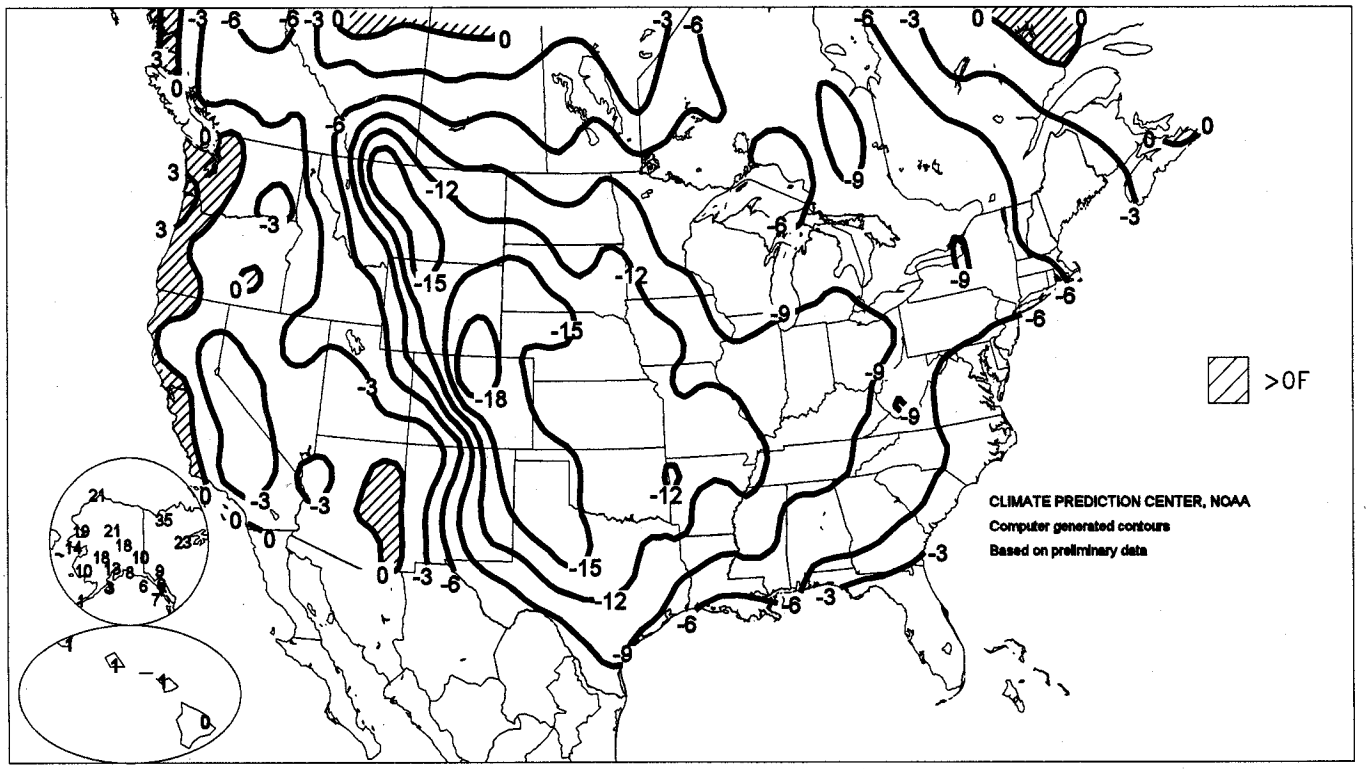
Volume 84, No. 46 November 18, 1997

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

Departure of Average Temperature from Normal (°F)
NOV 9 - 15, 1997



HIGHLIGHTS

November 9 - 15, 1997

Cold air, already in place **east of the Rockies** when the week began, was twice reinforced, holding weekly temperatures below normal by 8 to 20°F on the **Plains** and 6 to 14°F in the **Midwest**. Widespread snowfall accompanied the chill from the **upper Midwest** into the **Northeast**, especially late in the week. Ice glazed parts of the **Northeast**. In sharp contrast, readings averaged 8 to 21°F above normal on **Alaska's mainland**. Significant precipitation continued across the **Southeast** for a fifth consecutive week, and torrential rains caused some flooding in **west-central Florida**. Unsettled weather enveloped **California**, where weekly rainfall topped 6 inches in some locations.

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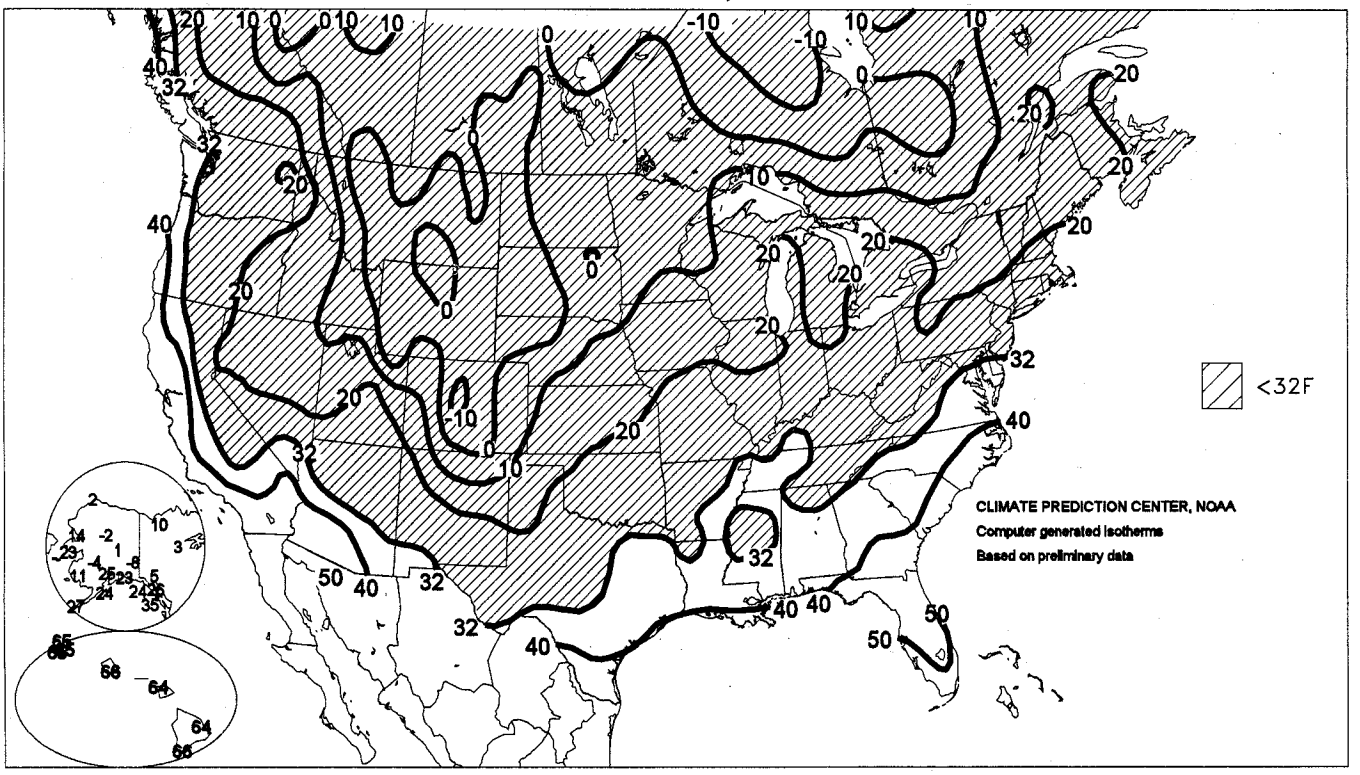
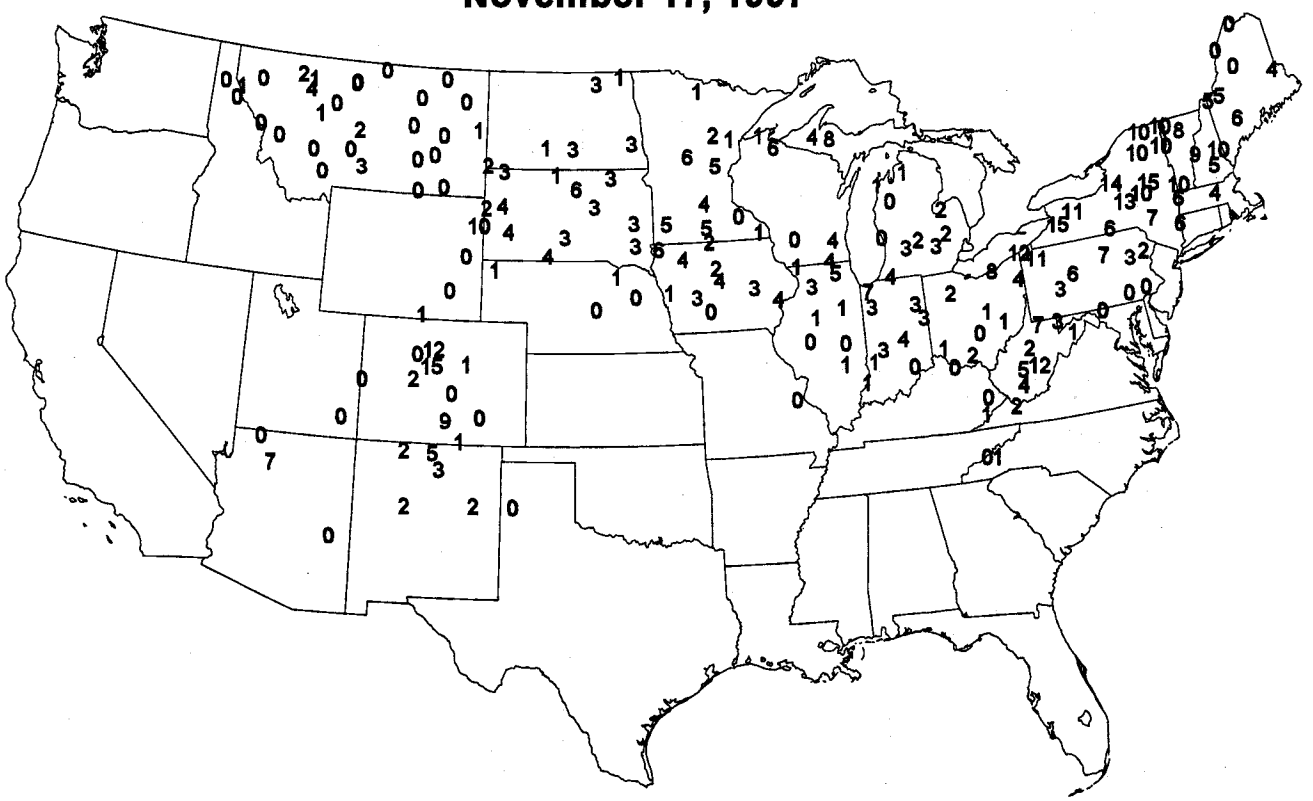
Extreme Minimum Temperature (°F)
NOV 9 - 15, 1997



Snow Depth (Inches)
November 17, 1997



Experimental product based on preliminary data
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

The NWS co-operative observer network is the principal source of the snow depth reports.

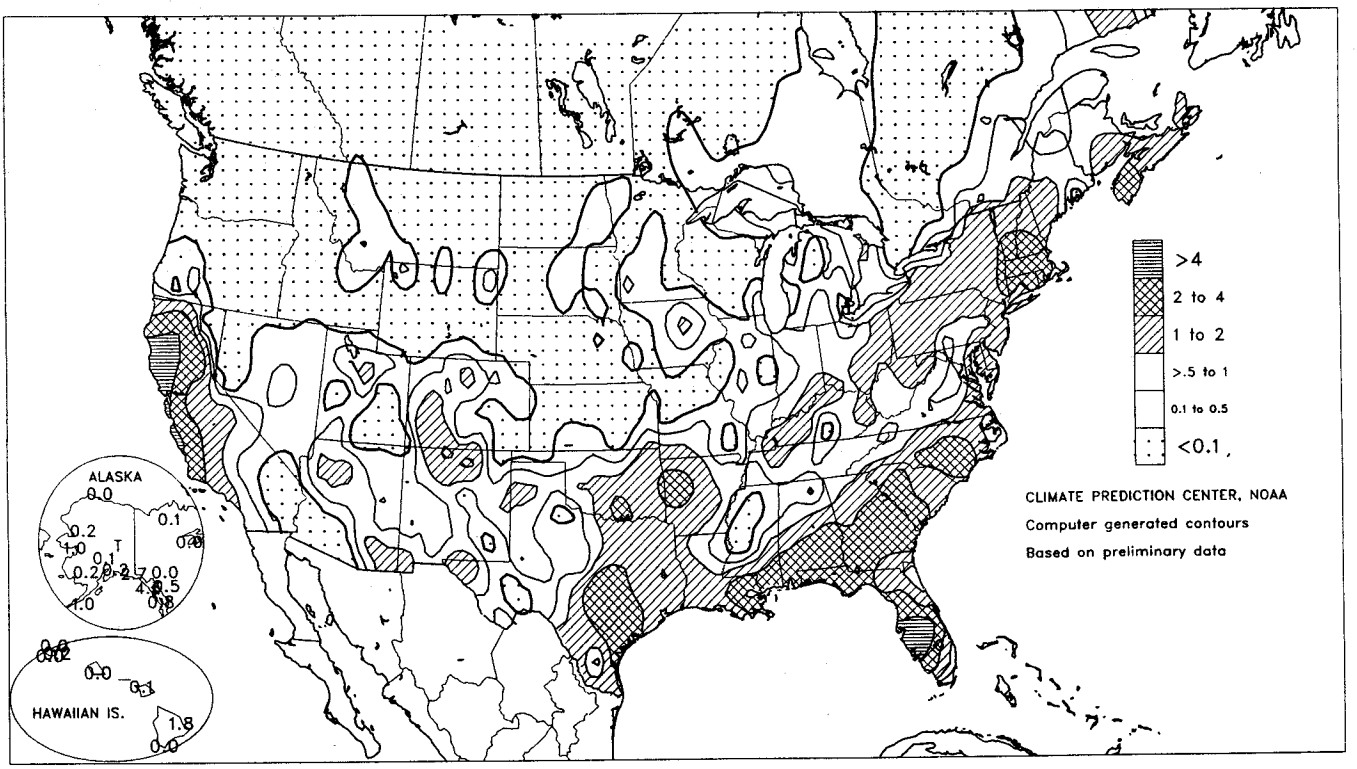
(Continued from front cover)

Early in the week, daily-record warmth covered **Alaska** and the **Pacific Northwest**. On Sunday, **Juneau, AK** posted their first of two consecutive daily records (52°F and 55°F). The only warmer November day on record in **Juneau** was November 2, 1946 (56°F). On Tuesday in **Alaska, Fairbanks'** high of 49°F was their second highest on record in November, behind a 54-degree reading on November 25, 1936. In **Washington, Seattle** (64°F) and **Olympia** (62°F) logged their first of three daily records on Sunday. **Seattle's** highs reached or exceeded 60°F four times during the first half of the month, their most in November since 1987. Meanwhile, daily-record lows were set on Sunday in **Florida** at **West Palm Beach** (49°F) and **Miami** (52°F). For much of the week, maxima in **Alaska** exceeded those observed across parts of the **South**. In **Texas, Austin's** high peaked at 47°F on Tuesday, 2° below **Fairbanks'**.

Precipitation spread onto the **southern Plains** early in the week, intensifying across the **South** by midweek and the **East** on Thursday and Friday. The season's first 1-inch snowfall occurred in **Amarillo, TX** on Monday, and 5.2 inches fell there by week's end. Snow reached **St. Louis, MO** on Thursday, producing a daily-record total of 2.3 inches. Heavy snow blanketed the **interior Northeast** and **upper Midwest** late in the week. Sleet and freezing rain fell in the **northern Mid-Atlantic States** and **southern New England**. On Friday in **New York**, daily-record snowfall totals were reported by **Rochester** (10.6 inches), **Syracuse** (10.3 inches), and **Buffalo** (9.5 inches). The only other time that **Rochester** had an 8-inch accumulation earlier in the season was in 1953. Storm-total snowfall reached 14 inches in **central New York**. Farther south, **Orlando, FL** noted consecutive daily-record rainfalls (1.42 inches on Thursday and 1.32 inches on Friday). **Melbourne, FL** netted 4.70 inches on November 13. Heavy rain (up to 9 inches) also fell in **west-central Florida**, where a record flood was reported on the **Manatee River** near **Myakka Head**, eclipsing the September 1988 record by 0.35 feet.

The season-to-date's heaviest and most widespread rain arrived in **California** during the week. For the 7 days ending Sunday, November 16, rainfall totaled 3.33 inches in **Santa Rosa**, 2.34 inches in **Redding**, 1.71 inches in **Sacramento**, and 0.92 inches in **Los Angeles**. Localized totals reached 6 to 8 inches near **Mt. Shasta** and in the **Pacific Coast Ranges**. At week's end, another surge of cold air spread southward through the **Plains**. Highs on Friday in **Colorado** reached only 18°F in **Colorado Springs** and 23°F in **Pueblo**. Daily-record lows were established on Saturday in **Valentine**, NE (-10°F) and **Pueblo** (-4°F). Snow accompanied the chill across the **upper Midwestern and Great Lakes States**, boosting month-to-date snowfall to 30.9 inches in **Marquette, MI**, 7.0 inches in **Waterloo, IA**, 6.6 inches in **Fargo, ND**, 6.2 inches in **Aberdeen, SD**, and 5.7 inches in **Indianapolis, IN**.

Total Precipitation (Inches)
November 9 - 15, 1997



National Weather Data for Selected Cities

Weather Data for the Week Ending November 15, 1997

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7511)

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	54	40	59	32	47	-7	0.57	-0.41	0.38	11.99	138	49.58	105	97	74	0	1	5	0
	HUNTSVILLE	50	37	57	30	43	-10	0.70	-0.39	0.46	15.33	161	53.81	111	97	78	0	1	4	0
	MOBILE	61	45	64	36	53	-7	2.75	1.84	2.61	11.30	106	70.58	125	99	68	0	0	4	1
	MONTGOMERY	58	41	65	37	50	-8	1.93	1.02	1.70	8.54	102	40.66	88	97	69	0	0	3	1
AK	ANCHORAGE	40	30	45	25	35	13	0.16	-0.10	0.15	4.76	90	17.11	120	93	68	0	6	2	0
	BARROW	29	11	34	2	20	20	0.00	-0.06	0.00	1.42	120	5.43	133	96	84	0	7	0	0
	FAIRBANKS	31	12	49	1	22	18	0.01	-0.18	0.01	1.47	67	5.29	55	91	69	0	7	1	0
	JUNEAU	44	33	55	26	39	6	--	--	--	--	--	--	--	99	85	0	5	-	-
	KODIAK	43	33	47	24	38	3	1.98	0.60	1.16	16.67	97	56.56	98	89	72	0	3	4	2
	NOME	34	29	40	23	32	14	0.98	0.73	0.31	4.35	100	15.21	112	92	73	0	6	5	0
AZ	FLAGSTAFF	43	28	51	24	36	-2	0.79	0.35	0.26	5.61	123	14.63	75	88	56	0	7	6	0
	PHOENIX	71	56	77	48	63	0	0.10	-0.04	0.06	0.84	46	4.10	65	72	33	0	0	2	0
	PRESCOTT	55	34	70	28	44	-1	0.35	0.00	0.19	4.40	114	14.02	82	80	44	0	3	3	0
	TUCSON	67	49	79	40	58	-2	0.49	0.35	0.40	2.30	75	7.68	72	73	36	0	0	3	0
	YUMA	73	55	80	48	64	-1	0.00	-0.06	0.00	4.54	678	5.11	199	71	40	0	0	0	0
AR	FORT SMITH	47	37	56	27	42	-10	1.48	0.53	0.59	9.41	105	35.75	99	93	74	0	1	6	1
	LITTLE ROCK	48	39	58	34	43	-10	1.34	0.13	--	11.86	117	54.91	131	96	77	0	0	-	-
CA	BAKERSFIELD	64	47	72	44	56	-1	0.41	0.24	0.24	0.70	89	3.69	78	91	54	0	0	5	0
	EUREKA	61	46	64	41	54	2	0.93	-0.57	0.40	6.25	95	26.39	94	85	63	0	0	5	0
	FRESNO	60	48	68	44	54	-1	1.18	0.87	0.84	1.40	100	5.39	64	93	62	0	0	4	1
	LOS ANGELES	67	55	71	50	61	-1	1.47	1.06	0.77	1.73	117	7.36	78	90	62	0	0	6	1
	REDDING	55	46	62	40	50	-3	1.79	0.60	0.98	6.86	124	24.75	99	98	78	0	0	6	1
	SACRAM/MCCLELL	61	49	64	41	55	--	0.84	--	0.46	1.22	--	10.74	--	98	69	0	0	4	0
	SAN DIEGO	67	58	70	56	63	0	0.61	0.28	0.48	1.48	119	4.81	64	86	63	0	0	3	0
	SAN FRANCISCO	62	52	63	48	57	2	2.36	1.70	0.78	3.92	143	13.29	89	95	68	0	0	6	2
CO	ALAMOSA	36	19	45	6	28	-4	0.12	0.01	0.11	2.24	122	7.10	103	92	62	0	7	2	0
	CO SPRINGS	27	16	40	0	21	-18	0.15	0.04	0.04	2.90	119	22.94	147	96	72	0	7	5	0
	DENVER	28	14	34	-3	21	-19	0.29	0.08	0.11	3.17	117	19.98	139	91	67	0	7	4	0
	GRAND JUNCTION	43	29	47	15	36	-6	0.46	0.29	0.24	4.52	206	12.94	168	91	56	0	4	3	0
	PUEBLO	33	19	46	-4	26	-16	0.46	0.35	0.17	2.28	134	12.90	122	91	67	0	7	5	0
CT	BRIDGEPORT	45	34	55	26	39	-8	1.19	0.30	0.67	5.66	70	32.69	90	82	55	0	4	4	1
	HARTFORD	43	31	50	24	37	-6	1.48	0.54	0.96	6.19	66	34.35	90	80	51	0	5	3	2
DC	WASHINGTON	50	40	58	35	45	-6	0.95	0.23	0.40	9.00	114	31.17	92	85	58	0	0	3	0
DE	WILMINGTON	48	38	53	28	43	-4	1.42	0.67	0.89	7.35	93	--	--	80	60	0	2	3	1
FL	DAYTONA BEACH	75	56	82	45	65	-2	1.73	1.06	1.61	12.67	106	46.52	106	97	54	0	0	2	1
	JACKSONVILLE	71	51	80	43	61	-2	0.91	0.41	0.60	10.24	93	46.29	97	95	56	0	0	2	1
	KEY WEST	80	70	85	60	75	-1	0.02	-0.67	0.02	7.82	66	33.35	92	88	64	0	0	1	0
	MIAMI	80	65	84	52	73	-1	1.15	0.49	1.15	16.23	109	63.62	120	89	60	0	0	1	1
	ORLANDO	76	57	82	44	66	-2	2.75	2.22	1.42	9.75	102	51.69	115	98	58	0	0	3	2
	TAMPA	75	62	80	51	68	0	2.83	2.43	2.29	19.98	227	51.67	127	92	64	0	0	2	2
	VALPARAISO/EGLIN	65	49	72	41	57	-2	2.48	1.77	2.42	9.45	84	57.63	103	91	58	0	0	2	1
	WEST PALM BEACH	79	61	84	49	70	-3	0.51	-0.65	0.51	8.15	46	53.70	96	95	61	0	0	1	1
GA	ATHENS	53	39	64	37	46	-9	1.72	0.88	1.04	16.63	198	47.38	108	95	72	0	0	2	2
	ATLANTA	51	40	59	33	45	-9	1.00	0.11	0.60	11.31	136	44.66	101	96	75	0	0	2	1
	AUGUSTA	59	41	67	35	50	-6	2.78	2.23	1.55	14.24	202	43.31	108	98	68	0	0	3	2
	COLUMBUS	58	44	67	40	51	-7	2.18	1.40	1.77	8.65	124	43.22	98	92	64	0	0	2	1
	MACON	58	43	65	39	50	-7	2.67	2.08	1.72	10.88	177	34.46	89	94	65	0	0	3	2
	SAVANNAH	64	45	70	41	55	-5	2.05	1.56	1.42	13.63	173	49.50	110	97	62	0	0	3	1
HI	HILO	82	68	84	64	75	0	1.84	-1.57	0.87	25.69	102	119.21	109	91	66	0	0	5	2
	HONOLULU	86	71	87	66	79	1	0.00	-0.68	0.00	3.65	82	19.09	114	80	52	0	0	0	0
	KAHULUI	84	69	88	64	77	1	--	--	--	--	--	--	--	86	57	0	0	-	-
	LIHUE	82	71	84	65	77	1	--	--	--	--	--	--	--	83	61	0	0	-	-
ID	BOISE	51	31	54	27	41	0	0.00	-0.35	0.00	1.44	64	9.95	100	79	35	0	5	0	0
	LEWISTON	45	31	55	26	38	-5	0.00	-0.27	0.00	3.72	162	14.80	138	94	68	0	5	0	0
	POCATELLO	43	19	49	7	31	-6	0.00	-0.28	0.00	3.05	131	12.24	118	87	43	0	7	0	0
IL	CHICAGO/O'HARE	37	28	45	20	33	-9	0.42	-0.27	0.24	5.30	69	29.61	93	82	58	0	5	3	0
	MOLINE	37	28	45	19	33	-9	0.12	-0.47	0.05	6.09	74	32.43	91	85	61	0	6	4	0
	PEORIA	38	28	45	19	33	-10	0.34	-0.29	0.23	7.01	89	29.35	90	80	59	0	6	4	0
	ROCKFORD	36	27	44	17	32	-8	0.14	-0.47	0.08	3.85	48	25.62	78	85	58	0	6	3	0
	SPRINGFIELD	39	29	46	20	34	-11	0.10	-0.48	0.06	6.53	91	25.05	80	90	60	0	5	2	0
IN	EVANSVILLE	41	34	50	32	38	-10	0.82	-0.05	0.81	5.05	66	43.08	115	91	61	0	2	2	1
	FORT WAYNE	38	26	45	20	32	-11	0.41	-0.23	0.23	6.99	108	37.28	123	92	61	0	7	5	0
	INDIANAPOLIS	39	29	47	22	34	-11	0.31	-0.43	0.25	3.81	54	30.53	88	94	62	0	6	2	0
	SOUTH BEND	37	26	43	19	31	-11	0.52	-0.24	0.17	6.53	79	30.38	89	89	64	0	7	7	0
IA	BURLINGTON	--	--	--	--	--	--	0.08	-0.48	--	5.21	63	29.55	90	--	--	-	-	-	-
	CEDAR RAPIDS	--	--	--	--	--	--	0.21	-0.28	--	6.05	84	24.66	79	--	--	-	-	-	-
	DES MOINES	33	24	40	16	29	-12	0.20	-0.23	0.13	7.41	104	29.83	96	92	68	0	7	2	0
	DUBUQUE	35	24	42	16	30	-8	0.19	-0.44	0.10	5.80	66	28.38	81	87	63	0	6	3	0
	SIOUX CITY	33	19	41	11	26	-12	0.01	-0.25	0.01	3.98	73	18.24	74	90	67	0	7	1	0
	WATERLOO	34	22	40	13	28	-9	0.55	0.11	0.40	10.10	143	30.27	96	93	63	0	7	3	0
KS	CONCORDIA	37	23	42	17	30	-13	0.02	-0.25	0.02	6.51	115	23.38	85	85	53	0	6	1	0
	DODGE CITY	37	26	49	16	31	-14	0.16	-0.04	0.12	7.20	198	26.99	132	85	65	0	7	2	0
	GOODLAND	32	19	42	8	26	-14	0.09	-0.08	0.05	3.40	120	17.56	101	90	63	0	7	2	0
	TOPEKA	38	26	43	18	32	-13	0.01	-0.45	0.01	5.78	73	26.07	79	85	59	0	5	1	0

Based on 1961-90 normals

Weather Data for the Week Ending November 15, 1997

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	38	28	44	21	33	-13	0.04	-0.34	0.04	6.94	106	33.13	121	82	59	0	5	1	0
KY	JACKSON	43	33	51	27	38	-10	0.68	-0.29	0.34	6.48	73	44.67	104	97	75	0	3	5	0
	LEXINGTON	42	32	54	28	37	-10	0.65	-0.11	0.57	6.40	87	54.06	140	93	67	0	3	4	1
	LOUISVILLE	44	36	55	31	40	-9	0.76	-0.10	0.71	4.42	58	51.81	133	90	54	0	1	3	1
	PADUCAH	41	33	52	29	37	-12	0.74	-0.24	0.72	6.76	78	47.33	112	97	68	0	3	2	1
LA	BATON ROUGE	62	47	69	36	54	-7	2.17	1.21	2.06	7.69	75	58.43	110	96	68	0	0	4	1
	LAKE CHARLES	62	49	67	40	56	-6	2.02	1.05	1.55	12.28	105	57.73	121	95	68	0	0	5	1
	NEW ORLEANS	63	51	70	41	57	-5	2.75	1.77	2.67	5.24	50	44.08	82	93	65	0	0	4	1
	SHREVEPORT	51	43	61	33	47	-11	1.37	0.32	0.40	12.37	137	62.12	156	98	81	0	0	7	0
ME	CARIBOU	34	24	41	14	29	-4	0.30	-0.53	0.24	5.28	64	31.55	100	90	67	0	6	3	0
	PORTLAND	41	28	52	22	35	-5	0.91	-0.30	0.69	5.76	61	31.33	84	91	55	0	5	2	1
MD	BALTIMORE	48	35	55	28	42	-6	1.19	0.42	0.42	9.87	124	35.29	99	88	61	0	1	4	0
MA	BOSTON	44	35	51	28	39	-7	2.25	1.27	1.26	7.50	89	28.60	81	84	56	0	3	3	2
	WORCESTER	38	29	45	22	33	-8	1.99	0.94	0.63	6.23	59	31.09	75	90	62	0	5	5	1
MI	ALPENA	36	24	43	16	30	-7	0.35	-0.17	0.20	5.31	84	27.67	108	90	58	0	6	5	0
	GRAND RAPIDS	36	25	44	19	31	-9	0.18	-0.60	0.06	7.81	90	28.08	89	89	67	0	6	4	0
	HOUGHTON LAKE	34	23	42	15	29	-8	0.09	-0.43	0.04	6.19	92	25.24	100	92	61	0	6	4	0
	LANSING	37	23	44	16	30	-10	0.32	-0.29	0.15	5.69	82	25.62	95	92	66	0	6	5	0
	MARQUETTE	--	--	--	--	--	--	1.69	0.99	--	6.85	75	30.12	96	--	--	-	-	-	-
	MUSKEGON	37	27	45	23	32	-8	0.19	-0.54	0.05	6.08	74	24.46	88	94	62	0	6	6	0
MN	DULUTH	27	17	34	8	22	-8	0.03	-0.40	0.02	4.18	57	22.69	81	88	58	0	7	2	0
	INT'L FALLS	27	15	34	2	21	-7	0.08	-0.20	0.04	6.97	121	18.41	80	87	63	0	7	3	0
	MINNEAPOLIS	32	22	39	12	27	-9	0.03	-0.35	0.02	5.33	93	33.55	126	86	60	0	7	2	0
	ROCHESTER	31	19	38	10	25	-10	0.03	-0.36	0.02	4.63	69	29.06	104	91	67	0	7	2	0
	ST. CLOUD	30	18	38	7	24	-7	0.25	-0.06	0.15	3.47	57	23.83	92	91	60	0	7	3	0
MS	JACKSON	54	40	63	32	47	-10	0.74	-0.34	0.59	8.22	91	50.65	108	99	72	0	2	4	1
	MERIDIAN	55	40	63	32	48	-9	1.21	0.22	1.05	7.44	87	49.39	103	99	72	0	1	3	1
	TUPELO	50	39	59	32	44	-9	0.32	-0.76	0.17	8.53	92	59.84	127	95	74	0	1	5	0
MO	COLUMBIA	37	29	45	25	33	-12	0.07	-0.62	0.04	6.83	80	33.44	95	89	64	0	6	2	0
	KANSAS CITY	37	27	42	20	32	-13	0.08	-0.38	0.08	6.67	72	29.10	83	88	61	0	5	1	0
	SAINT LOUIS	39	32	48	29	35	-12	0.47	-0.29	0.23	6.71	91	29.02	88	88	65	0	5	3	0
	SPRINGFIELD	40	31	52	23	35	-12	0.68	-0.20	0.35	8.39	83	34.81	92	95	68	0	5	6	0
MT	BILLINGS	30	12	37	4	21	-15	0.00	-0.19	0.00	2.10	71	14.42	103	93	58	0	7	0	0
	BUTTE	37	9	41	-2	23	-6	0.00	-0.14	0.00	2.23	99	19.26	168	85	37	0	7	0	0
	GLASGOW	32	12	41	2	22	-9	0.00	-0.06	0.00	1.38	78	11.53	110	86	45	0	7	0	0
	GREAT FALLS	27	7	38	3	17	-18	0.00	-0.14	0.00	1.65	71	14.06	100	94	71	0	7	0	0
	KALISPELL	38	13	42	4	25	-7	0.00	-0.29	0.00	2.61	96	16.66	119	92	49	0	7	0	0
	MILES CITY	32	11	41	3	21	-13	0.02	-0.11	0.02	1.47	60	10.44	79	87	51	0	7	1	0
	MISSOULA	41	19	45	9	30	-4	0.00	-0.18	0.00	2.13	96	14.35	121	80	42	0	7	0	0
NE	GRAND ISLAND	35	18	43	12	27	-13	0.00	-0.25	0.00	9.12	192	28.03	118	86	57	0	7	0	0
	LINCOLN	36	21	41	11	29	-12	0.02	-0.29	0.02	5.37	85	21.88	82	91	57	0	7	1	0
	NORFOLK	33	16	41	10	24	-14	0.06	-0.19	0.04	5.38	117	19.89	83	90	58	0	7	2	0
	NORTH PLATTE	33	13	40	7	23	-14	0.03	-0.14	0.03	4.57	156	17.41	94	85	50	0	7	1	0
	OMAHA	34	22	39	17	28	-12	0.03	-0.32	0.02	10.17	150	28.09	100	92	61	0	7	2	0
	SCOTTSBLUFF	31	15	40	3	23	-15	0.11	-0.03	0.11	2.88	131	20.03	139	85	58	0	7	1	0
	VALENTINE	30	9	38	-10	19	-17	0.00	-0.14	0.00	4.92	178	21.80	124	89	59	0	7	0	0
NV	ELY	44	23	47	17	34	-2	0.25	0.08	0.19	2.28	100	8.64	94	90	50	0	7	3	0
	LAS VEGAS	62	48	67	41	55	-1	0.19	0.08	0.12	2.25	326	3.69	106	66	34	0	0	4	0
	RENO	48	28	52	22	38	-3	0.47	0.28	0.46	1.19	106	6.78	112	92	55	0	6	2	0
	WINNEMUCCA	48	27	55	17	38	-1	0.52	0.30	0.30	1.04	72	7.40	107	89	52	0	6	5	0
NH	CONCORD	42	32	49	24	37	-2	1.41	0.56	0.84	7.34	94	30.58	97	84	49	0	5	4	2
NJ	NEWARK	47	36	54	29	42	-7	1.15	0.23	0.63	7.60	90	37.20	97	78	55	0	3	3	1
NM	ALBUQUERQUE	46	32	51	20	39	-6	0.68	0.58	0.28	3.48	183	11.36	139	88	56	0	2	6	0
NY	ALBANY	38	29	45	23	34	-8	1.74	0.98	0.87	10.20	138	30.77	97	94	68	0	5	3	2
	BINGHAMTON	34	26	43	19	30	-10	1.52	0.75	0.81	7.89	101	27.70	86	97	71	0	5	4	2
	BUFFALO	39	30	49	25	34	-8	0.96	0.07	0.80	10.38	123	36.91	112	92	62	0	5	5	1
	ROCHESTER	42	27	48	20	34	-7	0.66	-0.02	0.55	9.32	136	30.43	109	91	53	0	6	5	1
	SYRACUSE	38	28	44	20	33	-9	1.54	0.66	0.90	7.43	84	27.36	81	95	66	0	5	6	2
NC	ASHEVILLE	46	37	50	32	41	-7	0.48	-0.35	0.25	9.92	108	45.93	109	94	75	0	1	3	0
	CHARLOTTE	55	39	65	33	47	-6	1.39	0.65	0.72	9.38	111	43.02	113	91	59	0	0	3	2
	GREENSBORO	53	36	63	31	44	-8	0.90	0.21	0.49	7.42	87	35.78	95	91	59	0	1	3	0
	HATTERAS	60	49	67	43	55	-4	0.87	-0.31	0.52	14.82	115	46.67	95	92	73	0	0	3	1
	RALEIGH	55	38	65	34	47	-6	2.38	1.69	1.36	9.20	123	36.90	101	95	61	0	0	3	2
	WILMINGTON	62	47	68	43	54	-4	1.37	0.67	0.70	13.15	143	41.33	84	95	60	0	0	3	2
ND	BISMARCK	27	12	33	1	20	-11	0.13	0.02	0.09	4.17	157	14.65	99	88	63	0	7	3	0
	DICKINSON	29	10	37	-3	20	-12	0.16	0.05	0.09	1.24	43	16.04	103	89	58	0	7	3	0
	FARGO	27	13	35	3	20	-10	0.17	-0.01	0.10	7.34	179	27.60	149	87	65	0	7	2	0
	GRAND FORKS	26	10	32	5	18	-10	--	--	--	--	--	--	--	90	67	0	7	-	-
	JAMESTOWN	27	14	33	5	20	-10	0.26	0.15	0.17	2.81	94	20.05	124	94	69	0	7	2	0
	WILLISTON	31	8	40	0	20	-9	0.00	-0.11	0.00	0.76	32	11.35	88	83	47	0	7	0	0
OH	AKRON-CANTON	38	29	50	19	34	-10	0.77	0.07	0.46	5.17	73	29.54	92	96	73	0	5	6	0
	CINCINNATI	42	33	53	26	37	-8	0.91	0.10	0.84	3.73	50	35.88	99	89	59	0	3	3	1
	CLEVELAND	40	31	49	22	36	-8	0.90	0.17	0.46	7.10	95	31.58	99	89	64	0	5	4	0
	COLUMBUS	40	32	46	24	36	-8	0.69	-0.06	0.59	4.50	68	34.35	102	85	66	0	3	3	1
	DAYTON	38	29	44	21	33	-11	0.46	-0.25	0.28	3.78	58	27.54	86	90	63	0	6	4	0
	MANSFIELD	36	28	44	19	32	-11	0.43	-0.38	0.29	5.29	72	36.02	104	93	72	0	5	4	0

Based on 1961-90 normals

Weather Data for the Week Ending November 15, 1997

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	38	26	44	17	32	-10	0.52	-0.13	0.31	6.92	110	35.59	125	92	65	0	6	4	0
	YOUNGSTOWN	39	30	51	18	34	-8	0.70	-0.02	0.22	6.93	91	29.40	90	94	69	0	5	5	0
OK	OKLAHOMA CITY	44	32	49	26	38	-13	0.26	-0.22	0.15	4.86	60	24.99	80	91	58	0	4	4	0
	TULSA	44	32	54	23	38	-13	0.88	0.12	0.36	5.93	59	36.48	99	91	60	0	4	5	0
OR	ASTORIA	60	43	64	39	52	4	0.00	-2.31	0.00	19.49	146	70.38	139	81	47	0	0	0	0
	BURNS	50	21	52	16	35	0	0.02	-0.27	0.01	1.37	73	8.07	99	91	44	0	7	2	0
	EUGENE	51	38	57	32	44	-2	0.09	-1.81	0.05	8.30	94	32.85	91	91	74	0	1	3	0
	MEDFORD	56	40	63	35	48	3	0.15	-0.59	0.06	3.80	99	15.26	111	97	63	0	0	4	0
	PENDLETON	40	31	47	28	36	-7	0.00	-0.36	0.00	3.54	162	10.31	107	99	84	0	5	0	0
	PORTLAND	56	44	61	36	50	3	0.00	-1.20	0.00	9.08	133	37.56	138	74	52	0	0	0	0
	SALEM	57	37	62	31	47	1	0.00	-1.43	0.00	11.13	150	38.66	133	94	58	0	1	0	0
PA	ALLENTOWN	43	32	50	23	37	-7	0.85	-0.06	0.54	7.61	87	35.46	93	89	60	0	5	3	1
	ERIE	40	34	48	28	37	-8	1.54	0.60	0.51	7.69	76	35.83	100	92	68	0	4	5	1
	MIDDLETOWN	44	35	52	26	40	-6	0.65	-0.17	0.49	7.15	88	29.47	83	84	58	0	3	3	0
	PHILADELPHIA	47	38	53	32	43	-5	0.86	0.09	0.33	5.91	77	28.42	78	80	57	0	1	4	0
	PITTSBURGH	41	31	54	22	36	-8	0.56	-0.10	0.43	7.70	115	31.12	96	91	64	0	4	4	0
	SCRANTON	39	29	46	20	34	-9	1.00	0.28	0.61	5.43	71	24.37	76	95	66	0	5	5	1
	WILLIAMSPORT	41	31	47	23	36	-7	1.29	0.41	0.73	8.27	96	27.54	77	91	60	0	5	4	1
RI	PROVIDENCE	44	33	51	28	39	-7	2.36	1.33	1.26	7.92	85	36.35	94	90	59	0	5	3	2
SC	BEAUFORT	63	47	69	43	55	-5	1.69	1.17	0.79	8.32	96	38.89	83	96	63	0	0	3	2
	CHARLESTON	63	46	70	43	55	-5	1.66	1.10	0.76	16.16	183	56.58	120	95	62	0	0	3	2
	COLUMBIA	59	39	67	36	49	-6	2.09	1.43	0.99	12.23	151	41.71	93	95	61	0	0	3	2
	GREENVILLE	54	37	60	35	45	-7	1.28	0.45	0.81	10.36	106	44.36	98	97	66	0	0	2	1
SD	ABERDEEN	29	10	37	-5	19	-13	0.24	0.10	0.09	4.51	136	19.07	107	93	67	0	7	3	0
	HURON	33	14	40	4	24	-11	0.01	-0.17	0.01	6.46	178	24.31	126	89	60	0	7	1	0
	RAPID CITY	30	8	42	-4	19	-17	0.05	-0.09	0.04	1.36	51	20.56	129	86	52	0	7	2	0
	SIOUX FALLS	32	14	40	3	23	-12	0.18	-0.08	0.16	3.67	68	20.00	88	93	67	0	7	2	0
TN	BRISTOL	45	37	48	32	41	-7	0.37	-0.30	0.25	5.57	77	38.53	108	94	76	0	1	4	0
	CHATTANOOGA	49	37	57	31	43	-9	0.37	-0.68	0.22	12.11	127	52.33	114	96	75	0	1	4	0
	KNOXVILLE	48	37	53	31	43	-7	0.41	-0.44	0.25	7.85	103	48.46	119	92	75	0	1	4	0
	MEMPHIS	47	38	57	34	43	-11	1.32	0.17	1.09	12.36	139	66.54	153	94	73	0	0	4	1
	NASHVILLE	46	37	58	35	42	-10	0.68	-0.25	0.40	10.06	126	47.28	117	94	66	0	0	4	0
TX	ABILENE	47	33	61	26	40	-16	0.69	0.33	0.50	3.26	50	23.60	104	95	69	0	4	5	1
	AMARILLO	37	26	44	17	32	-16	1.09	0.92	0.33	3.17	84	22.74	121	95	78	0	6	7	0
	AUSTIN	54	45	63	36	49	-13	2.61	2.04	0.81	9.50	118	42.51	147	98	79	0	0	7	3
	BEAUMONT	62	49	67	40	55	-7	1.13	0.01	0.83	9.12	70	44.70	90	95	73	0	0	4	1
	BROWNSVILLE	70	52	80	42	61	-8	0.79	0.42	0.33	18.59	194	35.68	145	96	78	0	0	6	0
	CORPUS CHRISTI	64	51	77	41	57	-9	1.69	1.30	0.99	15.52	164	35.80	127	97	78	0	0	6	1
	DEL RIO	63	47	76	38	55	-7	0.24	0.01	0.08	4.06	72	22.00	127	91	59	0	0	5	0
	EL PASO	57	42	72	32	50	-4	0.79	0.68	0.40	2.53	94	8.23	101	80	53	0	1	3	0
	FORT WORTH	50	40	56	31	45	-13	0.95	0.40	0.57	8.61	105	37.96	123	95	62	0	2	7	1
	GALVESTON	63	53	68	41	58	-7	1.50	0.72	0.63	20.31	196	55.54	150	91	78	0	0	6	2
	HOUSTON	59	46	67	36	53	-9	1.51	0.62	0.53	14.36	129	53.32	131	96	77	0	0	6	1
	LUBBOCK	43	28	50	19	36	-16	0.58	0.40	0.33	3.67	74	20.90	117	91	66	0	4	3	0
	MIDLAND	50	34	64	26	42	-12	0.45	0.28	0.32	2.90	61	15.77	111	88	62	0	3	4	0
	SAN ANGELO	51	34	61	24	43	-14	0.40	0.13	0.25	2.78	43	21.63	112	93	68	0	4	3	0
	SAN ANTONIO	59	45	70	34	52	-10	1.72	1.07	0.55	7.67	96	30.34	107	97	70	0	0	6	3
	VICTORIA	61	48	70	38	55	-9	2.22	1.63	1.35	20.04	193	65.15	190	96	77	0	0	5	1
	WACO	53	40	62	32	47	-13	1.82	1.23	0.85	4.42	54	32.84	113	97	72	0	2	7	1
	WICHITA FALLS	47	34	53	27	40	-14	0.70	0.33	0.26	3.59	48	19.43	72	96	61	0	4	6	0
UT	SALT LAKE CITY	47	31	52	21	39	-3	0.18	-0.12	0.11	3.56	105	15.61	110	86	47	0	4	3	0
VT	BURLINGTON	36	28	44	20	32	-7	1.57	0.83	1.03	7.40	95	27.96	92	87	61	0	5	4	1
VA	LYNCHBURG	50	34	60	30	42	-7	0.32	-0.41	0.22	8.65	101	31.98	89	93	56	0	3	5	0
	NORFOLK	55	45	56	42	50	-4	1.41	0.75	0.75	9.71	115	33.25	83	96	71	0	0	4	1
	RICHMOND	52	40	59	36	46	-5	0.86	0.12	0.44	7.83	92	30.19	79	94	58	0	0	3	0
	ROANOKE	48	36	57	32	42	-6	0.40	-0.36	0.24	6.37	71	32.13	88	84	57	0	1	4	0
	WASH/DULLES	49	38	56	32	43	-3	0.79	0.02	0.36	10.60	129	33.15	94	90	64	0	2	4	0
WA	HANFORD	47	29	57	23	38	--	0.00	-0.28	0.00	1.81	157	5.64	118	90	54	0	6	0	0
	OLYMPIA	57	29	62	28	43	0	0.03	-1.83	0.02	13.53	131	54.01	141	100	58	0	6	2	0
	QUILLAYUTE	59	35	61	32	47	2	0.01	-3.39	0.01	28.86	128	107.56	131	94	51	0	1	1	0
	SEATTLE-TACOMA	59	39	64	34	49	3	0.00	-1.34	0.00	10.66	136	39.45	140	86	39	0	0	0	0
	SPOKANE	48	24	51	14	36	0	0.00	-0.48	0.00	3.17	119	15.01	116	80	39	0	6	0	0
	YAKIMA	47	26	55	20	37	-3	0.00	-0.23	0.00	2.59	199	6.19	104	83	53	0	5	0	0
WV	BECKLEY	38	30	43	23	34	-10	0.48	-0.21	0.20	3.86	50	34.09	94	94	79	0	4	6	0
	CHARLESTON	45	36	48	30	40	-8	0.54	-0.30	0.27	4.54	58	37.99	102	94	71	0	1	5	0
	ELKINS	41	32	48	24	36	-6	0.98	0.21	0.47	8.20	97	38.22	96	89	70	0	3	5	0
	HUNTINGTON	44	35	52	29	40	-8	0.74	-0.02	0.45	4.31	59	34.79	96	92	64	0	2	6	0
WI	EAU CLAIRE	37	20	58	10	28	-6	0.22	-0.15	0.07	5.76	80	29.20	98	91	63	0	7	4	0
	GREEN BAY	36	24	43	16	30	-6	0.06	-0.46	0.05	3.97	58	26.72	102	88	55	0	6	2	0
	MADISON	35	26	42	18	31	-7	0.11	-0.39	0.04	3.33	50	26.87	96	89	61	0	6	4	0
	MILWAUKEE	37	27	43	20	32	-8	0.10	-0.48	0.06	4.54	64	30.96	105	85	58	0	5	4	0
WY	CASPER	28	7	40	0	17	-17	0.05	-0.14	0.05	2.14	92	11.28	98	87	57	0	7	1	0
	CHEYENNE	24	10	32	1	17	-19	0.22	0.09	0.18	3.43	149	19.38	141	91	70	0	7	2	0
	LANDER	29	12	37	2	21	-12	0.19	0.00	0.19	2.70	101	12.60	104	81	52	0	7	1	0
	SHERIDAN	31	9	42	2	20	-14	0.01	-0.18	0.01	2.59	86	14.74	110	89	55	0	7	1	0

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

National Agricultural Summary

November 10 - 16, 1997

HIGHLIGHTS

Well-below-normal temperatures, combined with rainfall in the Southeast and late-week snow in the Corn Belt and New England, hampered harvest efforts. Snow in North Dakota and Minnesota halted most fieldwork for the winter. Field activities in California were slowed for several days by midweek rainfall. Well-below-normal temperatures and snow limited fieldwork in the Rocky Mountains and High Plains. In the Northwest, fieldwork continued under favorable conditions.

Corn: The Nations' corn acreage was 91% harvested, ahead of 87% harvested at this time last year and the 5-year average of 85%. Harvest was active in the Great Lakes region and eastern Corn Belt until late-week snow limited fieldwork. Harvest remained behind the normal pace in Michigan even though farmers harvested 21% of their States' crop during the week. In Iowa, harvest was complete in many areas, but lodging, unfrozen, and slick fields slowed harvest of remaining fields. Good harvesting weather in Nebraska promoted active harvest. However, growers in eastern Nebraska reported significant harvest losses due to earlier snowstorms and high winds. In Missouri, poor drying weather hampered harvest efforts.

Soybeans: Soybean harvest continued at a slow pace, advancing only 2 percentage points to 93% complete at week's end. This compares with 92% harvested in 1996 and the average of 93%. In the Southeast, cool, wet weather hampered harvest progress. Daily rainfall halted harvest in Tennessee until Saturday afternoon. Wet conditions were beginning to cause losses in Virginia. A hard freeze would aid harvest in Georgia. Harvest was virtually complete in the Corn Belt, with only a few fields of double-crop soybeans yet unharvested. Soybean harvest was slow in Nebraska as farmers concentrated on corn. In Minnesota, soybean harvest was virtually complete before the arrival of snow cover at the end of the week.

Cotton: Cotton harvest reached 78% complete, 1 point ahead of last year and the average. Harvest was in its final stages in California, Louisiana, and Mississippi. Cotton harvest progressed well in New Mexico despite limited fieldwork time due to cold, wet conditions. Weather problems in Texas caused numerous harvest delays and the quality of the crop may be affected. However, even with the delays, harvest progressed ahead of the normal pace. Continued rainfall in the Southeast caused harvest to remain behind the average pace, especially in Georgia and South Carolina, where quality and yields were deteriorating rapidly.

Sorghum: Eighty-nine percent of the sorghum acreage was harvested, behind 91% harvested in 1996 and the average of 90%. Despite snow, New Mexico sorghum growers were able to harvest 25% of their States' crop during the week, 19 points ahead of the average pace. Colorado harvest progress remained well behind average as another snowstorm blanketed much of the State. In Kansas, snowdrifts from October's blizzard were preventing harvest in some areas. Cool, wet weather delayed harvest in the north-central and plains areas of Texas. Nebraska growers made good progress under good harvesting conditions. Poor drying weather limited harvest in Missouri.

Peanuts: Peanut harvest was in its final stages with 96% of the crop out of the field, 3 points ahead of last year. Texas was the only major peanut-producing State to have a significant amount of acreage yet unharvested. Producers in north-central areas needed a few more good weather days to complete harvest. Fields dug but not harvested may have sustained some damage from rain. Harvest in North Carolina moved into its final stages as growers made good progress.

Winter wheat: Planting of the 1998 winter wheat crop advanced to 96% complete, equal to planting a year ago but 1 point ahead of the average. Planting was most active in California and North Carolina, where fields were planted after fall crop harvest. In Georgia, planting was a week behind average due to the continued wet weather and delayed fall crop harvest. Planting was virtually complete in the remaining major winter wheat-producing States. Eighty-nine percent of the crop was emerged, compared with 92% emerged in 1996 and the average of 88%. Fields in the Eastern and Southern States benefited from precipitation. Sunny weather and good moisture conditions favored growth of fall seeded crops in eastern Washington. In the Texas plains, extremely cold weather early in the week may have set back weaker stands. Overall, winter wheat condition rated mostly good.

Crop Progress and Condition

Week Ending November 16, 1997

Winter Wheat Percent Planted

	Nov 16 1997	Prev Week	Prev Year	5-Yr Avg
AR	77	72	62	77
CA	40	15	39	31
CO	100	100	100	100
GA	19	13	25	29
ID	99	99	99	99
IL	100	99	99	98
IN	100	98	100	100
KS	99	98	99	99
MI	100	99	100	99
MO	95	93	91	91
MT	100	100	100	100
NE	100	100	100	100
NC	71	55	69	62
OH	100	99	99	100
OK	98	96	99	98
OR	97	95	97	95
SD	100	100	100	100
TX	94	92	100	92
WA	100	100	99	99
ALL	96	94	96	95

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

Winter Wheat Percent Emerged

	Nov 16 1997	Prev Week	Prev Year	5-Yr Avg
AR	65	56	52	65
CA	15	5	24	15
CO	99	98	99	99
GA	13	8	13	18
ID	90	85	89	89
IL	98	93	93	90
IN	93	86	91	93
KS	94	91	98	96
MI	99	97	96	92
MO	84	77	78	78
MT	91	88	92	90
NE	100	100	100	100
NC	42	30	47	47
OH	94	88	87	93
OK	88	82	94	88
OR	80	75	90	89
SD	100	100	99	99
TX	85	80	98	81
WA	99	99	97	91
ALL	89	85	92	88

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

Soybeans Percent Harvested

	Nov 16 1997	Prev Week	Prev Year	5-Yr Avg
AL	72	68	75	69
AR	81	74	71	83
GA	44	31	67	55
IL	99	99	98	98
IN	99	98	95	98
IA	99	99	99	100
KS	95	92	91	94
KY	77	71	76	82
LA	99	98	99	95
MI	93	90	95	94
MN	99	99	99	99
MS	90	89	93	88
MO	90	87	86	91
NE	97	94	100	100
NC	33	21	40	36
OH	100	97	89	97
SC	20	16	52	34
SD	100	100	100	99
TN	64	63	57	71
ALL	93	91	92	93

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

Corn Percent Harvested

	Nov 16 1997	Prev Week	Prev Year	5-Yr Avg
CO	92	81	96	87
GA	100	100	100	100
IL	96	93	91	90
IN	87	75	76	81
IA	96	91	89	88
KS	95	94	98	96
KY	93	90	96	95
MI	52	31	69	64
MN	97	96	94	86
MO	93	91	88	87
NE	91	81	92	85
NC	100	96	100	99
OH	72	57	60	72
PA	66	53	69	68
SD	98	92	89	79
TX	100	100	100	100
WI	70	58	76	74
ALL	91	84	87	85

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

Cotton Percent Harvested

	Nov 16 1997	Prev Week	Prev Year	5-Yr Avg
AL	75	68	85	82
AZ	82	74	72	85
AR	88	84	94	92
CA	95	85	84	89
GA	59	58	81	73
LA	99	98	100	98
MS	95	93	98	95
MO	86	82	80	89
NM	70	56	73	64
NC	63	50	78	72
OK	48	40	34	51
SC	64	55	89	77
TN	83	82	91	88
TX	71	62	58	61
ALL	78	71	77	77

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

Sorghum Percent Harvested

	Nov 16 1997	Prev Week	Prev Year	5-Yr Avg
AR	99	99	100	100
CO	27	17	87	75
IL	94	91	79	89
KS	89	80	93	88
LA	100	100	100	100
MS	100	100	100	100
MO	92	89	88	89
NE	96	85	87	93
NM	84	59	44	65
OK	73	59	81	76
SD	96	90	94	92
TX	92	88	93	95
ALL	89	82	91	90

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

Peanuts Percent Harvested

	Nov 16 1997	Prev Week	Prev Year	5-Yr Avg
AL	100	99	98	NA
FL	100	100	99	NA
GA	100	99	99	NA
NC	93	83	99	NA
OK	97	92	89	NA
SC	96	94	99	NA
TX	83	77	86	NA
VA	99	99	100	NA
ALL	96	93	96	NA

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

(Continued on back cover)

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 3.0. Topsoil 54% adequate, 46% surplus. Wheat 56% planted, 55% 1996, 62% avg. Livestock 2% poor, 20% fair, 73% good, 5% excellent. Wet, cool conditions hindered harvest in most areas.

ARIZONA: Alfalfa 1% poor, 18% fair, 53% good, 28% excellent.; harvest activity 6% light, 19% moderate, 34% active, 41% not being harvested. Alfalfa sheeping off 78% none, 3% light, 9% moderate, 10% active. Small grain seeding 14% seeded, 4% emerged. Central area growers shipped bok choy, cilantro, carrots, broccoli, green onions, mixed greens, parsley, radishes, spinach, swiss chard, turnips, cantaloupe, honeydews. Western growers shipped iceberg lettuce, spinach, cantaloupe, honeydew. Eastern area growers harvested iceberg lettuce, finished the green chili harvest, started the pecan harvest. Lemons, tangerines, grapefruit were harvested in western areas while central area growers harvested navel oranges, tangerines, grapefruit.

ARKANSAS: Days suitable for fieldwork 2. Soil moisture 6% short, 43% adequate, 51% surplus. Main farming activities: Harvesting cotton, soybeans, planting wheat, winter pastures. Other farm activities included cattle vaccination, feeding cattle, planting, fertilizing winter forages. Alfalfa hay 10% poor, 61% fair, 29% good. Other hay 8% very poor, 15% poor, 40% fair, 34% good, 3% excellent. Cooler-than-normal temperatures. Above-average rainfall prevailed across the State.

CALIFORNIA: Field activities were slowed for several days by midweek rainfall in most areas. Seedbed preparation for planting small grains, forage crops, new alfalfa was ongoing where conditions permitted. Planting of wheat, barley, oats, winter forages, new alfalfa progressed at a rapid pace before rains. Some small grain fields received aerial fertilizer applications. Rice stubble fields were reflooded for wildlife feeding. Cotton harvest neared completion in the San Joaquin Valley. Plow down of harvested cotton fields for pink boll worm control was halted by wet conditions. Dry beans, corn silage were harvested. Sugar beets were planted in the central, southern San Joaquin Valley. Emerging sugar beets were sprayed for armyworms, aphids in the Imperial Valley, new alfalfa was treated for weeds. Established alfalfa was cut for hay or green chopped early in the week. Pruning of stone fruit orchards was active as weather permitted. Persimmon, pomegranate harvests continued. Navel orange picking remained active, with good quality reported. Other citrus fruits picked were grapefruit, lemons, mandarins. Rainfall postponed harvest of vegetables in some areas. In the central coast area, broccoli, cauliflower continued to be harvested. Lettuce harvest was progressing in the San Joaquin Valley. Artichokes, brussels sprouts were harvested in the Salinas-Watsonville area, Santa Cruz-San Mateo coastal areas. Cantaloup and honeydew melons continued to be harvested in the Imperial Valley. Cauliflower, broccoli, spinach showed good progress. In the desert valleys, white flies, armyworms remained a problem. Sweet potato, fresh market tomato harvests were winding down in Merced County. Harvest of sweet corn ended in Tulare County. Garlic was planted on the west side of Fresno County. Other crops harvested were lima beans, green beans, onions, radishes, vineseed, eggplant, squash, and okra. Pastures, rangeland throughout the State were still in seasonally poor condition, with supplemental feeding necessitated in most areas. However, last week's rainfall was a welcomed aid to germination of new forage. Livestock were in generally good condition. Fall calving continued. Predator problems involving young lambs, calves were reported in Sutter County. Beekeepers in the Fresno area were looking for good locations to overwinter hives.

COLORADO: Days suitable for fieldwork 2.5. Topsoil 2% very short, 13% short, 72% adequate, 13% surplus. Subsoil 5% very short, 19% short, 66% adequate, 10% surplus. State experienced another storm system during the week, which blanketed much of the State with snow.

DELAWARE: Days suitable for fieldwork 2.1. Topsoil 77% adequate, 23% surplus. Subsoil 10% short, 70% adequate, 20% surplus. Field corn 81% harvested for grain, 94% 1996, 97% avg. Soybeans 41% harvested, 55% 1996, 65% avg. Sorghum 40% harvested, 69% 1996, 73% avg. Barley 10% fair, 85% good, 5% excellent. Wheat 13% fair, 82% good, 5% excellent; 72% seeded, 83% 1996, 84% avg. Hay supplies 17% very short, 35% short, 48% adequate. Alfalfa 80% harvested 5th cutting, 85% 1996, 75% avg. Pasture feed 10% poor, 25% fair, 65% good. Activities: Minimal amount of harvesting, seeding done due to rain during most of the day on 14th, 15th night.

FLORIDA: Topsoil mostly adequate Panhandle, northern Peninsula, with scattered areas surplus moisture. Central, southern Peninsula moisture short to adequate, with scattered areas surplus moisture. Sugarcane growth normal. Wet weather delayed cotton picking. Soybean harvest virtually complete. Sugarcane harvest active. Farmers planting winter wheat for grain. One hundred percent of peanuts have been harvested. Wet fields delayed the harvesting of most vegetables in northern, west central areas. Vegetables marketed include: Snap beans, cabbage, sweet corn, cucumbers, eggplant, endive, escarole, lettuce, okra, parsley, radishes, squash, Chinese cabbage, tomatoes, watermelons. Volume being shipped is nearing the fall peak, with growers trying to meet the Thanksgiving holiday demand. Citrus groves, rain all areas, cool temperatures followed. New growth slowed. On-tree fruit coloring of early oranges advanced. Fresh fruit packing houses, processors are mostly open and running, caretakers cutting cover crops, spraying a little, very little else. Pasture feed poor 10%, fair 50%, good 25%, excellent 15%. Cattle poor 5%, fair 40%, good 45%, excellent 10%. General quality of pastures deteriorated past week. Permanent pasture almost dormant north, Panhandle early in week due to lack of soil moisture, cool temperatures. Winter pasture being planted, many ranchers have finished. Big Bend, north-central areas received rainfall at midweek. Panhandle hurt pasture quality 10th morning by freezing temperatures. West-central pasture not yet turned,

growth slowed. Winter pasture planted. Southwest, condition of pastures declining seasonally. Cattle condition generally fair to good.

GEORGIA: Days suitable for fieldwork 2.4. Soil moisture 33% adequate, 67% surplus. Cotton 4% very poor, 17% poor, 45% fair, 32% good, 2% excellent; 99% bolls open, 99% 1996, 99% avg. Rye 84% planted, 85% 1996, 86% avg. Sorghum 4% very poor, 20% poor, 48% fair, 28% good; 77% harvested for grain, 86% 1996, 90% avg. Soybeans 16% very poor, 25% poor, 43% fair, 16% good. Other small grains 70% planted, 66% 1996, 69% avg. Onions 2% poor, 5% fair, 93% good; 18% transplanted, 27% 1996, 22% avg. Apples 99% harvested, 100% 1996, 97% avg. Pecans 1% very poor, 22% poor, 42% fair, 33% good, 2% excellent; 44% harvested, 57% 1996, 48% avg. Pasture feed 3% very poor, 13% poor, 47% fair, 35% good, 2% excellent. Rain, cold, damp conditions stopped all fieldwork after midweek. Cotton harvest severely limited. Quality, yields rapidly deteriorating. Picking 2 weeks behind normal. Producers very concerned. Soybean harvest slowed, nearly a week behind. Hard freeze should aid soybean harvest. No gain in sorghum harvest, now 3 weeks late. Wheat planting and emergence a week behind average. Rye, other small grain seeding nearly a week behind. Activities: Cotton, soybean harvests early in week. Harvesting pecans, repairing machinery, pulling combines out of mud, watching it rain.

HAWAII: Weather conditions mostly good for agriculture. Mostly sunny, limited showers windward, higher elevation areas. Head, Chinese cabbage harvesting active, adjusting to seasonal change. Cucumber harvesting active on islands of Oahu, Molokai; light elsewhere. Tomato harvesting peak on Hawaii island. Banana harvesting active, favorable weather aided growth. Papaya harvesting active, seasonal decline some areas. Export of semi mature ginger root started. Coffee harvesting at midpoint in season.

IDAHO: Days suitable for fieldwork 6.3. Apples harvested 100%, 99% 1996, 99% avg. Sugar beets harvested 99%, 96% 1996, 98% avg. Corn harvested for grain 82%, 69% 1996, 72% avg. Alfalfa hay harvested (4th cutting) 99%. Hay, roughage supply 6% surplus, 73% adequate, 18% short, 3% very short. Activities: Harvesting corn for grain, finishing apple, sugarbeet harvest, seeding winter grains, plowing, repairing machinery, attending educational meetings, weaning calves, marketing livestock.

ILLINOIS: Days suitable for fieldwork 4.1. Topsoil 13% short, 76% adequate, 11% surplus. Last week's weather of much cooler-than-normal temperatures, less- than-normal precipitation allowed farmers back into the fields. Days suitable ranged from under 3 in the south to over 5 in the north, where the majority of the corn remains to be harvested. Soybean harvest is virtually complete, with only a few double crop acres remaining. Farm activities last week included fall tillage and lime, fertilizer and anhydrous ammonia application.

INDIANA: Days suitable for fieldwork 5.1. Topsoil 4% very short, 25% short, 67% adequate, 4% surplus. Subsoil 13% very short, 32% short, 52% adequate, 3% surplus. Corn harvest made good progress until the snow arrived late in the week. Low temperatures combined with snow, rain have kept the moisture content of harvested corn around 21%. Activities: Harvesting corn, soybeans, tilling harvested soybean, corn acreage, applying fertilizer, lime, caring for livestock.

IOWA: Days suitable for fieldwork 5.1. Topsoil 2% very short, 21% short, 69% adequate, 8% surplus. Subsoil 6% very short, 30% short, 61% adequate, 3% surplus. Harvest complete in many areas. Lodging, unfrozen, slick fields, slowed harvest of remaining corn, beans. Corn acreage harvested 96%, 89% 1996, 89% avg. Soybean acreage harvested 99%. Of corn yet to be harvested, lodging 20% none, 37% light, 34% moderate, 9% heavy; ear droppage 21% none, 41% light, 31% moderate, 7% heavy. Use of stubble fields 23% none, 29% limited, 41% moderate, 7% extensive. Stubble being baled for feed, bedding. Grain movement 13% none, 49% light, 34% moderate, 4% heavy. Fall tillage completed 48%, 32% 1996, 35% avg.; fall fertilizer applied 46%, 30% 1996, NA avg. Winter wheat planted 94%, 100% 1996, 100% avg. Livestock good condition. Cold weather hard on lighter animals. Feedlots remain muddy.

KANSAS: Days suitable for fieldwork 4.5. Topsoil 2% short, 89% adequate, 9% surplus. Subsoil 8% short, 88% adequate, 4% surplus. Wheat pastured 8%, 8% 1996, 8% avg. Wheat seeding is virtually complete. Farmers trying to finish harvest where possible. Snowdrifts from the blizzard in October were preventing harvest in some areas. Sunflowers harvested 87%. Stock water 6% short, 90% adequate, 4% surplus. Livestock producers were calving, weaning calves, moving cattle off pastures to crop residue, wheat fields.

KENTUCKY: Days suitable for fieldwork 2.8. Topsoil 2% very short, 16% short, 71% adequate, 11% surplus. Subsoil 5% very short, 29% short, 60% adequate, 6% surplus. Many areas received snow, temperatures below normal. Cool, damp weather slowed corn, soybean harvests but aided tobacco curing. Burley stripped 29%, 41% 1996, 40% avg. Quality of stripped tobacco 1% very poor, 9% poor, 41% fair, 37% good, 12% excellent. Winter wheat seeded 92%, 91% 1996, 91% avg. Moisture has improved winter wheat stands somewhat. Emerged wheat 3% poor, 27% fair, 55% good, 15% excellent. Pasture, hay growth slowed by cold weather. Pasture feed 7% very poor, 18% poor, 44% fair, 27% good, 4% excellent.

LOUISIANA: Days suitable for fieldwork 2.8. Soil moisture 2% short, 58% adequate, 40% surplus. Cotton a few fields were left to be harvested, rain halted progress. Pecans 9% very poor, 7% poor, 44% fair, 39% good, 1% excellent; 61% harvested, 59% 1996, 46% avg. Sugarcane 3% poor, 21% fair, 55% good, 21% excellent; 51% harvested, 44% 1996, 48% avg. Harvest was slowed by muddy fields. Tonnage, sucrose continued good. Sweet potatoes 93% harvested, 93% 1996, 91% avg. Wheat 86% planted, 61% 1996, 64% avg.; 70% emerged, 32% 1996, 46% avg. Wheat planting made progress early in the week, rain helped previously planted seed emerge quickly, producing mostly good stands. Livestock 1% very poor, 9% poor, 37% fair, 48% good, 5% excellent. Vegetables 9% very poor, 10% poor, 40% fair, 40% good, 1% excellent. Pasture feed 5% very poor, 16% poor, 41% fair, 38% good. Fertilizing of ryegrass pastures active.

MARYLAND: Days suitable for fieldwork 2.2. Topsoil 66% adequate, 34% surplus. Subsoil 28% short, 55% adequate, 17%

surplus. Field corn 86% harvested for grain, 93% 1996, 90% avg. Soybeans 68% harvested, 77% 1996, 72% avg. Sorghum 65% harvested, 64% 1996, 72% avg. Barley 2% poor, 11% fair, 64% good, 23% excellent. Rye 1% very poor, 3% poor, 16% fair, 60% good, 20% excellent; 90% seeded, 91% 1996, 91% avg. Wheat 1% very poor, 4% poor, 14% fair, 55% good, 26% excellent; 81% seeded, 90% 1996, 88% avg. Hay supplies 23% very short, 31% short, 44% adequate, 2% surplus. Alfalfa hay 72% 5th cutting, 83% 1996, 72% avg. Activities: Continued rain slowed harvesting of corn, soybeans; seeding of small grains.

MICHIGAN: Days suitable for fieldwork 4.5. Topsoil 4% short, 72% adequate, 24% surplus. Subsoil 8% short, 79% adequate, 13%. Snow hindered the harvest of remaining field crops. Though temperatures were well below normal, the snow that occurred during the week prevented the ground from freezing. All hay 4th cutting harvested 97% 1997, 98% 1996, 95% avg.

MINNESOTA: Harvest of all crops is virtually complete. Planned fall tillage, chemical applications generally were also completed successfully, before the arrival of snow cover over most of the State by the weekend. Major outside activities included: Trucking grain to market, hauling feeder cattle, moving feed, forage to livestock, snow removal.

MISSISSIPPI: Days suitable for fieldwork 2.1. Soil moisture 1% short, 48% adequate, 51% surplus. Soybeans 90% harvested, 93% 1996, 88% avg. Sweet potatoes 93% harvested, 98% 1996,; 98% avg. Pecans 48% harvested, 39% 1996, 44% avg.; 11% poor, 25% fair, 62% good, 2% excellent. Wheat 82% planted, 93% 1996, 86% avg.; 72% emerged, 84% 1996, 75% avg.; 7% poor, 30% fair, 59% good, 4% excellent. Cattle 1% very poor, 6% poor, 25% fair, 57% good, 11% excellent. Activities: Feeding cattle, fertilizing winter forage. Rain has consistently delayed harvesting across the State. Farmers are hoping for several days of sunshine, dry weather, so they can complete harvesting.

MISSOURI: Days suitable for fieldwork 3.1. Topsoil 2% very short, 8% short, 77% adequate, 13% surplus. Ground worked for spring crops 39%, 33% 1996, 32% avg. Rainfall nearly non-existent northern half of State, poor drying weather hampered harvesting progress. Bean harvesting most advanced northeast, nort-central, central, east-central districts with 98%, 97%, 96%, 95%, respectively, least advanced southeast at 78%. Corn harvesting complete in southern third of State, 97% central third, 89% northern third. Sorghum harvesting least advanced central district at 80%, most advanced southern third of State at 98%. Pasture feed 1% very poor, 10% poor, 35% fair, 51% good, 3% excellent.

MONTANA: Days suitable for fieldwork 5.5. Topsoil 5% very short, 41% short, 53% adequate, 1% surplus. Subsoil 9% very short, 46% short, 44% adequate, 1% surplus. Activities include: Getting the ground ready for next spring, picking rocks, caring for livestock. Cattle, calves moved from summer ranges 90%, 89% 1996, 91% avg. Sheep, lambs moved from summer ranges 93%, 93% 1996, 93% avg. Cattle, calves reported in good to excellent condition. Some supplemental feeding has begun. Shipments to cattle feeding facilities in full swing.

NEBRASKA: Days suitable for fieldwork 5.9. Subsoil 1% very short, 15% short, 82% adequate, 2% surplus. Topsoil 10% short, 84% adequate, 6% surplus. Good harvesting weather promoted active corn, sorghum harvest last week. Corn 91% harvested, 92% 1996, 85% avg.; eastern parts of the State indicated harvest losses have ranged from 10% to as high as 50% in some fields due to earlier snow storms, high winds. Soybeans 97% combined, 100% 1996, 100% avg.; harvest slow due to high grain moisture content, producers' concentration on corn. Sorghum 96% harvested, 87% 1996, 93% avg. Winter wheat 7% poor, 26% fair, 58% good, 9% excellent. Producers weaning, moving cows to stalks fields; some cattle on corn stalks had foundered due to the high level of corn on the ground.

NEVADA: Fall seeded grains showing good growth. Pasture feed, range forage supplies good. Hay supplies good. Haying completed north, halted by rains south. Calf crop being weaned, stock moved to winter ranges. Sheep grazing dormant alfalfa fields north. Precipitation common statewide, with snowfall in the mountains. Greatest precipitation 1.27 in. Caliente, 0.55 in. Hawthorne, 0.54 in. Mercury, 0.52 in. Winnemucca. Temperatures averaged a few degrees below normal at most locations. Main farm, ranch activities: Moving cattle, marketing cattle.

NEW ENGLAND: Field corn 100% harvested, 100% 1996, 100% avg.; condition good. Hay 3rd cut 100% harvested, 100% 1996, 100% avg.; condition good. November Nor'easter brought cold weather, snow to region. November precipitation above normal, helping to make up year-long precipitation deficits. Christmas tree growers gearing up for holiday season. Major farm activities: Mending fences; spreading manure; caring for livestock.

NEW JERSEY: Days suitable for fieldwork 5. Topsoil adequate to surplus. Light, declining harvest of fall vegetables (lettuce, beets, herbs, endive, escarole, parsley cabbage, turnips, radishes, leeks) occurring in southern areas. Other farming activities: Planting cover crops, cleaning equipment, harvesting soybeans, corn. Pasture feed fair to good.

NEW MEXICO: Days suitable for fieldwork 4.4. Topsoil moisture 1% very short, 20% short, 76% adequate, 3% surplus. Crop harvest progressed well even with limited field time due to cold, wet conditions and snow in many areas of the State. Cotton harvest remained active with 70% complete, 73% 1996, 64% avg.; condition 3% poor, 23% fair, 61% good, 13% excellent. Sorghum harvest rapidly moved with 84% harvested, 44% 1996, 65% avg.; condition 1% poor, 43% fair, 55% good, 1% excellent. Red chile was 70% harvested; condition 29% fair, 59% good, 12% excellent. The condition of the wheat crop was rated 40% fair, 60% good. Pecan harvest was just getting started, the crop was rated 25% fair, 70% good, 5% excellent. Cattle and sheep were reported in mostly fair to good condition. Range and pasture feed 1% very poor, 8% poor, 30% fair, 54% good, 7% excellent.

NEW YORK: Coldness, winter storm at the end of the week brought a halt to outside activities. Corn still standing will be harvested as farmers are once again able to get machinery into

fields. Onions, potato, apple producers graded and packed crops. Wine making was in full swing. Cider production continued, at a slower pace.

NORTH CAROLINA: Days suitable for fieldwork 3.9. Soil moisture 3% short, 65% adequate, 32% surplus. Cool, wet weather reduced fieldwork, kept cotton, sorghum, soybeans, sweet potatoes behind schedule for harvesting. Small grain conditions are mostly good, planting activities are proceeding normally. Activities for the week included: Harvesting cotton, sorghum, soybeans, sweet potatoes, Christmas trees, peanuts; preparing, grading tobacco for market; planting small grains; planting cover crops; maintaining pastures; tending livestock; repairing equipment.

NORTH DAKOTA: Fall fieldwork has all but shut down for the winter, with snow drifts preventing some corn and sunflower fields from being harvested until spring. Most livestock have been moved to winter corrals, hauling hay is still a major activity as well as weaning calves. Hay supplies should be adequate if the State has a "normal" winter.

OHIO: Days suitable for fieldwork 4.8. Topsoil 10% short, 81% adequate, 9% surplus. Corn harvested for grain tied the avg. Soybeans harvested virtually complete. Winter wheat emerged 1 day ahead of the avg. Tobacco 17% stripped. Activities: Corn drying; finishing soybean harvest; hauling, binning, selling corn, soybeans; chopping, discing corn stalks; hauling, spreading manure; spreading lime, fertilizer; fall tillage for spring crops; tiling fields; fence, equipment repair, maintenance; firewood cutting; ornamental tree digging, fall calving.

OKLAHOMA: Days suitable for fieldwork 4.3. Topsoil 6% short, 91% adequate, 3% surplus. Subsoil 5% short, 94% adequate, 1% surplus. Cold, wet weather hampered row crop harvest. Wheat 15% grazed, 15% 1996, 14% avg. Oats 85% planted, 84% 1996, 80% avg.; 69% up to stand, 59% 1996, 62% avg.; 12% grazed, 8% 1996, 5% avg. Soybeans 67% harvested, 85% 1996, 80% avg. Peanuts 91% combined, 82% 1996. Livestock 4% poor, 18% fair, 75% good, 3% excellent. Feeder steer prices steady to $2 per cwt. higher.

OREGON: Activities: Winter wheat planting nearing completion, sugar beet harvest winding down. Some dry corn still being harvested in Malheur County. Fall nursery planting, digging, container movement continued. Greenhouses busy with winter plants, preparing for early spring flowers. Christmas tree balling underway, sales on going. Fall bedding activities for onions, potatoes on going on east side. South coast cranberry growers cleaning ditches, resanding. Tree fruit harvest completed in most areas of the State. Livestock condition good to excellent across State. Fall calving underway. Winter farm, ranch activities underway.

PENNSYLVANIA: Days suitable for fieldwork 3.1. Soil moisture 3% very short, 12% short, 60% adequate, 25% surplus. Fair week for fieldwork. Soybean harvest 75% complete, 73% 1996, 75% avg. Fall plowing 87% complete, 86% 1996, 90% avg. Wheat emerged 80% complete, 80% 1996, 80% avg. Barley emerged 92% complete, 92% 1996, 92% avg. Alfalfa 4th cutting 91% complete, 88% 1996, 88% avg. Activities: Making hay and haylage; harvesting corn, soybeans, potatoes; seeding wheat; plowing fields; cleaning, repairing and storing machinery; hauling manure; caring for livestock.

SOUTH CAROLINA: Days suitable for fieldwork 3.9. Soil moisture 11% short, 49% adequate, 40% excellent. Apples 100% harvested, 100% 1996, 99% avg.; 42% fair, 58% good. Barley 98% planted, 86% 1996, 72% avg.; 93% emerged, 80% 1996, 64% avg.; 4% fair, 32% good, 64% excellent. Oats 83% planted, 89% 1996, 78% avg.; 68% emerged, 76% 1996, 64% avg.; 1% poor, 24% fair, 61% good, 14% excellent. Pecans 55% harvested, 49% 1996; 46% fair, 52% good, 2% excellent. Rye 86% planted, 80% 1996, 74% avg.; 73% emerged, 66% 1996, 62% avg.; 35% fair, 60% good, 5% excellent. Sorghum 97% harvested, 99% 1996, 85% avg.; 1% very poor, 14% poor, 50% fair, 35%good. Sweet potatoes 99% harvested, 86% 1996, 75% avg.; 1% very poor, 4% poor, 30% fair, 64% good, 1% excellent. Winter grazings 94% planted, 90% 1996, 87% avg.; 82% emerged, 82% 1996, 77% avg.; 1% very poor, 3% poor, 24% fair, 66% good, 6% excellent. Winter wheat 43% planted, 50% 1996, 36% avg.; 33% emerged, 32% 1996, 22% avg.; 22% fair, 76% good, 2% excellent.

SOUTH DAKOTA: Days suitable for fieldwork 4.6. Topsoil 1% very short, 12% short, 83% adequate, 4% surplus. Subsoil 1% very short, 13% short, 80% adequate, 6% surplus. Stock water 3% short, 92% adequate, 5% surplus. Winter rye 14% fair, 48% good, 38% excellent. Livestock 1% poor, 9% fair, 67% good, 23% excellent. Major activities: Harvesting row crops for grain, moving hay, livestock, weaning calves, marketing livestock.

TENNESSEE: Days suitable for fieldwork 1.5. Topsoil 2% short, 52% adequate, 46% surplus. Subsoil 6% short, 65% adequate, 29% surplus. Tobacco 57% burley stripped, 65% 1996, 65% avg. Winter wheat 2% poor, 27% fair, 53% good, 18% excellent; 81% seeded, 76% 1996, 81% avg. Cool, wet weather is not what the doctor ordered for farmers last week. Daily rainfall during the week stopped harvest, little, if any, progress was made in gathering the State's cotton, soybean crops until 15th afternoon. Tobacco growers also complained that the combination of wet, cool weather was slowing the curing of their crop. Seeding of the 1998 winter wheat crop was also delayed. Good news is that fieldwork progress is only about a week behind schedule, farmers are expected to be back in fields today and tomorrow.

TEXAS: Wet conditions along with cooler temperatures kept activities minimum most areas during week. Very cold weather moved across State late week dropping temperatures into single digits in plains, well below freezing throughout Blacklands into Central. Snow mixed with rain fell during week Plains. Frost reported parts South. Supplemental feeding activity increased during second half week. Harvest operations slowed in Plains. Rainfall received most areas beneficial to winter pastures, small grains. Crops: Extremely cold weather beginning midweek in plains may have caused set backs weaker stands. However, moisture beneficial. Late planting activity slowed central, southern areas. Again, moisture beneficial to emerged stands these areas. Cotton weather problems in plains caused numerous delays harvest progress most week. Some open cotton stringing out with rainfall, quality may be affected. Harvest continued north-central but slowed by wet conditions part week. Grain sorghum harvest delayed milo fields across

plains, into north-central areas. Peanuts producers in north-central areas need few more good weather days to complete harvest. Digging continued part week south-central. Fields that had been dug, not harvested may have sustained damage from rain during week. Sugar beets harvest continued until hampered by wet fields in High Plains. 75% harvested, 67% 1996, 64% avg. Other crops: Oats 83% planted, 95% 1996, 79% avg. Sunflowers 75% harvested, 67% 1996, 64% avg.

Commercial Vegetables: Rio Grande Valley, wet conditions kept activity down many fields. San Antonio-Winter Garden, rainfall beneficial to cabbage, spinach fields. Carrots, onions continued make good progress. East, most harvest activity been completed. Wet conditions most week slowed final harvest operations. Pecans continued fall across State. Quality remained good most cases. Early prices have been good.

Range and Livestock: Feeding activity increased most areas of State with inclement conditions. Body condition all classes of livestock have remained good. Winter pastures responded favorably to cooler, wet conditions. Stockers put out on later planted wheat fields.

UTAH: Major farm, ranch activities included moving cattle to winter ranges, finishing grain corn harvest, plowing fields, winterizing equipment. Most of the grain corn is at 17-18% moisture, requires drying for storage. Cattle, sheep have returned from summer ranges in excellent shape.

VIRGINIA: Days suitable for fieldwork 3.0. Topsoil 4% short, 58% adequate, 38% surplus. Subsoil 2% very short, 15% short, 72% adequate, 11% surplus. Corn 81% harvested, 94% 1996, 94% avg. Soybeans 99% dropping leaves; 44% harvested, 44% 1996, 53% avg. Cotton 62% harvested, 64% 1996, 68% avg. Winter apples 99% harvested, 100% 1996, 98% avg. Peanuts 99% combined, 98% 1996, 100% avg. Barley 95% seeded, 98% 1996, 95% avg. Winter wheat 58% seeded, 63% 1996, 70% avg. Pasture feed 1% very poor, 20% poor, 38% fair, 38% good, 3% excellent. Small grains, grazing crops 4% poor, 26% fair, 59% good, 11% excellent. Livestock 3% poor, 24% fair, 61% good, 12% excellent. Rainy conditions continued to prevail this week limiting fieldwork to only 3 days statewide. Some central, northern localities reported harvesting, planting delays due to standing water in low-lying fields. Wet conditions are starting to cause losses to soybeans. Some other producers have destroyed soybean fields damaged by dry weather this summer. Deer damage is also a major concern of some soybean producers. Heavy rains also caused some topsoil erosion, where small grains were recently seeded. Producers made little progress in harvesting their grain corn, putting them far behind 1996, avg. Some cotton producers are concerned that the rain will lower the color grade of their crop. Tobacco producers continued curing, stripping, marketing.

WASHINGTON: Days suitable for fieldwork 6.5. Topsoil 75% adequate, 25% surplus. Subsoil 13% short, 85% adequate, 2% surplus. Weather conditions allowed many producers to complete fall tillage, other fieldwork. Winter wheat 100% planted, 99% 1996, 99% avg.; 99% emerged, 97% 1996, 91% avg. Sunny weather, good moisture conditions favored growth of fall seeded crops in eastern areas. Fall cereals were mostly in the three-leaf stage of development. Corn for grain 65% harvested, 38% 1996, 68% avg. Grain corn harvest continued despite some rain, cool temperatures. Hay, other roughage 84% adequate, 16% surplus. Range, pasture feed 9% very poor, 7% poor, 35% fair, 49% good. Western area pastures in good conditions for this time of year. East of the Cascades, livestock were feeding on crop aftermath. Winter feeding could be just around the corner for some livestock producers. Carrot, nursery stock harvests continued. Favorable autumn conditions expedited Christmas tree harvest, which was in full swing.

WEST VIRGINIA: Days suitable for fieldwork 2.5. Topsoil 6% very short, 3% short, 84% adequate, 7% surplus. Corn 72% harvested grain, 66% 1996, 84% avg. Soybeans 83% harvested grain, 66% 1996, 80% avg. Winter wheat 20% fair, 80% good; 78% planted, 96% 1996, 93% avg. Cattle 16% fair, 80% good, 4% excellent. Sheep 1% poor, 16% fair, 79% good, 4% excellent. Activities: Harvesting corn, pasture clipping, winter wheat planting, marketing livestock, general maintenance.

WISCONSIN: Days suitable for fieldwork 5.6. Soil moisture 1% very short, 13% short, 78% adequate, 8% surplus. Last week snow flurries rushed some farmers who were waiting for their corn to dry down to start combining. Most farmers with small to medium corn acres are now done. Many reported area elevators filling up fast due to good yields, farmers having to wait as lots of drying time is needed. Price County observed that corn yields were probably average, which was good considering the cool season this past summer. Low temperatures in the teens halted fall tillage in some areas of the State. Fall tillage 50% complete, 47% 1996, 57% avg. Other activities on the farm: Supplementing cattle fed on pastures, machinery winterizing, manure hauling from storage units, chisel plowing, stalks being chopped for feed and bedding, grain drying. Dunn County noted that dairy farmers started keeping cattle in nights, this past week, for milking. There were still reports of soybean fields unharvested, as the beans gain moisture. Reporters in the following counties observed a shortage of quality hay; Ozaukee, Dunn, Grant, Waushara, Waupaca, Fond du Lac.

WYOMING: Corn for grain 75% harvested, 96% 1996, 88% avg. Corn for grain harvest remained behind both 1996, average due to snow cover. Producers were busy feeding livestock, maintaining farm equipment, preparing for winter.

International Weather and Crop Summary

November 9 - 15, 1997

HIGHLIGHTS

FSU-WESTERN: A warming trend accompanied mostly dry weather in Ukraine and southern Russia, helping late-season harvest activities.

EUROPE: Showers and unseasonably mild weather in western and northern Europe slowed late-season harvest activities but favored winter grains.

NORTHWESTERN AFRICA: Widespread showers continued in Algeria and Tunisia, favoring winter grain planting.

AUSTRALIA: Beneficial rain covered most major crop areas.

SOUTH ASIA: Seasonable dryness aided summer crop harvesting, but showers over southern India may have caused localized cotton damage.

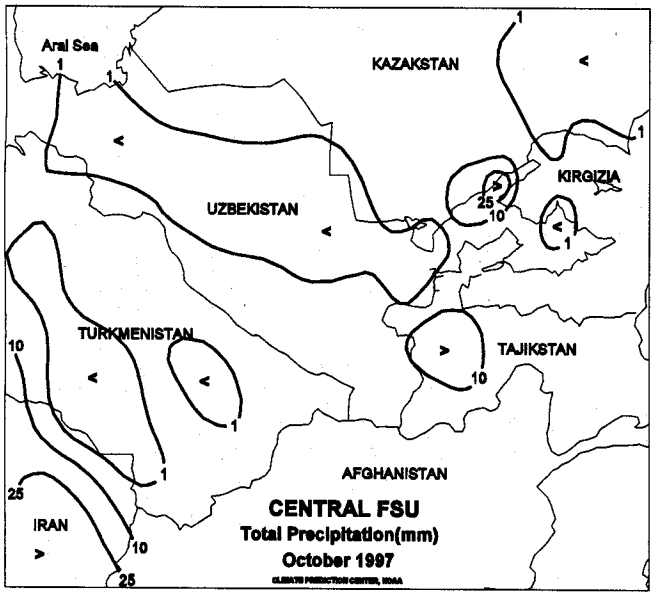
SOUTH AFRICA: Widespread, locally heavy rain benefited the eastern half of the corn belt.

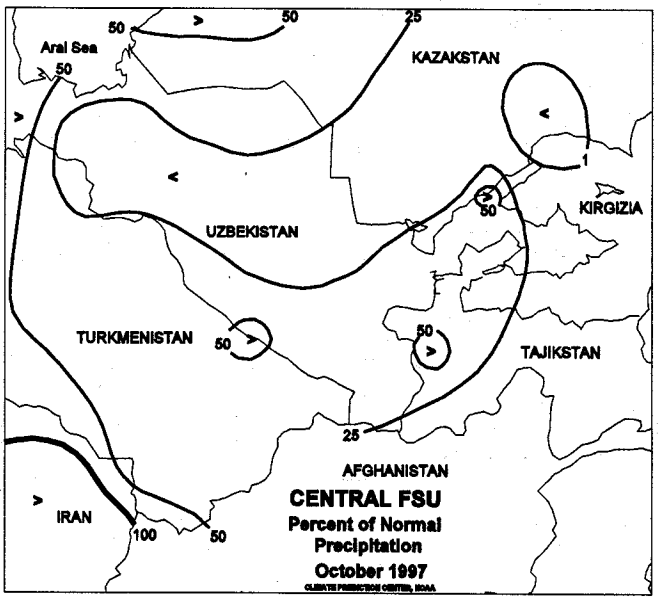
SOUTHEAST ASIA: Scattered showers brought drought relief to southern Sumatra and Java.

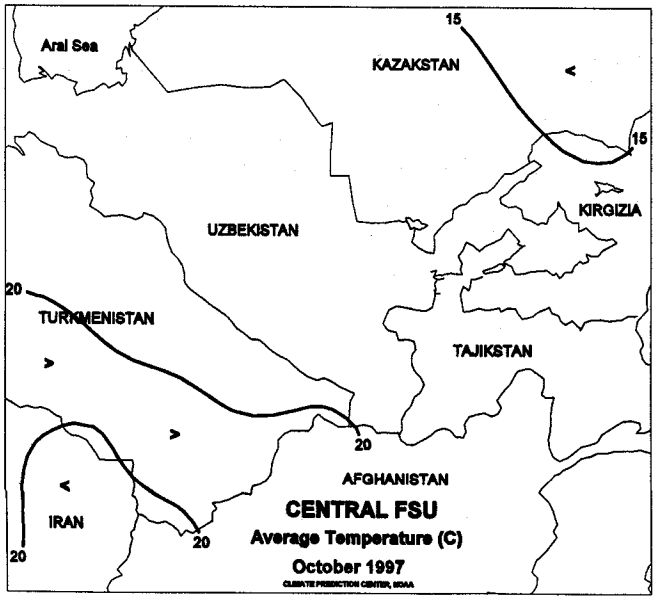
EASTERN ASIA: Unseasonable rain boosted topsoil moisture for germinating winter wheat across the North China Plain.

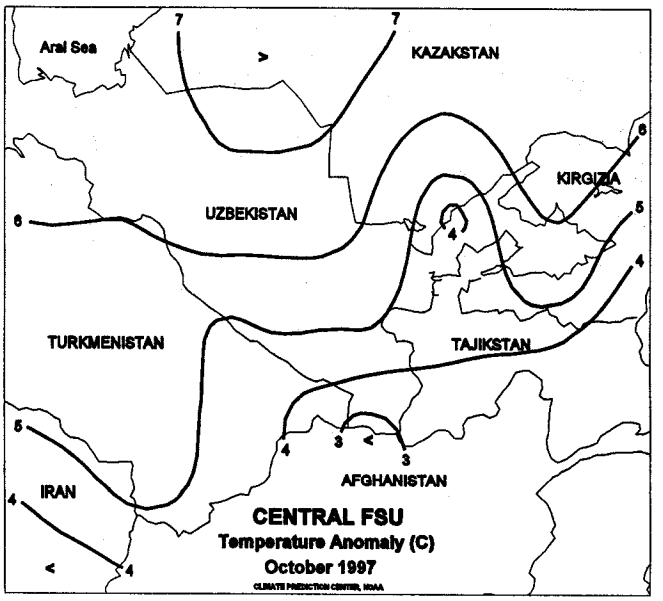
SOUTH AMERICA: In southern Brazil, drier weather later in the week favored soybean planting after heavy showers caused some fieldwork delays.

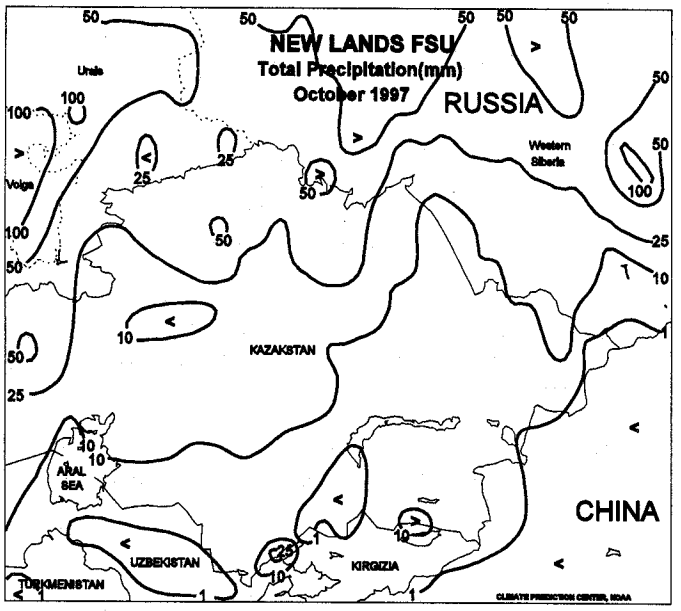
MEXICO: Minimal Hurricane Rick hit southern Mexico, hampering recovery efforts from last month's damage due to Hurricane Pauline.

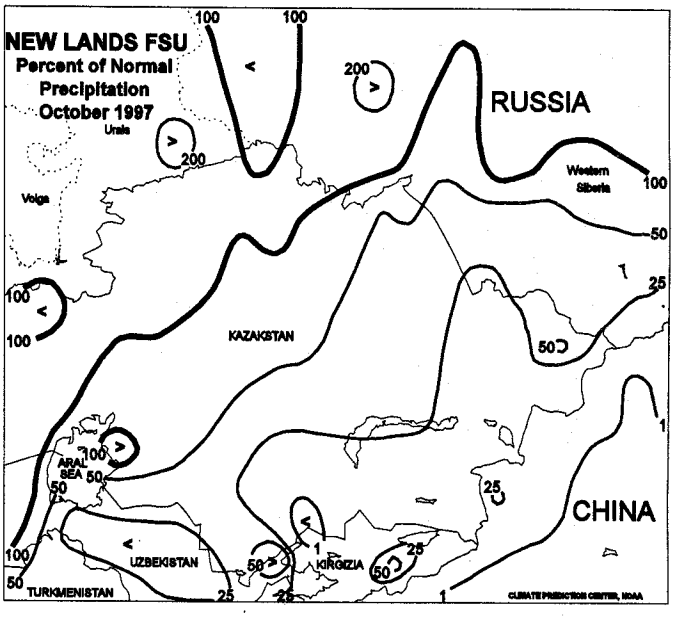


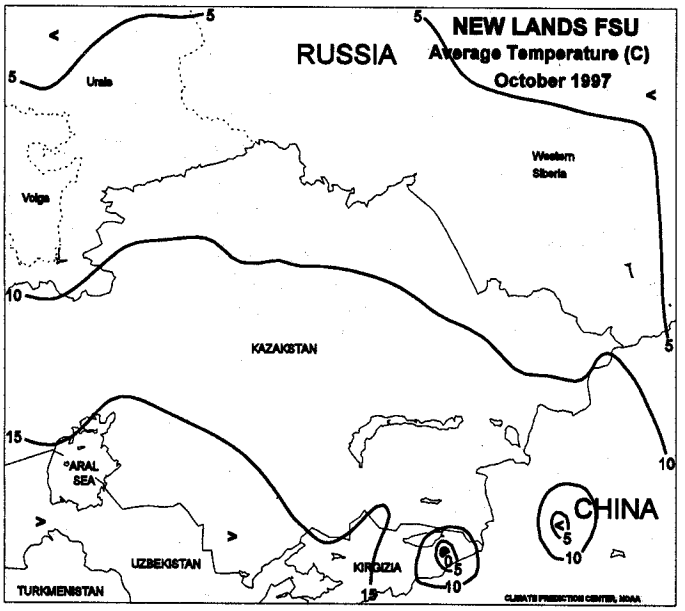


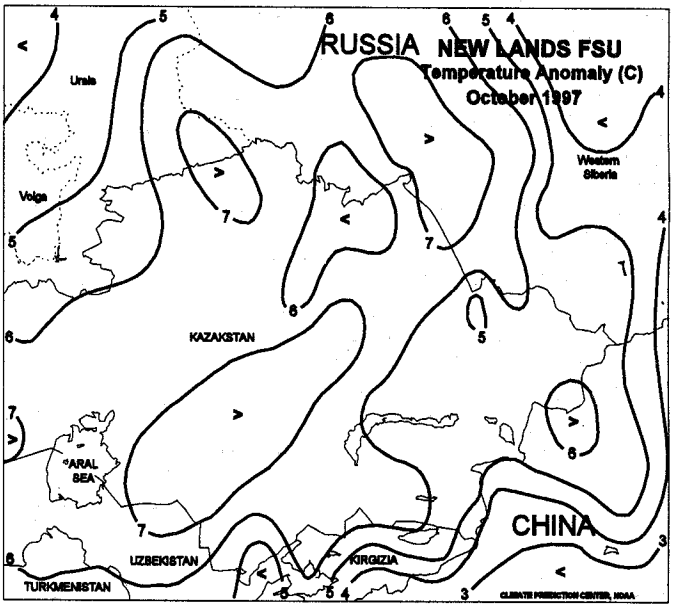


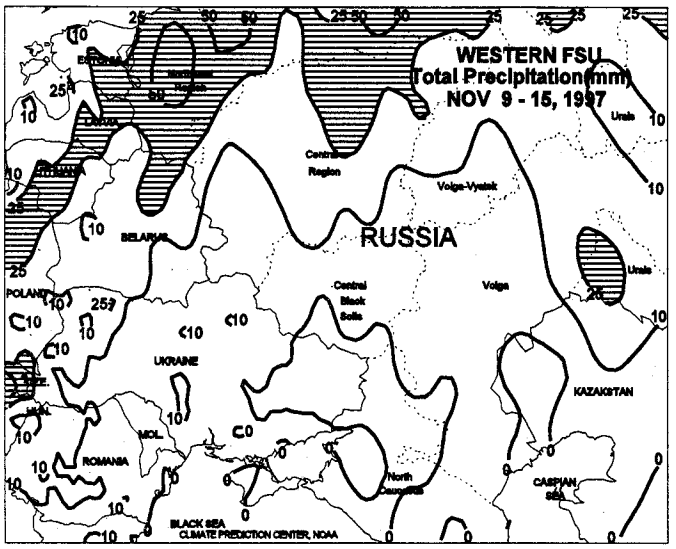



NEW LANDS FSU
Total Precipitation(mm)
October 1997
RUSSIA
Urals
Volga
Western Siberia
KAZAKSTAN
ARAL SEA
UZBEKISTAN
TURKMENISTAN
KIRGIZIA
CHINA
CLIMATE PREDICTION CENTER, NOAA


NEW LANDS FSU
Percent of Normal
Precipitation
October 1997
RUSSIA
Urals
Volga
Western Siberia
KAZAKSTAN
ARAL SEA
UZBEKISTAN
TURKMENISTAN
KIRGIZIA
CHINA
CLIMATE PREDICTION CENTER, NOAA

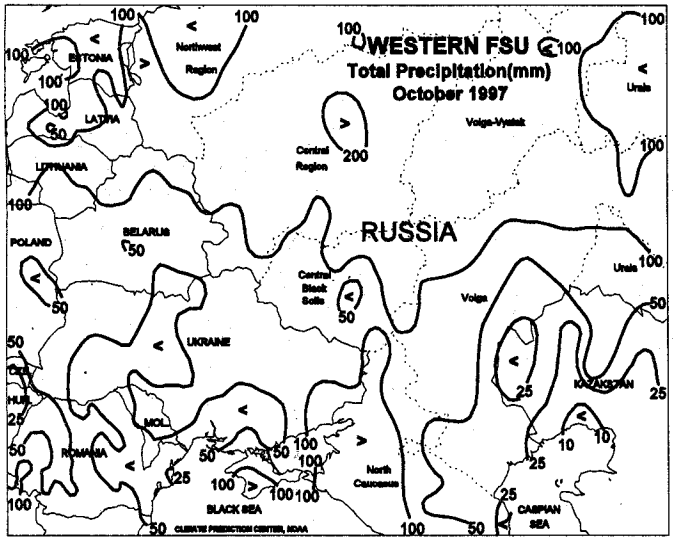

NEW LANDS FSU
Average Temperature (C)
October 1997
RUSSIA
Urals
Volga
Western Siberia
KAZAKSTAN
ARAL SEA
UZBEKISTAN
TURKMENISTAN
KIRGIZIA
CHINA
CLIMATE PREDICTION CENTER, NOAA

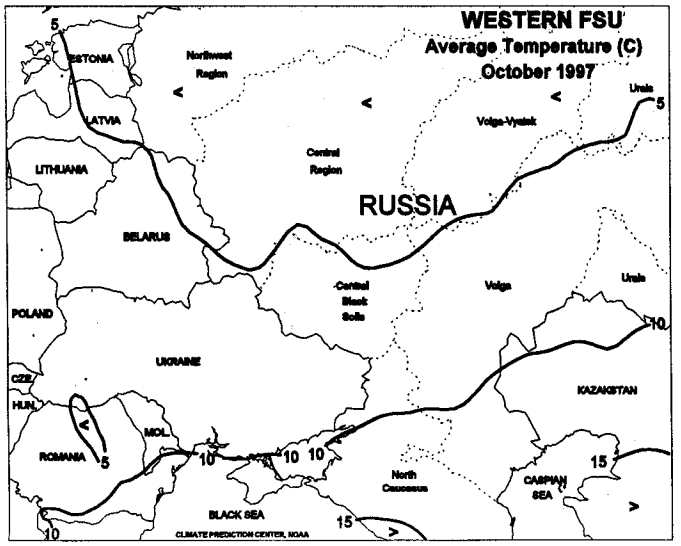

NEW LANDS FSU
Temperature Anomaly (C)
October 1997
RUSSIA
Urals
Volga
Western Siberia
KAZAKSTAN
ARAL SEA
UZBEKISTAN
TURKMENISTAN
KIRGIZIA
CHINA
CLIMATE PREDICTION CENTER, NOAA

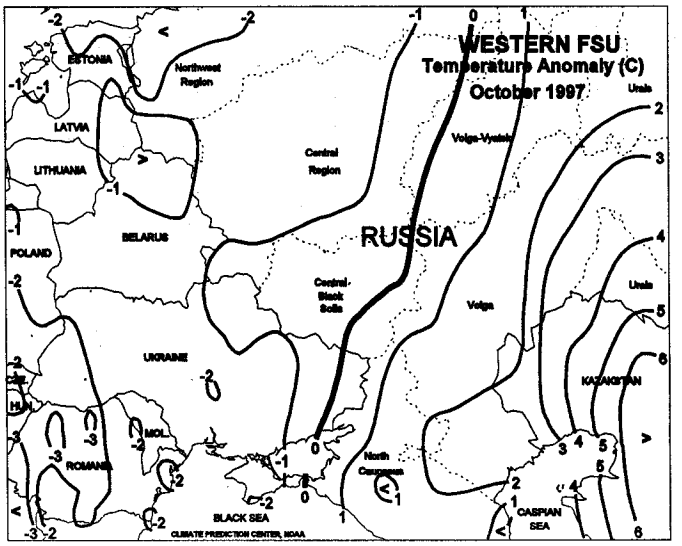


FSU-WESTERN

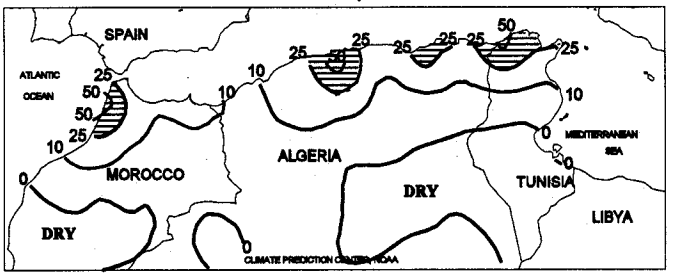
A warming trend spread eastward across the region, raising temperatures to above-normal levels and melting protective snow cover in the north. Weekly temperatures ranged from 3 to 8 degrees C above normal in Russia, Ukraine, Belarus, and the Baltics. The mild weather in Ukraine and southern Russia was accompanied by generally dry weather, benefiting late-season fieldwork and favoring winter grains. In October, wet weather continued in Russia, Ukraine, the Baltics and Belarus. The precipitation in northern Russia, the Baltics, and Belarus fell frequently during the month. More than twice the normal amount of rain fell over the eastern half of Ukraine and southern Russia (Central Black Soils Region, lower Volga Valley, and North Caucasus), hampering corn, sunflower, and sugar beet harvesting and late winter grain planting. About October 18, a drying trend began in Ukraine that continued until month's end, improving conditions for fieldwork. Near-normal temperatures prevailed over northern areas of Russia in October, allowing further winter grain establishment prior to dormancy. By late October, winter grains in northern Russia were in or entering dormancy with sufficient hardening. In Ukraine and southern Russia, well-below-normal temperatures halted further vegetative growth of winter grains. In cotton-growing areas of Central Asia, unseasonably warm, dry weather in October allowed cotton harvesting to progress at a rapid pace. This past week, dry weather continued to favor cotton harvesting in the region.







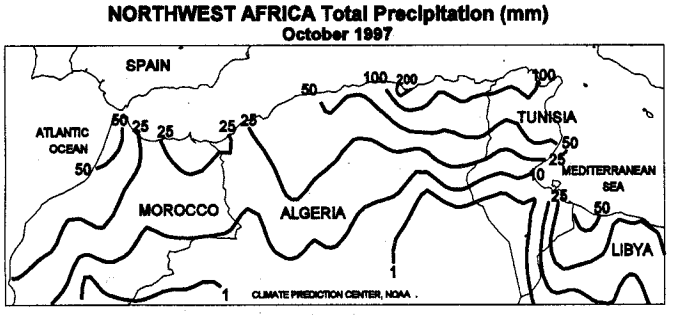
NORTHWEST AFRICA Total Precipitation (mm)
NOV 9 - 15, 1997



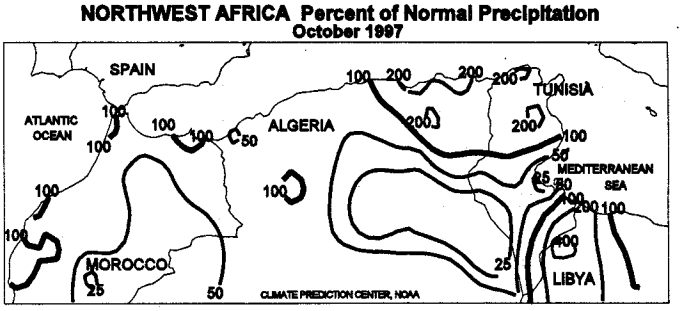
NORTHWESTERN AFRICA

Light to moderate showers (10-35 mm, with local amounts in excess of 40 mm) continued over Algeria and Tunisia, maintaining favorable topsoil moisture for winter grain planting. Rainfall diminished in Morocco, with precipitation amounts generally less than 5 mm. Although last week's rain helped to condition topsoils for early winter grain planting in Morocco, additional moisture is needed before planting can become widespread. In October, above-normal precipitation fell in eastern Algeria and Tunisia, providing sufficient topsoil moisture for early winter grain planting. In Morocco, below-normal precipitation limited topsoil moisture for planting.

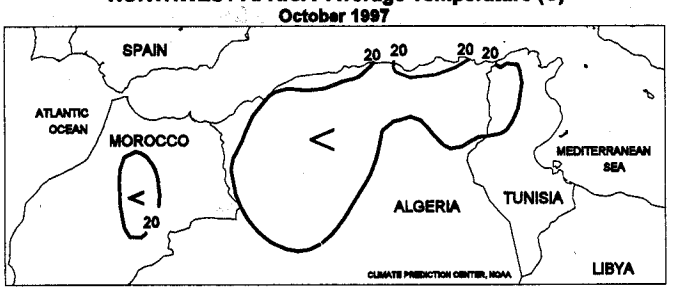
NORTHWEST AFRICA Total Precipitation (mm)
October 1997



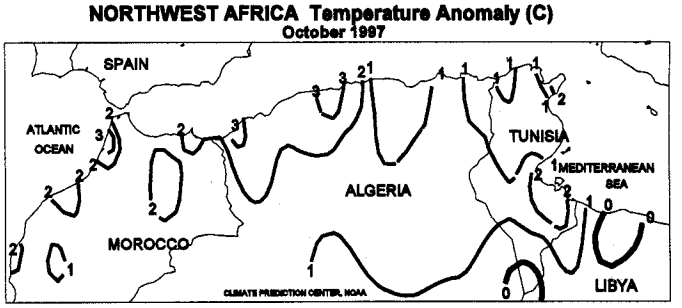
NORTHWEST AFRICA Percent of Normal Precipitation
October 1997

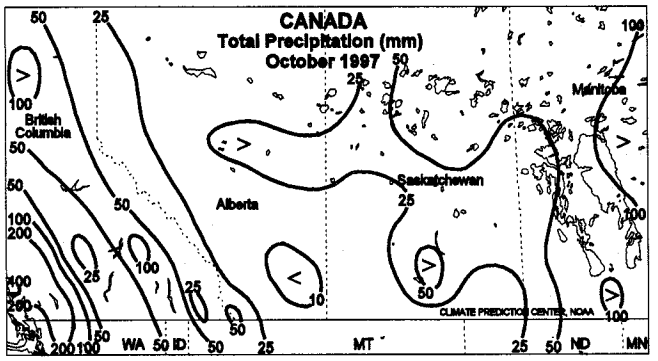


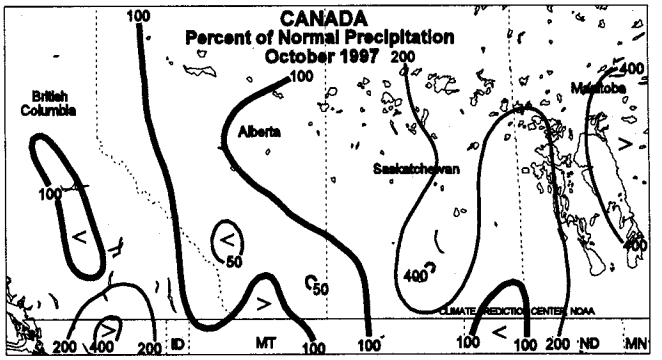
NORTHWEST AFRICA Average Temperature (C)
October 1997

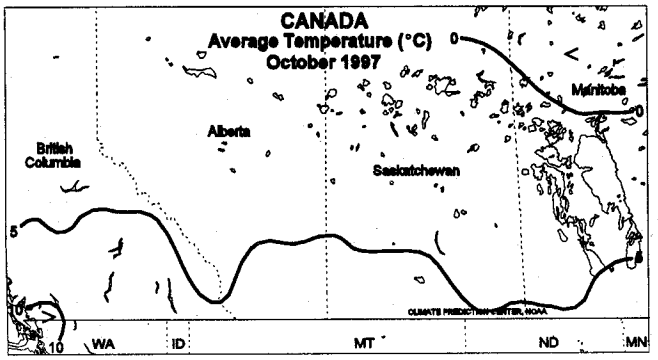


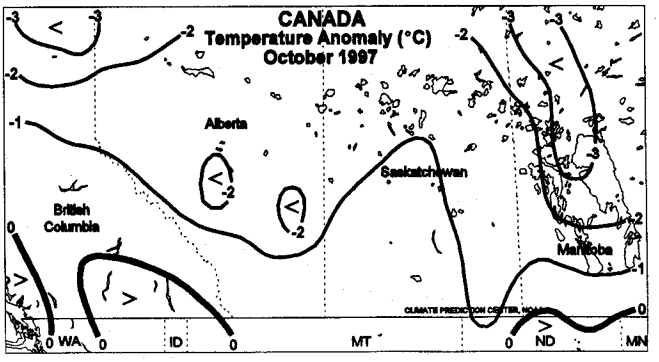
NORTHWEST AFRICA Temperature Anomaly (C)
October 1997

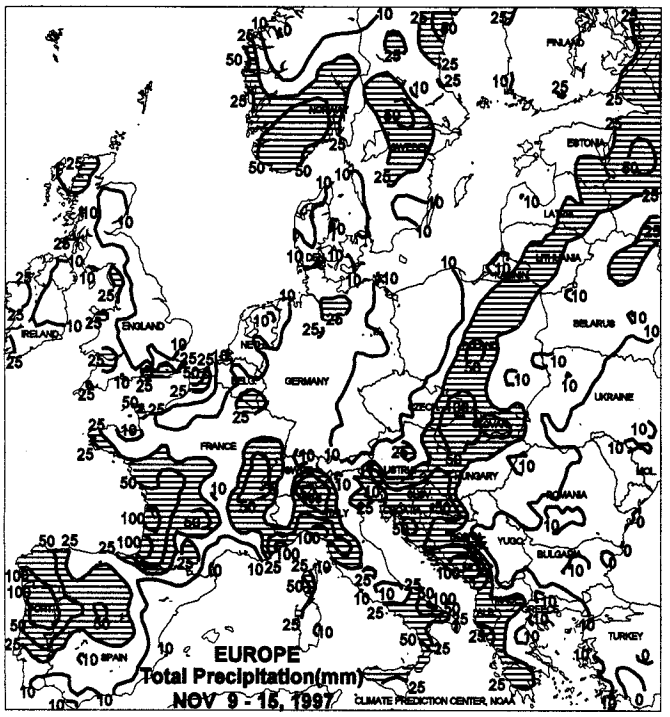






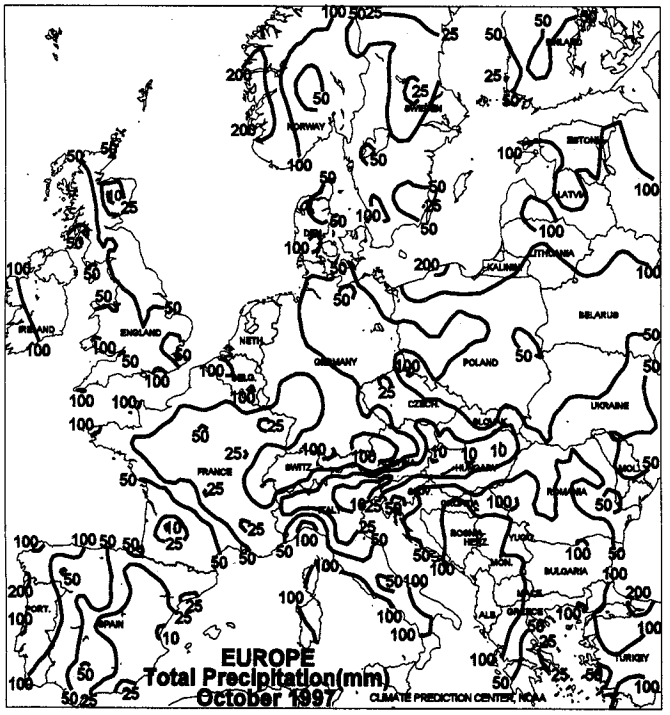


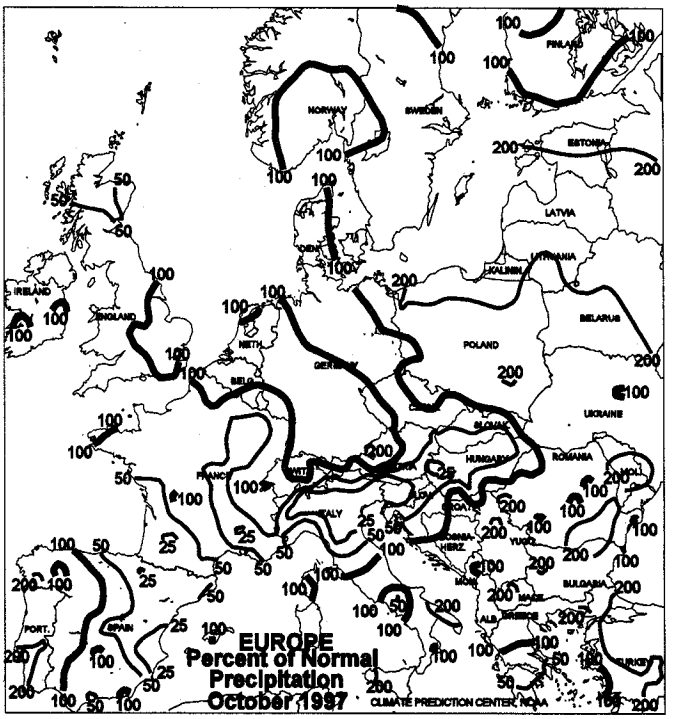


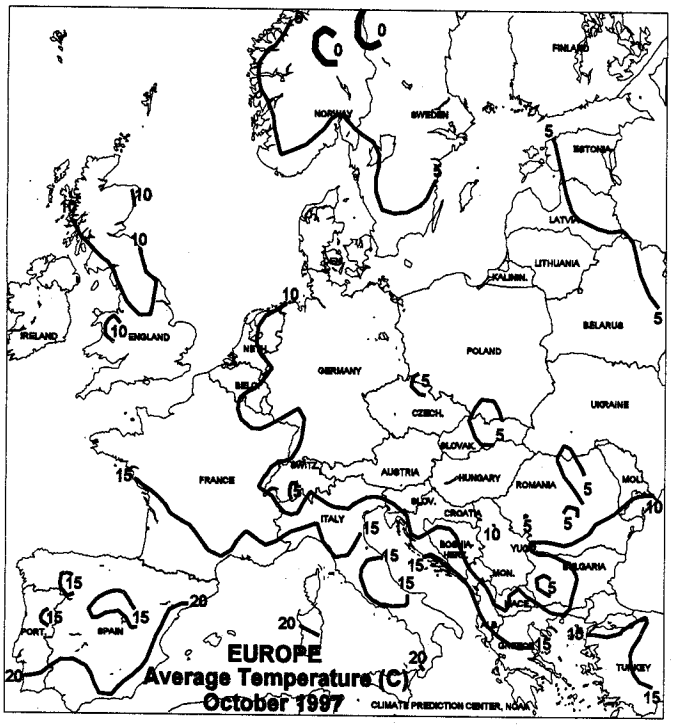


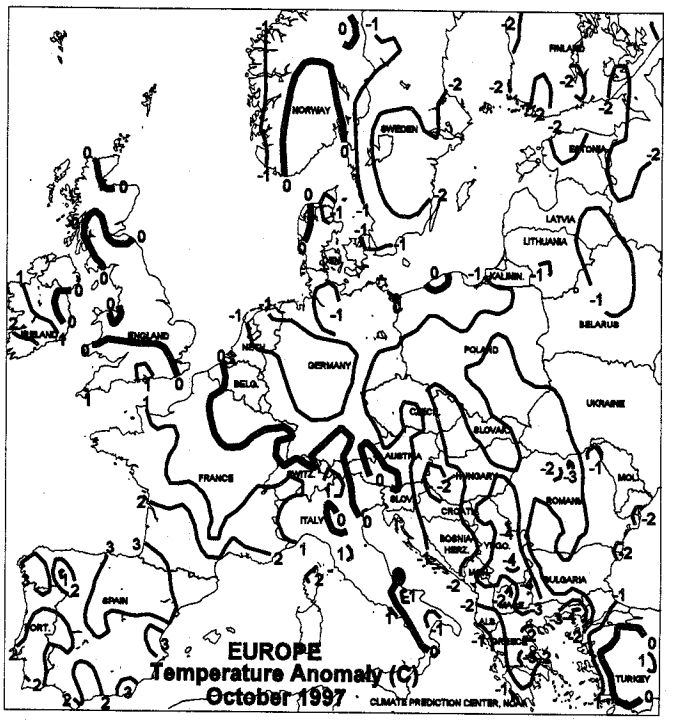
EUROPE

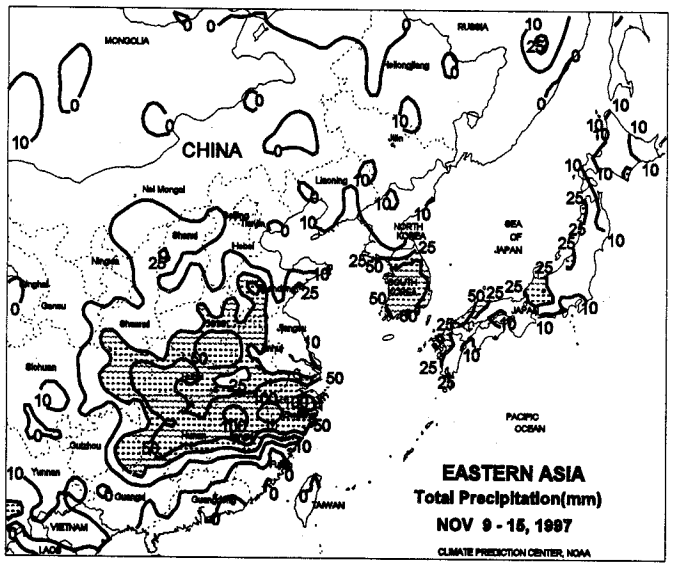
Light to moderate showers (10-50 mm, with local amounts in excess of 50 mm) spread from southern England and France eastward through Germany into Poland. While the rain in western areas slowed late summer crop harvesting, it provided favorable moisture for winter crop establishment. Farther south, although rainfall diminished in southern Spain, light showers (10-25 mm) continued to maintain waterlogged soils. In Italy, light to moderate showers (10-50 mm) slowed winter grain planting but provided abundant topsoil moisture for germination and plant establishment. In eastern Europe, widespread showers (15-67 mm) in Hungary and Slovakia followed a period of prolonged dryness that had persisted since early September, improving moisture conditions for winter grains. Mostly dry weather in southeastern Europe helped late-season fieldwork for summer crop harvesting and winter grain planting. In October, below-normal precipitation fell in France, adjacent areas in western Germany, and Italy, helping summer crop harvesting and winter grain planting. Unseasonably cold, wet weather in southern Romania, Bulgaria, and Yugoslavia hampered summer crop harvesting and winter wheat planting. Below-normal precipitation fell in Hungary and southern areas in Slovakia, limiting moisture for winter grain establishment. Unseasonably cold weather (monthly temperatures averaging 2 to 4 degrees C below normal) occurred in eastern Europe during October. By month's end, temperatures were low enough in Poland and the Czech Republic to cause winter grains to slip into dormancy.





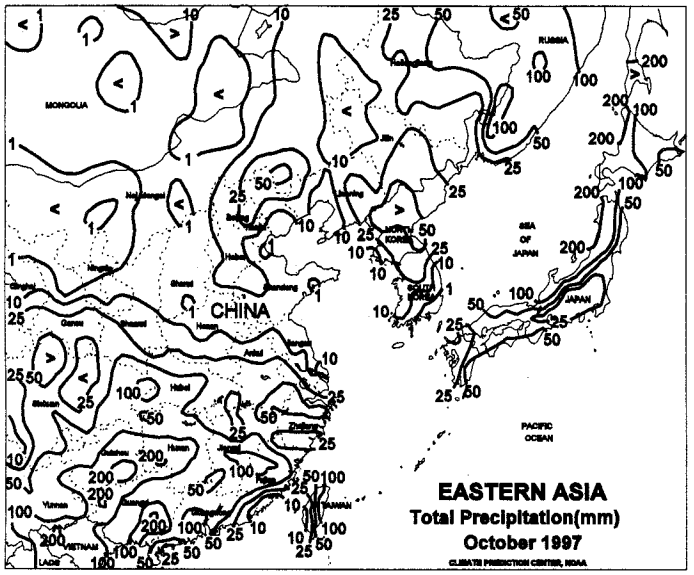


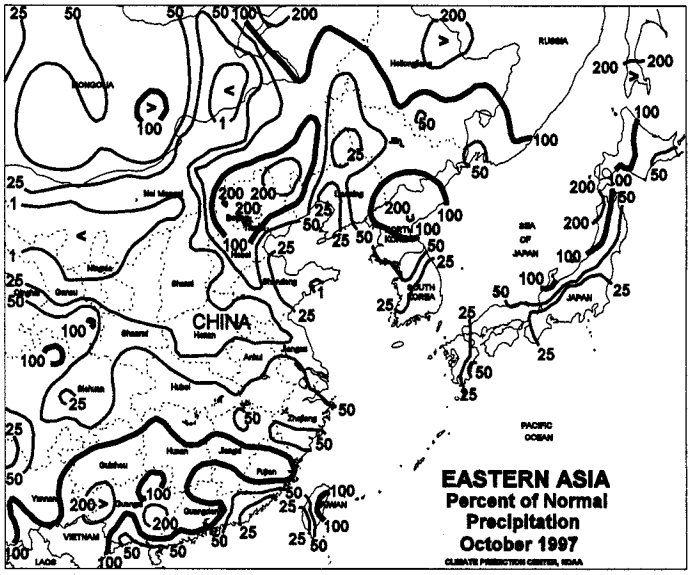


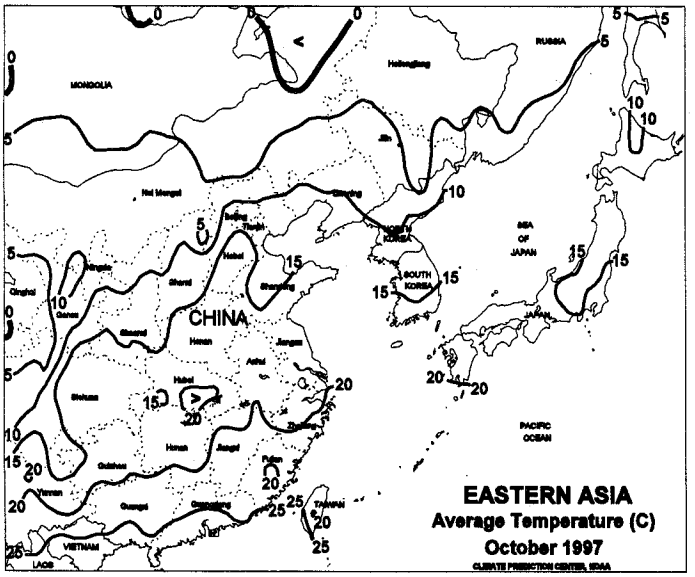


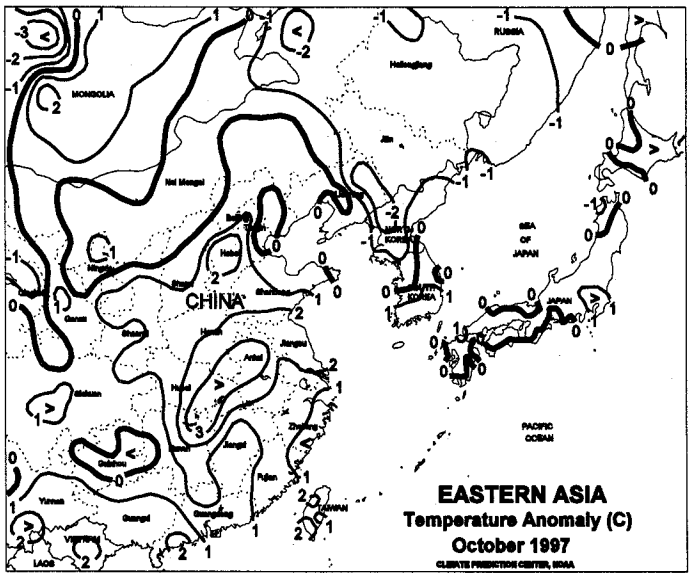
EASTERN ASIA

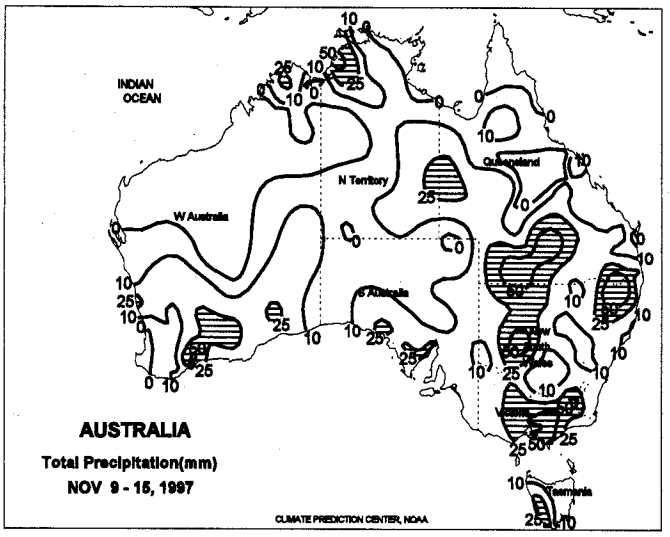
Widespread, unseasonable rain (5-25 mm) covered the North China Plain, boosting topsoil moisture for germinating winter wheat. Farther south, heavier amounts (40-75 mm, with isolated amounts greater than 100 mm) covered the Yangtze Valley, increasing moisture for winter grains and oilseeds. Moderate rain (25-75 mm) slowed rice harvesting across South Korea. During October, below-normal rainfall slowed winter wheat planting across the North China Plain and reduced moisture for establishment. Near- to above-normal October rainfall covered southern China, slowing late double-crop rice harvesting. Below-normal rainfall favored rice harvesting in South Korea and Japan.


EASTERN ASIA
Total Precipitation(mm)
October 1997
CLIMATE PREDICTION CENTER, NOAA
CHINA
MONGOLIA
RUSSIA
SEA OF JAPAN
PACIFIC OCEAN
JAPAN
VIETNAM
LAOS


EASTERN ASIA
Percent of Normal
Precipitation
October 1997
CLIMATE PREDICTION CENTER, NOAA
CHINA
MONGOLIA
RUSSIA
SEA OF JAPAN
PACIFIC OCEAN
JAPAN
VIETNAM
LAOS

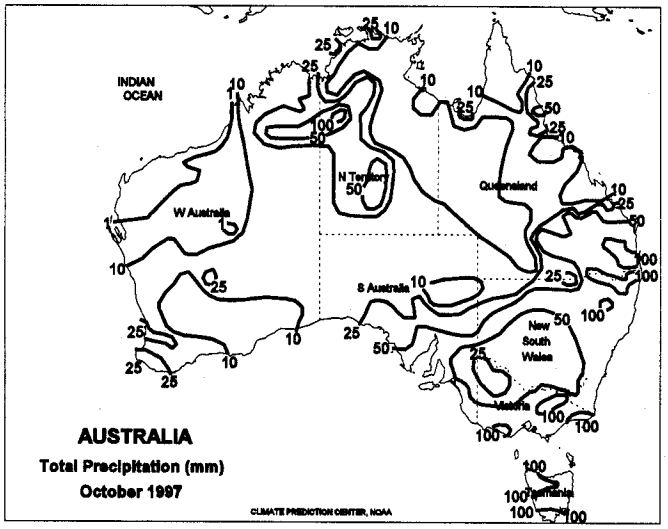

EASTERN ASIA
Average Temperature (C)
October 1997
CLIMATE PREDICTION CENTER, NOAA
CHINA
MONGOLIA
RUSSIA
SEA OF JAPAN
PACIFIC OCEAN
JAPAN
VIETNAM
LAOS

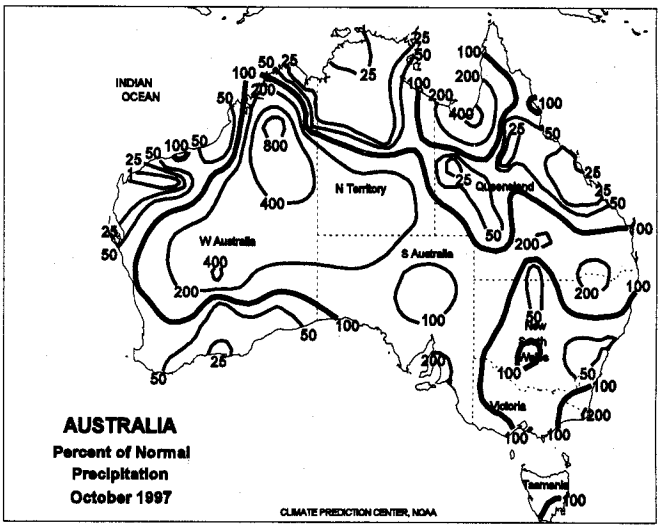

EASTERN ASIA
Temperature Anomaly (C)
October 1997
CLIMATE PREDICTION CENTER, NOAA
CHINA
MONGOLIA
RUSSIA
SEA OF JAPAN
PACIFIC OCEAN
JAPAN
VIETNAM
LAOS

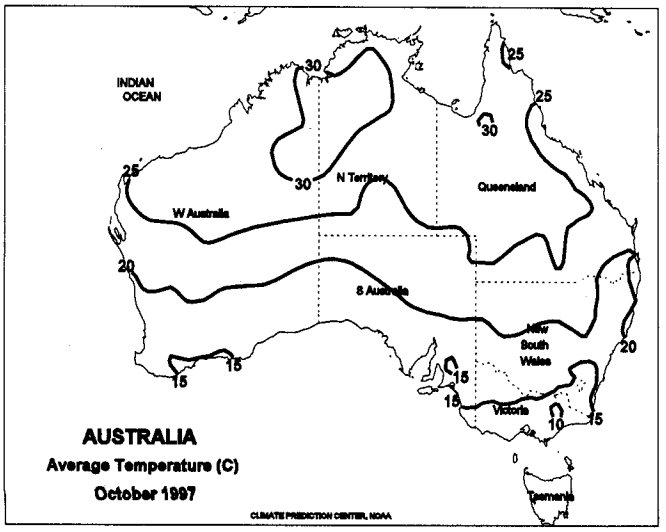


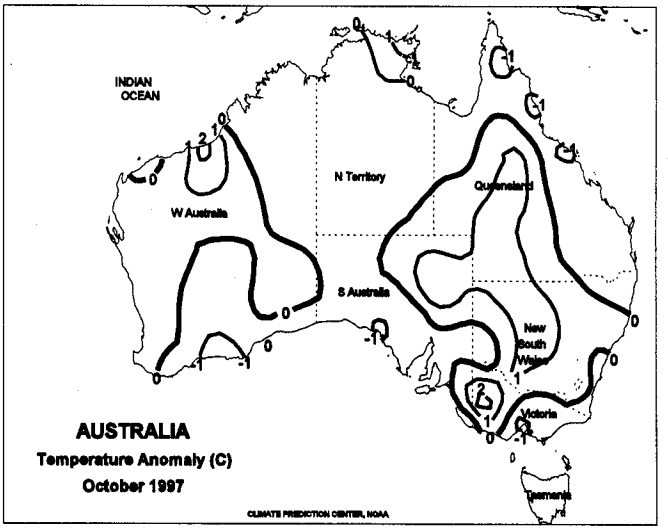
AUSTRALIA

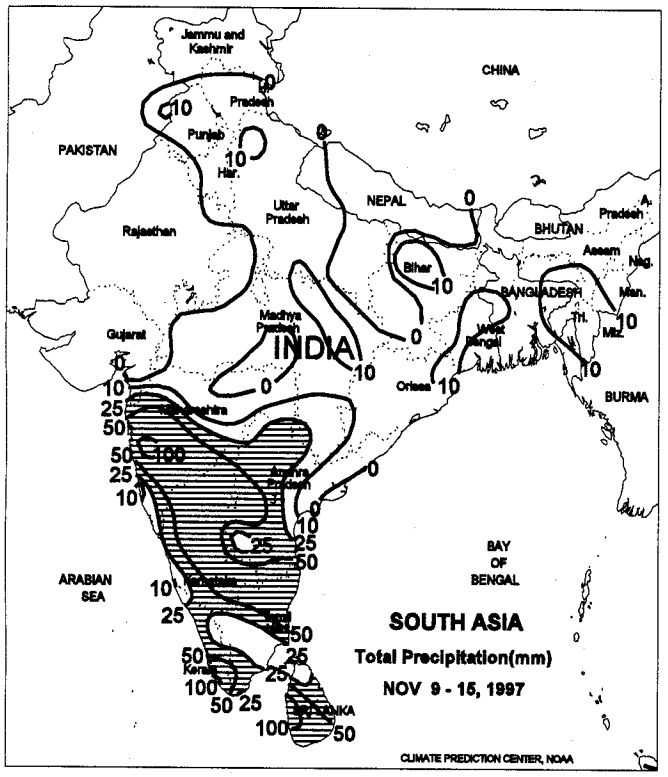
Widespread, mostly moderate showers (10-25 mm or more, locally exceeding 50 mm) covered eastern Australia's main interior crop areas. The moisture was highly beneficial for emerging cotton and sorghum, reaching primary locations that missed last week's rain. The rain was also favorable for pastures and rangeland. However, most winter grain areas no longer needed significant moisture and some harvesting delays were likely. The same held true for Western Australia, where rain (10-47 mm) also came too late for most wheat and barley. Prior to the rain, temperatures in the east were above normal, with highs reaching the low to middle 30's C in the main summer crop zones. In New Zealand, light to moderate rain (5-25 mm) covered most agricultural areas. October rainfall was near to above normal throughout most primary agricultural areas of eastern Australia. However, this was mainly due to two brief periods of heavy rain. During the first occurrence, moderate to heavy rain (25-50 mm or more) fell early in the month over the main cotton and sorghum areas, providing timely planting moisture. During the last week of October, widespread rain (25-50 mm or more) soaked the southeastern winter grain belt, bringing some relief from earlier heat and dryness that had accelerated crop development. Temperatures across the east averaged near to above normal for the month. In Western Australia, October rainfall was near to below normal following September's favorably wet pattern.





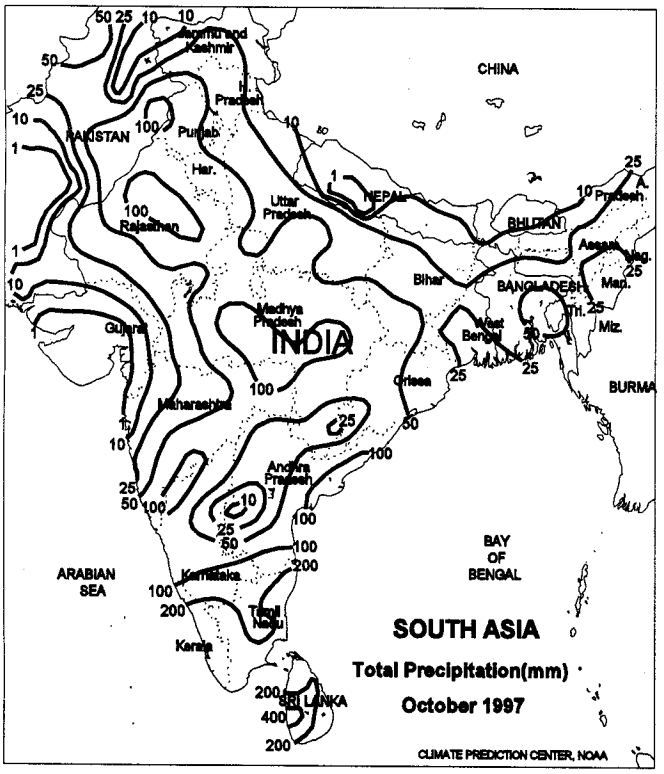


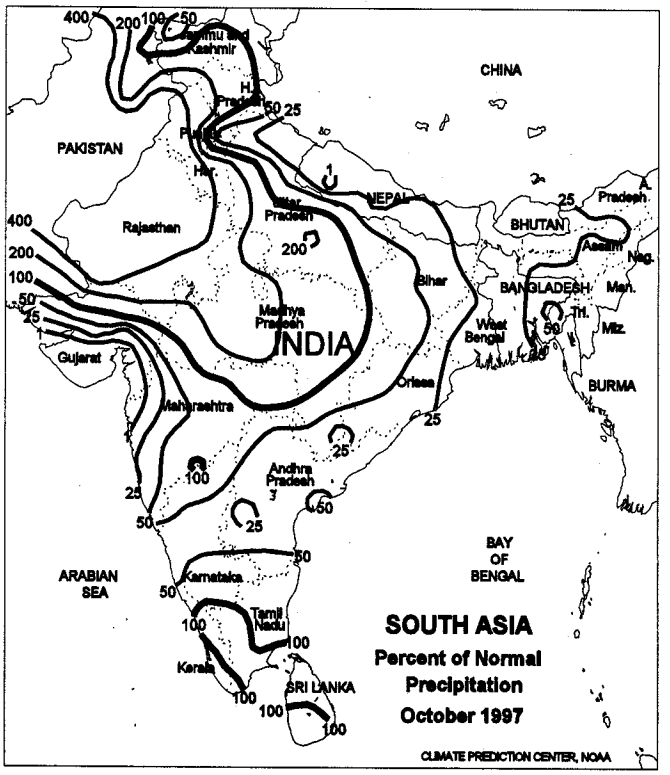


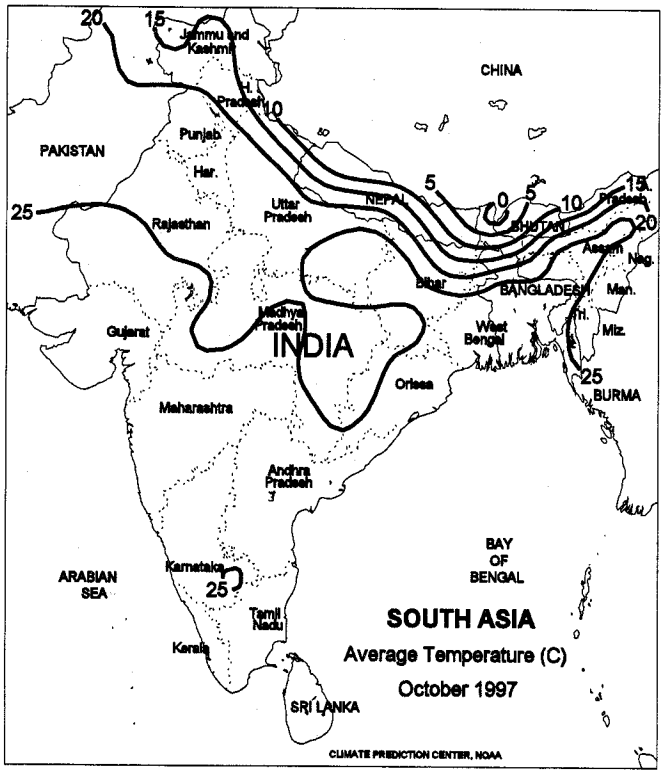


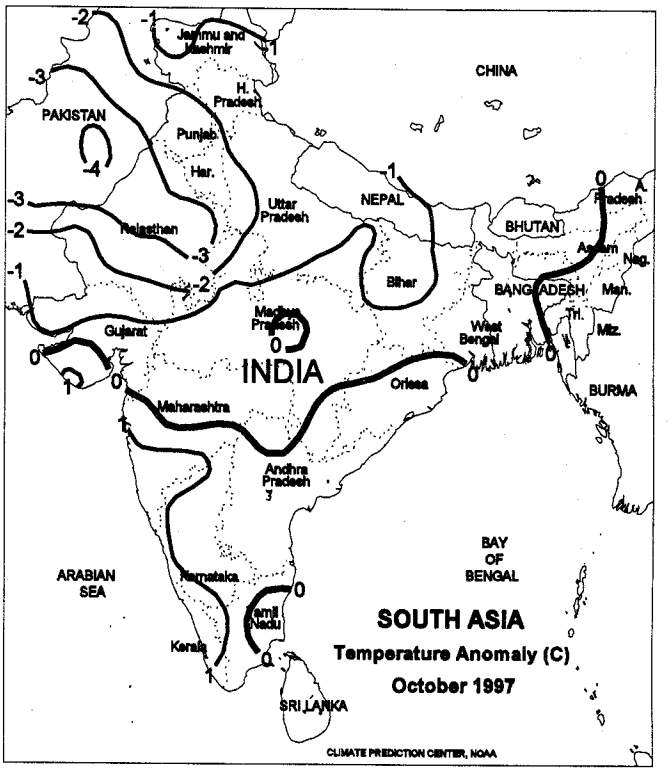
SOUTH ASIA

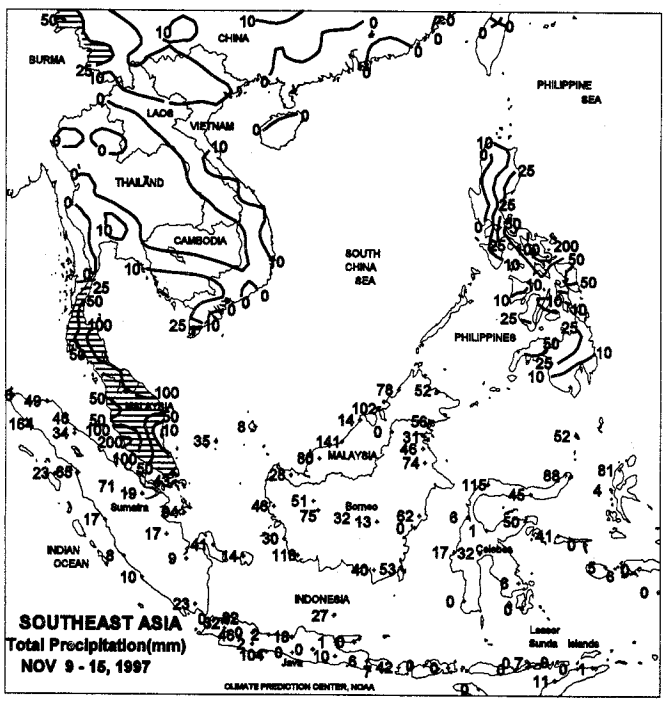
Seasonable dryness benefited most of the region's maturing summer grains, oilseeds, and cotton. However, persistent rain (25-50 mm or more) that has lingered the past few weeks over the southern tip of India moved as far north as Maharashtra, threatening local areas with flooding and reductions in crop quality. Cotton is especially vulnerable to damage. In the long term, moisture reserves are adequate to abundant for development of winter grown crops. In October, the monsoon continued its seasonal withdrawal but was replaced by a mid-latitude, winter-like pattern that dominated the region for much of the month. As a result, above-normal rainfall (25-100 mm), accompanied by unseasonable coolness, covered a broad area from Pakistan to central India. The rainfall likely caused localized flooding and had some negative impact on maturing cotton. However, the moisture was favorable for winter grains and oilseeds and some late-developing summer crops may have benefited. In the south and east, October rainfall was near to below normal, favoring autumn fieldwork but reducing moisture reserves for winter sown rice and other crops.





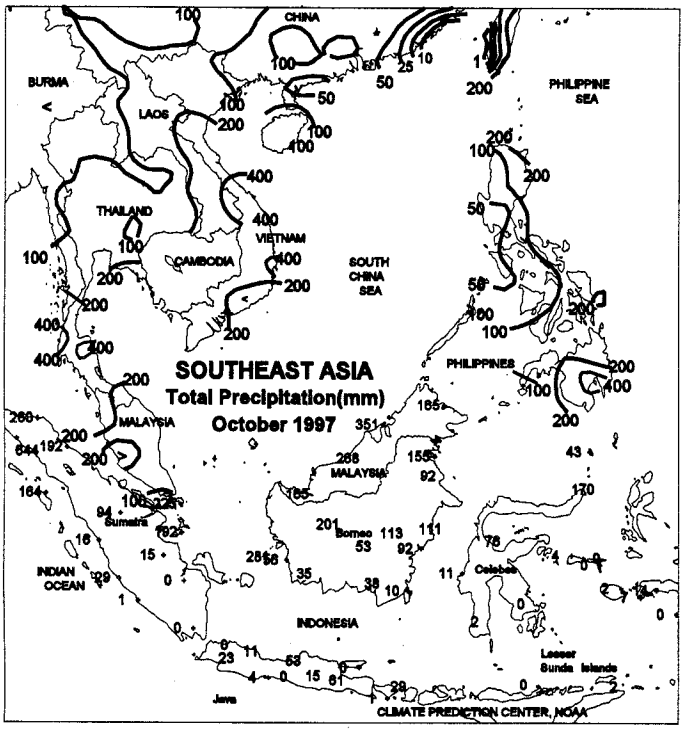


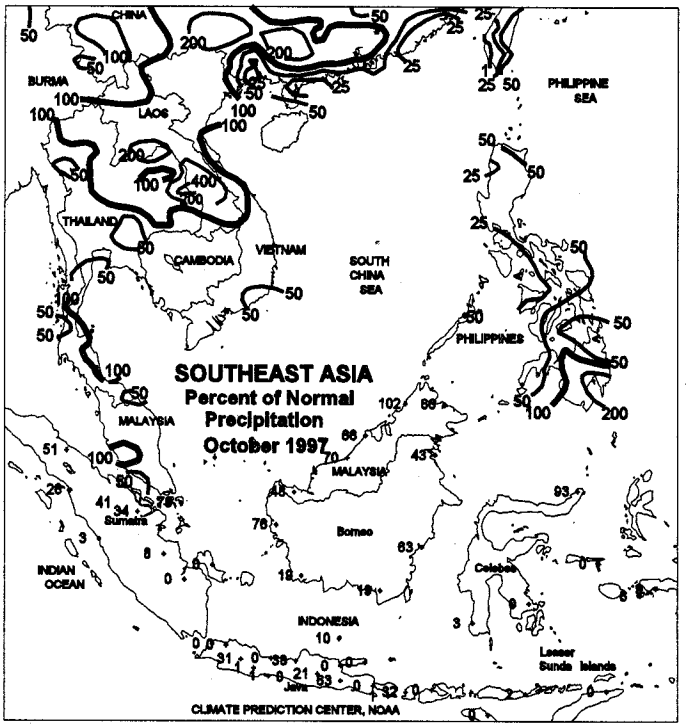


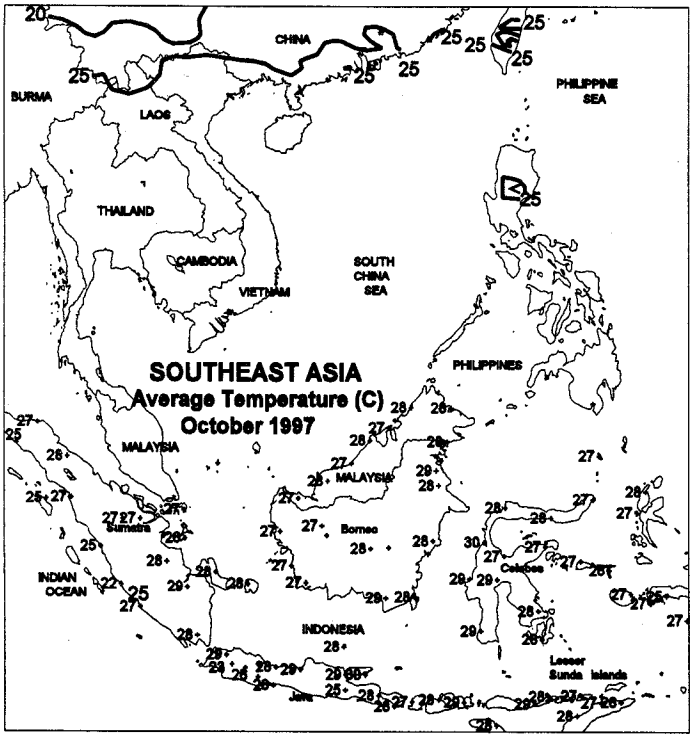


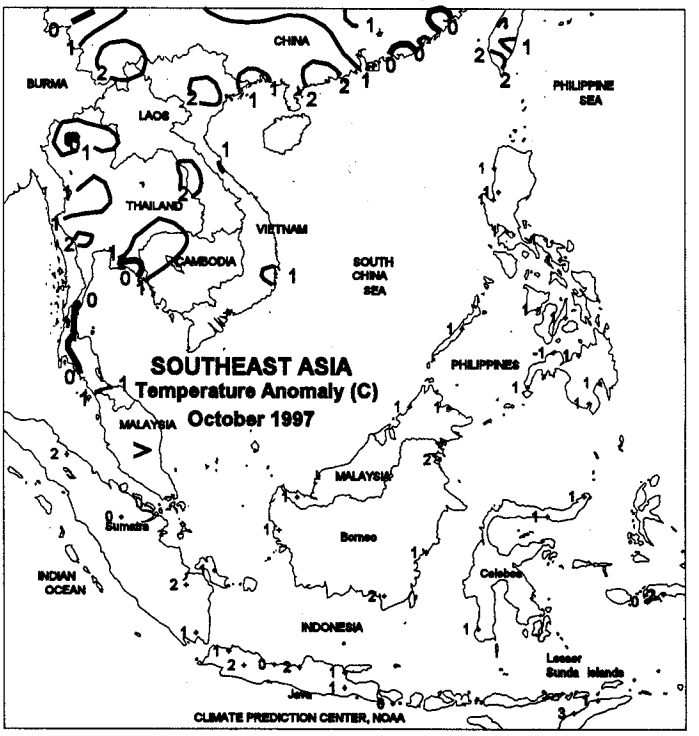
SOUTHEAST ASIA

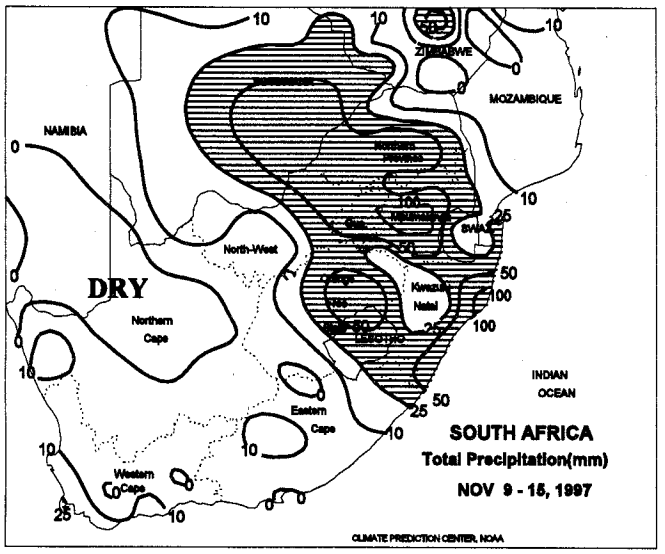
Scattered showers (10-75 mm) brought some drought relief to southern Sumatra and Java. However, constant, widespread rain is still needed to alleviate the drought. Mostly dry weather (less than 20 mm) favored rice harvesting across Thailand and Vietnam. In the Philippines, the remnants of Tropical Storm Mort brought heavy showers (50-200 mm) to southeastern Luzon, boosting moisture supplies, but causing minor flooding. During November, rainfall increases across the eastern Philippines and decreases across the west. Moderate to heavy showers (30-225 mm) covered peninsular Malaysia, favoring oil palm. During October, drought continued across Java, southern Sumatra, and southern Borneo (10 to 40 percent of normal rainfall), delaying main-season rice planting and reducing irrigation supplies. Near- to above-normal October rainfall prevailed across northern Vietnam and northern Thailand, slowing rice harvesting. October rainfall averaged less than 50 percent of normal across the northern and central Philippines, favoring main-season grain harvesting, but reducing moisture for second-season crops. Only Mindanao received near-normal rainfall.


SOUTHEAST ASIA
Total Precipitation(mm)
October 1997
CLIMATE PREDICTION CENTER, NOAA
CHINA
BURMA
LAOS
THAILAND
CAMBODIA
VIETNAM
SOUTH CHINA SEA
PHILIPPINE SEA
PHILIPPINES
MALAYSIA
Sumatra
Borneo
Celebes
INDIAN OCEAN
INDONESIA
Lesser Sunda Islands
Java


SOUTHEAST ASIA
Percent of Normal Precipitation
October 1997
CLIMATE PREDICTION CENTER, NOAA
CHINA
BURMA
LAOS
THAILAND
CAMBODIA
VIETNAM
SOUTH CHINA SEA
PHILIPPINE SEA
PHILIPPINES
MALAYSIA
Sumatra
Borneo
Celebes
INDIAN OCEAN
INDONESIA
Lesser Sunda Islands
Java

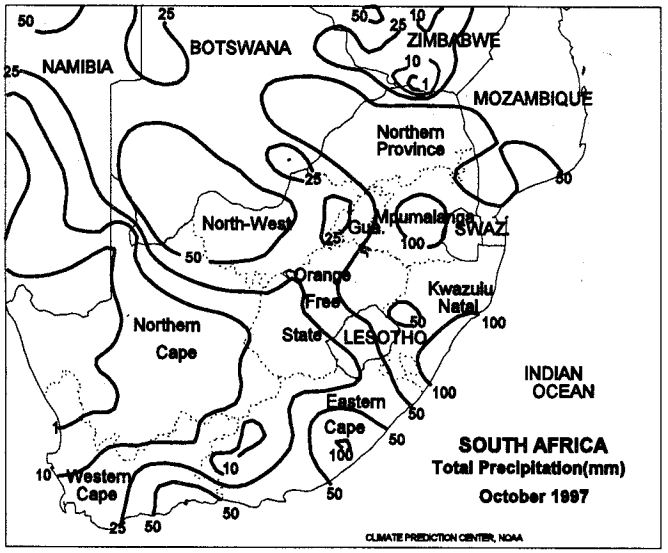

SOUTHEAST ASIA
Average Temperature (C)
October 1997
CHINA
BURMA
LAOS
THAILAND
CAMBODIA
VIETNAM
SOUTH CHINA SEA
PHILIPPINE SEA
PHILIPPINES
MALAYSIA
Sumatra
Borneo
Celebes
INDIAN OCEAN
INDONESIA
Lesser Sunda Islands
Java

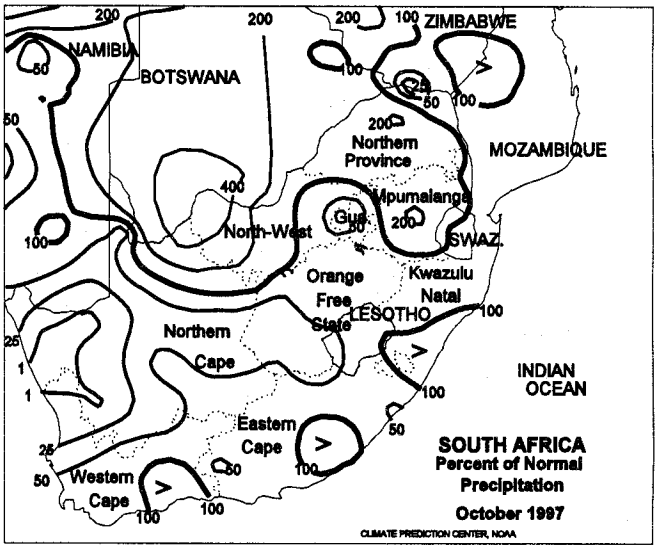

SOUTHEAST ASIA
Temperature Anomaly (C)
October 1997
CLIMATE PREDICTION CENTER, NOAA
CHINA
BURMA
LAOS
THAILAND
CAMBODIA
VIETNAM
SOUTH CHINA SEA
PHILIPPINE SEA
PHILIPPINES
MALAYSIA
Sumatra
Borneo
Celebes
INDIAN OCEAN
INDONESIA
Lesser Sunda Islands
Java

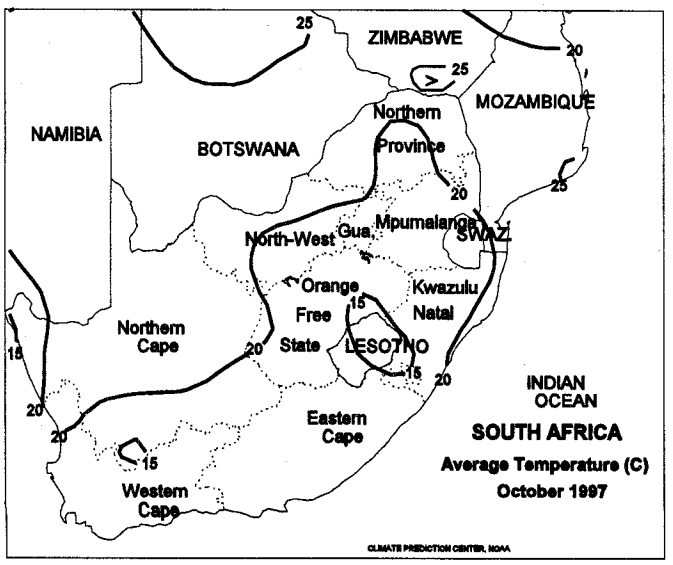


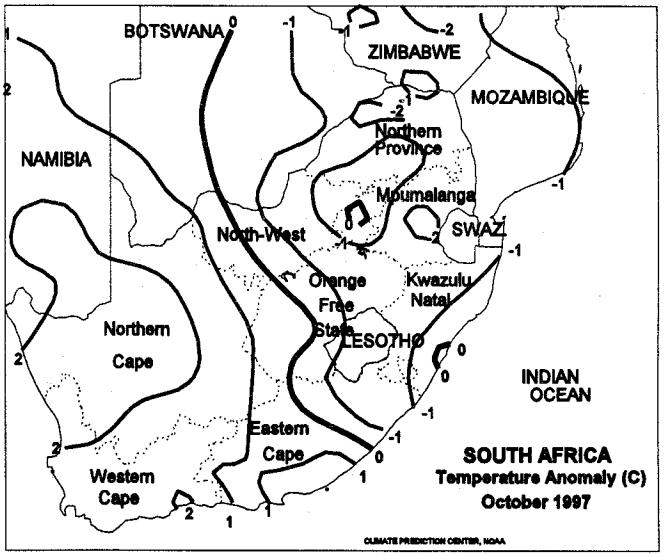
SOUTH AFRICA

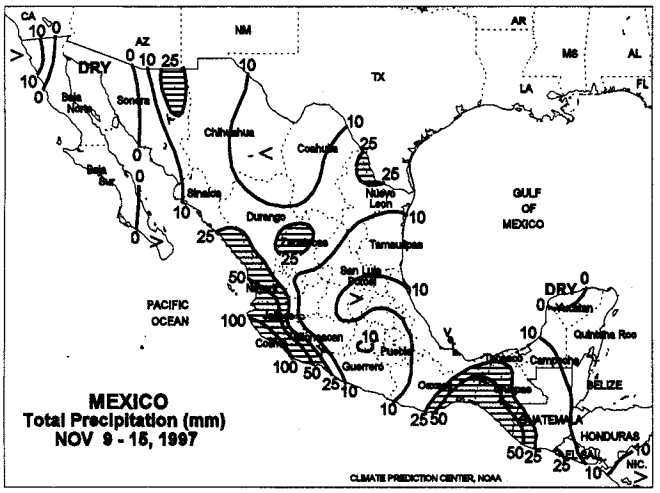
Moderate to heavy rain (25-50 mm or more) covered a broad area of the eastern corn belt, improving prospects for corn establishment. Heavy rain (50-100 mm) extended southeastward to the coastal sugarcane region of Kwazulu-Natal. However, drier weather continued to plague western corn areas. In Western Cape, showers were moving into the region at week's end, coming too late to improve winter wheat prospects. In October, rainfall was near to above normal in northern and eastern sections of the corn belt, favoring early plantings. However, a drying trend since mid-October had, until very recently, reduced topsoil moisture reserves for emerging crops. Southern sections of the corn belt have yet to receive adequate rainfall to plant.





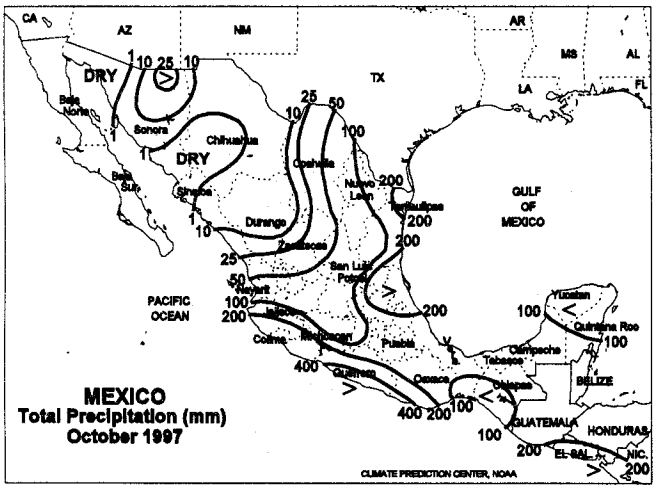


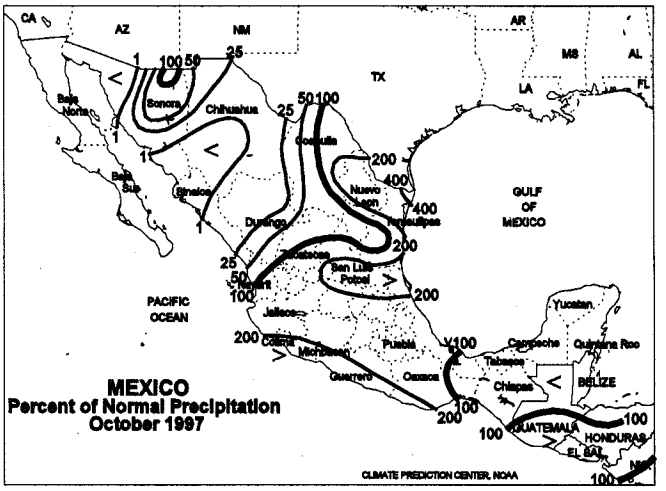


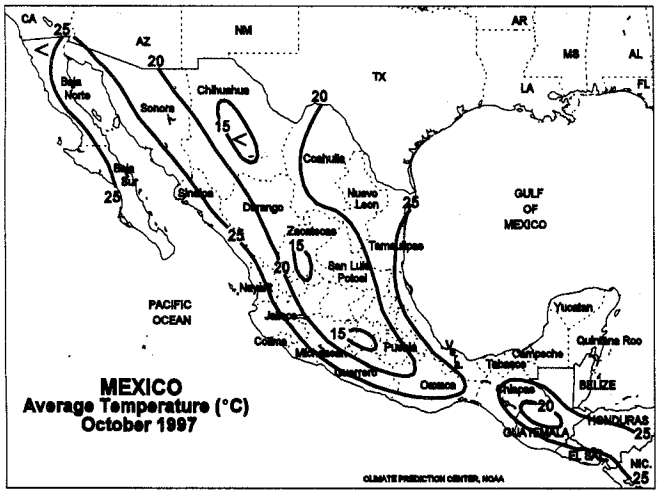


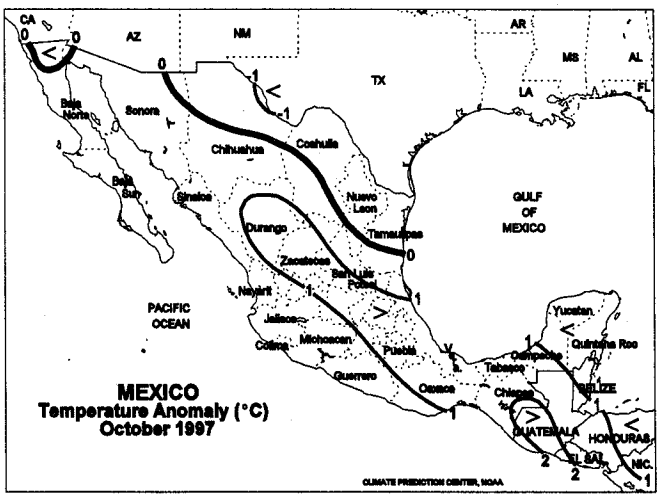
MEXICO

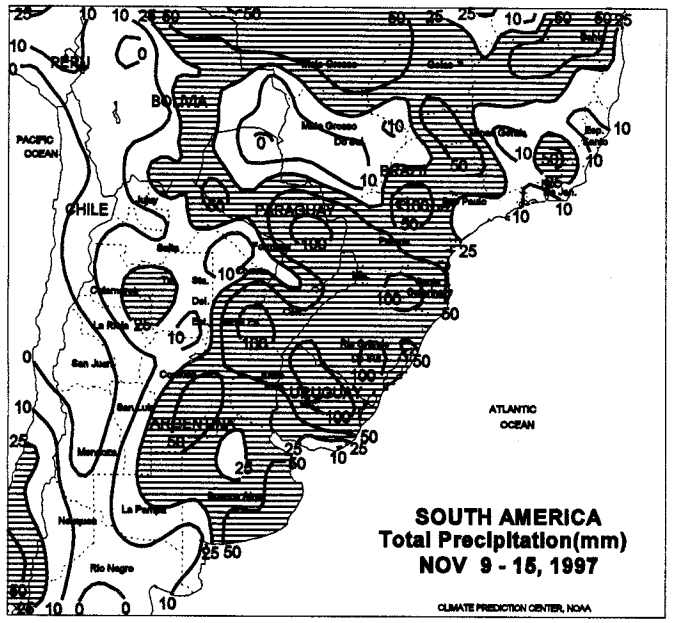
On November 9-10, minimal Hurricane Rick hit the southern state of Oaxaca, with sustained winds of 75 mph. Rick hit within 50 miles of where Hurricane Pauline struck a month ago on October 8. However, Rick brought less rainfall (local amounts of 100 mm) and wind than Pauline. At landfall by comparison, Pauline was reported to have winds of 125 mph.





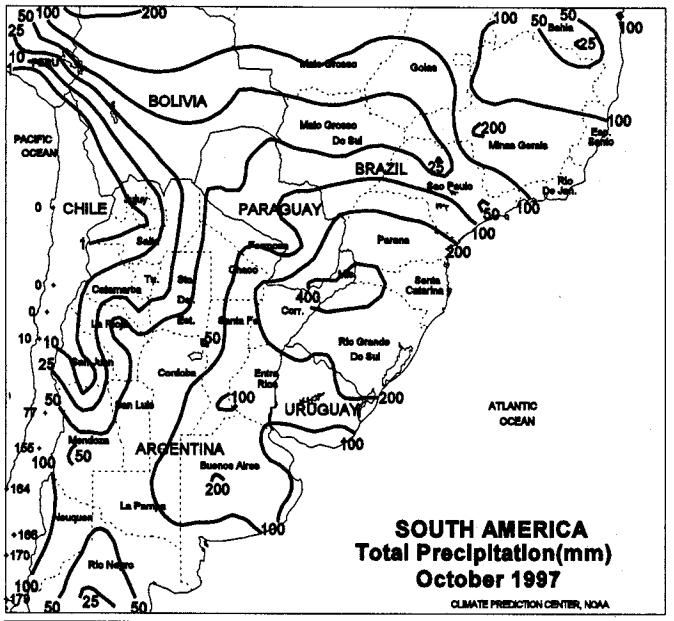


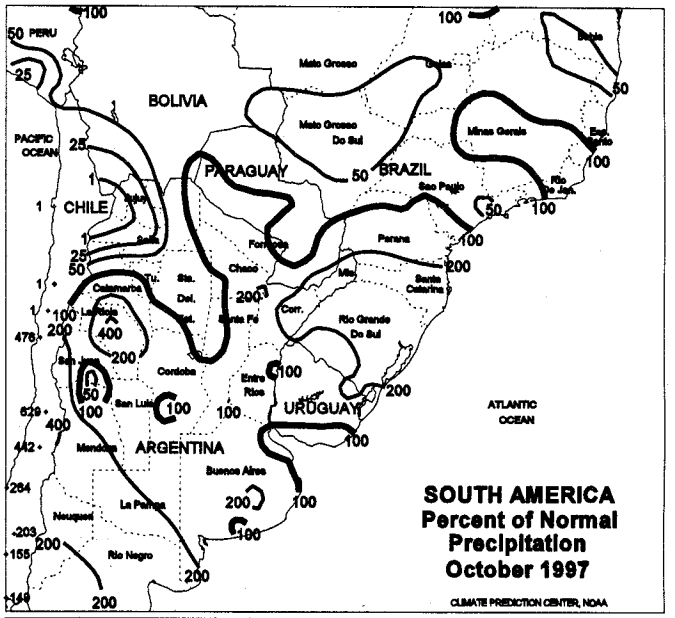


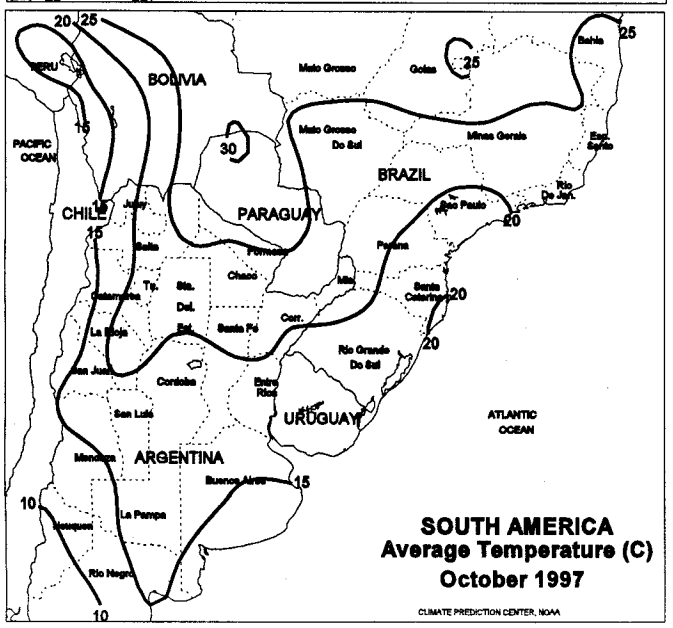


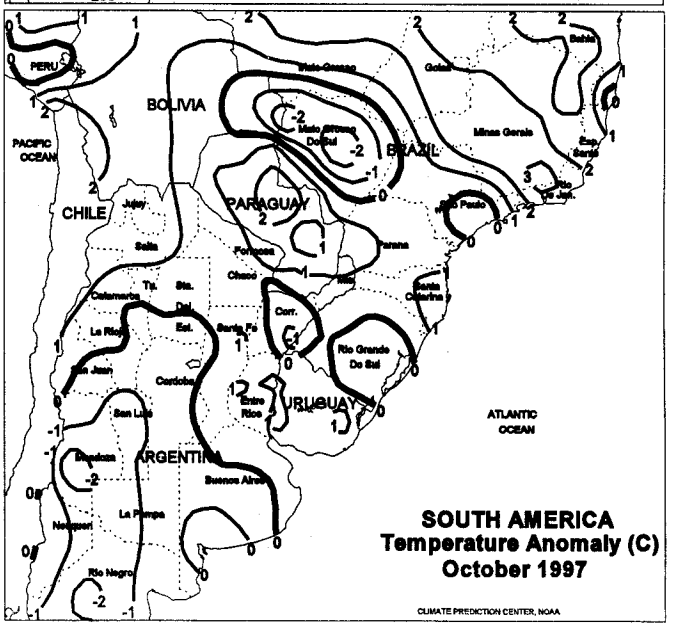
SOUTH AMERICA

Moderate early-week showers (50-100 mm) covered the southern Brazilian states of Rio Grande do Sul, Santa Catarina, and Parana, slowing soybean planting. However, dry weather later in the week allowed some fieldwork to occur. Farther north, showers (30-100 mm) boosted topsoil moisture for soybean planting in Mato Grosso and Goias. Light showers (less than 25 mm) continued to prevail in Mato Grosso do Sul, where soil moisture remained limited. In central Argentina, rain (20-75 mm) continued to boost soil moisture levels for summer crop planting and winter wheat heading. However, drier weather is needed to reduce the threat of wheat disease. In northern Argentina and southern Paraguay, showers (20-100 mm) continued to boost moisture for cotton and soybean planting. According to reports as of November 7, corn in Argentina was 64 percent planted, soybeans 13 percent, sunflower 58 percent, sorghum 31 percent, and cotton 14 percent. The sowing progress of all the crops was at or ahead of last year's progress. Temperatures averaged 1 to 3 degrees C above normal across central Argentina and southern Brazil. During October, above-normal rainfall (greater than 200 percent of normal) slowed soybean planting and caused damage to mature winter wheat in Rio Grande do Sul and Santa Catarina. Elsewhere in Brazil, rainfall averaged near normal except in Mato Grosso do Sul, where below-normal rainfall was reported. Slightly above-normal rainfall covered central Argentina, maintaining favorable moisture supplies for summer crop planting and winter wheat development.









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(Continued from page 8)

Winter Wheat Crop Condition by Percent

	VP	P	F	G	EX
AR	0	3	26	63	8
CA	0	0	50	40	10
CO	1	3	20	62	14
GA	0	1	38	58	3
ID	0	0	8	86	6
IL	0	3	23	66	8
IN	1	8	29	49	13
KS	0	1	11	72	16
MI	1	4	41	48	6
MO	0	1	28	63	8
MT	4	12	35	47	2
NE	0	7	26	58	9
NC	0	0	24	67	9
OH	0	4	34	50	12
OK	0	1	16	77	6
OR	0	0	15	83	2
SD	0	6	13	55	26
TX	2	8	40	41	9
WA	0	0	7	72	21
ALL	1	3	21	64	11
Prev Wk	0	4	21	63	12
Prev Yr	0	3	23	62	12

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

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

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