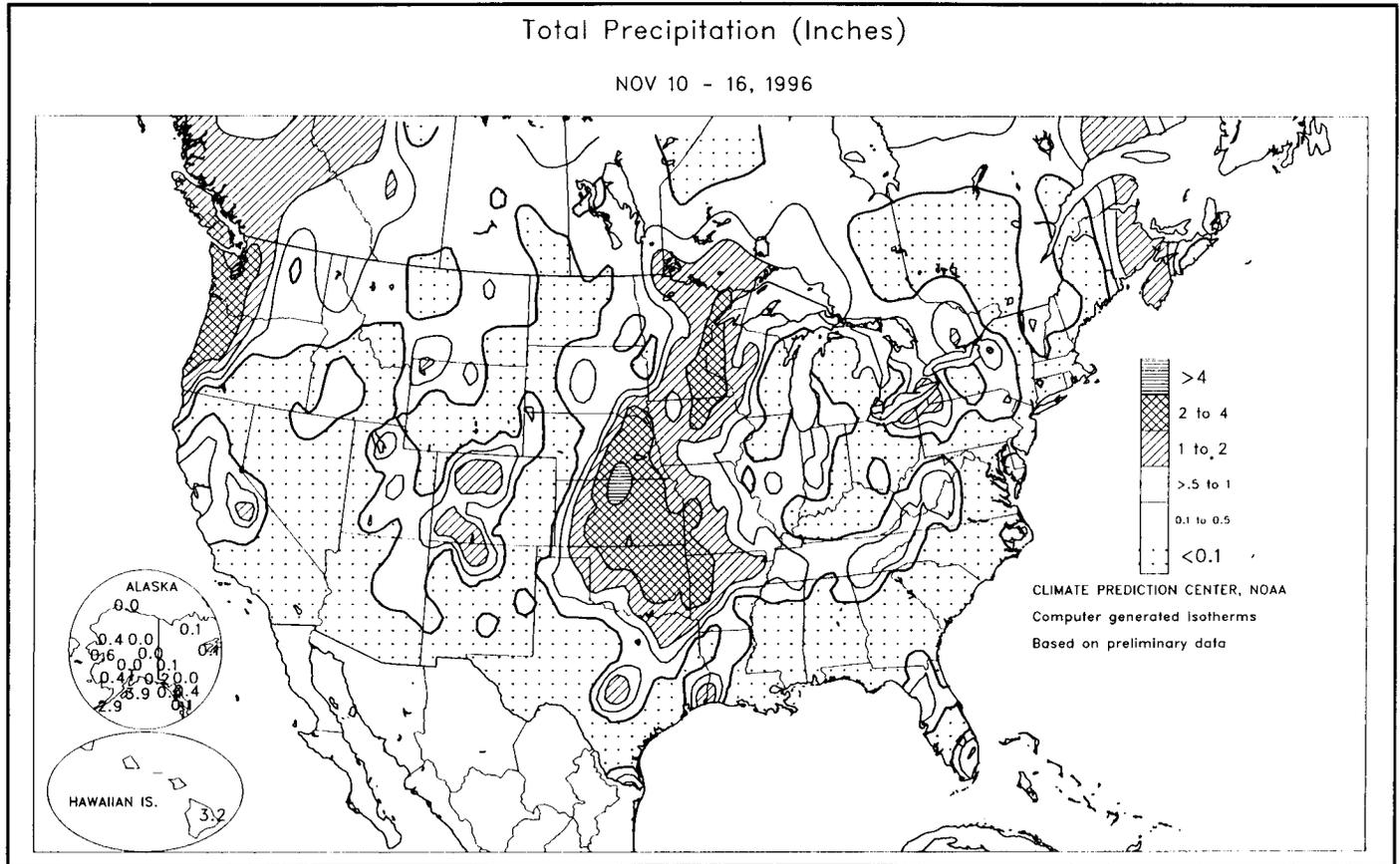


# WEEKLY WEATHER AND CROP BULLETIN

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



## HIGHLIGHTS

November 10 - 16, 1996

**A**n arctic airmass fueled lake-effect snow squalls through Thursday before settling over the **Northeast** at week's end. The difference in pressure between the arctic high and a low-pressure system (later Tropical Storm Marco) south of **Cuba** resulted in persistent easterly winds across the **Southern Atlantic States** and the **Gulf of Mexico**, causing heavy surf and higher-than-normal tides. Farther west, widespread rain soaked the **western Corn Belt** and ended a 6- to 7-week dry spell on parts of the **central Plains**. Precipitation began as snow, sleet, or freezing rain across the **upper Midwest**, while wind-driven snow engulfed parts of the **northern Plains** and **Rockies**. A 7-week dry spell persisted, however, on the **southern Plains**. At week's end, very cold air edged into the **northern and central Plains**, while a band of

Pacific storminess reached the **West Coast**. The Pacific moisture stretched to **Hawaii**, where rainfall deluged **Oahu** for a second consecutive week.

*(Continued on page 2)*

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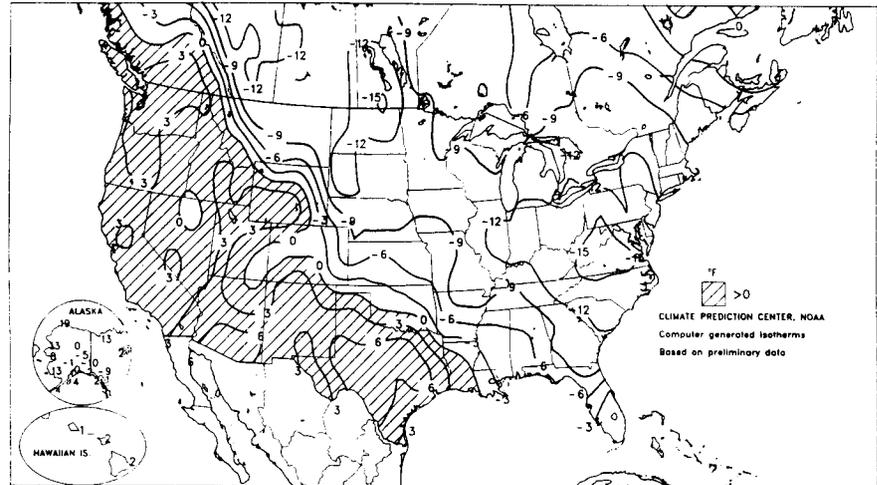
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(Continued from front cover)

The November 9-14 squalls dumped tremendous amounts of snow in favored locations downwind of the **Great Lakes**. Totals reached 30 inches at **Hurley, WI**, in the **Lake Superior** snow belt, and near **Osceola, NY**, leeward of **Lake Ontario**. Prodigious snowfall was observed downwind of **Lake Erie**, including 68.9 inches in **Chardon, OH** and 54.8 inches in **Edinboro, PA**. The squalls boosted monthly snowfall to 20.8 inches in **Cleveland, OH** (only 1.5 inches shy of their November record), 27.3 inches in **Erie, PA**, 16.9 inches in **Syracuse, NY**, and 11.5 inches in **South Bend, IN**. The surge of cold air held weekly temperatures 10 to 16°F below normal from the **northern Plains** to the **East Coast** and resulted in about three dozen daily-record lows on November 11-16. On Tuesday, daily records included 16°F in **Cincinnati, OH** and 28°F in **Florence, SC**. Among the dozen records on Friday were lows of 3°F in **Elkins, WV** and 11°F in **Flint, MI**. November-record barometric readings were reported on Saturday in **Philadelphia, PA** (30.85 inches, or 1045 millibars) and **Newark, NJ** (30.84 inches, or 1044 millibars). Farther south, late-week wind gusts topped 40 mph in **eastern Florida**; even in the interior, **Winter Haven** clocked a gust to 40 mph on Saturday.

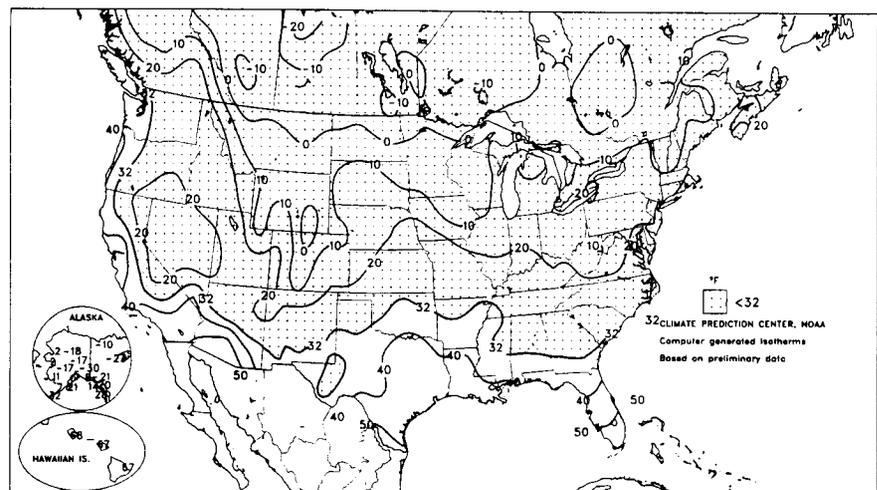
Departure of Average Temperature from Normal (°F)

NOV 10 - 16, 1996



Extreme Minimum Temperature (°F)

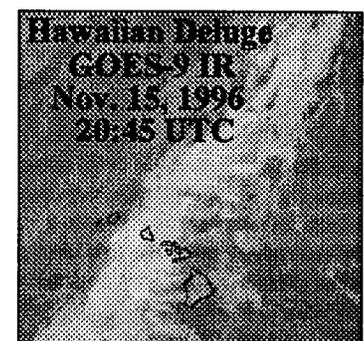
NOV 10 - 16, 1996



An area of light mixed precipitation spread from the **central Plains** to the **Middle Atlantic region** at midweek, followed by more impressive storminess across the **Western and Central States**. On Thursday, the season's first snowfall (0.7 inches) blanketed **Dulles Airport, VA**. A day later, snow and ice preceded heavy rainfall across the **northwestern Corn Belt**. Snowfall reached 0.6 inches in **LaCrosse, WI**. In **Des Moines, IA**, the mercury rose to 32°F on Thursday, ending a 5-day stretch of sub-freezing weather, their longest in November since 1985. More than 2 inches of rain pelted most areas from the **central Plains** to the **upper Midwest**. In **Minnesota**, both **Duluth** and **Minneapolis** collected daily-record precipitation on November 15-16. The 2-day total reached 3.40 inches in **Duluth**, 189 percent of their November normal; 2.85 inches soaked **Minneapolis**. Farther south, 2.76 inches deluged **Dodge City, KS** on November 15-16, breaking their 24-hour November record. Little or no rain fell on the **southern Plains**, however, where October 1 - November 16 totals were as low as 0.33 inches (14 percent of normal) in **Lubbock, TX**.

Late in the week, blizzard conditions raked parts of the **North-Central States**. In **Fargo, ND**, snowfall totaled 13.5 inches on November 16-17, accompanied by wind gusts to 48 mph. Farther west, **Glasgow, MT** received measurable snowfall, totaling 13.4 inches, on 7 consecutive days (November 9-15), tying their November record, followed by a low of -11°F on Saturday. In the storm's wake, light snow fell on Saturday as far south as **Grand Island, NE** (2.0 inches) and **Colorado Springs, CO** (0.2 inches). Farther west, 23 inches fell at **Alta** in **Utah's Wasatch Range** on November 15-17. A strong surge of Pacific moisture arrived along the **West Coast** at week's end. In **eastern Washington**, 3.3 inches of snow fell on Saturday in **Spokane**. Heavy rain developed on Saturday night in **northern California**.

Nearly a dozen daily-record highs were scattered around the **West**, as weekly temperatures averaged 2 to 6°F above normal. Highs reached 72°F at both **Klamath Falls, OR** (on Monday) and **Flagstaff, AZ** (on Tuesday). Much-above-normal temperatures also dominated **western and northern Alaska**. In **Barrow**, where the weekly temperature averaged 19°F above normal, the mercury reached 35°F on Saturday. Meanwhile in Hawaii, 12.01 inches of rain deluged **Honolulu**, boosting their monthly total to a November-record 18.72 inches. Only 13.60 inches fell there during all of 1995. Elsewhere on **Oahu**, where flooding was extensive, monthly rainfall surpassed 20 inches in a few spots.



# National Weather Data for Selected Cities

Weather Data for the Week Ending November 16, 1996

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP, °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
AL BIRMINGHAM	59	37	67	30	48	-6	0.16	-0.85	-	11.58	131	57.57	121	79	38	0	2	0	0
MOBILE	67	44	72	39	55	-5	0.00	-0.94	0.00	8.38	78	55.35	98	81	37	0	0	0	0
MONTGOMERY	62	38	71	30	50	-6	0.00	-0.87	0.00	10.40	128	57.52	120	83	34	0	0	1	0
AK ANCHORAGE	26	17	30	5	21	0	0.04	-0.21	0.03	5.28	99	13.55	94	90	79	0	7	2	0
BARROW	24	11	36	1	18	19	0.00	-0.06	0.00	1.06	91	3.40	83	88	77	0	7	0	0
FAIRBANKS	7	-12	12	-17	-3	-5	0.00	-0.19	0.00	2.57	118	10.50	108	83	74	0	7	0	0
JUNEAU	38	27	41	20	33	1	-	-	-	-	-	-	-	94	51	0	5	-	-
KODIAK	43	34	46	21	39	4	3.93	2.56	1.93	17.64	102	46.81	80	93	89	0	1	4	2
NOME	30	19	38	2	25	8	0.68	0.33	0.23	3.76	87	15.57	114	88	75	0	6	4	0
AZ PHOENIX	81	56	89	64	69	6	0.00	-0.14	0.00	0.91	50	4.04	83	38	18	0	0	0	0
PRESOTT	-	35	-	28	-	-	0.00	-0.36	0.00	1.17	30	6.70	39	66	29	-	2	0	0
TUCSON	80	52	87	48	66	7	0.00	-0.14	0.00	5.44	180	10.30	97	41	16	0	0	0	0
YUMA	82	57	88	53	69	5	0.00	-0.06	0.00	0.00	0	0.93	36	52	19	0	0	0	0
AR FORT SMITH	51	39	61	35	45	-6	1.07	0.13	0.66	15.11	166	50.75	140	93	71	0	0	6	1
LITTLE ROCK	-	-	-	-	-	-	0.21	-0.93	-	-	-	13.18	127	102	-	-	-	-	-
CA BAKERSFIELD	67	45	77	39	56	0	0.00	-0.17	0.00	1.48	178	5.87	119	88	24	0	0	0	0
EUREKA	59	46	67	39	63	1	0.34	-1.19	0.18	5.04	72	34.48	121	95	55	0	0	4	0
FRESNO	66	44	75	37	55	1	0.06	-0.27	0.04	2.00	134	10.15	120	95	31	0	0	2	0
LOS ANGELES	71	55	87	50	63	2	0.00	-0.43	0.00	1.38	87	10.10	108	84	36	0	0	0	0
REDDING	66	38	76	32	52	0	0.47	-0.78	0.47	2.48	42	30.15	119	93	38	0	1	1	0
SACRAMENTO	68	44	76	41	58	3	0.00	-0.65	0.00	0.76	25	16.61	122	94	35	0	0	0	0
SAN DIEGO	70	56	82	55	63	1	0.00	-0.34	0.00	0.91	68	4.85	64	80	34	0	0	0	0
SAN FRANCISCO	62	50	71	46	56	1	0.71	0.04	0.70	1.39	47	19.86	131	94	66	0	0	2	1
CO DENVER	48	23	67	10	38	-4	0.09	-0.11	0.05	1.62	56	7.97	55	69	46	0	7	2	0
GRAND JUNCTION	53	29	60	25	41	-2	0.41	0.19	0.41	3.33	120	8.93	96	91	44	0	7	1	0
PUEBLO	52	24	73	21	38	-3	0.00	-0.11	0.00	1.78	104	12.37	117	90	46	0	7	0	0
CT BRIDGEPORT	43	28	49	21	36	-11	0.04	-0.86	0.04	13.70	167	47.52	130	78	38	0	5	1	0
HARTFORD	42	24	50	16	33	-9	0.00	-0.94	0.00	14.33	161	47.43	123	81	35	0	6	0	0
DC WASHINGTON	44	31	50	27	37	-13	0.08	-0.84	0.08	14.22	178	44.33	130	78	38	0	5	1	0
FL PANAMA CITY	69	45	75	39	57	-4	-	-	-	-	-	-	-	81	40	0	0	-	-
DAYTONA BEACH	71	56	75	45	64	-3	0.41	-0.25	0.32	15.80	132	58.27	132	86	48	0	0	3	0
JACKSONVILLE	65	42	69	34	54	-11	0.17	-0.38	0.17	16.41	137	52.28	115	93	53	0	0	1	0
KEY WEST	78	69	86	65	73	-2	0.10	-0.57	0.10	16.12	136	37.32	102	80	65	0	0	1	0
MIAMI	77	66	79	58	72	-2	0.12	-0.51	0.11	16.14	109	54.07	102	75	55	0	0	2	0
ORLANDO	74	56	78	46	64	-4	0.10	-0.44	0.10	9.50	100	53.80	120	84	51	0	0	1	0
TALLAHASSEE	67	39	74	31	53	-7	0.00	-0.89	0.00	10.31	100	46.50	79	90	38	0	1	0	0
TAMPA	74	54	78	45	64	-4	0.00	-0.41	0.00	8.98	103	43.38	106	81	48	0	0	0	0
WEST PALM BEACH	77	64	79	53	71	-2	0.04	-0.79	0.03	11.75	89	38.24	89	74	53	0	0	2	0
GA ATLANTA	56	37	68	30	47	-7	0.00	-0.90	0.00	7.00	83	39.20	88	73	39	0	2	0	0
AUGUSTA	58	31	69	27	45	-11	0.00	-0.58	0.00	6.32	76	33.01	82	81	32	0	4	0	0
MACON	59	33	71	29	46	-10	0.01	-0.60	0.01	6.57	106	32.06	82	90	36	0	3	1	0
SAVANNAH	60	36	69	32	48	-11	0.00	-0.50	0.00	7.07	90	29.90	86	87	39	0	2	0	0
HI HILO	83	70	88	67	76	2	3.19	-0.28	1.05	24.33	94	107.29	97	92	69	0	0	5	4
HONOLULU	81	72	85	68	78	-1	12.01	11.32	-	19.57	419	31.02	184	90	71	0	0	-	-
KAHULUI	85	71	88	67	78	2	-	-	-	-	-	-	-	92	68	0	0	-	-
LIHUE	-	70	-	67	-	-	-	-	-	-	-	-	-	95	78	-	-	-	-
ID BOISE	51	32	59	28	42	1	0.12	-0.23	0.08	1.35	58	8.99	90	88	55	0	3	2	0
LEWISTON	51	37	58	34	44	2	0.20	-0.08	0.09	2.42	103	13.88	129	95	59	0	0	3	0
POCATELLO	49	25	58	20	37	1	0.05	-0.23	0.03	1.91	81	9.45	90	92	50	0	6	2	0
IL CHICAGO	38	23	56	17	30	-11	0.00	-0.69	0.00	5.70	74	29.14	91	78	53	0	6	0	0
MOLINE	37	22	60	10	29	-11	0.17	-0.41	0.16	3.05	37	25.06	70	87	54	0	6	2	0
PEORIA	38	24	56	16	31	-11	0.00	-0.63	0.00	3.94	50	25.74	79	80	47	0	6	0	0
QUINCY	36	27	55	20	31	-12	-	-	-	-	-	-	-	88	53	0	6	0	0
ROCKFORD	36	20	56	10	28	-11	0.00	-0.61	0.00	5.21	65	39.80	120	80	43	0	6	0	0
SPRINGFIELD	38	26	56	17	32	-12	0.04	-0.54	0.04	4.12	57	28.47	91	79	48	0	6	1	0
IN EVANSVILLE	42	31	55	27	38	-12	0.01	-0.97	0.01	14.04	169	53.33	133	85	51	0	6	1	0
FORT WAYNE	35	21	49	11	28	-14	0.03	-0.82	0.03	8.01	122	39.41	129	85	59	0	7	1	0
INDIANAPOLIS	38	25	54	20	32	-12	0.00	-0.75	0.00	12.97	181	47.76	136	81	44	0	6	0	0
SOUTH BEND	35	22	52	19	29	-13	0.16	-0.60	0.11	7.67	91	39.28	114	82	57	0	6	3	0
IA DES MOINES	36	25	57	16	31	-8	0.61	0.17	0.42	8.61	113	33.06	103	84	60	0	6	3	0
SIOUX CITY	33	23	52	20	28	-10	1.40	1.14	0.97	5.01	93	31.31	127	85	64	0	7	2	1
WATERLOO	34	17	58	-1	25	-11	0.79	0.38	0.44	8.80	124	27.47	87	92	61	0	6	3	0
KS CONCORDIA	42	28	59	24	35	-7	2.25	1.99	1.82	6.60	157	25.40	92	90	69	0	6	3	2
DODGE CITY	50	31	65	23	41	-3	2.90	2.71	1.58	9.41	256	32.33	158	93	65	0	5	3	2
GOODLAND	38	21	63	12	30	-9	0.05	-0.12	0.03	1.31	46	19.13	110	95	73	0	5	3	2
TOPEKA	42	31	61	28	36	-7	1.46	1.01	1.46	8.39	108	35.92	109	91	67	0	5	1	1
WICHITA	49	34	61	28	41	-5	2.25	1.78	2.25	8.31	105	25.10	77	86	67	0	5	1	1
KY BOWLING GREEN	44	30	59	24	37	-11	0.12	-0.90	0.09	12.38	138	49.67	113	86	53	0	5	2	

Weather Data for the Week Ending November 16, 1996

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	PRECIP.		
																		0.1 INCH OR MORE	0.5 INCH OR MORE	
ME CARIBOU	36	19	48	10	27	-6	0.06	-0.77	0.06	6.84	83	34.83	109	92	60	0	6	2	0	
ME PORTLAND	41	21	53	14	31	-8	0.00	-1.22	0.00	18.41	188	47.48	127	83	40	0	7	0	0	
MD BALTIMORE	42	26	48	19	34	-14	0.06	-0.72	0.06	12.67	156	47.58	133	90	42	0	7	1	0	
MD SALISBURY	46	27	50	21	36	-13	0.00	-0.72	0.00	10.33	119	48.39	120	87	39	0	6	0	0	
MA BOSTON	43	29	56	22	36	-10	0.00	-0.96	0.00	15.86	184	43.34	122	71	34	0	6	0	0	
MA CHATHAM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MI ALPENA	34	17	53	6	26	-11	0.06	-0.48	0.03	8.80	139	24.15	94	90	56	0	6	4	0	
MI DETROIT	36	23	46	18	30	-11	0.03	-0.59	0.03	7.25	114	22.40	78	80	50	0	7	1	0	
MI FLINT	36	19	52	11	28	-12	0.01	-0.60	0.01	6.96	98	22.96	85	85	56	0	7	1	0	
MI GRAND RAPIDS	35	22	53	18	29	-10	0.02	-0.76	0.02	6.17	70	24.18	76	86	58	0	6	1	0	
MI HOUGHTON LAKE	32	19	50	9	26	-10	0.07	-0.46	0.06	8.01	119	31.43	124	87	59	0	7	2	0	
MI LANSING	36	20	52	11	28	-10	0.03	-0.58	0.03	6.25	79	25.50	90	87	53	0	7	1	0	
MI MARQUETTE	28	18	46	12	23	-8	0.88	0.21	0.47	8.48	92	37.41	119	89	71	0	6	4	0	
MI MUSKEGON	34	23	49	15	28	-12	0.30	-0.44	0.19	6.35	77	23.75	84	85	52	0	7	2	0	
MI SAULT ST. MARIE	32	18	46	7	25	-9	0.52	-0.31	0.26	13.31	162	37.91	127	88	62	0	6	3	0	
MN ALEXANDRIA	27	14	34	7	20	-10	-	-	-	-	-	-	-	86	59	0	7	-	-	
MN DULUTH	26	14	43	2	20	-10	1.79	1.36	1.56	10.89	147	32.68	117	85	57	0	6	2	1	
MN INT'L FALLS	24	11	34	-3	17	-9	0.82	0.55	0.73	7.04	123	25.35	110	86	53	0	7	2	1	
MN MINNEAPOLIS	32	19	52	9	26	-8	2.83	2.48	1.56	7.47	130	22.39	84	81	56	0	6	3	2	
MN ROCHESTER	31	17	52	6	24	-10	1.77	1.39	1.68	7.05	106	26.69	95	89	59	0	6	4	2	
MS GREENWOOD	63	42	72	32	52	-3	-	-	-	-	-	-	-	90	42	0	1	-	-	
MS JACKSON	63	40	73	35	51	-4	0.01	-1.08	0.01	4.14	48	47.86	103	89	47	0	0	1	0	
MS MERIDIAN	63	38	73	32	51	-5	0.00	-1.02	0.00	7.93	91	50.37	104	91	38	0	1	0	0	
MO CAPE GIRARDEAU	43	33	56	27	38	-10	0.09	-0.83	0.09	10.87	126	36.97	90	86	54	0	4	1	0	
MO COLUMBIA	39	32	58	26	36	-9	0.93	0.19	0.91	12.48	140	37.31	108	88	62	0	5	3	1	
MO KANSAS CITY	40	29	59	25	35	-9	0.02	-0.42	0.02	3.77	41	31.55	89	88	66	0	6	1	0	
MO SAINT LOUIS	40	31	56	26	36	-12	0.11	-0.86	0.11	9.12	121	38.81	118	79	47	0	5	1	0	
MO SPRINGFIELD	42	33	52	26	38	-9	1.53	0.62	0.94	18.04	172	38.89	99	88	47	0	3	3	1	
MT BILLINGS	33	21	51	9	27	-8	0.47	0.28	0.41	2.86	90	11.43	82	96	69	0	7	2	0	
MT GLASGOW	21	12	29	-11	17	-13	0.81	0.75	0.48	3.82	216	9.19	87	93	73	0	7	4	0	
MT GREAT FALLS	29	17	45	1	23	-12	0.02	-0.12	0.02	1.99	86	8.84	61	96	75	0	7	1	0	
MT HAVRE	26	16	32	0	21	-9	0.04	-0.04	0.04	2.29	122	10.45	100	92	71	0	7	1	0	
MT HELENA	38	17	60	5	28	-6	0.00	-0.11	0.00	0.57	29	8.56	79	82	54	0	7	0	0	
MT KALISPELL	38	25	47	15	31	0	0.03	-0.27	0.02	4.00	145	20.06	142	93	67	0	7	2	0	
MT MILES CITY	29	19	36	3	24	-9	0.12	0.00	0.07	2.11	86	12.25	93	96	74	0	7	2	0	
MT MISSOULA	40	23	50	19	32	-1	0.13	-0.06	0.09	1.44	64	13.11	110	93	66	0	7	3	0	
NE GRAND ISLAND	35	24	57	19	30	-9	3.09	2.84	2.58	6.52	139	30.44	128	86	65	0	7	2	2	
NE LINCOLN	37	26	55	24	32	-8	1.15	0.85	1.13	5.58	89	34.14	127	89	61	0	7	2	1	
NE NORFOLK	31	23	52	20	27	-10	3.21	2.97	1.62	6.71	146	24.85	103	94	69	0	7	6	2	
NE NORTH PLATTE	36	22	48	15	29	-7	0.19	0.03	0.16	6.07	208	24.55	132	87	69	0	7	2	0	
NE OMAHA	38	26	57	23	32	-8	1.48	1.13	-	8.25	121	30.47	108	82	58	0	6	2	1	
NE SCOTTSBLUFF	39	21	63	12	30	-7	0.42	0.28	0.38	3.28	149	15.84	110	93	63	0	7	2	0	
NE VALENTINE	29	20	38	12	24	-13	0.28	0.07	0.29	6.05	150	16.78	78	93	75	0	7	1	0	
NV ELY	55	20	68	8	36	3	0.02	-0.15	0.02	1.08	46	5.96	64	88	30	0	7	1	0	
NV LAS VEGAS	70	48	77	39	59	3	0.00	-0.11	0.00	0.15	21	1.06	30	43	20	0	0	0	0	
NV RENO	59	28	70	19	43	3	0.00	-0.20	0.00	0.73	62	8.17	134	84	33	0	6	0	0	
NV WINNEMUCCA	56	21	67	11	39	1	0.02	-0.20	0.02	0.97	65	7.09	102	79	34	0	7	1	0	
NH CONCORD	40	16	50	5	28	-10	0.00	-0.85	0.00	11.26	141	38.59	122	89	34	0	7	0	0	
NJ ATLANTIC CITY	43	28	49	19	34	-12	0.00	-0.85	0.00	11.06	145	43.41	123	82	37	0	6	0	0	
NM ALBUQUERQUE	62	37	68	32	49	5	0.01	-0.08	0.01	3.10	142	8.93	108	55	19	0	1	1	0	
NM CLOVIS	64	39	75	34	52	4	-	-	-	-	-	-	-	94	37	0	0	-	-	
NM ROSWELL	71	37	77	30	64	3	-	-	-	-	-	-	-	78	22	0	3	-	-	
NY ALBANY	37	21	45	12	29	-12	0.02	-0.74	0.02	8.50	113	38.02	119	93	55	0	7	1	0	
NY BINGHAMTON	33	20	39	15	27	-12	0.13	-0.84	0.08	10.83	136	39.97	123	91	56	0	7	3	0	
NY BUFFALO	36	25	48	18	31	-10	0.37	-0.53	0.36	13.78	160	43.20	130	88	57	0	7	2	0	
NY NEW YORK	42	33	48	28	38	-10	0.00	-0.90	0.00	10.82	126	39.25	106	61	38	0	4	0	0	
NY ROCHESTER	36	23	46	18	30	-12	0.29	-0.40	0.13	12.57	181	40.16	143	95	55	0	7	3	0	
NY SYRACUSE	36	22	43	14	29	-12	0.55	-0.33	0.38	10.95	122	34.53	101	93	59	0	6	4	0	
NC ASHEVILLE	44	26	49	22	35	-13	0.01	-0.98	0.01	8.27	74	41.13	83	83	44	0	6	1	0	
NC CHARLOTTE	49	31	55	27	40	-13	0.00	-0.74	0.00	8.00	94	36.24	95	73	34	0	6	0	0	
NC GREENSBORO	44	27	47	25	36	-14	0.02	-0.67	0.02	16.29	189	45.72	120	78	45	0	6	1	0	
NC HATTERAS	50	43	52	40	46	-11	0.00	-1.17	0.00	12.03	93	-	-	86	48	0	0	0	0	
NC NEW BERN	52	33	55	29	43	-13	0.00	-0.73	0.00	15.04	156	51.47	105	80	35	0	2	0	0	
NC RALEIGH	48	29	52	25	38	-14	0.03	-0.66	0.03	22.65	299	52.96	144	80	40	0	6	1	0	
NC WILMINGTON	54	32	58	28	43	-12	0.00	-0.76	0.00	19.79	170	60.68	118	88	36	0	3	0	0	
ND BISMARCK	26	13	34	6	19	-10	0.15	0.04	0.12	5.08	192	18.81	127	87	62	0	7	2	0	
ND FARGO	26	10	33	1	18	-11	0.01	-0.16	0.01	3.25	79	12.86	69	86	57	0	7	1	0	
ND GRAND FORKS	24	9	32	0	17	-11	0.23	0.08	0.21	3.78	98	15.12	87	90	58	0	7	2	0	
ND WILLISTON	24	14	29	0	19	-9	0.13	0.02	0.11	3.04	130	11.54	89	88	60	0	7	2	0	
OH AKRON-CANTON	33	21	47	15	27	-16	0.00	-0.70	0.00	10.54	146	36.78	113	86	56	0	7	0	0	
OH CINCINNATI	39	23	55	16	31	-14	0.00	-0.82	0.00	7.86	104	44.83	123	80	43	0	7	0	0	
OH CLEVELAND	35	24	46	14	29	-14	0.59	-0.15	0.27	18.63	245	41.20	128	94	60	0	7	5	0	
OH COLUMBUS	38	24	52	19	31	-11	0.00	-0.76	0.00	7.81	109	40.72	122	81	47	0	7	0	0	
OH DAYTON	37	21	56	18	29	-14	0.00	-0.72	0.00	7.94	120	45.13	140	83	48	0	7	0	0	

Based on 1961-90 normals

Weather Data for the Week Ending November 16, 1996

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	.05 INCH OR MORE		
OK	38	21	53	14	28	-11	0.03	-0.62	0.02	5.81	91	25.90	90	88	66	0	7	2	0	0	
OK	34	21	49	13	28	-14	0.08	-0.65	0.08	11.36	148	37.24	113	89	55	0	7	1	0	0	
OK	68	41	87	35	49	-1	0.72	0.25	0.70	10.91	132	37.03	119	90	68	0	0	2	1	0	
OR	53	39	83	32	46	-5	1.87	1.13	1.84	18.39	163	29.81	80	91	98	0	1	2	1	0	
OR	55	44	80	38	49	2	2.34	-0.02	0.64	17.94	129	64.39	128	98	84	0	0	6	2	0	
OR	51	23	82	19	37	3	0.13	-0.17	0.06	1.74	91	9.94	121	98	50	0	7	3	0	0	
OR	57	37	86	30	47	3	0.44	-0.32	0.19	3.13	78	17.83	127	97	51	0	1	3	0	0	
OR	52	35	86	30	43	1	0.09	-0.28	0.06	1.86	82	10.71	110	93	88	0	2	1	0	0	
OR	56	46	82	38	50	4	1.28	0.04	0.44	10.20	143	42.28	153	96	75	0	0	5	0	0	
OR	56	44	83	40	50	4	1.28	-0.19	0.48	8.43	108	43.89	149	99	75	0	0	5	0	0	
PA	40	21	45	15	30	-13	0.04	-0.88	0.04	14.54	184	47.01	123	89	47	0	7	1	0	0	
PA	36	26	46	21	30	-14	0.86	-0.08	0.47	16.24	158	45.83	127	96	59	0	7	5	0	0	
PA	41	27	43	19	34	-11	0.00	-0.83	0.00	10.42	126	45.38	128	80	40	0	6	0	0	0	
PA	42	28	48	23	35	-11	0.00	-0.93	0.00	10.72	114	43.50	108	75	39	0	6	0	0	0	
PA	36	22	50	14	29	-14	0.03	-0.84	0.02	10.28	151	41.54	127	85	51	0	7	2	0	0	
PA	36	23	41	17	29	-13	0.10	-0.62	0.08	11.75	152	42.41	131	88	55	0	7	2	0	0	
RI	43	28	56	21	36	-9	0.00	-1.04	0.00	12.72	134	40.72	104	70	33	0	5	0	0	0	
SC	58	35	87	32	47	-12	0.00	-0.67	0.00	9.98	113	38.98	78	80	37	0	2	0	0	0	
SC	56	31	86	27	43	-12	0.00	-0.88	0.00	6.59	99	30.19	67	81	33	0	4	0	0	0	
SC	53	31	81	28	42	-14	-	-	-	-	-	-	-	86	33	0	6	-	-	-	
SD	50	31	68	27	41	-12	0.00	-0.83	0.00	7.44	75	45.01	99	79	41	0	6	0	0	0	
SD	27	13	34	5	20	-11	0.35	0.18	0.15	9.26	246	23.25	114	87	59	0	7	4	0	0	
SD	28	18	36	13	23	-10	0.17	0.00	0.07	5.22	146	18.20	94	86	90	0	7	4	0	0	
SD	27	20	32	14	23	-12	0.01	-0.12	0.01	3.81	144	18.94	119	95	78	0	7	1	0	0	
SD	28	17	33	13	22	-11	1.56	1.30	0.77	6.20	115	18.24	80	88	67	0	7	3	2	0	
TN	49	32	56	28	40	-11	0.18	-0.89	0.18	10.83	112	48.17	104	84	40	0	4	2	0	0	
TN	45	29	64	26	37	-12	0.34	-0.52	0.18	8.07	104	41.73	102	96	51	0	6	3	0	0	
TN	52	39	86	34	46	-8	0.48	-0.71	0.28	15.45	170	60.64	138	84	55	0	0	2	0	0	
TN	47	33	80	29	40	-11	0.37	-0.59	0.15	10.48	129	41.06	101	83	55	0	3	3	0	0	
TX	73	51	78	39	62	7	0.04	-0.31	0.04	9.35	143	28.15	115	88	58	0	0	1	0	0	
TX	63	37	73	28	50	4	0.37	0.21	0.37	3.10	83	19.63	104	93	48	0	4	1	0	0	
TX	77	56	79	43	66	5	0.44	-0.12	0.44	4.82	80	23.16	80	95	54	0	0	1	0	0	
TX	74	58	78	44	65	4	2.34	1.20	2.34	18.89	143	44.71	89	100	62	0	0	1	1	0	
TX	81	61	84	50	71	2	0.45	0.10	0.45	20.52	214	27.74	112	92	54	0	0	1	0	0	
TX	82	60	86	48	71	5	0.11	-0.28	0.06	4.22	46	17.13	61	87	51	0	0	3	0	0	
TX	77	58	79	43	67	7	0.00	-0.30	0.00	2.98	78	10.07	43	86	50	0	0	0	0	0	
TX	72	41	76	37	57	4	0.00	-0.11	0.00	1.24	46	8.94	110	38	18	0	0	0	0	0	
TX	70	54	74	44	62	7	0.26	-0.31	0.25	8.29	82	27.33	80	91	66	0	0	1	0	0	
TX	75	66	78	54	70	6	0.02	-0.77	0.02	7.24	70	28.98	78	88	65	0	0	1	0	0	
TX	77	55	80	42	66	5	0.04	-1.19	0.04	10.13	78	31.88	68	96	56	0	0	1	0	0	
TX	70	43	78	31	56	6	0.00	-0.17	0.00	0.82	19	13.19	74	87	39	0	2	0	0	0	
TX	74	47	79	32	60	7	0.00	-0.17	0.00	1.24	25	7.73	54	89	42	0	1	0	0	0	
TX	73	51	75	36	62	6	0.00	-0.25	0.00	5.48	86	20.17	104	88	53	0	0	0	0	0	
TX	78	57	81	42	68	7	0.42	-0.21	0.41	4.74	59	13.54	48	94	47	0	0	2	0	0	
TX	80	56	82	44	67	4	0.14	-0.73	0.14	6.00	47	22.82	56	98	47	0	0	1	0	0	
TX	75	57	79	40	66	8	0.18	-0.39	0.18	4.08	49	20.98	72	93	55	0	0	1	0	0	
TX	69	47	78	38	58	6	0.29	-0.10	0.29	7.58	100	20.49	78	86	54	0	0	1	0	0	
UT	59	29	71	25	44	4	0.05	-0.20	0.05	2.11	84	10.51	102	77	24	0	5	1	0	0	
UT	57	33	65	28	45	3	0.11	-0.19	0.09	3.13	91	14.52	102	86	38	0	3	2	0	0	
VT	33	19	46	9	26	-11	0.26	-0.48	0.17	8.31	106	37.13	121	88	56	0	7	3	0	0	
VA	45	36	48	32	41	-12	0.00	-0.68	0.00	8.48	100	48.77	117	73	46	0	1	0	0	0	
VA	44	26	48	22	35	-15	0.00	-0.74	0.00	15.67	181	47.33	122	78	36	0	6	0	0	0	
VA	40	25	41	20	33	-16	0.08	-0.67	0.08	10.46	115	46.53	126	75	40	0	7	1	0	0	
WA	53	43	82	35	48	4	2.79	-0.65	1.01	22.93	98	74.73	90	96	84	0	0	6	2	0	
WA	51	44	58	37	47	2	1.28	-0.09	0.32	8.87	108	36.70	128	98	82	0	0	6	0	0	
WA	43	32	49	27	37	2	0.52	0.02	0.39	4.55	163	17.46	134	99	88	0	4	3	0	0	
WA	52	29	58	22	41	2	0.09	-0.15	0.04	0.96	72	6.49	108	95	61	0	5	3	0	0	
WV	34	22	44	16	28	-16	0.09	-0.60	0.05	10.44	134	49.87	137	87	58	0	7	3	0	0	
WV	40	25	56	20	33	-15	0.01	-0.84	0.01	11.80	148	51.40	137	83	45	0	7	1	0	0	
WV	40	25	55	20	33	-12	0.00	-0.87	0.00	8.04	99	45.22	118	83	46	0	7	0	0	0	
WV	39	24	51	16	32	-13	0.00	-0.63	0.00	8.92	126	43.73	120	91	47	0	7	0	0	0	
WI	35	19	54	8	27	-8	0.00	-0.52	0.00	4.28	63	22.70	86	78	47	0	6	0	0	0	
WI	34	20	57	9	27	-9	2.22	1.81	1.51	7.31	105	26.76	94	83	44	0	6	-	-	-	
WI	34	19	56	8	27	-11	0.02	-0.48	0.02	4.35	80	27.96	94	79	50	0	6	1	0	0	
WI	36	24	51	17	30	-9	0.00	-0.58	0.00	4.85	88	20.59	70	89	47	0	6	0	0	0	
WY	32	18	52	9	25	-8	1.06	0.59	0.82	7.35	92	32.62	107	78	44	0	6	2	1	0	
WY	46	22	60	1	34	0	0.27	0.06	0.18	2.68	115	9.62	84	89	48	0	6	2	0	0	
WY	46	22	64	7	34	-2	0.18	0.05	0.17	3.02	132	15.46	113	83	45	0	7	2	0	0	
WY	47	26	66	9	37	5	0.20	0.01	0.20	1.70	83	8.09	67	82	49	0	6	1	0	0	
PR	36	24	53	7	30	-3	0.26	0.07	0.16	2.52	84	11.96	89	92	70	0	7	3	0	0	
PR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Based on 1961-90 normals

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

# National Agricultural Summary

November 11 - 17, 1996

## HIGHLIGHTS

Wet weather across the central Great Plains late in the week slowed row-crop harvest activity and prevented producers from completing small grain seeding. Freezing rain and snow in parts of the western Corn Belt brought row-crop harvest to a halt and reduced fall tillage and fertilizer application. Wet weather and poor drying conditions in the middle Mississippi Valley limited the row-crop harvest. Blizzard conditions in the Dakotas halted harvests, leaving some row crops unharvested until spring. In the Great Lakes region, farmers hurried to chisel their fields before a

deep frost occurs. Surplus soil moisture in the Delta caused harvests to fall behind schedule. Producers in the Ohio Valley struggled with muddy fields as they attempted to finish combining remaining row crops. Dry, but colder-than-normal weather in the Southeast did not prevent producers from entering fields to resume seeding small grains and harvesting row crops. Heavy rains in the Pacific Northwest failed to deter the active Christmas tree harvest. Blowing sand damaged some vegetables in Florida, where gusty winds scarred fruit and damaged some vine crops.

The winter wheat crop in the 19 major producing States was 93 percent (%) emerged, up 4 percentage points from last week and 6 points ahead of the 5-year average. In Kansas, wet weather prevented wheat seeding in some fields. In the Ohio Valley, low temperatures and muddy fields brought an end to wheat seedings. Producers in the Dakotas were concerned that short wheat stands may be susceptible to blow-out during the winter months. Snow in parts of Montana provided good cover for winter wheat. The rain and snow in the central Great Plains aided the wheat crop entering dormancy. Wheat acreage, 99% emerged in Texas, was 21 points ahead of the average.

Corn harvested at 88% complete was up 9 points from last week and 1 point ahead of normal. In the Midwest, lodging caused by the previous week's high winds forced producers to run their combines slower. High corn-moisture levels in the upper Midwest slowed the harvest. The Indiana corn harvest at 78% complete was 11 days behind the average. Corn harvested in Ohio, at 61% complete, was 20 points behind the average.

Cotton acreage harvested was estimated at 77%, up 8 points from last week, and 1 point ahead of the average. Cotton growers in Oklahoma

harvested 35% of their acreage, up 7 points from the previous week, but 17 points behind normal. The cotton harvest was winding down in the San Joaquin and Sacramento Valleys, but growers were concerned with lower quality due to lint stained by rain. In the Delta, producers were busy cutting stalks and disking fields to control weevil populations. In Texas, the cotton harvest was delayed by damp mornings, with some producers still waiting for a freeze to aid defoliation.

Sorghum harvested at 92% complete was up 7 points from the previous week and 1 point ahead of the average. In Oklahoma, sorghum harvested at 83% complete was up 14 points from last week. The sorghum harvest in Texas at 94% complete neared completion, but some late-planted fields in northern Texas remained too green for harvest.

Soybean acreage harvested, at 92%, was up 3 points from last week but 3 points behind the average. In Tennessee, the soybean harvest was 59% complete, 19 points behind normal, due to wet field conditions. Dry weather in the Southeast allowed soybean harvest activity to progress rapidly. Soybeans harvested in Georgia at 69% complete was nearly a week ahead of normal.

Corn Percent Harvested				
	Nov 17 1996	Prev Week	Prev Year	5-Yr Avg
CO	96	94	85	86
GA	100	100	100	100
IL	92	84	99	92
IN	78	65	98	86
IA	91	80	88	87
KS	98	97	99	96
KY	96	93	97	98
MI	72	52	99	70
MN	95	88	98	88
MO	89	84	92	89
NE	93	86	94	87
NC	100	100	100	98
OH	61	51	95	81
PA	71	59	90	72
SD	91	78	92	82
TX	100	100	100	100
WI	78	62	94	78
ALL	88	79	95	87
These 17 States produced 93% of the 1995 corn crop.				

Cotton Percent Harvested				
	Nov 17 1996	Prev Week	Prev Year	5-Yr Avg
AL	86	82	91	85
AZ	74	63	74	88
AR	93	91	99	94
CA	85	75	81	92
GA	82	76	81	75
LA	100	100	100	97
MS	98	96	100	95
MO	80	80	95	93
NM	75	62	64	61
NC	79	73	71	74
OK	35	28	31	52
SC	90	83	69	77
TN	92	87	88	89
TX	60	47	58	59
ALL	77	69	76	76
These 14 States produced 99% of the 1995 cotton crop.				

Sorghum Percent Harvested				
	Nov 17 1996	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CO	87	84	89	77
IL	80	71	95	94
KS	94	86	99	89
LA	100	100	100	100
MS	100	100	100	100
MO	88	85	92	91
NE	88	80	100	96
NM	45	38	62	62
OK	83	69	83	79
SD	95	91	90	94
TX	94	89	97	95
ALL	92	85	97	91
These 12 States produced 99% of the 1995 sorghum 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 5.8. Topsoil 22% short, 71% adequate, 7% surplus. Wheat planted 56%, 59% 1995, 64% avg. Livestock 3% poor, 26% fair, 63% good, 8% excellent. Clear weather provided excellent harvest conditions.

**ARIZONA:** Our cotton harvest continues active, many fields awaiting harvest. Alfalfa 1% poor, 43% fair, 48% good, 8% excellent. Harvest activity 19% light, 38% active, 43% finished or not active. Sheeping off light, increasing as final cuttings are reached. Harvest of iceberg lettuce continued to increase seasonally in western fields, declining in the eastern production area. Western growers, central growers cut leaf, Romaine lettuce. Cantaloupe, honeydews were also being shipped from these two areas; lighter volume of watermelons shipped from western fields. Central area growers continued to harvest broccoli, bok choy, cabbage, greens, kale, green onions, radishes. First endive, escarole, sweet corn was harvested in central fields. Spinach was available from western growers. Lemons, grapefruit, navels were picked, shipped from both western, central production areas. Harvest of the States pecan crop is expected to continue light for another two to three weeks before taking off. Eastern apple harvest is progressing.

**ARKANSAS:** Main farming activities: Ginning cotton, planting wheat, harvesting cotton, soybeans. Excessive rainfall continued to delay fieldwork. Soybean harvest continued in a few counties. Some harvest progress was made. Harvest continued to fall behind schedule due to surplus soil moisture. Flooding was reported in soybean fields near the White River Bottom. Soybeans near the Cache River were also threatened. Approximately 73% of beans have been harvested compared with 94% 1995, 88% avg. Cotton harvest, ginning progressed in several counties. Approximately 93% of cotton has been harvested compared with 99% 1995, 94% avg. Wheat planting progressed slightly in many counties. Surplus soil moisture was reported statewide in pasture. Livestock continued to be in good condition across the State. Weaning, vaccinating, selling cattle continued.

**CALIFORNIA:** Fieldwork progressed normally until late week rainfall halted planting, harvest activity in most areas. Rice harvest was virtually complete. Rice stubble was re-flooded, baled for straw or burned where conditions permitted. Cotton harvest was winding down in the San Joaquin, Sacramento valleys. Most harvested cotton fields were immediately shredded, disced for pink bollworm control. Many growers expressed concern regarding potential quality grade reductions due to rain stained lint. Corn was harvested for grain or silage. Black eye bean harvest neared completion. Some windrowed bean fields showed discoloration from the excessive moisture. Seeding of small grains, new alfalfa, winter forages continued. Earlier seeded dryland small grain fields grew rapidly. Grain sorghum was harvested in the southern San Joaquin Valley. Sugar beets were planted in Fresno County. Alfalfa was cut for hay or green chopped. Windrowed hay suffered rain damage in many areas, some fields were considered a total loss. Most final cuttings were being green chopped. Weed treatments were applied to alfalfa fields in the Sacramento Valley before the rain. Thompson seedless table grape harvest was nearing completion in Fresno County. Red crimson, Emperor varieties were harvested. Walnut harvest was nearing completion. Stone fruit, almond orchards were pruned. Orchard floors were sprayed in preparation for cover crop planting. Fuji, Granny Smith, Gala variety apple harvests continued in the San Joaquin Valley. Olive, avocado, kiwifruit, pomegranate, quince, persimmon harvesting continued in the San Joaquin, Sacramento valleys. Picking of lemons, mandarins, grapefruit, pummelos continued. Valencia orange harvest was winding down. Navel orange harvest continued with maturation about 10-15 days ahead of schedule in the San Joaquin Valley. Lettuce harvest continued in the San Joaquin Valley and Santa Maria-Oceano area. Broccoli, cauliflower were harvested in the Salinas-Watsonville area, San Joaquin Valley. Sweet corn was harvested in the San Joaquin Valley. Carrot harvest slowed in Fresno, Kern Counties. Green beans were harvested in Tulare County. Harvest of brussels

sprouts progressed in Monterey County. Onion harvest continued in the Antelope Valley and in Monterey County. Harvest of fresh market tomatoes, squash, and cucumbers progressed in the San Joaquin Valley. Garlic was planted in the San Joaquin Valley. Sweetpotato digging in Merced, Stanislaus Counties was slowing. Cantaloupe, honeydew melon harvest was near completion in the Imperial, Coachella valleys. Supplemental feeding continued with spotty vegetative growth from the last rainfall reported. Additional rainfall was needed to spur, maintain growth of range, pastures. Sheep were grazing sudan grass, alfalfa pastures. Cattle were reported to be in good condition. Many young calves have been observed on pastures as fall calving continued.

**COLORADO:** Days suitable for fieldwork 5.5. Topsoil 10% very short, 27% short, 62% adequate, 1% surplus. Subsoil 13% very short, 25% short, 61% adequate, 1% surplus. Pasture feed, range 3% very poor, 8% poor, 24% fair, 60% good, 5% excellent.

**DELAWARE:** Days suitable for fieldwork 5.3. Topsoil 93% adequate, 7% surplus. Subsoil 1% short, 98% adequate, 1% surplus. Corn 95% harvested for grain, 100% 1995, 98% avg. Soybeans 57% harvested, 66% 1995, 73% avg. Other hay 87% 4th cutting, 93% avg. Barley 10% fair, 90% good. Winter wheat 9% fair, 89% good, 2% excellent; 84% planted, 86% 1995, 88% avg. Hay supplies 1% very short, 27% short, 71% adequate, 1% surplus. Activities: Harvest of field crops, hay, planting small grain crops winding down; preparation for winter.

**FLORIDA:** Topsoil short to adequate throughout State with scattered areas of very short. Peanut harvest complete. Cotton harvest active. Haying complete. Soybean virtually complete. Sugarcane harvest, planting active. Strong, gusty winds, blowing sand damaged some vegetables with fruit scarred, plants dehydrated, leaves burned, vines broken in many areas. Vegetable harvesting continued with peppers, tomatoes, sweet corn, cucumbers, snap beans, squash, eggplant, radishes, cabbage, lettuce, endive, escarole, okra, parsley, peas, strawberries, watermelons available. Most citrus areas dry. Many caretakers irrigating to maintain good tree, fruit condition. Early fruit in good condition. Harvest progressing well. Some crops going directly to processing. Caretakers cutting cover crops, few sprayings, fertilizings. Pasture feed poor 30%, fair 50%, good 20%. Rain needed for winter grain pastures north, central. Small grain winter pasture being planted north. Small grain pasture growth seasonally behind Panhandle. Light showers helped pastures southeast. Condition of cattle herds fair 50%, good 50%.

**GEORGIA:** Days suitable for fieldwork 5.7. Soil moisture 5% very short, 29% short, 62% adequate, 4% surplus. Cotton 2% very poor, 10% poor, 31% fair, 44% good, 13% excellent; 99% bolls open, 99% 1995, 99% avg. Peanuts 99% threshed, 99% 1995, 99% avg. Rye 86% planted, 92% 1995, 85% avg. Sorghum 4% very poor, 8% poor, 4% fair, 45% good, 3% excellent; 87% harvested for grain, 92% 1995, 92% avg. Soybeans 1% very poor, 4% poor, 39% fair, 48% good, 8% excellent. Wheat 27% planted, 39% 1995, 29% avg. Other small grains 68% planted, 73% 1995, 67% avg. Onions 19% fair, 81% good; 30% transplanted, 19% 1995, 23% avg. Pecans 1% very poor, 16% poor, 43% fair, 34% good, 6% excellent; 58% harvested, 52% 1995, 52% avg. Pasture feed 2% very poor, 15% poor, 45% fair, 36% good, 2% excellent. Good week for field activities. Most stations no rain, other stations very light rain. Temperatures cooler than normal, several nights below freezing most of State. Peanut harvest near completion. Cotton harvest week ahead of normal. Soybean harvest very active, now nearly week ahead of normal. Wheat seeding near average, planting other small grains slightly ahead. Fall pastures providing below normal feed increasing need for supplemental feed. Pecan harvest moving rapidly. Activities: Preparing seedbeds for planting small grains, replanting early planted small grains in drier areas, planning tobacco beds, transplanting onions, taking soil samples, and working harvested cotton ground.

**HAWAII:** Another round of unstable weather swept the State. Heavy rains were concentrated on western islands of Kauai and Oahu. Losses are expected to mount, final assessment is pending reports from farmers and field observations. Eastern half of State experienced less intense rainfall. Losses are expected to be light on islands of Maui, Molokai, Hawaii. Rainy weather proved a benefit to farmers on Maui, Hawaii. Rainfall was sufficient to reduce mandatory water restrictions that were in effect in major vegetable growing areas. More rain is needed. Pasture conditions improved; rejuvenated grass growth noted in previously dry areas. Banana condition varies fair to good. Shipments will be steady. Overall papaya production down seasonally and due to increased presence of disease. Crop condition was aided in major growing areas by moderate rains. Head cabbage supplies will remain heavy; not seriously affected by the rains. Tomato production steady. Crop condition varies from fair to good.

**IDAHO:** Days suitable for fieldwork 5.2. Snow, rain fell toward the end of the week. Topsoil 1% very short, 19% short, 71% adequate, 9% surplus. Sugar beets harvested 97%, 99% 1995, 98% avg. Corn harvested for grain 71%. Hay, roughage supply 12% short, 85% adequate, 3% surplus. Activities: Weaning calves, pregnancy testing cows, fall fieldwork, harvesting corn for grain.

**ILLINOIS:** Days suitable for fieldwork 4.8. Topsoil 21% surplus, 67% adequate, 11% short, 1% very short. Rain central, southern districts in the middle of the week brought the harvest to a halt, by the weekend 84% of the corn crop had been harvested compared with 97% 1995, 88% avg. Soybean harvest 95% complete compared with 100% 1995, 98% avg. Rain has also slowed fall tillage, fertilizer applications. Lodging caused by high winds the previous week forced farmers to slow their combining. Corn in the northern districts still had a high moisture content. Wheat seeding continued with 97% planted, 99% 1995, 96% avg. Condition 17% excellent, 60% good, 20% fair, 1% poor, 2% very poor.

**INDIANA:** Days suitable for fieldwork 4.4. Topsoil 1% very short, 3% short, 81% adequate, 15% surplus. Subsoil 3% very short, 6% short, 84% adequate, 7% surplus. Rain, snow slowed corn, soybean harvest, some areas. Many farmers have completed corn, soybean harvest. Average moisture content of harvested corn 22%, soybeans 13.5%. Percent of corn harvested by region: 81% north, 74% central, 80% south. Harvesting of corn remains 11 days behind average. Percent of soybeans harvested by region: 98% north, 95% central, 91% south. Activities: Seeding winter wheat, hauling grain, spreading fertilizer and lime, fall tillage, tiling, cleaning, and repair of equipment, chopping stalks, hauling manure, and caring for livestock.

**IOWA:** Days suitable for fieldwork 5.2. Topsoil very short 1%, short 6%, adequate 80%, surplus 13%. Subsoil very short 1%, short 18%, adequate 76%, surplus 5%. Farmers made good progress towards completing the fall harvest, despite a winter storm that rolled through late last week. According to reporters, the freezing rain and cold temperatures will greatly reduce fall tillage and fertilizer applications. Grain movement 13% none, 44% light, 40% moderate, 3% heavy. Grain storage availability off-farm 12% short, 82% adequate, 6% surplus; on-farm 6% short, 87% adequate, 7% surplus. Completion of 1997 row crop fall tillage 33%, 41% 1995, 36% avg.; fall fertilizer applied 31%, 29% 1995, 28% avg. Livestock in good condition.

**KANSAS:** Days suitable for fieldwork 3.4. Topsoil 12% short, 70% adequate, 18% surplus. Subsoil 10% short, 81% adequate, 9% surplus. Wet weather prevented further progress of wheat seeding, slowed fall crop harvest. Corn, sorghum harvest are about on par with the average, harvest of soybeans is somewhat behind average progress. Wheat diseases such as stem rust, wheat streak mosaic, septoria have been found over much of the State. Pastures are in good condition for this time of year, but supplemental feeding is necessary in most cases. Stockmen continue to move cattle to crop stubble. Activities: Weaning calves, fall harvest.

**KENTUCKY:** Days suitable for fieldwork 3.5. Topsoil 2% short, 71% adequate, 27% surplus. Subsoil 6% short, 75% adequate, 19% surplus. Farmers returned to mostly muddy fields attempting to combine

soybeans and remaining corn. Producers stripped burley tobacco and took the crop to warehouses in preparation for the 25th opening day of the market. Burley tobacco stripping continued active as moisture levels kept the crop in case. Crop 42% stripped, 49% 1995, 43% avg. Stripped tobacco 1% very poor, 3% poor, 23% fair, 60% good, 13% excellent. The summer blue mold activity affected the weight, quality of the burley tobacco across Central, East leaving yields highly variable. Many corn growers switched to combining soybeans before attempting to finish the corn harvest. Soybean harvest advanced slowly, as muddy fields made the harvest difficult as equipment left ruts in many fields. Winter wheat seeding continued to be hampered by cold, wet conditions, 92% planted, 94% 1995, equal avg. Seeded wheat 2% poor, 16% fair, 59% good, 23% excellent. Pasture feed 1% very poor, 11% poor, 33% fair, 48% good, 7% excellent. Livestock in generally good condition. Freezing temperatures brought the first thin coating of ice to some stock ponds.

**LOUISIANA:** Days suitable for fieldwork 5.7. Soil moisture 4% short, 77% adequate, 19% surplus. Cotton farmers were busy cutting stalks, discing fields to control weevil populations. Pecans 3% very poor, 8% poor, 45% fair, 40% good, 4% excellent; 62% harvested, 50% 1995, 46% avg. Soybean harvest neared completion as drier conditions allowed farmers back into their fields. Sugarcane 1% very poor, 5% poor, 34% fair, 44% good, 16% excellent; 44% harvested, 48% 1995, 52% avg. Lodging continued to hamper sugarcane harvest. Sweetpotatoes 94% harvested, 92% 1995, 92% avg. Sweetpotatoes continued to show damage from excessive soil moisture experienced earlier. Wheat 64% planted, 80% 1995, 68% avg.; 30% emerged, 57% 1995, 53% avg. Winter wheat planting picked up with better weather. Livestock 4% poor, 33% fair, 59% good, 4% excellent. Cattlemen were busy working their herds. Crawfish producers continued monitoring water quality. Vegetables 9% poor, 40% fair, 49% good, 2% excellent. Pasture feed 1% very poor, 9% poor, 37% fair, 50% good, 3% excellent.

**MARYLAND:** Days suitable for fieldwork 5.1. Topsoil 1% short, 94% adequate, 5% surplus. Subsoil 1% short, 91% adequate, 8% surplus. Corn 93% harvested for grain, 97% 1995, 91% avg. Soybeans 79% harvested, 73% 1995, 75% avg. Alfalfa hay 84% fifth cutting, 56% 1995, 76% avg. Other hay 94% 4th cutting, 97% 1995, 91% avg. Hay supplies 5% very short, 6% short, 88% adequate, 1% surplus. Barley 7% fair, 90% good, 3% excellent. Rye 1% very poor, 1% poor, 9% fair, 86% good, 3% excellent; 92% planted, 91% 1995, 93% avg. Winter wheat 24% fair, 72% good, 4% excellent; 92% planted, 91% 1995, 89% avg. Tobacco stripped 18%, 29% 1995, 26% avg. Activities: Small grain planting winding down, harvesting field crops also winding down; preparation for winter.

**MICHIGAN:** Snow prevented many farmers from harvesting their corn, tilling in the northern parts of the State, while southern areas race with Old Man Winter to finish harvesting crops that were still in the fields. Topsoil 2% short, 74% adequate, 24% surplus. Subsoil 2% very short, 8% short, 66% adequate, 24% surplus.

**MINNESOTA:** Days suitable for fieldwork 3.5. Topsoil 4% short, 74% adequate, 22% surplus. Subsoil 2% very short, 26% short, 63% adequate, 9% surplus. Corn 95% harvested, 98% 1995, 88% avg.; 64% stubble worked, 78% 1995, 67% avg.; 19% moisture content, 17% 1995, 21% avg. Soybeans 99% harvested, 98% 1995, 99% avg.

**MISSISSIPPI:** Days suitable for fieldwork 4.8. Soil moisture 2% very short, 8% short, 61% adequate, 29% surplus. Soybeans 94% harvested, 97% 1995, 87% avg.; wheat 94% planted, 90% 1995, 83% avg.; 87% emerged, 76% 1995, 71% avg.; 1% poor, 26% fair, 69% good, 4% excellent. Pecans 40% harvested, 44% 1995, 48% avg.; 14% very poor, 15% poor, 27% fair, 40% good, 4% excellent. Sweetpotatoes 99% harvested, 100% 1995, 99% avg. Cattle conditions 1% very poor, 3% poor, 20% fair, 67% good, 9% excellent. Main farming activities: Harvesting cotton, soybeans. Row crop producers are cleaning equipment, making plans for next year's growing season. Cattlemen are making plans for winter grazing, feeding.

**MISSOURI:** Days suitable for fieldwork 3.1. Topsoil 2% short, 63% adequate, 35% surplus. Rain, poor drying weather again limited row crop harvesting, particularly in the Bootheel. Corn harvest progress ranges from 82% northwest, 85% northeast, to complete in southern

districts. Soybean harvest ranges from 65% southeast to 95% northeast, southwest. Sorghum harvest varies from about 65% central to virtual completion southwest, southeast. Winter wheat seeding 91%, 99% 1995, 92% avg. Percent of ground worked at least once for next year's spring crops 34%, 35% 1995, 33% avg. Pasture feed, range 1% very poor, 9% poor, 36% fair, 49% good, 5% excellent.

**MONTANA:** Days suitable for fieldwork 2.2. Topsoil 8% very short, 37% short, 47% adequate, 8% surplus. Subsoil 20% very short, 42% short, 38% adequate. Many areas of State received snow providing a good cover for the winter wheat. Few farmers working on fall fieldwork. Cattle, calves moved from summer ranges, 90%. Sheep, lambs moved from summer ranges 94%.

**NEBRASKA:** Days suitable for fieldwork 4.8. Topsoil 22% short, 74% adequate, 4% surplus. Subsoil 19% short, 78% adequate, 3% surplus. Fall harvest, tillage operations were slowed or halted the later part of last week due to winter-like weather conditions. By the later part of last week, freezing rain, snow across the State had affected most producers with unfinished fieldwork. Corn 93% harvested, 94% 1995, 87% avg.; harvest activities were most advanced in south central counties with 98% combined. Sorghum 88% harvested, 100% 1995, 96% avg.; producers in the southeast counties had the largest number of fields remaining to be harvested; heavy rains on 9th will further delay harvest completion. Wheat 3% poor, 28% fair, 63% good, 6% excellent; rain, snow received last week should benefit the crop prior to entering dormancy. Activities: Applying fertilizer, fencing stalks, and working cattle.

**NEVADA:** Fall seeded grains showed good growth under fair weather, frost damage from two weeks ago becoming more apparent in some northern fields. Grain crops reported to be in fair to good condition. Irrigation season over in most areas. Pistachio nut harvest continued, pecan harvest began extreme south. Final irrigation of hay fields being applied. Alfalfa fields being grazed. Bermuda pastures in extreme south were being over seeded with rye to provide green winter forage. Rains improved palatability of fall pastures for cattle. Pregnancy testing cows, weaning, marketing calves. Most lambs marketed or shipped to feedlots. Main farm, ranch activities: Finishing harvests, marketing calves, working livestock.

**NEW ENGLAND:** Major farm activities: Farmers preparing fields for winter by harrowing, spreading manure on well drained soils. Some corn for grain being chopped. Cleaning barnyards, emptying manure pits to prepare for winter.

**NEW JERSEY:** Days suitable for fieldwork 6. Harvesting of beets, cabbage, endive, escarole, lettuce, field corn, soybeans reported. Limited planting of cover crops continues. Pastures remain in good condition.

**NEW MEXICO:** Days suitable for fieldwork 6.4. Soil 7% very short, 39% short, 52% adequate, 2% surplus. Winter wheat 1% very poor, 1% poor, 31% fair, 64% good, 3% excellent; 52% of the crop being grazed. Corn 2% fair, 81% good, 17% excellent; harvest completion for grain is 92%. Cotton 1% very poor, 2% poor, 21% fair, 62% good, 14% excellent; cotton harvested 75%, 64% 1995, 61% avg. Sorghum 26% poor, 41% fair, 33% good; mature 95%, 90% 1995, 98% avg.; harvested 45%. Chile 1% poor, 16% fair, 68% good, 15% excellent; red chile harvest is 57% complete. Lettuce 5% poor, 1% fair, 24% good, 70% excellent; harvest 99% complete. Onion 1% fair, 59% good, 40% excellent. Planting is 80% complete. Pecan 1% poor, 29% fair, 55% good, 15% excellent; harvest 8% complete. Cattle 1% very poor, 5% poor, 30% fair, 61% good, 3% excellent; sheep 5% very poor, 8% poor, 36% fair, 46% good, 5% excellent. Range, pasture feed 4% very poor, 18% poor, 39% fair, 36% good, 3% excellent.

**NEW YORK:** Corn harvest progressed on fields dry enough to support machinery. Apples, potatoes being graded and packed. Cider making continued. Heavy rainfall caused localized flooding in northern areas. Milk was dumped due to washed out roads. Orchard clean-up work active. Machinery being prepared for winter storage.

**NORTH CAROLINA:** Days suitable for fieldwork 5.4. Soil moisture 2% short, 84% adequate, 14% surplus. Colder than normal temperatures could not keep farmers out of the fields. Most seedings, harvestings continue to progress on or ahead of schedule. Oats planted 78%, 64% 1995, 77% avg.; barley planted 88%, 83% 1995, 85% avg.; rye planted 77%, 77% 1995, 81% avg.; sorghum harvested 93%, 82% 1995, 88% avg.; crop conditions: oats 3% poor, 14% fair, 81% good, 2% excellent; barley 2% poor, 16% fair, 75% good, 7% excellent; rye 5% poor, 11% fair, 65% good, 19% excellent; pasture feed 3% very poor, 15% poor, 38% fair, 35% good, 9% excellent; cotton 1% very poor, 5% poor, 27% fair, 60% good, 7% excellent; soybeans 1% very poor, 9% poor, 36% fair, 52% good, 2% excellent. Activities for the week: Seeding small grains; defoliating, harvesting cotton; harvesting soybeans, sorghum; maintaining pastures; tending livestock; repairing equipment; general farm maintenance.

**NORTH DAKOTA:** General fieldwork ended for the year across the State with snow storms blanketing the areas bypassed the previous week, including the east central, south central, southeast districts. Producers in some central areas are hoping to finish harvest of the few sunflower fields left. Livestock have been brought in from pasture earlier than anticipated, many producers are hauling hay. Other activities included: Weaning calves, selling livestock, preparing for winter.

**OHIO:** Days suitable for fieldwork 4.0. Topsoil 70% adequate, 30% surplus. Field activities limited by rain, wet fields for 4th consecutive week. Soybean harvest is 90% complete; 100% normal. Cold temperatures, muddy fields have put an end to winter wheat seedings. Pasture feed mostly fair, good condition. Livestock 1% very poor, 3% poor, 28% fair, 54% good, 14% excellent.

**OKLAHOMA:** Days suitable for fieldwork 4.2. Topsoil 13% short, 76% adequate, 11% surplus. Subsoil 4% short, 92% adequate, 4% surplus. Wheat 16% grazed, 5% 1995, 13% avg. Oats 84% planted, 71% 1995, 77% avg.; 60% up-to-stand, 49% 1995, 64% avg. Soybeans 86% harvested, 81% 1995, 80% avg. Peanuts 82% combined, 90% 1995, NA avg. Alfalfa 2% very poor, 2% poor, 27% fair, 63% good, 6% excellent; Alfalfa 88% 5th cutting, 72% 1995, 84% avg.; 23% 6th cutting, 12% 1995, 17% avg. Livestock 1% poor, 16% fair, 74% good, 9% excellent. Feeder steers and heifers were \$1/cwt to \$3/cwt higher.

**OREGON:** Activities: Sugar beet harvest winding down Klamath Basin, Malheur County. Fall nursery planting, digging, container movement continued. Live Christmas trees baling continued. Christmas tree sales strong, domestic sale preparation full swing. Potato, onion harvest nearly completed, east. Willamette Valley: Broccoli, carrot, cauliflower harvests winding down, vineyard harvest, crush winding down. Pear, apple harvest winding down, Hood, Willamette, Rogue river valleys. Cattle, sheep continued good/excellent. Pregnancy checking, vaccinating, weaning underway, market cattle being shipped. Fall calving continued. Eastern cattle mostly in winter quarters. Western pastures greening, very wet conditions.

**PENNSYLVANIA:** Days suitable for fieldwork 4.6. Soil moisture 60% adequate, 40% surplus. Fair week for fieldwork. Some fields in the northwestern counties were covered with snow. Snow cover slowed harvest in these areas, corn, soybean harvest were very active over the rest of the State. Lodging of corn was a problem for some farmers. Yields were generally good. Poor yields were reported in low lying areas. Soybean harvest 75% complete, 79% 1995, 78% avg. Fall plowing 86% complete, 90% 1995, 93% avg. Wheat emerged 81% complete. Barley emerged 92% complete. Alfalfa 4th cutting 88% complete, 87% 1995, 89% avg. Quality of hay made 2% very poor, 32% poor, 36% fair, 29% good, 1% excellent. Activities: Harvesting corn and soybeans; some hay making; fixing fences; hauling manure; caring for livestock; and cleaning and storing equipment.

**SOUTH CAROLINA:** Days suitable for fieldwork 6.0. Soil moisture 2% very short, 17% short, 80% adequate, 1% surplus. Sorghum 99% harvested, 78% 1995, 82% avg.; 1% poor, 13% fair, 60% good, 26% excellent. Sweetpotatoes 87% harvested, 59% 1995, 76% avg.; 11% poor, 42% fair, 47% good. Apples 100% harvested, 96% 1995, 99% avg.; 50% very poor, 40% poor, 10% fair. Small Grains, winter grazing planting ahead of normal; fair to good condition. Pastures, livestock, fair to mostly good condition.

**SOUTH DAKOTA:** Days suitable for fieldwork 3.6. Topsoil 76% adequate, 24% surplus. Subsoil 1% short, 79% adequate, 20% surplus. Snow, freezing rain halted harvesting, might leave some row crops unharvested until Spring. Some areas of the State received over a foot of snow. Some producers are still waiting for their corn to field-dry. Producers are concerned that the shorter winter wheat growth could result in more acres blowing-out through the Winter. Livestock 11% fair, 70% good, 19% excellent. More cattle were moved to cornstalks as producers were completing the corn harvest, fencing fields in. Stock water supplies 1% short, 86% adequate, 13% surplus.

**TENNESSEE:** Days suitable for fieldwork 3.0. Topsoil 49% adequate, 51% surplus. Subsoil 1% short, 56% adequate, 43% surplus. Harvest progress, fall wheat seedings slowed in western areas due to rain for the 4th consecutive week. Tobacco 67% burley stripped, 70% 1995, 66% avg. Wheat 15% fair, 57% good, 28% excellent; 77% seeded, 82% 1995, 84% avg. Pasture feed 4% poor, 27% fair, 57% good, 12% excellent.

**TEXAS:** Cloudy, damp conditions covered most of northern and plains areas during the week, while dry, windy conditions dominated weather in the central and southern areas. A late-week cold front, however, did bring scattered showers to some central areas along with lower temperatures. Harvest operations in the plains made progress, mostly in the afternoons. Small grain fields providing good grazing. However, rain is needed for further progress. Final harvest operations continued in parts of the north-central area. Growth of cool season grasses in pastures across State remained good. Livestock conditions held steady.

**Crops:** Small grain irrigation activity remained active in the High Plains with dryland fields in need of moisture. Many fields in the north-central area are beginning to improve with recent rains. Rust problems are subsiding. Planting was virtually completed in many central and southern areas during week. Grain sorghum harvest was winding down in the plains and north-central areas. Damp mornings delayed the start of harvest on many days. However, progress resumed by afternoons. Many later fields still need additional drying conditions. Cotton harvest slow starting until afternoons in the plains. Many operators in the north-central areas continued to wait for a freeze. Harvest continued in Trans-Pecos and parts of Edward's Plateau. Peanut harvest virtually completed in most fields in the north-central areas. Above-average yields reported in later fields. Harvest made good progress in south-central areas with good yields, virtually no disease problems reported. Most soybeans harvest was completed in the plains despite damp mornings. Harvest of remaining late varieties continued along Upper Coast under good weather conditions. Sugar beet harvest moved ahead and because of mostly open conditions has stayed ahead of schedule. Yields are down slightly because of dry conditions early in the season. Sugar content has also been affected. Sugarcane harvest continued in Rio Grande Valley without much delay during the week.

**Commercial Vegetables:** In the Rio Grande Valley, melon harvest continued. Onions and carrots continued to make good progress. Cabbage harvest also continued. In the San Antonio-Winter Garden area, cabbage harvest continued and watermelon harvest was winding down. Spinach fields were making good progress. In the east, cole crops are making good progress. Sweetpotato harvest is winding down. In the High Plains, pepper harvest continued. In Trans-Pecos, harvest of chili peppers continued. Pecan harvest are slowing down many areas, mostly due to lower prices. Problems with quality continued to be reported many areas. Peach producers were applying copper sprays and beginning to prune some areas.

**Range and Livestock:** Cool season grasses experienced good growth in most areas during week. Additional stockers put on wheat fields in the High Plains. Livestock conditions remained good across the State

**UTAH:** Major farm, ranch activities: Preparing barns, haystacks, irrigation systems, fields for winter; moving livestock; late harvesting of corn for grain.

**VIRGINIA:** Days suitable for fieldwork 3.9. Topsoil 1% short, 84% adequate, 15% surplus. Subsoil 1% short, 91% adequate, 8% surplus. Corn 95% corn for grain harvested, 1995 94%, 95% avg. Cotton 65% harvested, 1995 83%, 72% avg. Soybeans 45% harvested, 1995 54%, 59% avg. Peanuts 99% combined, 1995 100%, 100% avg. Livestock 13% fair, 80% good, 7% excellent. Pasture feed 1% poor, 17% fair, 74% good, 8% excellent. Winter apples 100% harvested, 98% 1995, 98% avg. Barley 99% seeded, 91% 1995, 96% avg. Winter wheat 65% seeded, 1995 72%, 74% avg. Harvesting soybeans, corn, cotton, seeding small grains slowed by mid-week cold front that brought rains, cool temperatures. Cotton harvest, wheat seeding remain substantially behind five-year average due to generally cool, wet crop season. Pastures have had excellent growing season, cooler temperatures slowed growth, resulted in hay feeding, most areas. Tobacco growers continued to strip, grade, bale burley. Apple harvest for year virtually complete.

**WASHINGTON:** Days suitable for fieldwork 4.0. Topsoil 1% short, 66% adequate, 33% surplus; subsoil 21% short, 77% adequate, 2% surplus. Winter wheat, dryland 2% poor, 25% fair, 57% good, 16% excellent; irrigated, 85% good, 15% excellent. Some winter wheat still left to be planted. Corn grain 40% harvested, 67% 1995, 72% avg. Hay, other roughage supplies 3% short, 83% adequate, 14% surplus. Corn harvest continued while sugar beet digging neared completion in Grant County. Fruit harvest was complete in Benton County. Adams, Lincoln Counties reported most fieldwork was done for the year. Christmas tree harvest was in full swing in Grays Harbor, Thurston Counties with Noble fir in short supply in Grays Harbor County. Helicopter traffic was heavy in Thurston County as growers harvested Douglas fir for shipment throughout the United States.

**WEST VIRGINIA:** Days suitable for fieldwork 2.8. Topsoil 1% short, 81% adequate, 18% surplus. Corn harvest continues to be delayed by high moisture. Winter wheat 17% fair, 76% good, 7% excellent; 96% planted, 95% 1995, 87% avg. Corn 66% harvested for grain, 94% 1995, 91% avg. Soybeans 66% harvested, 70% 1995. Cattle 3% poor, 16% fair, 76% good, 5% excellent. Sheep 2% poor, 14% fair, 78% good, 6% excellent. Activities: Harvesting corn for grain and soybeans; seeding wheat; and marketing and feeding livestock.

**WISCONSIN:** Days suitable for fieldwork 5.5. Soil moisture 22% short, 71% adequate, 7% surplus. Frost aided corn pickers, combines to roll across fields in State. Freezing temperatures and snow cover seemed to rush the harvest season along. As fieldwork decreased, other things like spreading manure, chopping stalks, making corn stalk bales or stacks were done. Fall tillage was at 48% complete, compared with 73% 1995. Many farmers throughout the State were trying to chisel the ground before the frost penetrated any more. In some northern areas, it's too late to continue fall tillage. Corn yields, moisture levels varied greatly. A reporter from Lincoln County noted moisture levels of high moisture corn put in the silo ranged 30 to 35%. Low test weights on corn were observed. A reporter from Walworth County stated corn test weights were around 52 pounds and up, very little making 54 pounds. A reporter from Wood County commented on a good crop for both cranberries and potatoes. There were still a few soybean fields yet to be harvested. Some farmers baled bean stubble, primarily for bedding. Christmas tree harvest is in full swing, getting ready for next month. Reporters commented that winter wheat looked good in the southeast, East Central Districts. Many reports indicated there is a lack of quality hay for dairy available in some parts of the State. Lots of cattle, statewide, were gleaning corn fields after harvest.

**WYOMING:** Above normal temperatures prevailed across most of Wyoming last week. Snow was received across the State at week's end and continued through the weekend. Corn for grain 97% harvested, 76% 1995, 90% avg.

# International Weather and Crop Summary

November 10 - 16, 1996

## HIGHLIGHTS

**FSU WESTERN:** Unusually warm weather favored winter grains entering dormancy as far south as Ukraine.

**EUROPE:** Wet weather in France and Spain interrupted summer crop harvesting but provided ample topsoil moisture for winter grain development.

**NORTHWESTERN AFRICA:** Soaking rain covered Morocco, providing abundant topsoil moisture for winter grain planting.

**AUSTRALIA:** Scattered, mostly light showers likely caused only minor delays in winter grain harvesting.

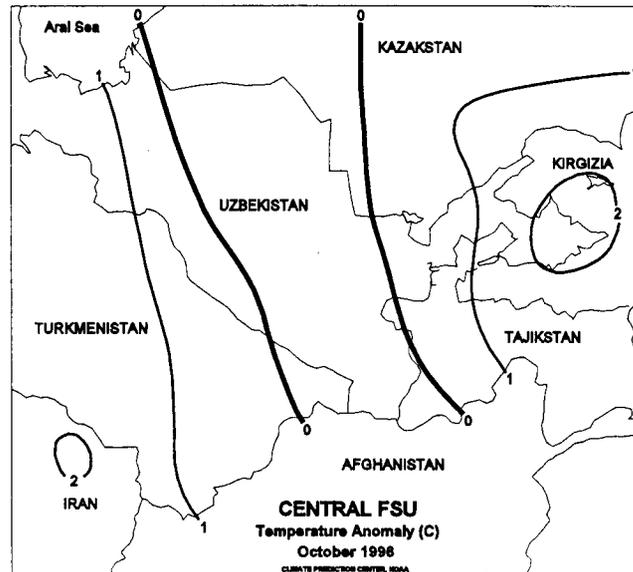
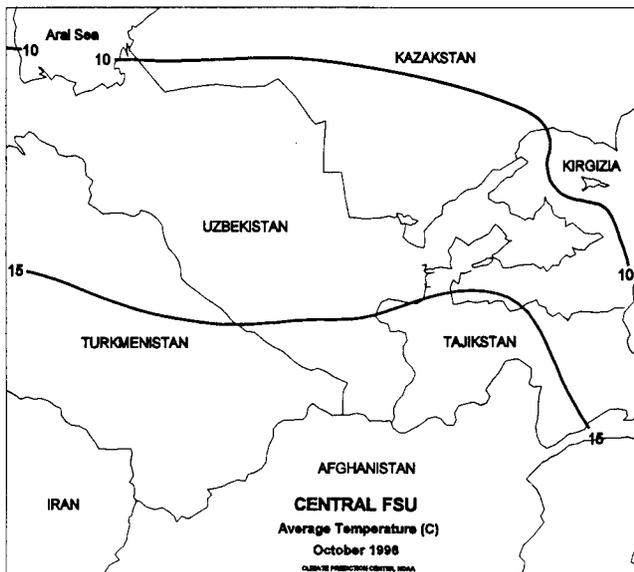
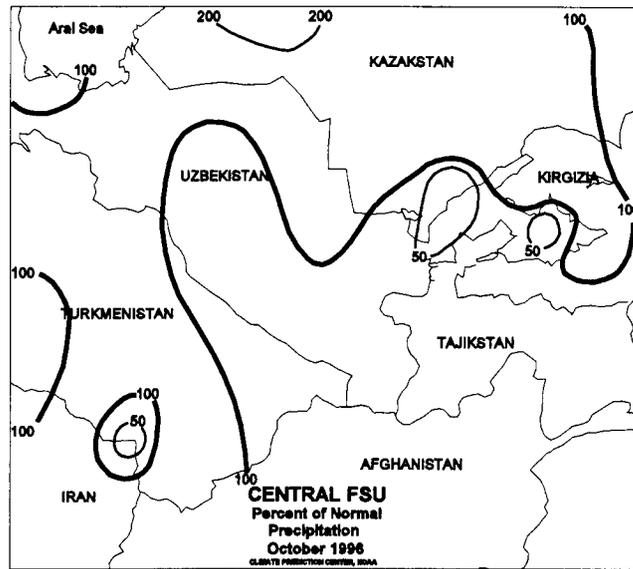
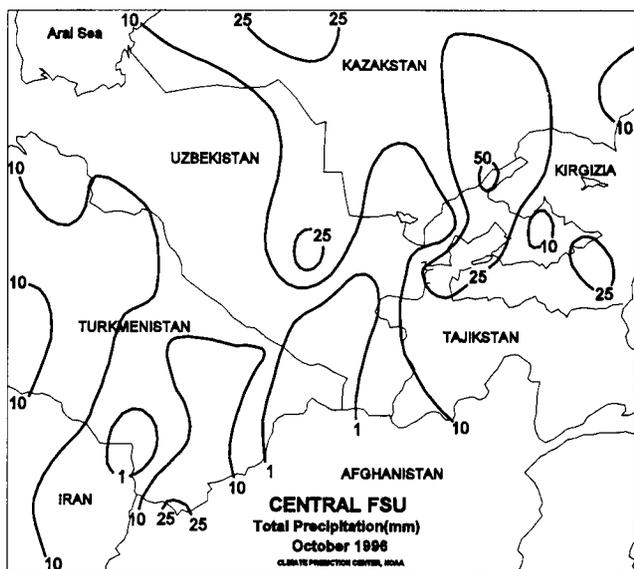
**SOUTH ASIA:** Seasonable dryness favored maturing summer crops and storm recovery along the southeast coast in India.

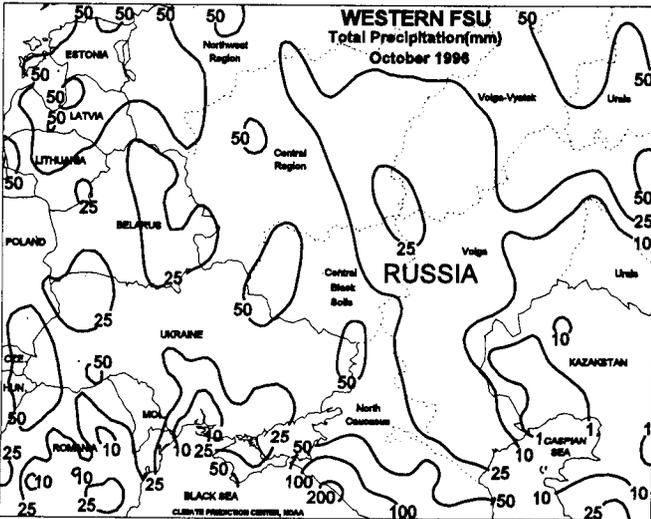
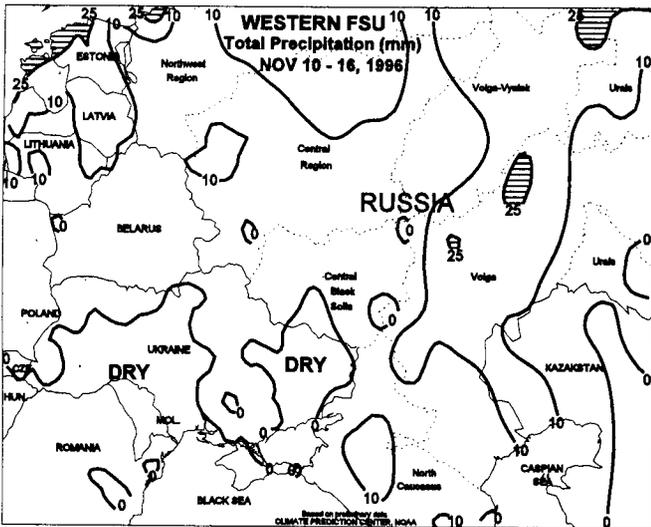
**SOUTH AFRICA:** Continuing rain improved corn planting prospects.

**SOUTHEAST ASIA:** Drier weather favored rice harvesting across the central Philippines, while Tropical Storm Ernie brought heavy rain to portions of the Philippines and Vietnam.

**EASTERN ASIA:** Rain benefited emerging winter wheat across the North China Plain as cooler weather helped to harden winter grains.

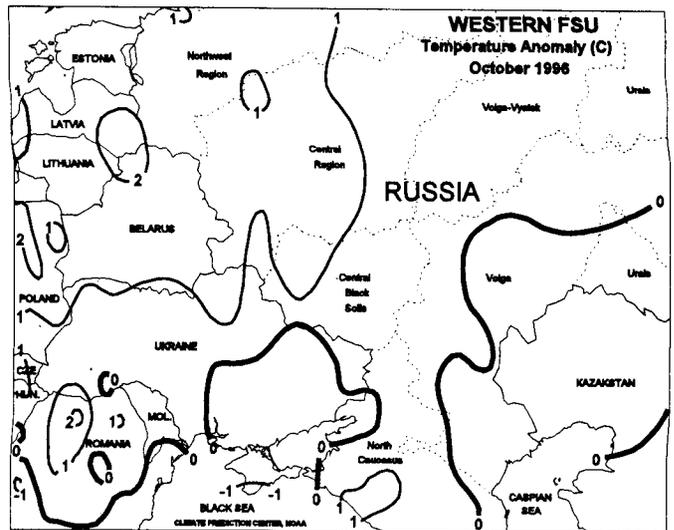
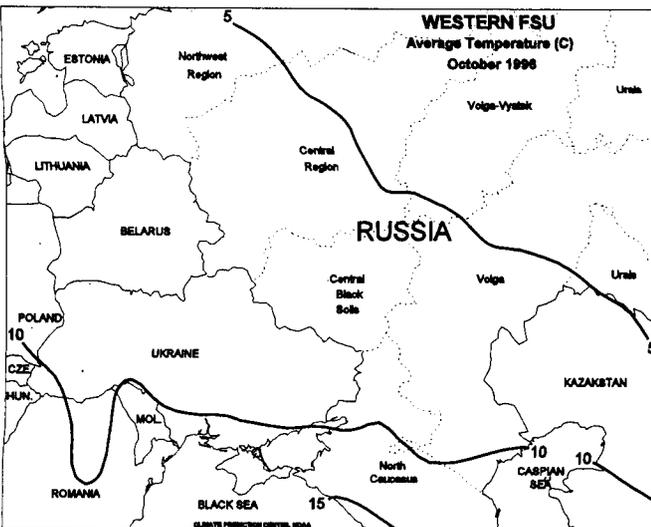
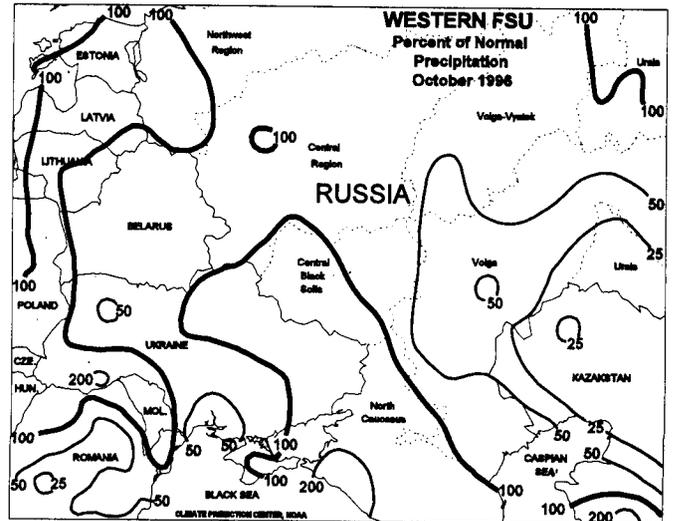
**SOUTH AMERICA:** Rain continued to boost soil moisture for summer crop planting across the region and reproductive winter wheat in central Argentina.

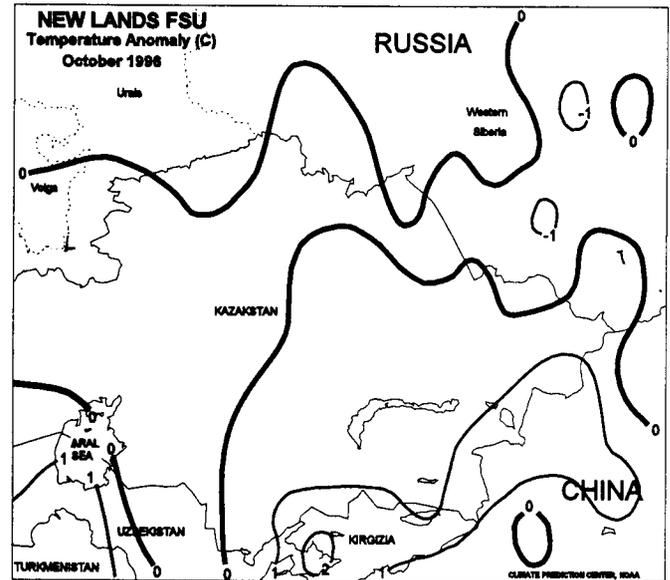
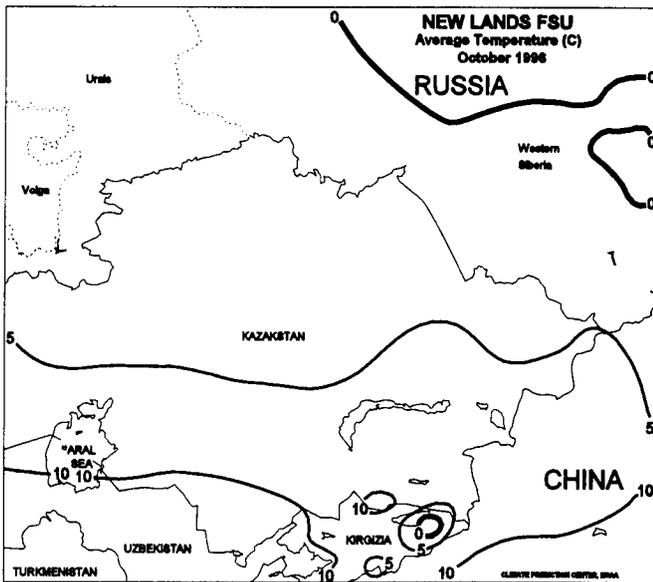
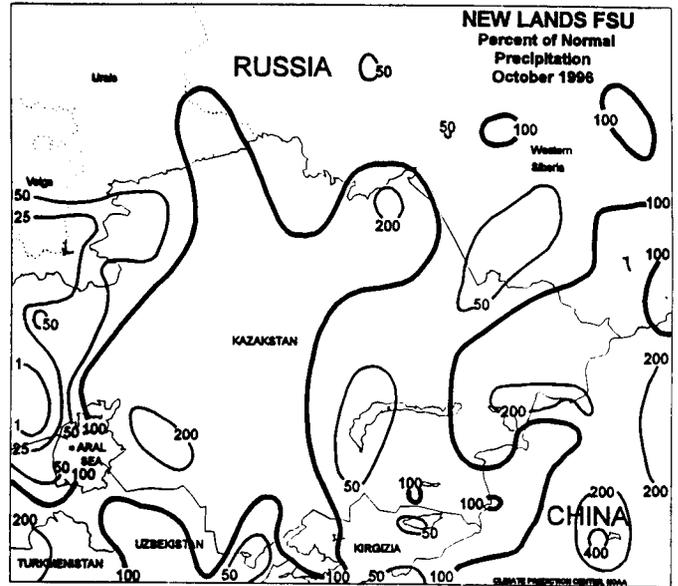
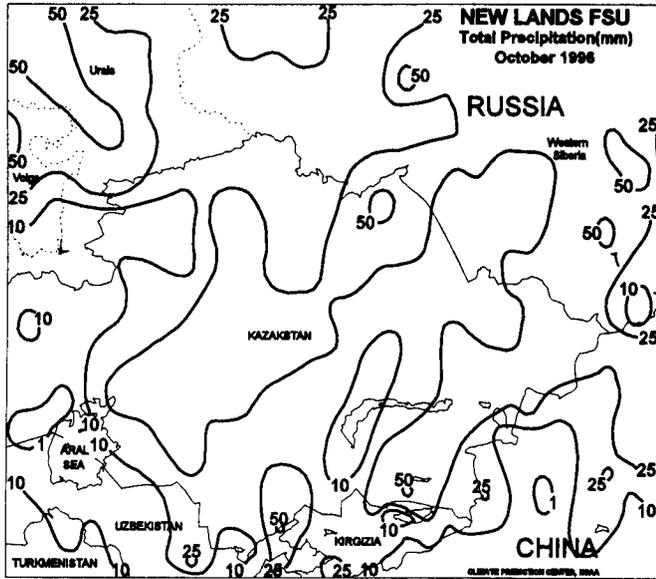


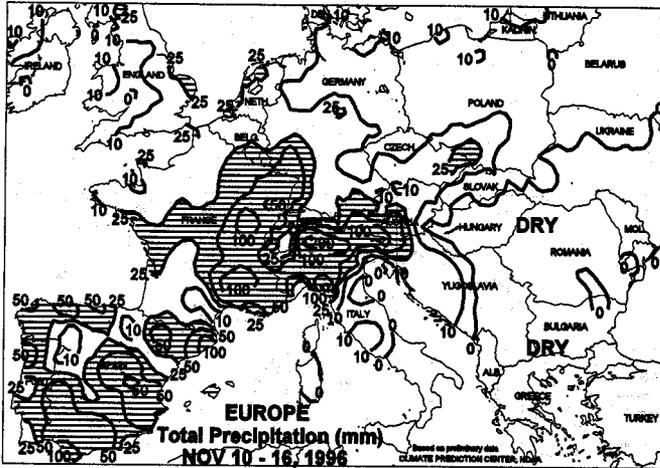


**FSU-WESTERN**

Unusually mild weather persisted over Russia, Ukraine, the Baltics, and Belarus, favoring winter grains. Weekly temperatures averaged 2 to 5 degrees C above normal in these areas. Temperatures in northern Russia remained low enough for winter grains to continue entering dormancy. However, most areas in northern Russia lacked a protective snow cover, leaving winter grains vulnerable to potential extreme cold. Winter grains in Ukraine and southern Russia continued to add vegetative growth but were cold hardening. Mostly dry weather in Ukraine and North Caucasus, Russia benefited late harvest activities. In October, weather conditions in Russia, Ukraine, and Belarus favored corn, sunflower, sugar beet, and potato harvesting and winter grain planting. A period of rain from October 20-26 in Ukraine and southern Russia provided beneficial topsoil moisture for winter grain development. Near- to above-normal temperatures in October over Russia, Ukraine, Belarus, and the Baltics allowed sufficient vegetative growth in winter grains prior to dormancy. By late October, winter grains in northern Russia were in or entering dormancy with sufficient hardening. Winter grains in the Baltics, Belarus, Ukraine, and southern Russia continued to develop prior to dormancy.

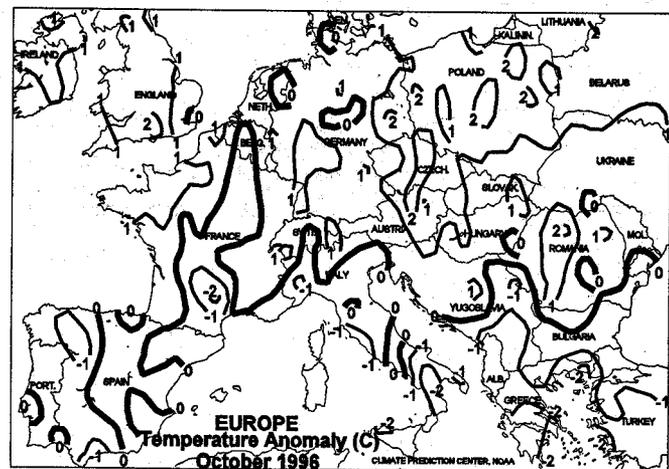
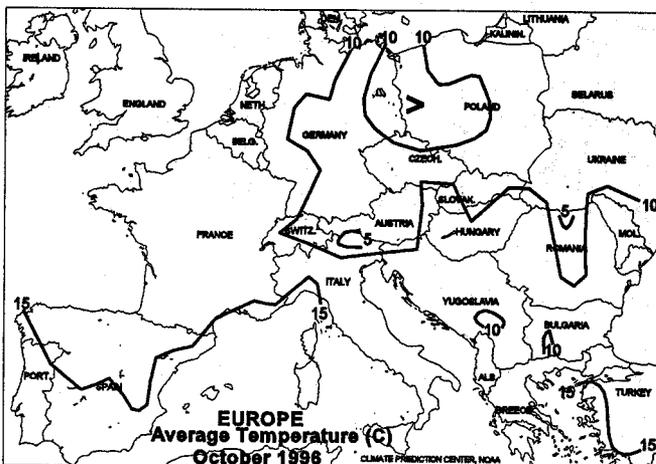
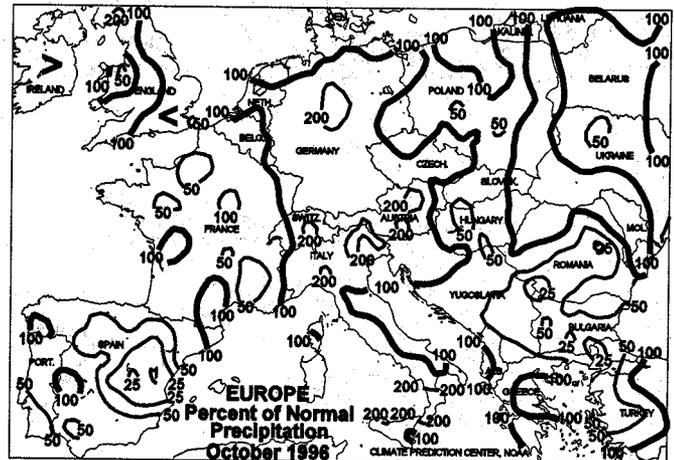
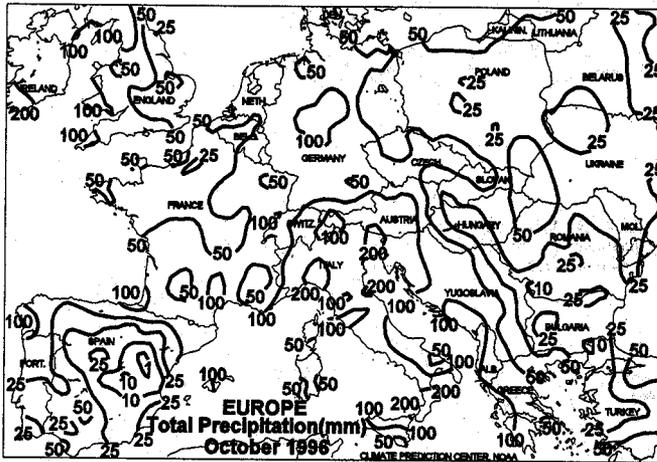


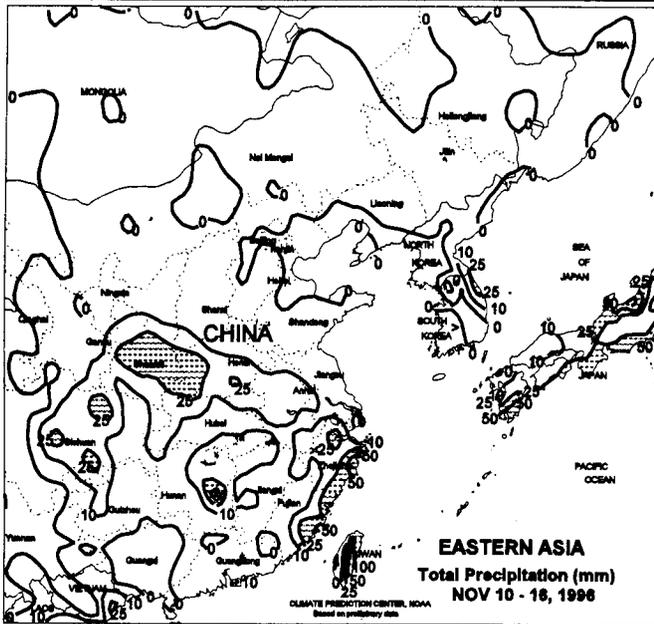




**EUROPE**

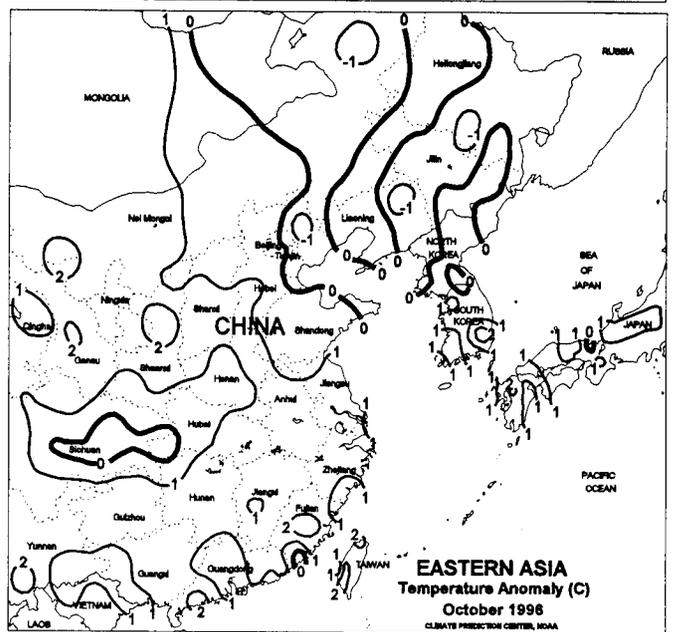
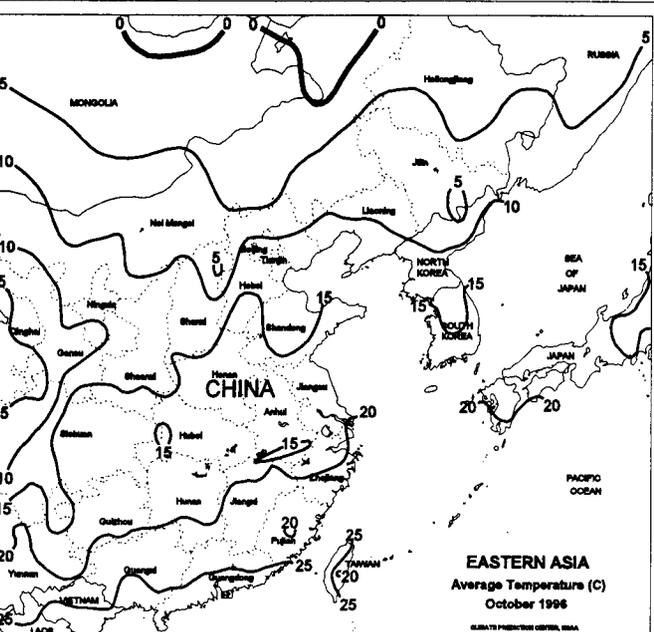
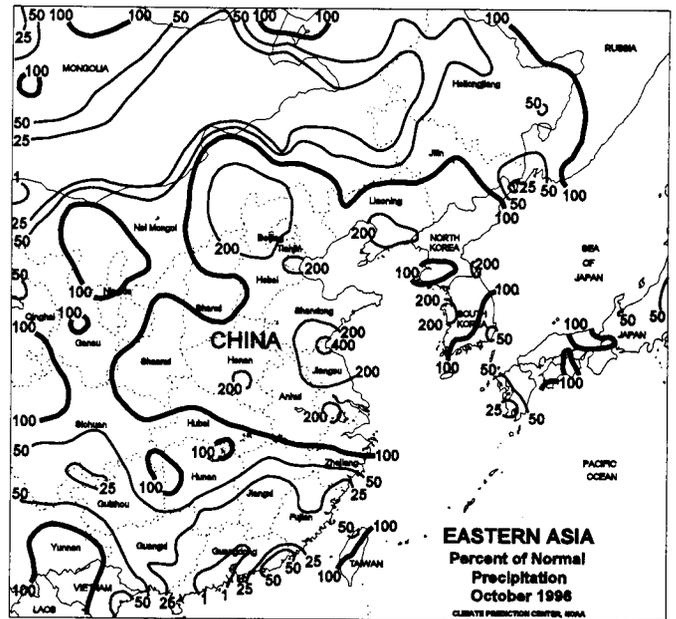
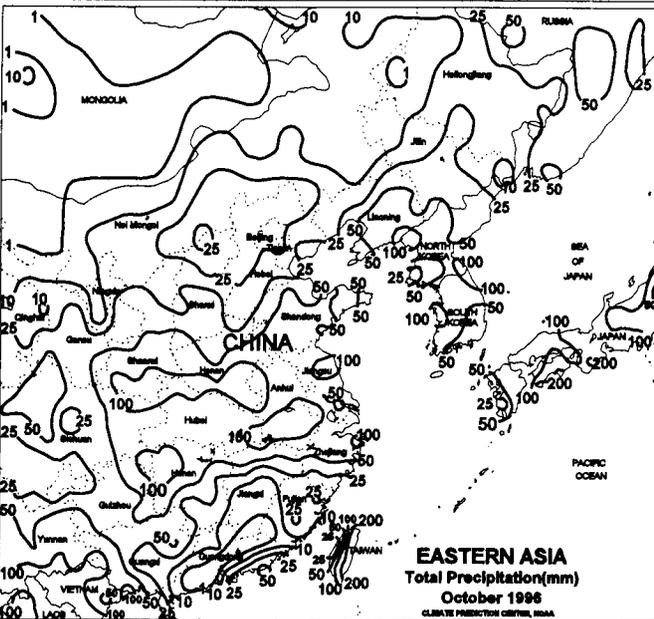
Moderate to heavy rain (25 to locally more than 100 mm) spread from Spain eastward through southern France and northern Italy, temporarily delaying winter grain planting but further increasing soil moisture and irrigation reservoir levels. Farther north, light to moderate showers (10-40 mm) in the United Kingdom, northern France, the Benelux countries, and central and southern Germany benefited winter crop development but hampered remaining sugar beet and corn harvesting. Extreme minimum temperatures fell below freezing (-1 to -6 degrees C) in these areas, slowing winter crop development. In eastern Europe, unusually mild weather (weekly temperatures averaging 2 to 6 degrees C above normal) occurred from Poland southward to Bulgaria, allowing further growth of winter crops. Dry weather in southeastern Europe benefited late-season fieldwork. In October, above-normal precipitation from Germany southward through northern Italy and eastward into Greece disrupted harvesting but provided abundant moisture for winter grain planting and early establishment. Elsewhere, below-normal precipitation over most of the remainder of Europe helped summer crop harvesting and winter grain planting. Driest areas in October included Spain, southeastern former Yugoslavia, southern Romania, and Bulgaria, where precipitation was generally less than 50 percent of normal.

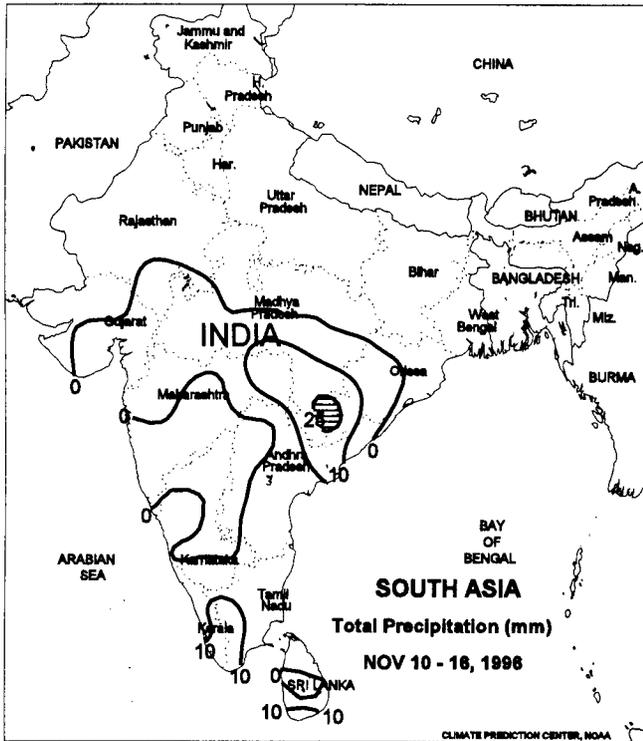




**EASTERN ASIA**

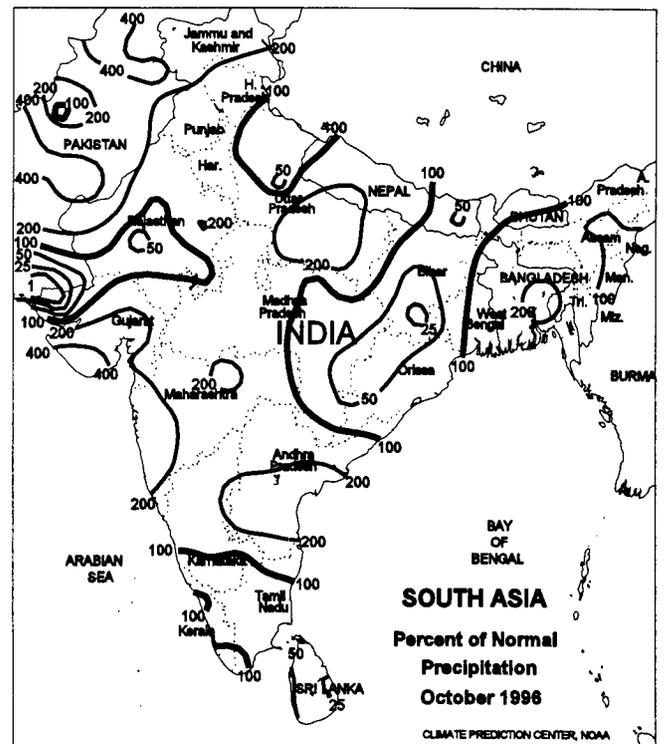
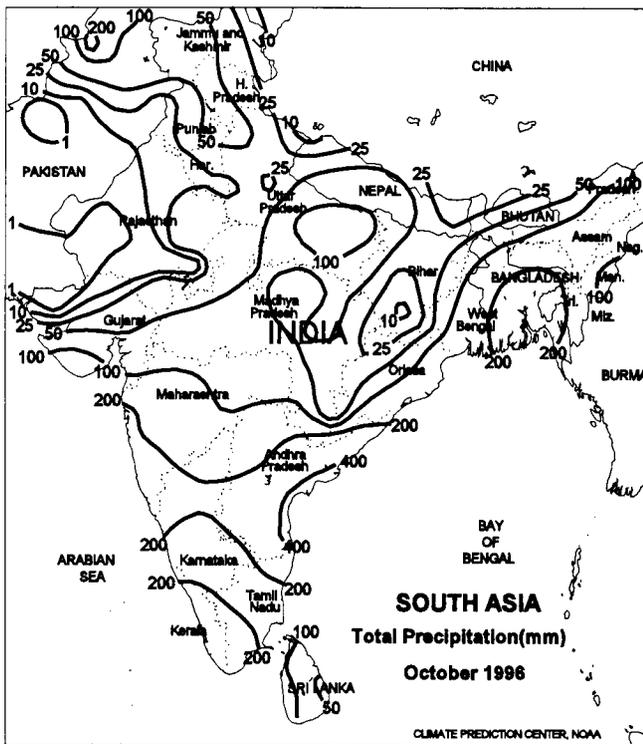
Light to moderate rain (3-20 mm) fell across the North China Plain, aiding vegetative winter wheat. Heavier amounts (25-40 mm) were reported across Shaanxi and western Henan. Cooler weather prevailed across the region as minimum temperatures ranged from 3 to -3 degrees C, helping to harden winter wheat. Along the Yangtze Valley, light to moderate rain (5-25 mm) favored winter grains and oilseeds, but did not significantly slow late double-crop rice harvesting. During October, above-normal rainfall across the North China Plain greatly aided winter wheat establishment. Extreme southern China reported below-normal October rainfall.

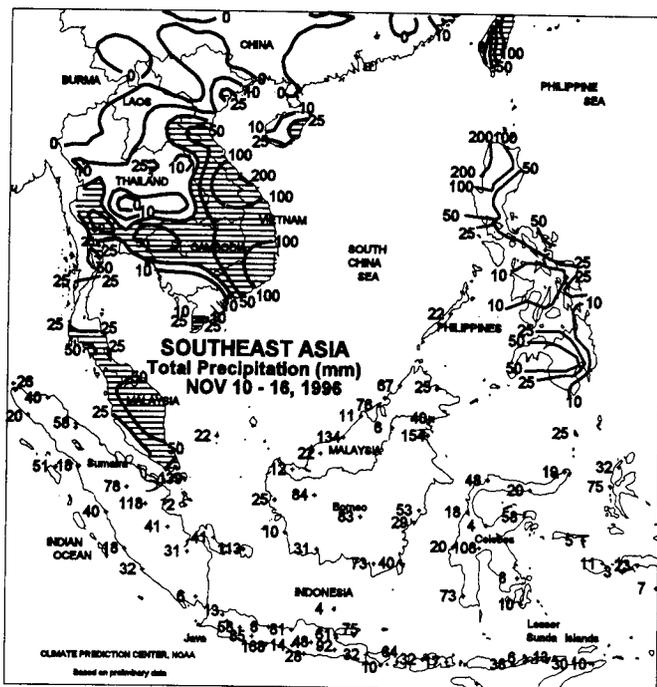
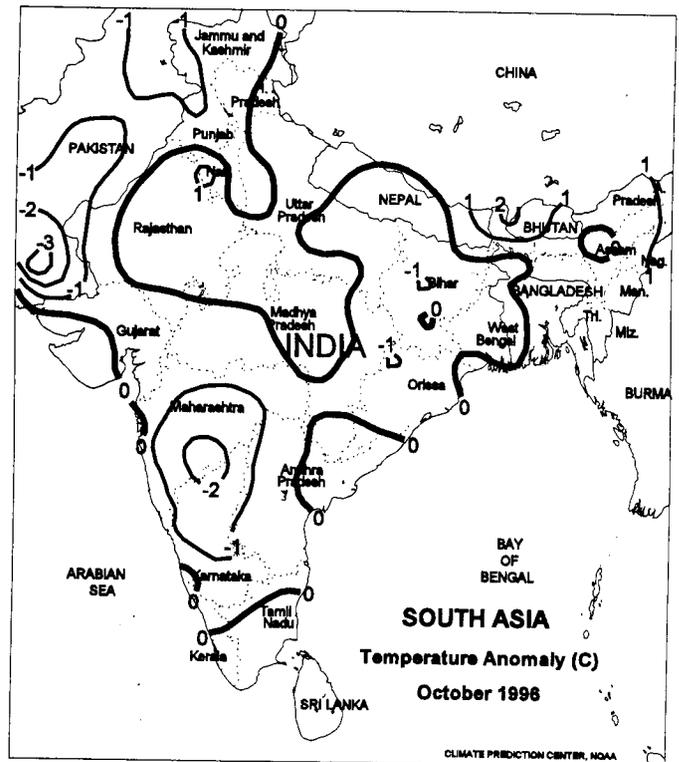
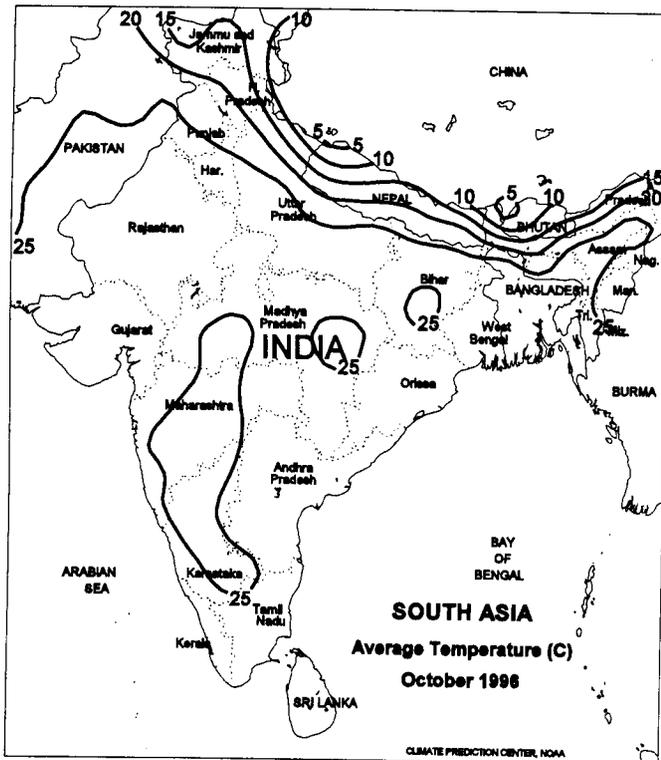




**SOUTH ASIA**

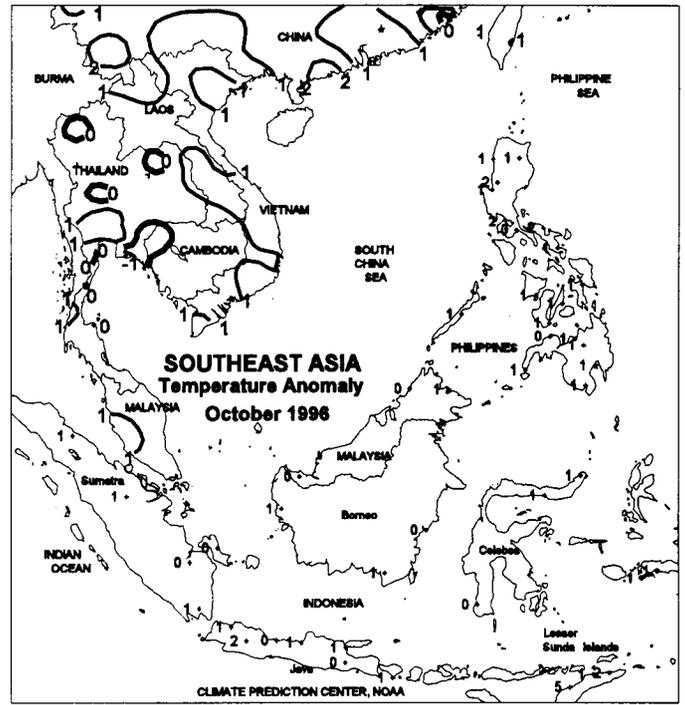
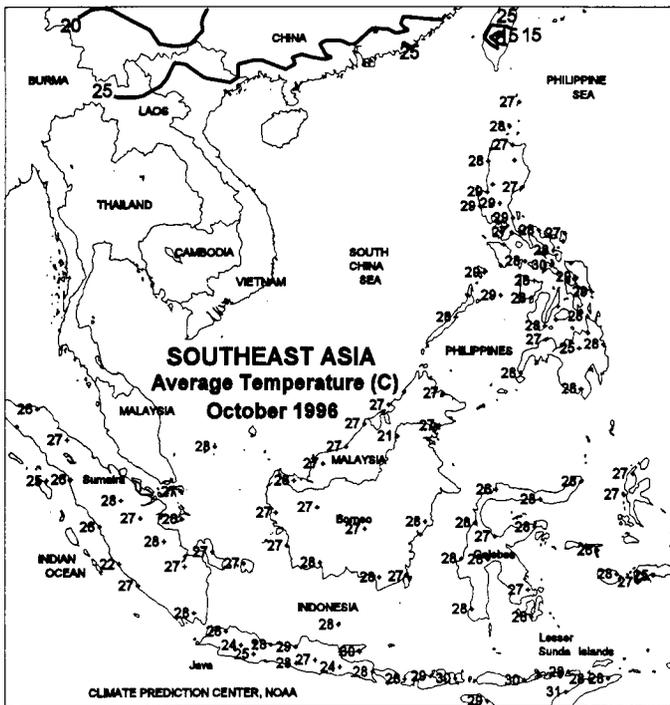
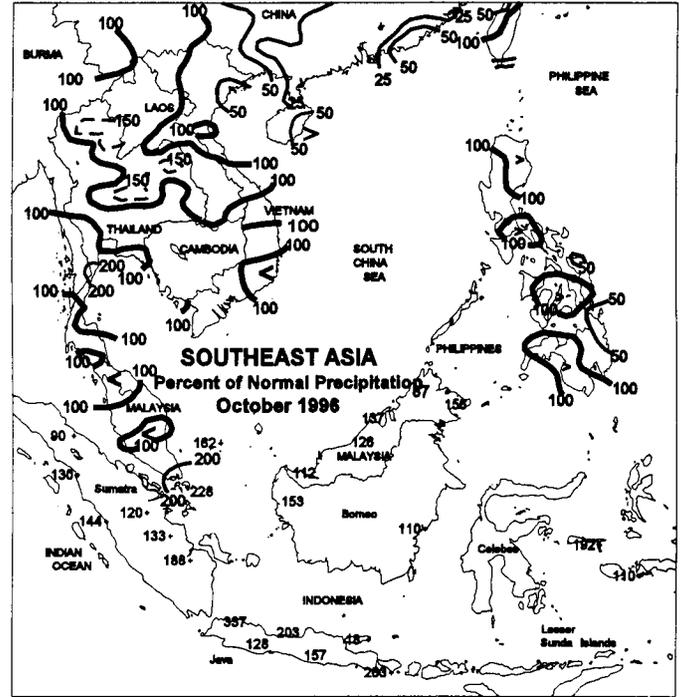
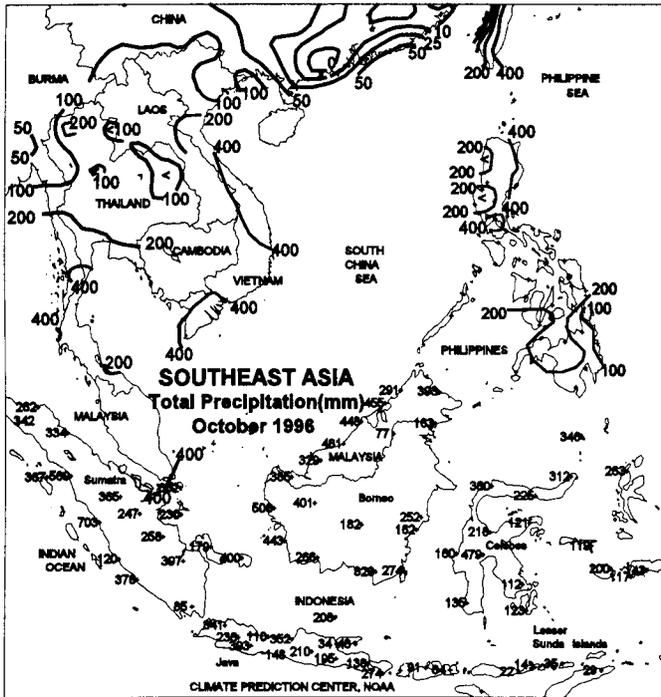
Warmer, seasonably drier weather dominated the region, favoring maturing summer grains, oilseeds, and cotton. The south of India was recovering from storm damage in coastal rice areas in the wake of last week's tropical cyclone. Winter grain and oilseed planting progressed across the north. In early October, unseasonably late heavy rain in the northern growing areas boosted topsoil moisture for winter planting but raised concern for mature cotton. A more typical pattern dominated the remainder of the month. However, some locations, especially coastal rice areas, were too wet and experienced some flooding. In Bangladesh, a late-October tropical cyclone may have caused some damage to unharvested main-season rice.

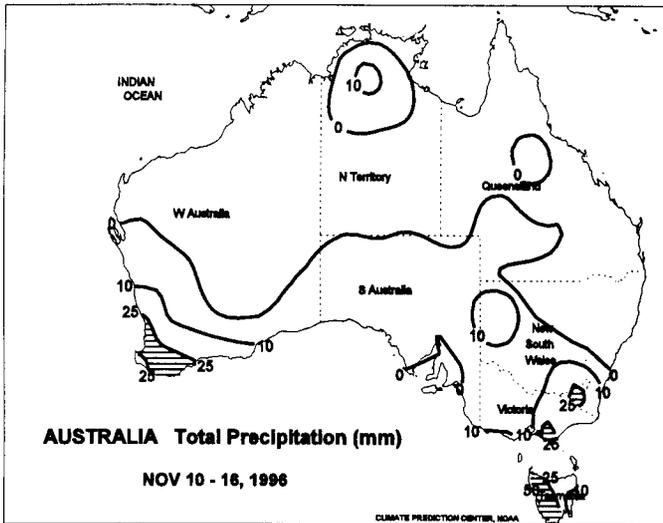




**SOUTHEAST ASIA**

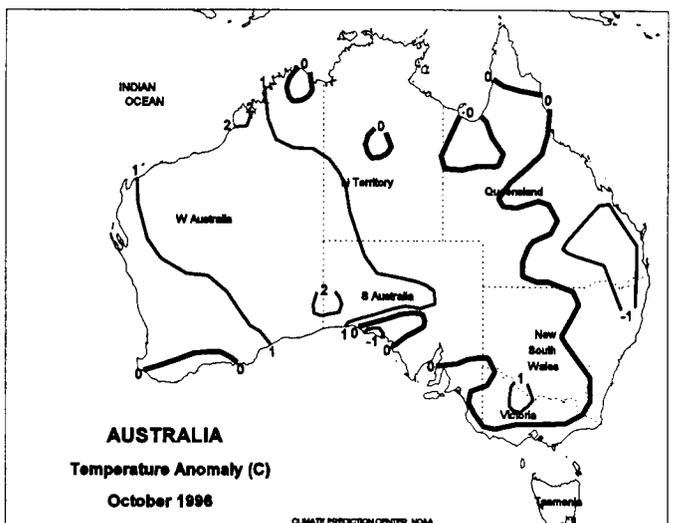
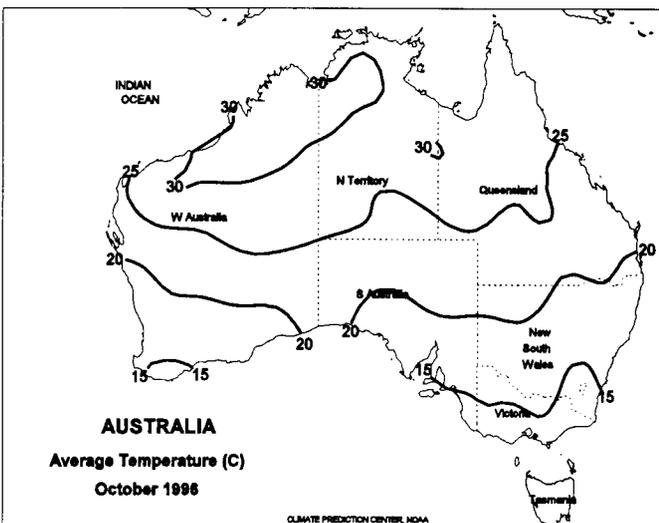
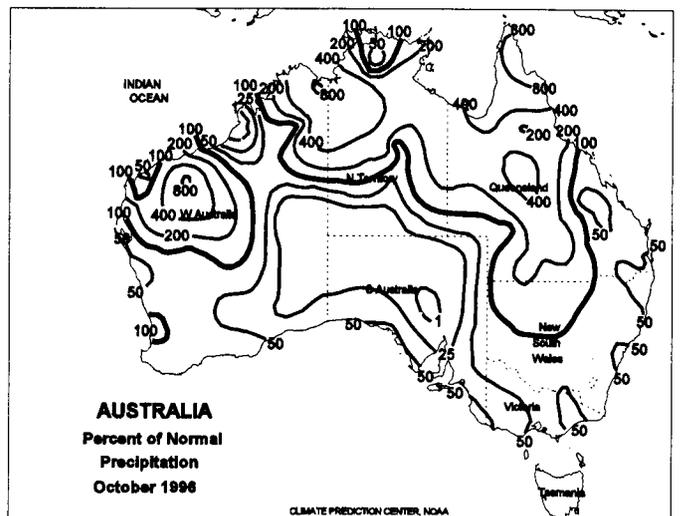
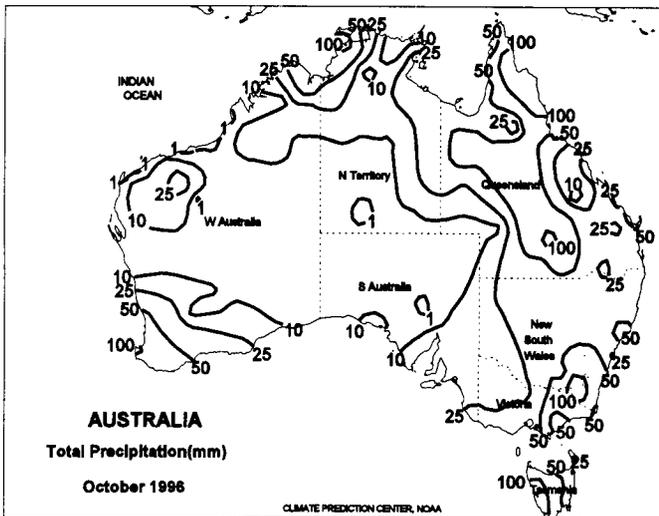
Variable showers (5-85 mm) covered Java, maintaining irrigation supplies and easing wetness from the previous week. Drier weather (5-40 mm) aided rice harvesting across the central Philippines, after the passage of Tropical Storm Ernie during the previous week. This week, Ernie recurved and brushed western Luzon, producing heavy rain (100-225 mm) and local flooding. Ernie then moved southwestward and hit southern Vietnam with sustained winds of 30 to 35 knots (35-40 mph). However, the heaviest rain (80-140 mm) from Ernie occurred across south-central Vietnam, slowing rice fieldwork. Drier weather favored rice harvesting across northern Vietnam. Unseasonable rain (10-35 mm) slowed rice harvesting across Thailand. During October, above- to much-above-normal rainfall boosted irrigation supplies for main-season rice across Java, but caused some flooding. Above-normal October rainfall slowed rice harvesting across Thailand and portions of Vietnam and the Philippines.

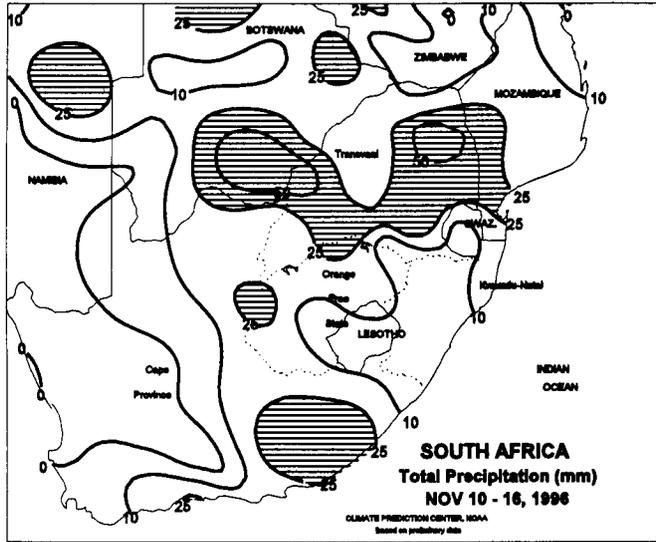




**AUSTRALIA**

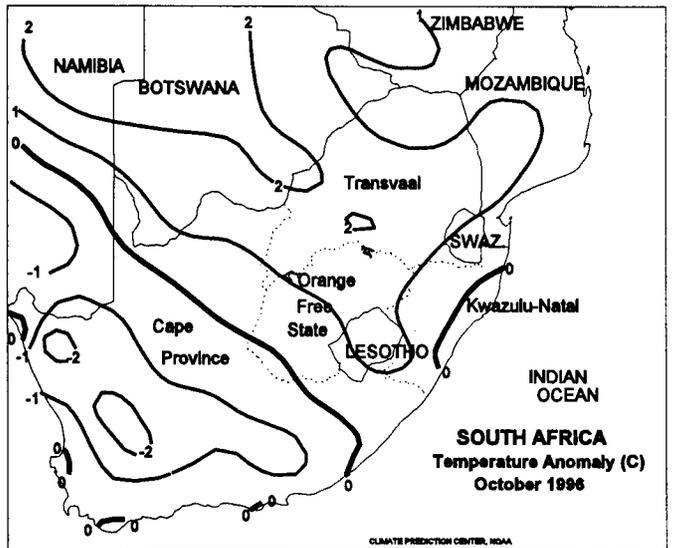
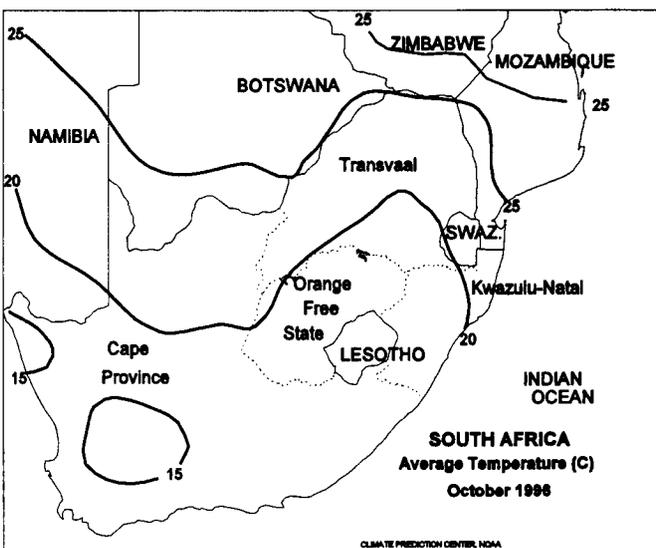
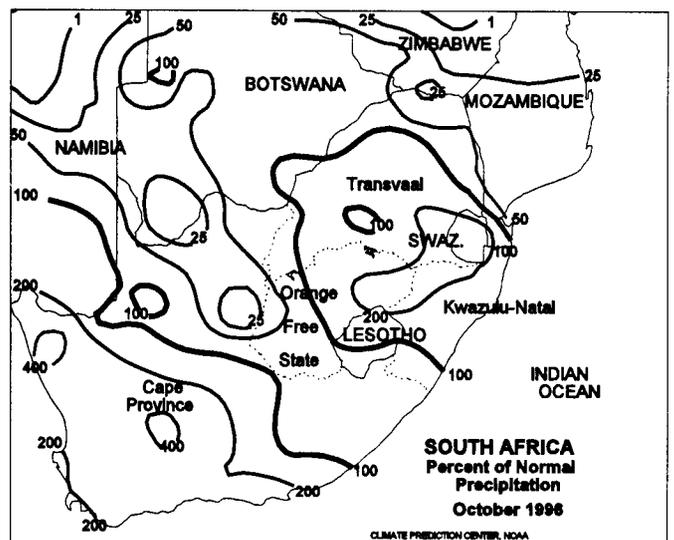
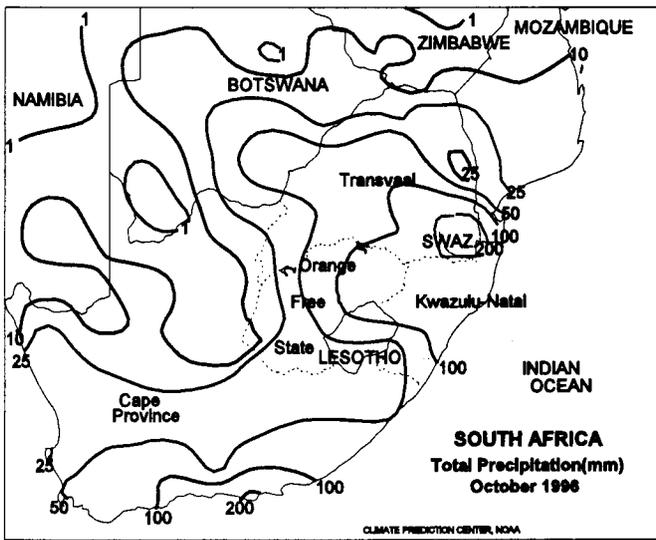
Light to moderate rain (5-25 mm) continued over much of the western winter grain belt, increasing moisture for pasture growth but keeping filling to maturing grains wet. In the east, scattered showers likely resulted in only minor fieldwork delays. During October, widespread locally heavy rain the first half of the month in Queensland and New South Wales increased moisture for early cotton, sorghum, and sugarcane development. However, some decline in winter grain quality was reported, most notably in barley. In the southeast, a persistent drying trend reduced available topsoil moisture for immature winter grains and pastures. A similar drying trend was broken at mid-month in the west, which received an overall favorable boost of moisture for livestock and late winter grain development.



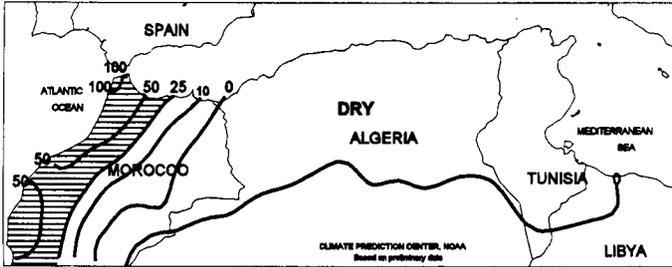


**SOUTH AFRICA**

Mostly moderate rain (10-25 mm or more) covered the corn belt, further improving planting prospects in previously dry sections of the west. The rain also kept temperatures down to more seasonable levels, with highs ranging from the mid-20's to lower 30's C. During October, unseasonable dryness precluded early planting, but heavy rain (50-100 mm or greater, total accumulations) soaked the eastern corn belt the latter half of the month, improving prospects. In the west, most corn areas just recently received adequate preplanting rains. Elsewhere, unseasonable late-October rains (25-50 mm or more) in Western Cape threatened winter wheat quality.



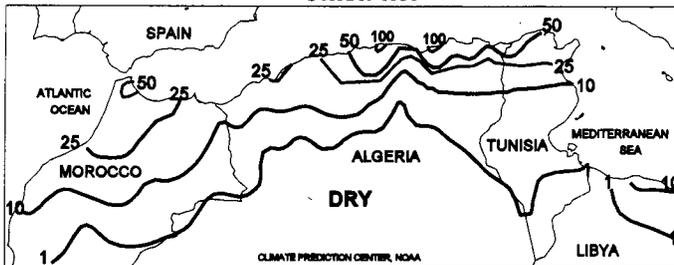
**NORTHWESTERN AFRICA Total Precipitation (mm)**  
NOV 10 - 16, 1996



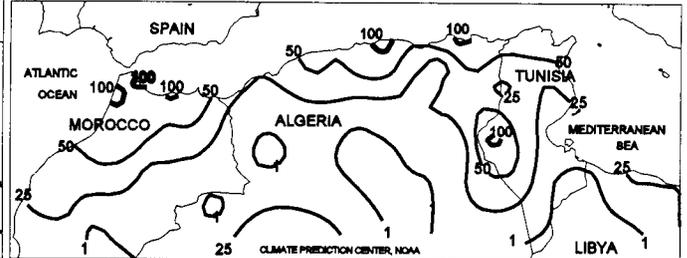
**NORTHWESTERN AFRICA**

Soaking rain covered winter grain areas in Morocco. Rainfall ranging from 25 to 60 mm was the first substantial moisture since the beginning of the growing season, providing abundant topsoil moisture for winter grain planting. Farther east, dry weather in Algeria and Tunisia continued to slow early-season planting. In October, the autumn rainy season was slow to begin, with winter grain areas in Morocco, Algeria, and Tunisia receiving well-below-normal precipitation. As a result, topsoil moisture remained insufficient for widespread planting.

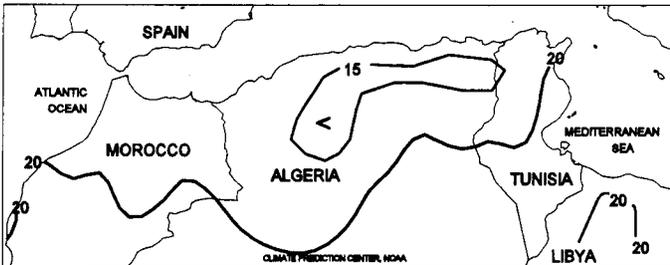
**NORTHWEST AFRICA Total Precipitation (mm)**  
October 1996



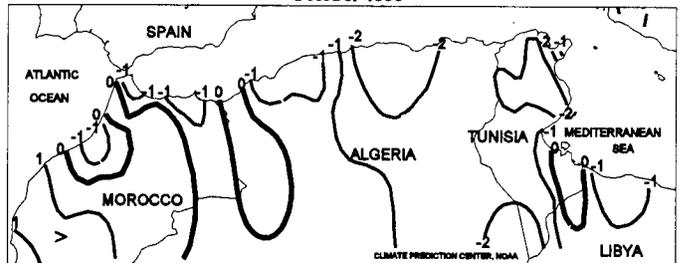
**NORTHWEST AFRICA Percent of Normal Precipitation**  
October 1996

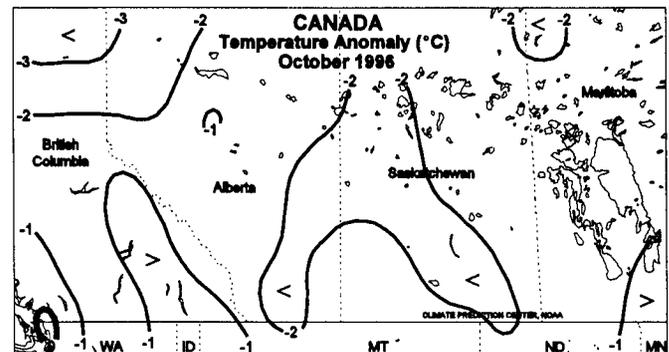
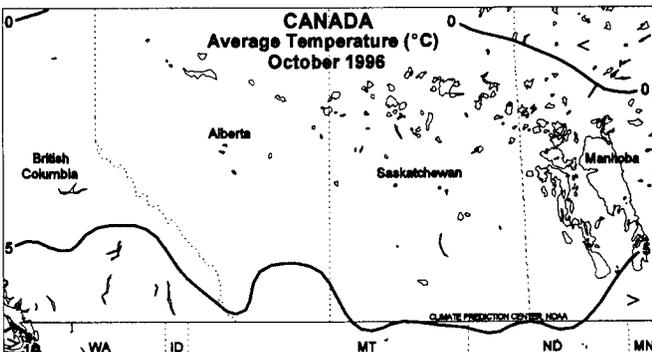
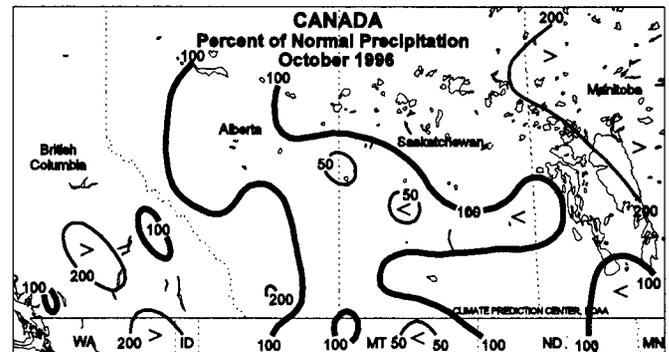
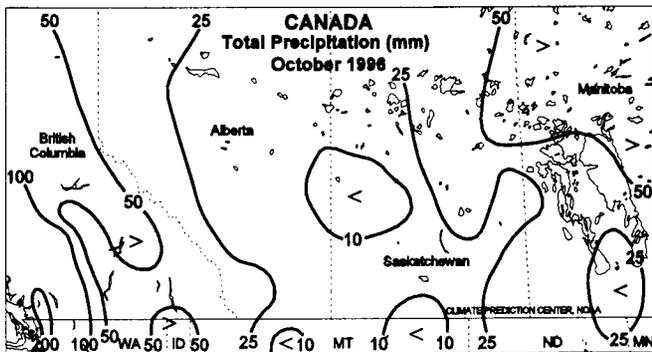
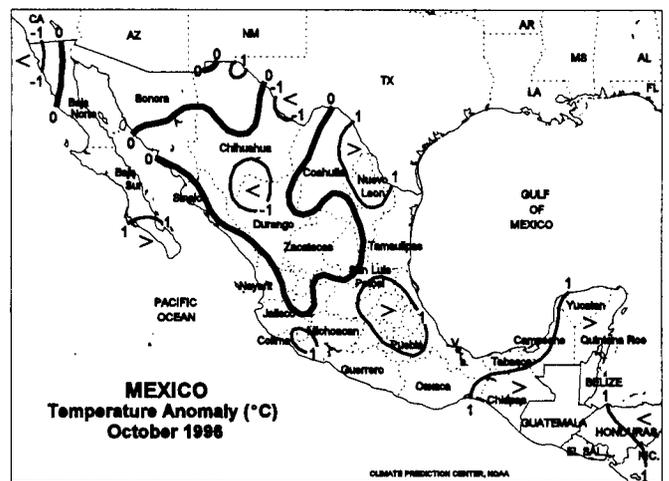
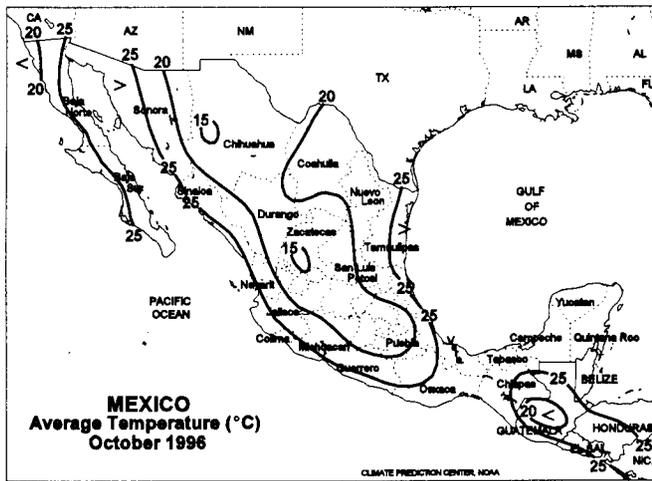
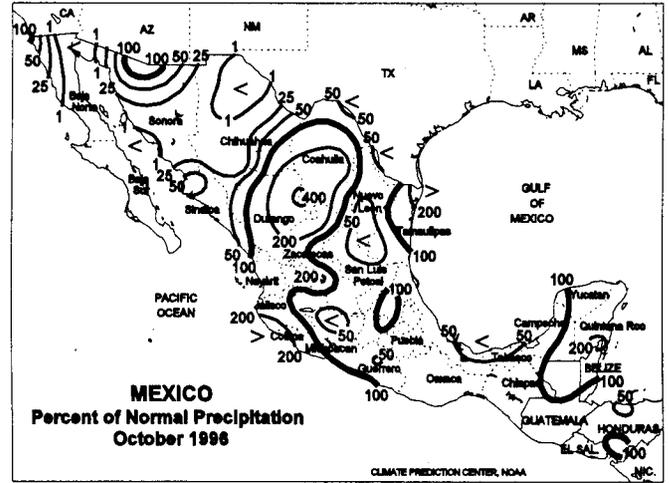
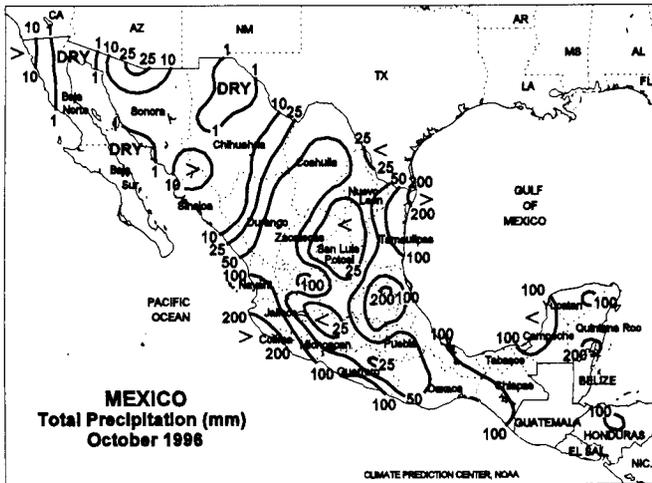


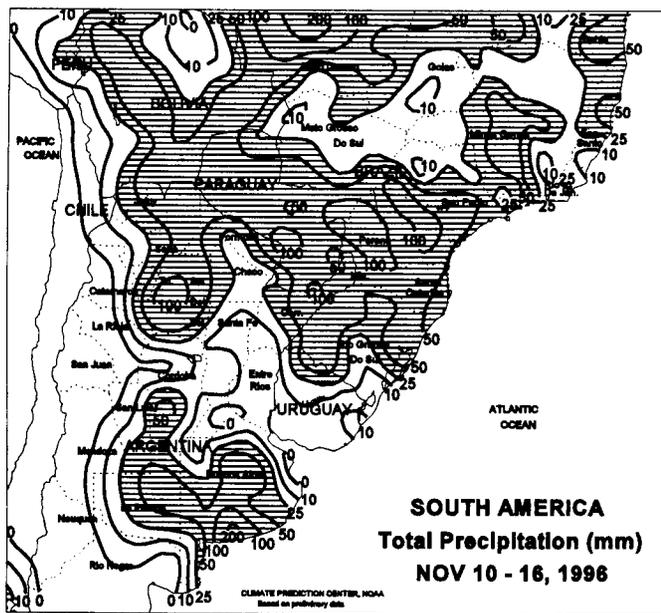
**NORTHWEST AFRICA Average Temperature (C)**  
October 1996



**NORTHWEST AFRICA Temperature Anomaly (C)**  
October 1996

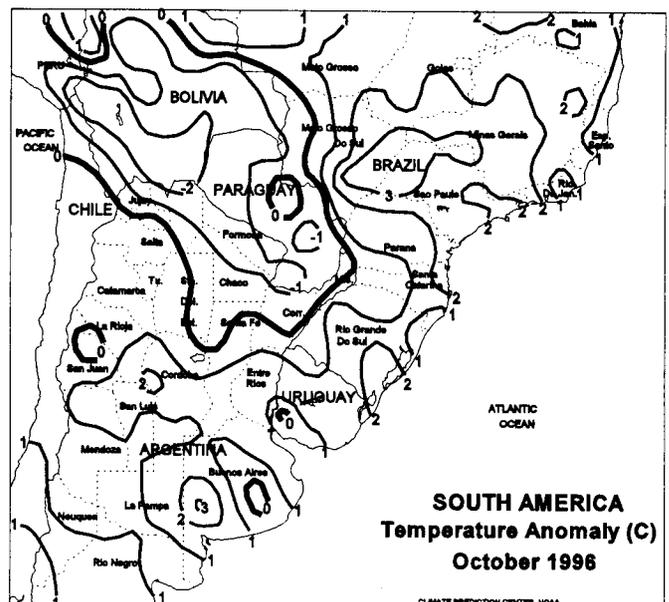
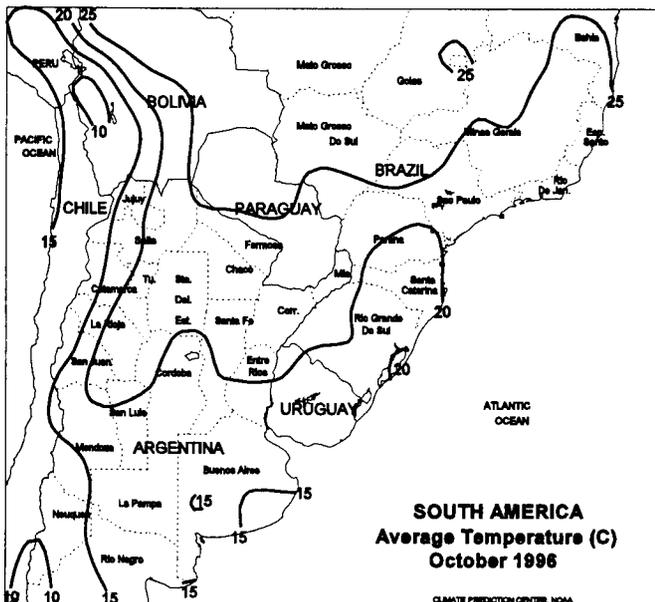
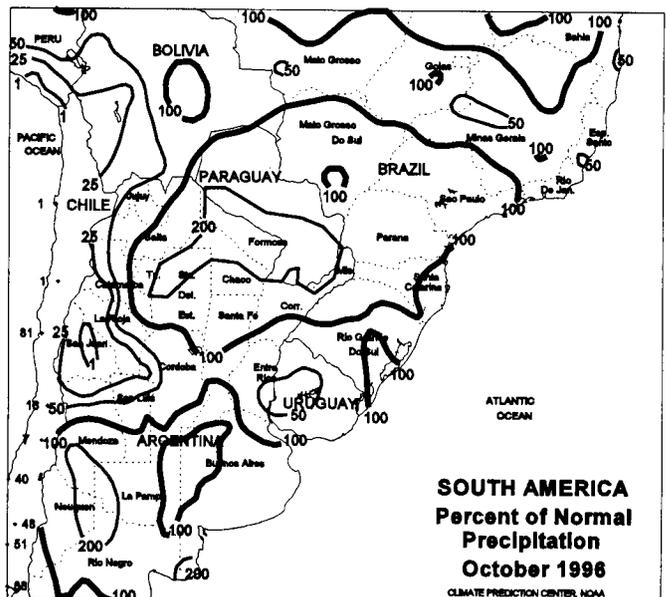
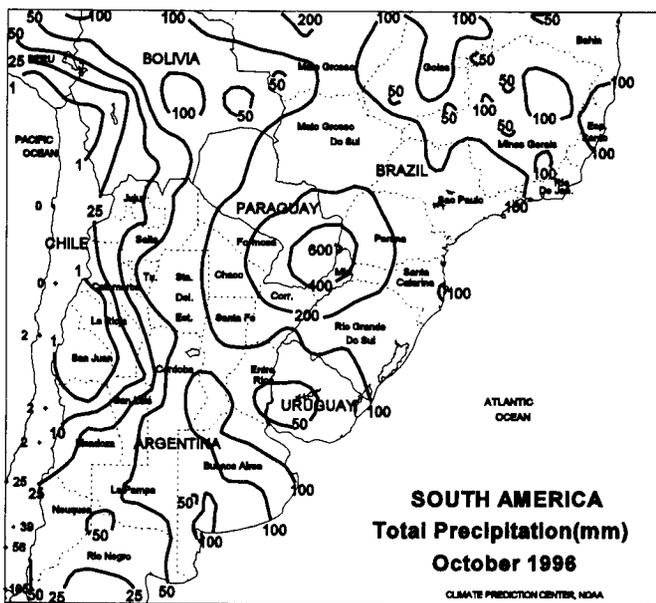






**SOUTH AMERICA**

In Argentina, widespread rain (15-50 mm, with an isolated amount greater than 200 mm) covered Buenos Aires and eastern La Pampa, favoring reproductive winter wheat and emerging corn and sunflowers. Farther north in southern Santa Fe, mostly dry weather allowed summer crops to progress after the previous week's beneficial rainfall. Light to moderate showers (10-30 mm) prevailed across northern Argentina. In southern Brazil and Paraguay, showers (15-75 mm) maintained soil moisture for soybean planting. Heavier showers (100-180 mm) fell across Parana, causing some local flooding. As of November 14, reports indicated that about 40 to 45 percent of the soybean crop had been planted in Brazil, which was slightly ahead of the normal pace. During October, rainfall averaged near to slightly below normal across central Argentina, providing adequate moisture for corn and sunflower planting. In southern Brazil, above-normal monthly rainfall boosted topsoil moisture for soybean planting. Much-above-normal rainfall (greater than 200 percent of normal) increased cotton irrigation supplies across northern Argentina and southern Paraguay, but caused some flooding.



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

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(Continued from page 6)

Winter Wheat Percent Emerged				
	Nov 17 1996	Prev Week	Prev Year	5-Yr Avg
AR	56	46	87	87
CA	25	15	9	12
CO	99	98	98	99
GA	14	9	25	19
ID	90	85	91	88
IL	94	84	96	92
IN	92	84	96	95
KS	98	97	94	92
MI	96	93	97	93
MO	79	72	84	79
MT	93	87	90	90
NE	100	100	100	100
NC	49	38	41	48
OH	89	78	98	95
OK	95	91	82	86
OR	91	83	82	87
SD	100	96	96	99
TX	99	94	75	78
WA	97	97	94	90
ALL	93	89	87	87
These 19 States produced 92% of the 1995 winter wheat crop.				

Soybeans Percent Harvested				
	Nov 17 1996	Prev Week	Prev Year	5-Yr Avg
AL	77	62	66	72
AR	73	68	94	88
GA	69	52	42	59
IL	98	95	100	99
IN	96	92	100	99
IA	99	98	100	100
KS	91	88	100	97
KY	78	64	90	86
LA	99	98	100	95
MI	95	93	100	95
MN	99	99	98	99
MS	94	88	97	87
MO	86	83	98	93
NE	100	100	100	100
NC	42	29	31	40
OH	90	86	100	99
SC	55	36	24	36
SD	100	100	97	99
TN	59	43	78	78
ALL	92	89	96	95
These 19 States produced 94% of the 1995 soybean crop.				

Winter Wheat Crop Condition by Percent					
	VP	P	F	G	EX
AR	2	12	45	35	6
CA	0	0	30	40	30
CO	1	3	21	55	20
GA	1	1	31	66	1
ID	0	0	5	63	32
IL	2	1	19	61	17
IN	0	4	25	64	7
KS	0	0	11	74	15
MI	1	5	38	44	12
MO	0	4	36	56	4
MT	0	4	62	32	2
NE	0	3	28	63	6
NC	0	1	9	78	12
OH	0	4	25	58	13
OK	0	3	18	74	5
OR	0	0	45	48	7
SD	1	3	21	63	12
TX	1	10	37	41	11
WA	0	2	23	59	16
ALL	0	3	23	62	12
Prev Wk	0	3	24	61	12
Prev Yr	2	11	35	47	5

National crop conditions for selected States are weighted based on 1995 planted acres.

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