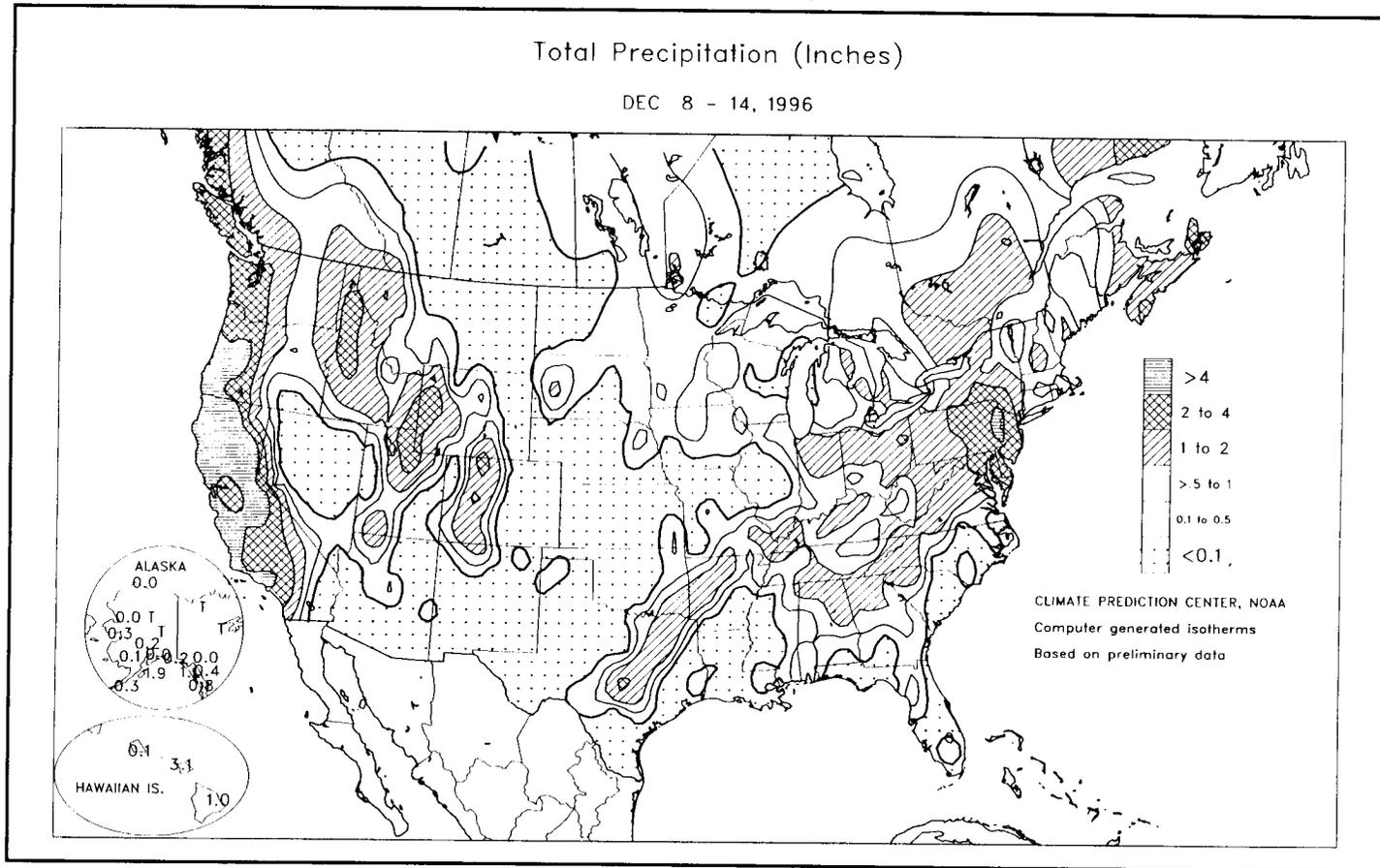


WEEKLY WEATHER AND CROP BULLETIN

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

December 8 - 14, 1996

Continuing a flow pattern that developed in late November, a fast-moving, west-to-east jet stream kept cold air at bay, but perpetuated the **West Coast's** 9-week wet spell. Weekly temperatures averaged 10 to 15°F above normal from the **Intermountain West** to the **Mississippi Delta**. The jet stream buckled at week's end, however, allowing the **West** to dry, but forcing frigid air southward toward the **Lower 48**. Strong downslope winds and a jet stream displaced northward from its normal December position contributed to warmth (and more than 50 daily-record highs) from the **central and southern Plains** eastward on December 9-12. Despite above-normal temperatures, heavy snow blanketed the **northern and central Rockies**. Precipitation fell in the **East** after midweek, including locally heavy rain and some snow in the **northern Middle Atlantic region**. At week's

end, heavy snow and high winds struck the **upper Midwest**, while rain developed from **eastern Texas** to the **Ozark Plateau**.

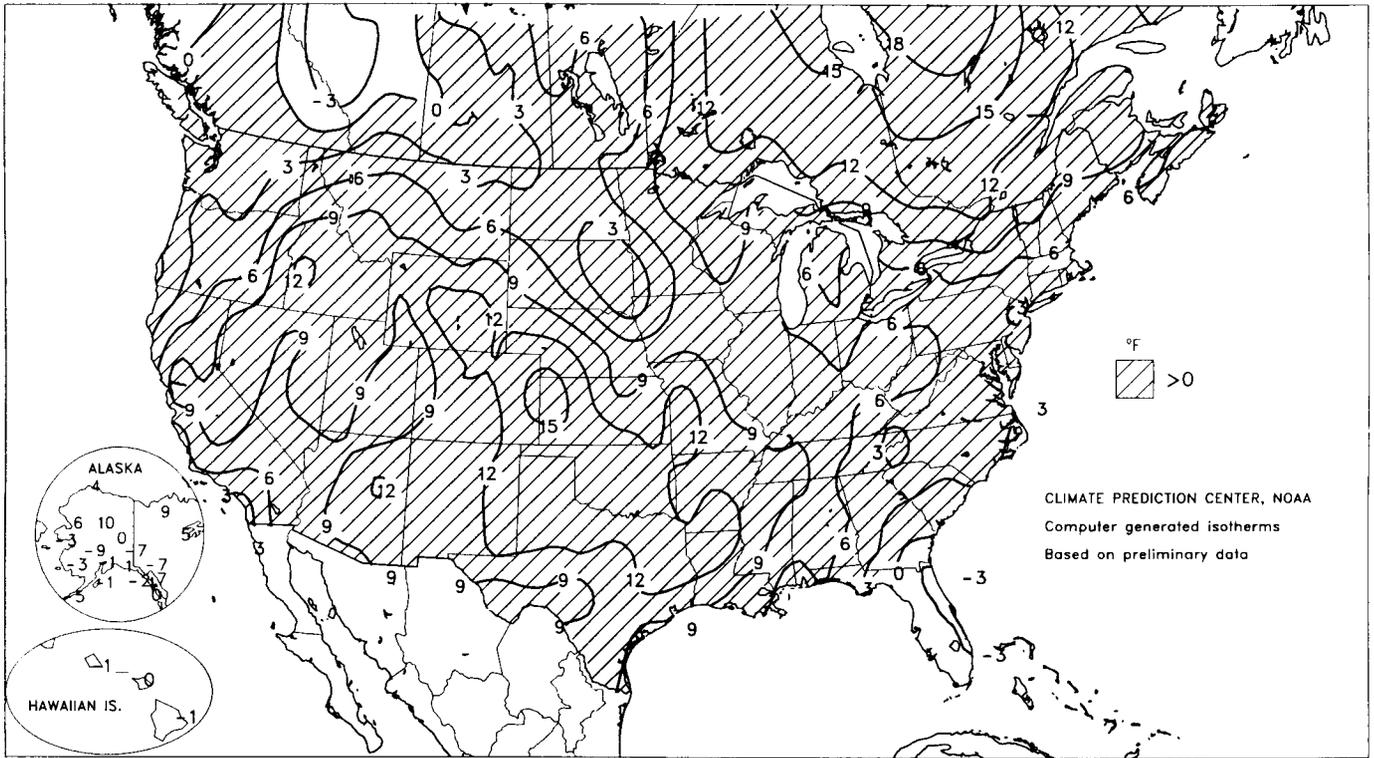
(Continued on back cover)

Contents

Temperature Departure & Extreme Minimum Temperature Maps	2
National Weather Data for Selected Cities	3
National Agricultural Summary & Snow Cover Map	6
International Weather and Crop Summary & November Precipitation/Temperature Maps ..	7
Subscription Information	20

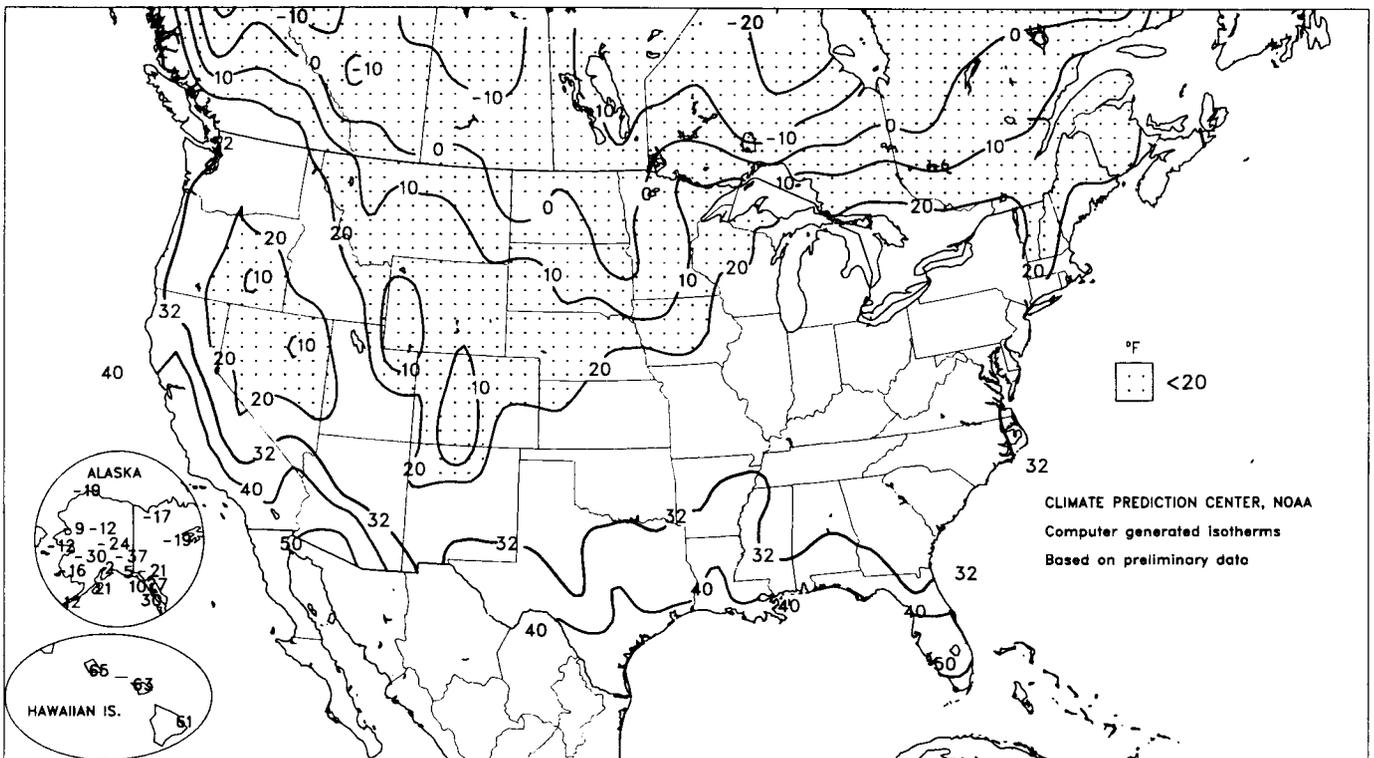
Departure of Average Temperature from Normal (°F)

DEC 8 - 14, 1996



Extreme Minimum Temperature (°F)

DEC 8 - 14, 1996



National Weather Data for Selected Cities

Weather Data for the Week Ending December 14, 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 Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP., °F			
																90 AND ABOVE	80 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
AL BIRMINGHAM	65	41	70	28	53	7	0.36	-0.79	0.36	1.06	46	60.51	117	88	38	0	1	1	0
MOBILE	71	48	77	37	59	6	0.57	-0.64	0.53	2.93	123	59.11	97	88	40	0	0	2	1
AK ANCHORAGE	22	8	28	2	15	-1	0.00	-0.25	0.00	0.05	10	14.27	93	75	67	0	7	0	0
BARRROW	-3	-10	1	-19	-7	4	0.00	-0.03	0.00	0.02	33	3.50	82	82	79	0	7	0	0
FAIRBANKS	2	-13	6	-24	-5	1	0.03	-0.16	0.02	0.20	51	11.14	106	83	76	0	7	2	0
JUNEAU	39	30	52	27	35	7	-	-	-	-	-	-	-	88	61	0	7	-	-
KODIAK	34	26	39	21	30	-1	1.93	0.42	1.02	3.58	121	52.41	82	86	68	0	7	5	2
NOME	10	-1	18	-12	4	-3	0.34	0.15	0.18	0.36	92	18.02	111	85	71	0	7	4	0
AZ PHOENIX	78	52	83	48	64	10	0.00	-0.22	0.00	0.00	0	4.27	56	64	23	0	0	0	0
PRESCOTT	58	36	63	27	47	-	0.24	-0.12	0.24	0.24	33	7.22	38	89	38	0	2	1	0
TUCSON	75	47	82	42	61	9	0.00	-0.25	0.00	0.00	0	10.49	92	87	24	0	0	0	0
YUMA	78	53	78	50	64	8	0.00	-0.11	0.00	0.00	0	0.93	32	65	23	0	0	0	0
AR FORT SMITH	64	41	75	32	53	12	0.34	-0.38	0.34	0.91	80	58.08	142	92	57	0	1	1	0
LITTLE ROCK	-	-	-	-	-	-	0.01	-1.10	0.01	0.71	30	48.65	104	-	-	-	-	-	-
CA BAKERSFIELD	64	50	71	42	57	9	0.80	0.66	0.40	0.82	293	7.65	142	92	53	0	0	3	0
EUREKA	59	44	62	35	52	3	7.91	6.54	4.71	12.05	433	51.35	149	92	34	0	0	6	3
FRESNO	61	49	66	42	56	10	2.06	1.76	1.11	2.43	396	14.43	148	95	51	0	0	4	2
LOS ANGELES	65	55	74	49	60	3	2.90	2.54	1.37	3.01	418	15.04	135	98	36	0	0	4	2
REDDING	58	46	61	40	52	7	2.22	0.99	1.05	4.51	185	37.29	123	87	59	0	0	5	1
SACRAMENTO	62	52	68	45	57	11	1.42	0.88	-	1.86	-	20.38	127	92	64	0	0	-	-
SAN DIEGO	64	55	68	51	60	2	0.38	0.02	0.20	0.45	62	7.00	77	99	47	0	0	2	0
SAN FRANCISCO	62	53	65	45	57	8	2.29	1.62	1.47	3.47	267	25.11	140	98	53	0	0	6	2
CO DENVER	58	30	66	17	44	12	0.00	-0.15	0.00	0.00	0	8.06	53	63	24	0	5	0	0
GRAND JUNCTION	48	30	55	23	39	7	0.02	-0.16	0.02	0.10	30	9.42	94	88	55	0	4	1	0
PUEBLO	61	24	73	18	43	11	0.00	-0.11	0.00	0.05	23	12.85	117	82	24	0	7	0	0
CT BRIDGEPORT	43	34	48	26	36	3	0.32	-0.48	0.21	4.69	290	54.42	136	96	87	0	3	3	0
HARTFORD	40	29	41	20	34	4	0.27	-0.63	0.11	3.82	211	52.88	126	95	70	0	4	3	0
DC WASHINGTON	49	37	53	31	43	3	1.99	1.27	1.91	4.81	336	50.32	136	88	65	0	2	2	1
FL PANAMA CITY	69	51	75	43	60	6	-	-	-	-	-	-	-	88	45	0	0	-	-
DAYTONA BEACH	70	48	77	37	58	-3	0.00	-0.58	0.00	1.91	165	80.41	130	97	44	0	0	0	0
JACKSONVILLE	87	40	78	30	54	-4	0.18	-0.46	0.16	1.64	130	54.52	114	93	42	0	2	2	0
KEY WEST	78	66	80	60	71	-1	0.00	-0.48	0.00	1.21	129	38.54	100	80	56	0	0	0	0
MIAMI	78	59	79	51	67	-2	0.22	-0.19	0.22	0.82	98	54.95	100	80	46	0	0	1	0
ORLANDO	72	48	79	37	58	-3	0.00	-0.50	0.00	2.08	208	58.27	120	93	42	0	0	0	0
TALLAHASSEE	68	40	75	32	54	1	0.08	-1.06	0.07	4.29	192	51.90	82	98	44	0	1	2	0
TAMPA	72	51	78	45	62	-1	0.03	-0.47	0.03	2.09	215	45.95	107	90	45	0	0	1	0
WEST PALM BEACH	78	55	80	48	65	-3	0.01	-0.50	0.01	0.33	31	38.60	67	94	39	0	0	1	0
GA ATLANTA	63	42	72	34	53	8	1.22	0.28	1.22	1.70	89	41.96	87	79	41	0	0	1	1
AUGUSTA	65	36	75	25	50	3	0.19	-0.55	0.19	1.33	93	34.58	81	87	29	0	3	1	0
MACON	68	39	75	28	52	3	0.59	-0.37	0.59	2.31	126	35.48	84	90	40	0	2	1	1
SAVANNAH	66	40	77	27	53	0	0.13	-0.52	0.13	1.81	146	31.76	67	94	41	0	2	1	1
HI HILO	79	64	82	61	72	-1	1.01	-1.80	0.39	5.15	89	119.83	97	88	62	0	0	3	0
HONOLULU	79	67	81	66	73	-1	0.28	-0.57	-	0.68	39	31.78	159	83	58	0	0	-	-
KAHULUI	80	66	82	63	73	0	3.06	2.36	3.02	3.57	261	21.30	112	86	62	0	0	2	1
LIHUE	-	68	-	65	-	-	-	-	-	-	-	-	-	86	68	0	0	-	-
ID BOISE	50	37	57	25	43	13	0.28	-0.02	0.16	0.66	108	11.20	99	85	51	0	1	3	0
LEWISTON	47	34	50	30	40	6	0.63	0.35	0.29	0.63	115	16.48	139	92	60	0	3	4	0
POCATELLO	44	31	54	23	37	12	0.80	0.35	0.18	0.85	170	11.25	98	87	63	0	5	6	0
IL CHICAGO	39	29	46	26	34	8	0.45	-0.14	0.43	0.74	61	30.68	89	94	72	0	5	3	0
MOLINE	39	28	47	23	34	7	0.23	-0.29	0.18	0.50	47	26.23	69	95	78	0	6	3	0
PEORIA	42	30	55	24	36	8	0.14	-0.43	0.13	0.47	40	27.28	78	89	71	0	5	2	0
QUINCY	47	29	61	19	38	8	-	-	-	-	-	-	-	96	63	0	5	-	-
ROCKFORD	35	28	43	25	31	8	1.26	0.78	0.92	1.58	158	42.30	120	95	77	0	6	2	1
SPRINGFIELD	47	32	61	23	39	9	0.00	-0.65	0.00	0.24	18	29.75	88	89	59	0	3	0	0
IN EVANSVILLE	51	35	68	26	43	5	0.78	-0.10	0.77	1.08	80	57.89	132	92	82	0	3	2	1
FORT WAYNE	39	31	47	24	35	5	1.05	0.37	0.80	1.49	109	42.19	127	94	79	0	4	2	1
INDIANAPOLIS	48	34	62	26	40	8	0.33	-0.45	0.22	0.69	44	50.99	133	87	67	0	3	3	0
SOUTH BEND	39	31	46	26	35	5	0.59	-0.18	0.59	1.11	71	41.22	110	90	89	0	4	1	1
IA DES MOINES	40	27	47	18	34	8	0.43	0.10	0.33	0.47	70	34.17	102	94	75	0	6	2	0
SIoux CITY	36	19	38	12	27	4	0.01	-0.18	0.01	0.07	18	31.71	125	96	80	0	7	1	0
WATERLOO	34	26	40	19	30	8	0.25	-0.06	0.25	0.36	55	29.07	88	97	82	0	7	1	0
KS CONCORDIA	51	28	58	24	39	9	0.00	-0.19	0.00	0.00	0	26.13	92	91	54	0	7	0	0
DODGE CITY	64	31	75	22	48	14	0.00	-0.15	0.00	0.00	0	32.43	153	88	29	0	4	0	0
GOODLAND	63	28	73	20	45	15	0.00	-0.09	0.00	0.00	0	19.13	107	78	29	0	4	0	0
TOPEKA	53	30	66	27	42	10	0.00	-0.33	0.00	0.00	0	36.63	108	91	58	0	5	0	0
WICHITA	58	33	70	26	45	11	0.00	-0.33	0.00	0.00	0	26.10	76	91	55	0	3	0	0
KY BOWLING GREEN	58	35	71	20	46	7	0.32	-0.85	0.32	0.32	14	53.67	111	91	58	0	3	1	0
LEXINGTON	51	35	65	25	43	6	1.48	0.55	1.45	2.10	114	50.45	119	86	62	0	4	2	1

Weather Data for the Week Ending December 14, 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 DEC 1	PCT. NORMAL SINCE DEC 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
ME CARIBOU	33	23	41	18	28	12	0.42	-0.33	0.41	1.50	98	36.59	104	96	73	0	7	2	0
ME PORTLAND	41	29	50	22	35	7	1.34	0.28	1.20	4.05	186	52.22	124	96	70	0	6	4	1
MD BALTIMORE	48	34	52	27	41	3	3.11	2.34	2.74	6.29	408	54.86	141	94	64	0	3	5	1
MD SALISBURY	51	36	65	27	43	3	1.77	0.94	1.19	3.85	238	53.61	124	93	60	0	1	2	2
MA BOSTON	44	34	48	29	38	5	0.59	-0.33	0.29	3.52	189	48.70	123	88	65	0	2	5	0
MA CHATHAM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MI ALPENA	34	27	37	22	31	6	1.03	0.56	0.82	3.17	334	27.71	100	96	78	0	7	4	1
MI DETROIT	39	30	48	24	35	6	0.55	-0.11	0.43	0.80	80	23.90	77	93	68	0	5	3	0
MI FLINT	37	30	48	27	34	5	0.21	-0.29	0.19	0.65	82	23.90	82	93	72	0	6	2	0
MI GRAND RAPIDS	37	30	48	28	34	6	0.27	-0.40	0.12	1.56	113	26.21	78	90	71	0	7	4	0
MI HOUGHTON LAKE	33	28	38	24	30	7	0.27	-0.18	0.18	1.59	171	33.37	122	93	79	0	7	4	0
MI LANSING	38	30	47	27	34	7	0.80	0.12	0.52	1.11	112	27.05	89	94	70	0	7	4	1
MI MARQUETTE	30	21	35	15	26	7	0.33	-0.28	0.23	0.91	75	38.94	115	93	76	0	7	3	0
MI MUSKEGON	38	31	41	28	34	5	0.25	-0.45	0.12	0.96	68	25.33	82	90	73	0	4	5	0
MI SAULT ST. MARIE	34	25	37	18	29	9	0.80	-0.07	0.23	1.46	107	40.43	123	93	71	0	7	5	0
MN ALEXANDRIA	26	15	32	5	20	6	-	-	-	-	-	-	-	96	82	0	7	-	-
MN DULUTH	28	20	33	12	24	10	0.08	-0.22	0.08	0.09	16	35.70	122	91	79	0	7	1	0
MN INT'L FALLS	26	18	33	15	22	14	0.18	-0.03	0.16	0.23	59	27.31	114	92	78	0	7	1	0
MN MINNEAPOLIS	31	20	35	7	25	6	0.34	0.09	0.34	0.54	104	24.76	89	90	74	0	7	1	0
MN ROCHESTER	31	22	34	18	26	8	0.41	0.17	0.35	0.68	129	29.05	100	94	83	0	7	3	0
MS GREENWOOD	69	44	75	32	56	9	-	-	-	-	-	-	-	93	46	0	1	-	-
MS JACKSON	70	43	78	33	57	9	0.01	-1.41	0.01	0.01	0	51.75	100	92	43	0	0	1	0
MS MERIDIAN	69	42	76	29	55	6	0.43	-0.96	0.43	0.51	19	52.53	98	94	42	0	2	1	0
MO CAPE GIRARDEAU	55	36	72	23	46	9	1.04	0.00	0.83	1.58	76	40.82	82	93	56	0	2	2	1
MO COLUMBIA	53	31	69	22	42	10	0.10	-0.53	0.10	0.27	21	38.78	104	89	57	0	4	1	0
MO KANSAS CITY	52	32	65	27	42	10	0.02	-0.35	0.02	0.02	3	32.52	88	90	61	0	4	1	0
MO SAINT LOUIS	51	31	67	22	41	6	0.01	-0.71	0.01	0.52	35	42.34	117	90	64	0	4	1	0
MO SPRINGFIELD	58	37	71	31	48	12	0.24	-0.41	0.24	0.42	31	41.74	99	85	58	0	2	1	0
MT BILLINGS	41	27	48	20	34	8	0.04	-0.13	0.04	0.04	12	11.85	81	87	63	0	6	1	0
MT GLASGOW	24	11	38	0	18	1	0.01	-0.07	0.01	0.03	21	9.93	93	93	82	0	7	1	0
MT GREAT FALLS	41	25	52	14	33	8	0.15	-0.04	0.10	0.15	41	9.08	62	91	80	0	6	3	0
MT HAVRE	31	13	38	0	22	4	0.02	-0.09	0.02	0.02	9	10.75	99	93	74	0	7	1	0
MT HELENA	41	20	47	11	31	9	0.03	-0.11	0.02	0.03	12	9.35	83	86	59	0	7	2	0
MT KALISPELL	33	25	39	17	29	6	0.72	0.33	0.21	1.02	134	23.49	151	96	82	0	7	7	0
MT MILES CITY	36	19	41	7	27	7	0.03	-0.11	0.03	0.08	29	13.02	95	95	68	0	7	1	0
MT MISSOULA	36	24	43	10	30	6	0.90	0.85	0.28	1.06	216	15.73	122	95	73	0	5	6	0
NE GRAND ISLAND	46	26	51	20	36	10	0.03	-0.14	0.03	0.03	8	30.99	126	93	63	0	7	1	0
NE LINCOLN	44	24	53	21	34	8	0.07	-0.14	0.07	0.07	16	36.83	129	98	64	0	7	1	0
NE NORFOLK	36	22	42	19	29	6	0.10	-0.07	0.10	0.18	50	25.48	103	93	77	0	7	1	0
NE NORTH PLATTE	54	21	64	15	37	12	0.00	-0.11	0.00	0.00	0	24.75	130	89	37	0	7	0	0
NE OMAHA	41	27	46	22	34	7	0.29	0.05	0.28	0.32	64	31.52	107	94	72	0	7	2	0
NE SCOTTSBLUFF	56	24	64	17	40	13	0.00	-0.14	0.00	0.02	7	16.33	109	80	32	0	5	0	0
NE VALENTINE	43	22	50	10	32	6	0.02	-0.10	0.02	0.02	8	16.90	76	94	61	0	7	1	0
NV ELY	46	31	53	17	39	13	0.05	-0.12	0.06	0.07	21	6.95	70	79	57	0	3	1	0
NV LAS VEGAS	82	45	67	39	54	8	0.00	-0.08	0.00	0.00	0	1.80	46	81	33	0	0	0	0
NV RENO	55	38	64	22	47	14	0.89	0.47	0.45	0.85	193	9.92	142	68	37	0	1	4	0
NV WINNEMUCCA	49	31	56	17	40	10	0.28	0.09	0.11	1.39	339	9.03	116	88	48	0	3	3	0
NH CONCORD	37	26	40	15	31	6	1.20	0.46	0.87	3.46	231	43.31	124	94	62	0	6	3	1
NJ ATLANTIC CITY	46	35	51	26	41	4	1.99	1.25	1.35	4.91	325	49.22	126	91	53	0	3	6	1
NM ALBUQUERQUE	58	34	82	28	48	10	0.00	-0.11	0.00	0.00	0	9.76	114	74	33	0	4	0	0
NM CLOVIS	68	37	73	30	53	14	-	-	-	-	-	-	-	74	23	0	1	-	-
NM ROSWELL	73	35	79	29	54	12	-	-	-	-	-	-	-	89	23	0	4	-	-
NY ALBANY	38	29	40	19	33	6	0.90	0.22	0.33	3.50	252	42.85	123	98	80	0	3	6	0
NY BINGHAMTON	35	29	40	26	32	5	2.28	1.58	1.78	5.34	379	46.88	132	96	76	0	6	4	1
NY BUFFALO	40	30	51	23	35	5	0.35	-0.51	0.16	1.01	58	46.15	123	98	72	0	4	4	0
NY NEW YORK	45	39	47	35	42	4	0.77	-0.01	0.55	3.58	225	44.87	111	87	66	0	0	5	1
NY ROCHESTER	41	30	48	23	36	6	0.80	-0.03	0.58	1.33	102	43.56	142	95	67	0	5	3	1
NY SYRACUSE	40	32	43	27	36	7	1.88	0.93	1.48	3.14	204	38.90	104	91	72	0	3	5	1
NC ASHEVILLE	53	31	63	21	42	2	0.73	-0.29	0.73	2.86	140	46.07	86	91	47	0	5	1	1
NC CHARLOTTE	59	39	66	27	48	6	0.74	-0.03	0.74	2.08	135	39.58	96	80	42	0	2	1	1
NC GREENSBORO	54	34	65	23	44	3	0.78	0.02	0.75	2.88	191	49.79	122	90	50	0	3	2	1
NC HATTERAS	55	45	61	37	50	0	0.02	-0.98	0.01	2.39	119	-	-	86	67	0	0	2	0
NC NEW BERN	60	43	73	30	52	4	0.14	-0.67	0.14	1.57	99	54.80	105	78	42	0	1	1	0
NC RALEIGH	58	37	74	24	48	4	0.03	-0.69	0.03	1.83	114	56.27	142	89	50	0	3	1	0
NC WILMINGTON	60	41	74	26	51	3	0.00	-0.89	0.00	1.96	113	63.47	116	94	50	0	2	0	0
ND BISMARCK	27	14	32	6	20	5	0.14	0.03	0.06	0.19	86	20.16	132	88	72	0	7	3	0
ND FARGO	25	13	34	0	19	6	0.14	0.00	0.10	0.14	50	13.02	68	89	77	0	7	2	0
ND GRAND FORKS	27	13	33	-3	20	9	0.02	-0.12	0.02	0.15	54	16.10	80	95	79				

Weather Data for the Week Ending December 14, 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 Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	01 INCH OR MORE	05 INCH OR MORE	
OK TOLEDO	40	31	47	28	36	7	0.97	0.28	0.58	1.29	91	28.30	90	96	72	0	5	3	1	
OK YOUNGSTOWN	41	30	52	25	36	5	1.54	0.85	1.16	2.03	146	40.27	112	94	74	0	5	3	1	
OK OKLAHOMA CITY	86	40	75	29	53	13	0.00	-0.33	0.00	0.00	0	37.90	116	83	41	0	1	0	0	
OR TULSA	65	39	74	31	52	13	0.10	-0.41	0.10	0.10	9	31.20	79	84	44	0	1	1	0	
OR ASTORIA	49	37	62	31	43	0	2.63	0.23	0.89	6.38	133	78.83	129	97	75	0	1	6	2	
OR BURNS	40	24	48	7	32	6	0.86	0.59	-	1.77	316	12.71	136	99	69	0	4	-	-	
OR MEDFORD	48	37	50	30	42	4	2.86	1.89	1.47	5.61	364	27.02	157	97	56	0	2	6	2	
OR PENDLETON	48	36	51	32	42	7	0.52	0.18	0.21	0.98	131	13.28	118	94	61	0	1	6	0	
OR PORTLAND	48	40	50	32	44	3	2.03	0.62	0.65	5.51	197	54.45	164	96	75	0	1	6	1	
PA SALEM	48	39	52	29	43	3	2.34	0.78	0.65	6.89	214	58.83	165	97	79	0	1	5	2	
PA ALLENTOWN	41	30	46	23	36	3	2.50	1.70	1.53	6.15	377	55.31	132	94	71	0	5	5	2	
PA ERIE	39	28	42	17	34	1	0.60	-0.25	0.48	0.88	51	47.65	120	95	76	0	4	2	0	
PA HARRISBURG	44	35	48	28	39	5	2.56	1.82	-	5.34	342	51.79	133	93	66	0	3	-	-	
PA PHILADELPHIA	46	35	51	28	40	5	3.81	2.98	1.68	7.78	483	53.06	121	91	65	0	2	4	2	
PA PITTSBURGH	47	34	57	25	40	8	1.09	0.43	0.77	1.57	119	44.13	126	96	67	0	4	4	1	
PA SCRANTON	38	31	43	28	35	4	1.81	1.22	0.96	4.33	361	47.42	135	97	71	0	6	6	1	
RI PROVIDENCE	44	32	45	24	38	4	0.39	-0.61	0.16	4.06	201	46.26	107	92	65	0	3	5	0	
SC CHARLESTON	63	41	74	28	52	0	0.20	-0.50	0.20	1.08	80	38.17	77	88	40	0	2	1	0	
SC COLUMBIA	63	38	74	25	51	3	0.07	-0.71	0.07	1.31	86	32.23	87	87	41	0	4	1	0	
SC FLORENCE	61	39	73	25	50	2	-	-	-	-	-	-	-	89	39	0	2	-	-	
SD GREENVILLE	59	37	66	27	48	4	0.79	-0.15	0.79	3.18	172	50.53	103	85	43	0	4	1	1	
SD ABERDEEN	23	8	29	-1	16	-1	0.40	0.29	0.28	0.42	175	24.68	118	92	81	0	7	3	0	
SD HURON	28	13	34	1	21	1	0.17	0.06	0.17	0.20	91	18.43	93	90	79	0	7	1	0	
SD RAPID CITY	43	24	62	16	34	9	0.97	0.86	0.92	1.00	456	19.98	122	87	58	0	7	2	1	
SD SIOUX FALLS	27	10	34	1	19	0	0.11	-0.06	0.11	0.28	80	19.63	83	96	86	0	7	1	0	
TN CHATTANOOGA	58	37	66	25	48	6	0.45	-0.73	0.45	1.57	87	52.83	104	92	49	0	4	1	0	
TN KNOXVILLE	55	37	65	25	46	5	0.43	-0.80	0.43	2.25	111	48.00	107	91	54	0	3	1	0	
TN MEMPHIS	66	47	72	36	56	11	0.79	-0.58	0.79	1.56	57	71.09	144	79	48	0	0	1	1	
TN NASHVILLE	58	39	71	23	49	7	0.89	-0.38	0.89	1.14	53	45.50	101	83	51	0	3	1	1	
TX ABILENE	73	46	79	33	59	13	0.00	-0.24	0.00	0.00	0	27.76	116	87	38	0	0	0	0	
TX AMARILLO	67	38	80	28	52	15	0.00	-0.09	0.00	0.00	0	20.52	106	73	28	0	2	0	0	
TX AUSTIN	75	52	78	43	63	11	0.00	-0.44	0.00	0.23	26	26.32	85	88	40	0	0	0	0	
TX BEAUMONT	73	56	77	40	64	9	0.00	-1.07	0.00	0.29	13	46.24	85	99	62	0	0	0	0	
TX BROWNSVILLE	81	60	84	50	71	8	0.00	-0.28	0.00	0.06	9	27.99	108	96	51	0	0	0	0	
TX CORPUS CHRISTI	80	57	86	43	68	9	0.01	-0.27	0.01	0.03	5	17.94	61	94	50	0	0	1	0	
TX DEL RIO	75	47	83	39	61	8	0.01	-0.24	0.01	0.01	2	10.94	45	91	34	0	0	1	0	
TX EL PASO	70	41	74	35	56	11	0.00	-0.14	0.00	0.00	0	9.11	106	59	23	0	0	0	0	
TX FORT WORTH	73	46	80	33	59	13	0.00	-0.48	0.00	0.04	4	30.36	84	93	52	0	0	0	0	
TX GALVESTON	72	61	76	50	66	9	0.00	-0.80	0.00	0.08	5	28.71	73	96	73	0	0	0	0	
TX HOUSTON	76	53	80	38	65	11	0.01	-1.11	0.01	0.04	2	35.81	69	94	57	0	0	1	0	
TX LUBBOCK	73	39	78	30	56	15	0.00	-0.13	0.00	0.00	0	13.56	74	87	23	0	1	0	0	
TX MIDLAND	73	41	77	34	57	11	0.00	-0.11	0.00	0.00	0	9.08	61	87	31	0	0	0	0	
TX SAN ANGELO	73	41	77	31	57	10	0.04	-0.14	0.04	0.04	11	22.44	112	90	38	0	1	1	0	
TX SAN ANTONIO	77	48	84	38	62	9	0.00	-0.34	0.00	0.29	40	15.86	62	89	38	0	0	0	0	
TX VICTORIA	77	53	80	40	65	9	0.00	-0.66	0.00	0.08	6	24.41	56	96	45	0	0	0	0	
TX WACO	73	46	81	34	60	11	0.00	-0.43	0.00	0.00	0	24.52	79	92	46	0	0	0	0	
TX WICHITA FALLS	72	42	81	32	57	13	0.00	-0.36	0.00	0.00	0	22.83	81	87	43	0	1	0	0	
UT CEDAR CITY	52	33	61	23	43	12	0.18	-0.01	0.13	0.36	106	12.17	109	91	49	0	3	2	0	
UT SALT LAKE CITY	50	35	59	24	43	12	0.51	0.18	0.23	1.45	220	17.06	110	83	41	0	2	4	0	
VT BURLINGTON	38	30	45	25	34	10	0.87	0.10	0.38	2.93	248	41.09	123	95	65	0	6	3	0	
VA NORFOLK	54	41	68	35	47	3	0.04	-0.67	0.04	1.62	117	49.63	118	92	66	0	0	1	0	
VA RICHMOND	53	36	66	28	45	4	0.73	-0.01	0.70	3.55	243	52.80	128	89	49	0	3	2	1	
VA ROANOKE	51	33	60	25	42	3	0.61	-0.08	0.47	2.01	148	51.03	129	81	52	0	4	3	0	
WA QUILLAYUTE	47	34	50	32	40	0	2.82	-0.70	1.19	7.29	104	90.02	93	99	78	0	2	6	3	
WA SEATTLE-TACOMA	47	37	51	33	42	2	1.52	0.17	0.67	3.46	128	43.86	128	96	71	0	0	6	1	
WA SPOKANE	36	30	41	19	33	5	1.29	0.74	0.53	1.99	181	22.96	150	96	86	0	4	6	1	
WA YAKIMA	37	24	43	12	31	1	0.46	0.13	0.20	1.16	193	10.35	145	96	80	0	7	5	0	
WV BECKLEY	49	31	65	18	40	5	0.71	-0.03	0.52	1.90	129	56.00	142	92	62	0	4	5	1	
WV CHARLESTON	52	35	68	25	44	6	0.18	-0.62	0.08	0.49	31	54.23	133	91	58	0	4	4	0	
WV HUNTINGTON	52	36	65	27	44	8	0.40	-0.42	0.34	0.80	48	48.57	117	88	59	0	4	2	0	
WV PARKERSBURG	51	36	65	28	44	8	0.82	0.17	0.63	1.31	102	47.80	122	94	57	0	4	2	1	
WI GREEN BAY	34	26	38	20	30	8	0.08	-0.27	0.09	0.22	29	23.72	84	90	77	0	7	1	0	
WI LACROSSE	34	27	38	21	31	9	0.42	0.12	-	0.78	122	29.29	98	90	71	0	7	-	-	
WI MADISON	35	27	42	24	31	8	0.21	-0.18	0.21	0.46	58	29.24	93	92	77	0	6	1	0	
WI MILWAUKEE	38	31	45	26	34	9	0.15	-0.40	0.11	0.43	39	21.49	67	87	66	0	5	2	0	
WI WAUSAU	31	24	35	18	28	9	0.18	-0.18	0.18	0.46	65	33.97	106	89	69	0	7	1	0	
WY CASPER	47	29	62	8	38	13	0.09	-0.07	0.05	0.35	109	10.41	85	79	47	0	4	2	0	
WY CHEYENNE	49	30	62	15	40	11	0.00	-0.09	0.00	0.00	0	15.70	111	72	37	0	4	0	0	
WY LANDER	46	25	55	18	36	14	0.02	-0.12	0.02	0.02	7	8.86	69	79	41	0	6	1	0	
WY SHERIDAN	44	19	57	15	31	8	0.06	-0.11	0.06	0.18	55	12.58	89	90	64	0	7	1	0	
PR SAN JUAN	-	74	-	72	-	-	0.85	-0.27	-	1.06	48	65.03	134	90	77	-	-	-	-	

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

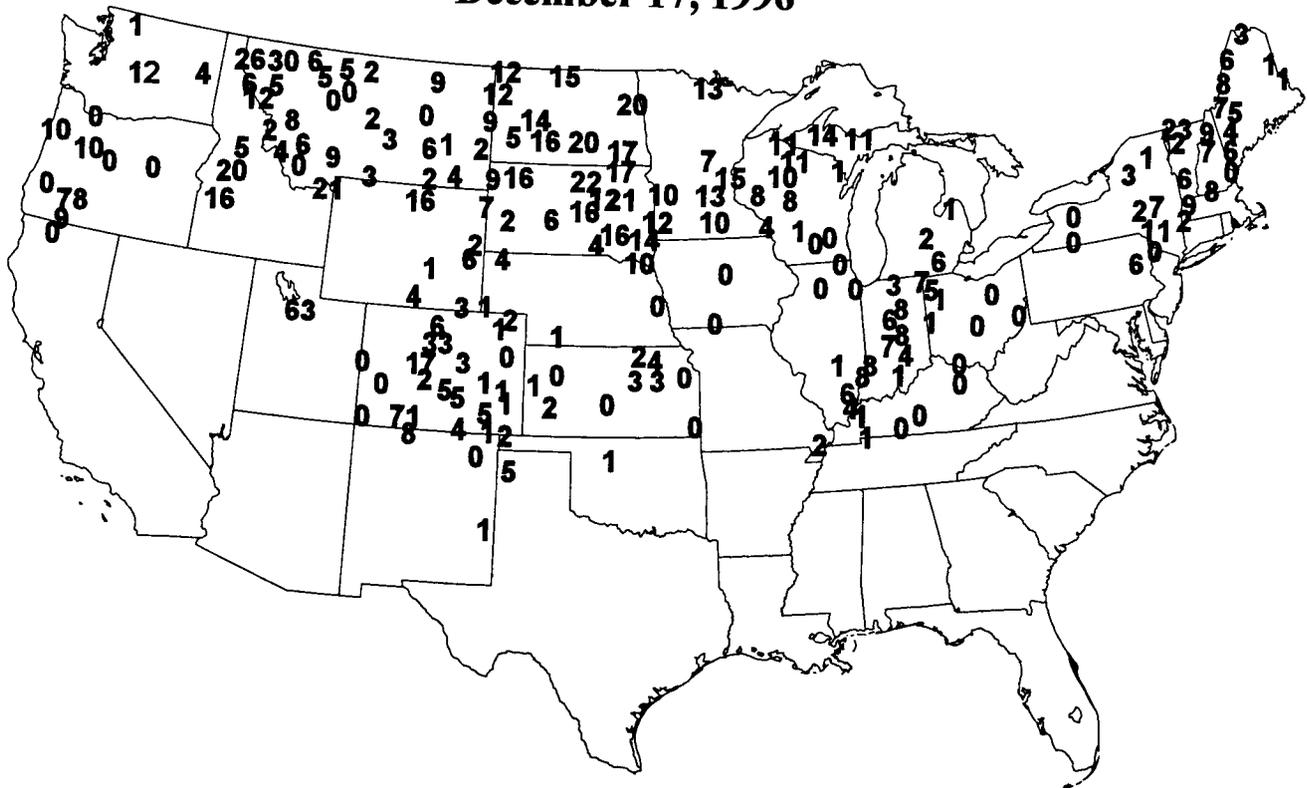
December 9 - 15, 1996

HIGHLIGHTS

For the second consecutive week, heavy rain along the Pacific Coast caused flooding and left many fields too wet for fieldwork despite drier weather at week's end. Significant snowfall across the upper Great Plains and Great Lakes region provided adequate snowcover for small grains but prevented fieldwork. Above-normal temperatures prevailed across the southern Great Plains, generating vigorous winter wheat growth, and allowing cotton producers to make good harvest progress. Precipitation fell from the Tennessee Valley

to the Northeast, providing moisture for small grains. Continued dry weather in the central High Plains combined with windy weather threatened some wheat fields. In the mid-Atlantic, intense rainfall restricted harvest activity but improved small grain and pasture conditions. Dry weather in Florida furnished ideal harvesting conditions, while low temperatures and some scattered frost held new growth on citrus in check. Movement of Navel oranges for the holiday season was at its peak for the season.

SNOW DEPTH (Inches) December 17, 1996



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. Gaps in data coverage will be disappearing as more data come online.

International Weather and Crop Summary

December 8 - 14, 1996

HIGHLIGHTS

FSU WESTERN: Most winter grain areas continued to lack a protective snow cover, leaving crops more vulnerable to potential extreme cold.

EUROPE: Wet weather prevailed over crop areas in the south, while unseasonably cold weather covered dormant winter grains in the north.

NORTHWESTERN AFRICA: Generous rains continued to benefit winter grain development in Morocco, while farther east, unfavorable dryness persisted in Algeria.

AUSTRALIA: Beneficial rain covered Queensland's summer crops as mostly dry weather elsewhere aided winter grain harvesting.

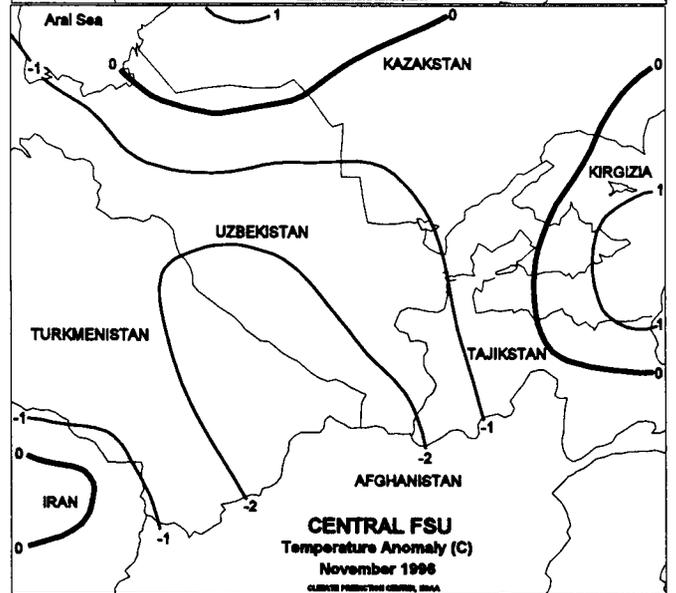
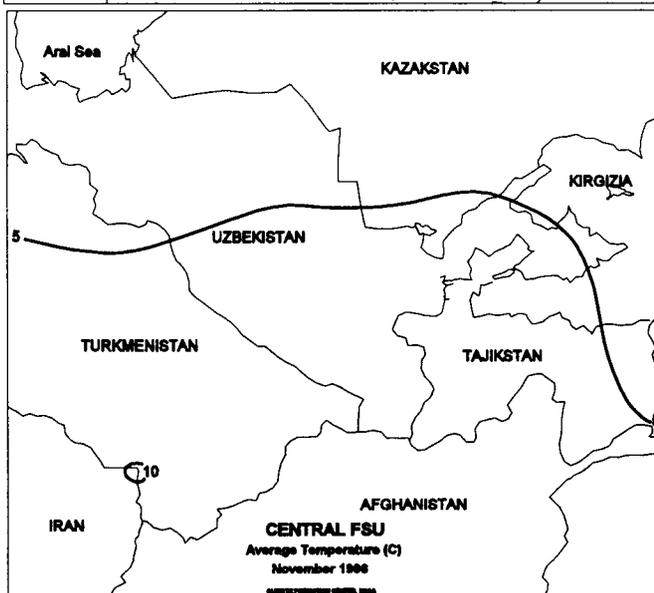
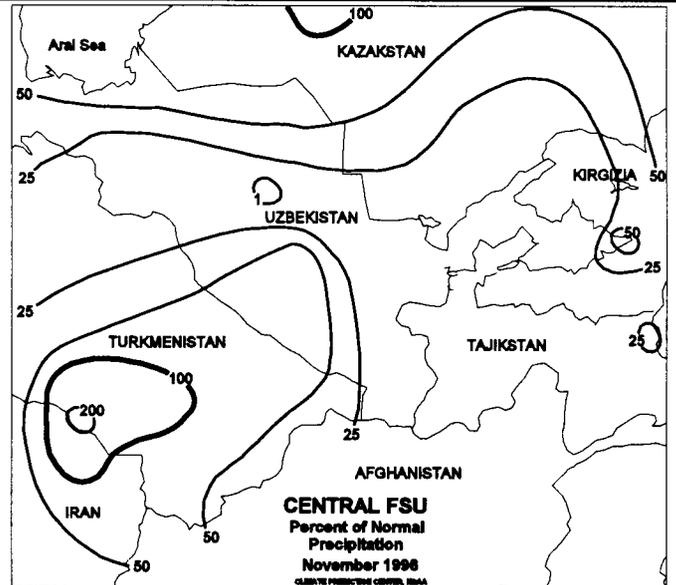
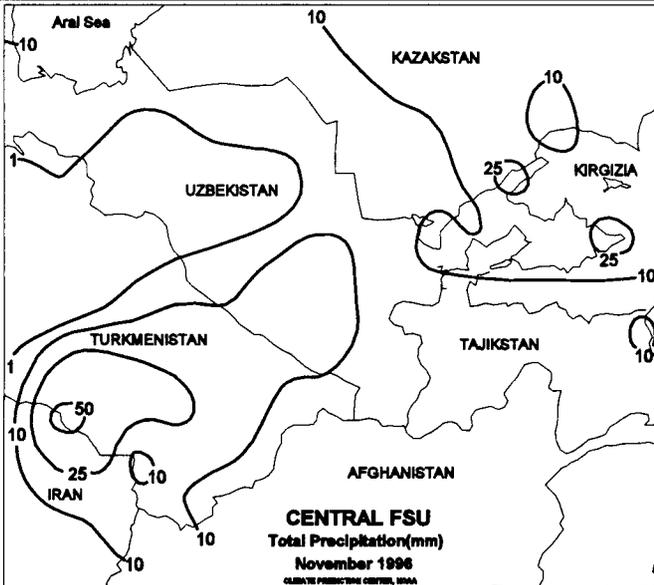
SOUTH ASIA: Inundating rain flooded coastal rice areas of India's southern tip.

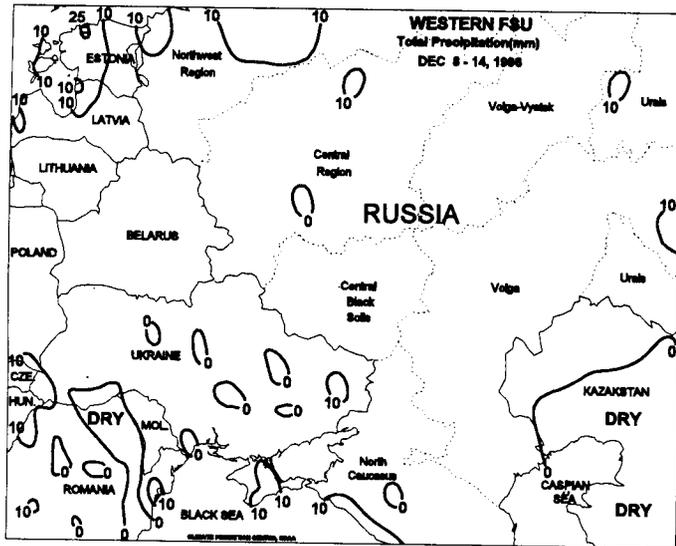
SOUTH AFRICA: Showers across the corn belt maintained generally favorable early crop prospects.

SOUTHEAST ASIA: Heavy showers continued across the east-central Philippines and peninsular Thailand and Malaysia, causing additional flooding.

EASTERN ASIA: Warmer weather prevented winter wheat from entering dormancy in the North China Plain.

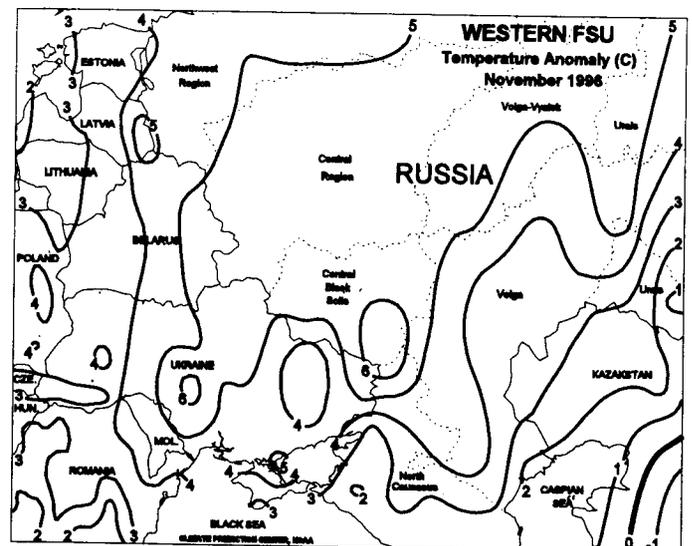
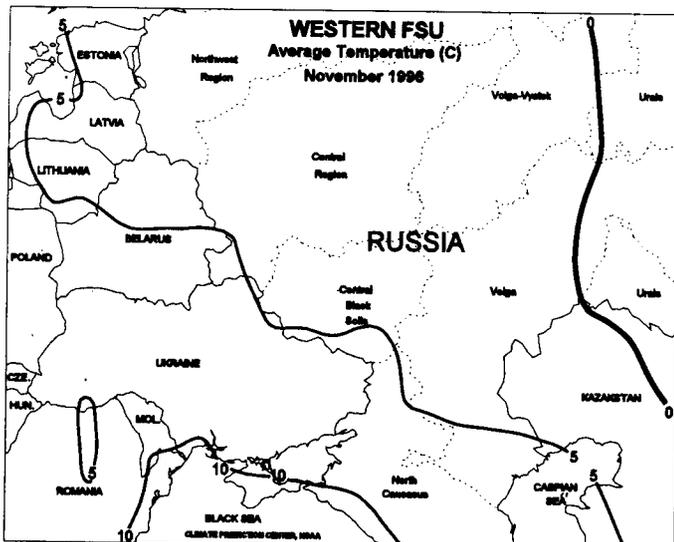
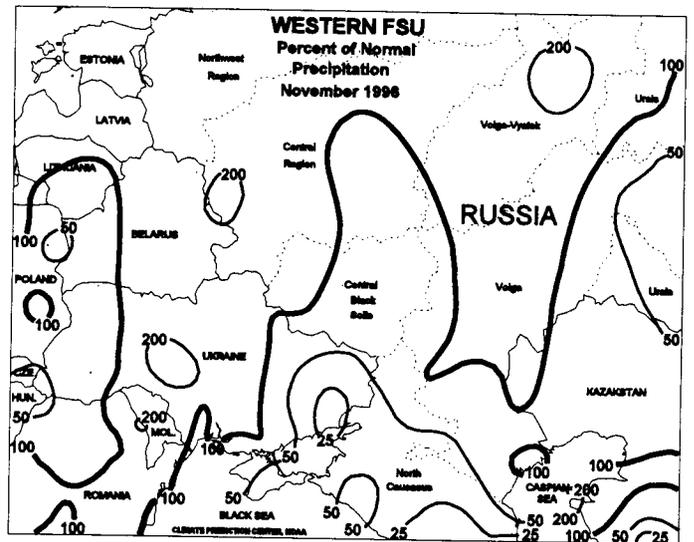
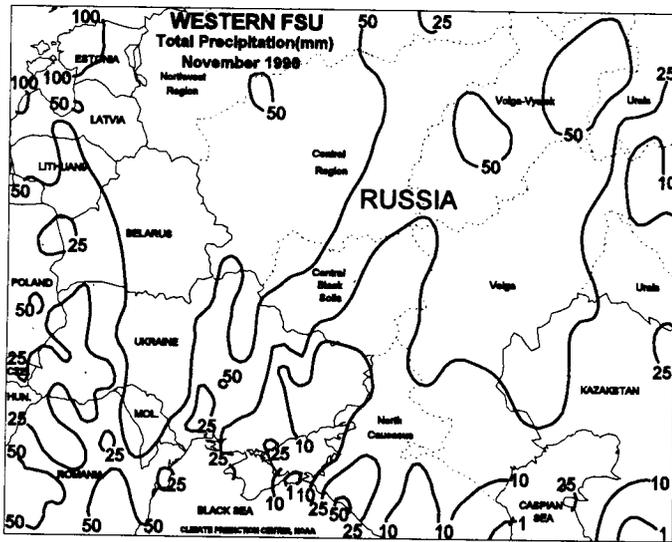
SOUTH AMERICA: Isolated heavy rain slowed winter wheat maturation and harvesting in Argentina and possibly caused some wheat damage. Widespread rain maintained favorable soil moisture for soybeans across southern Brazil.

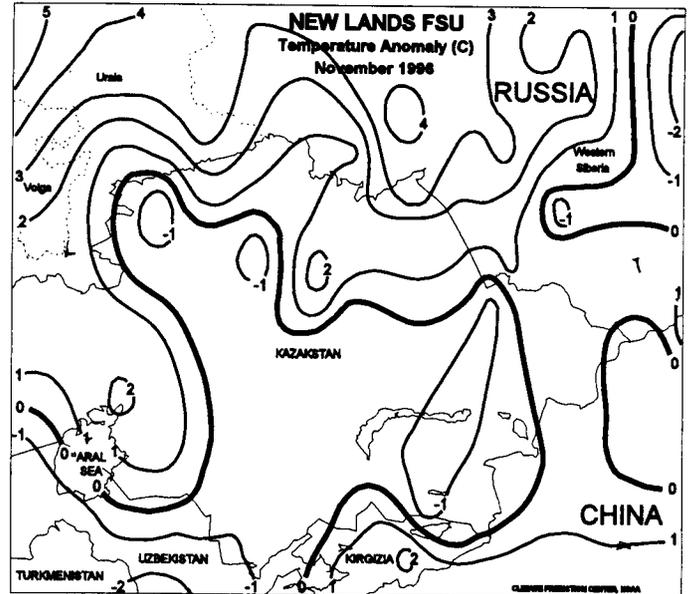
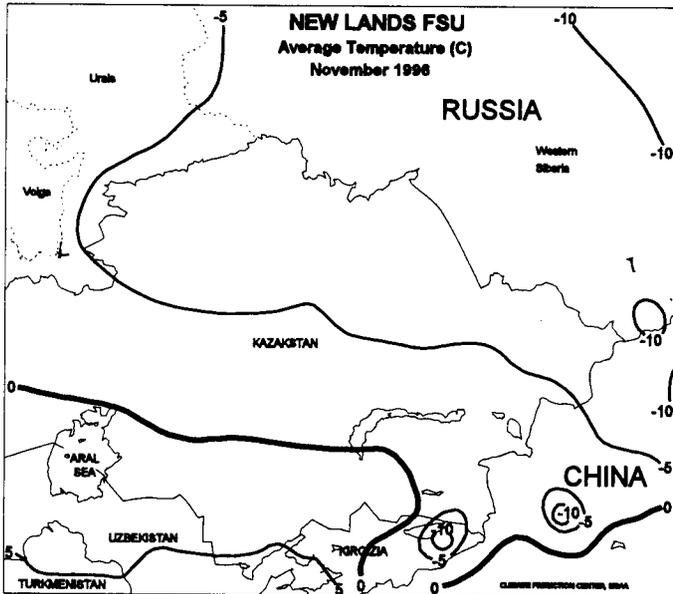
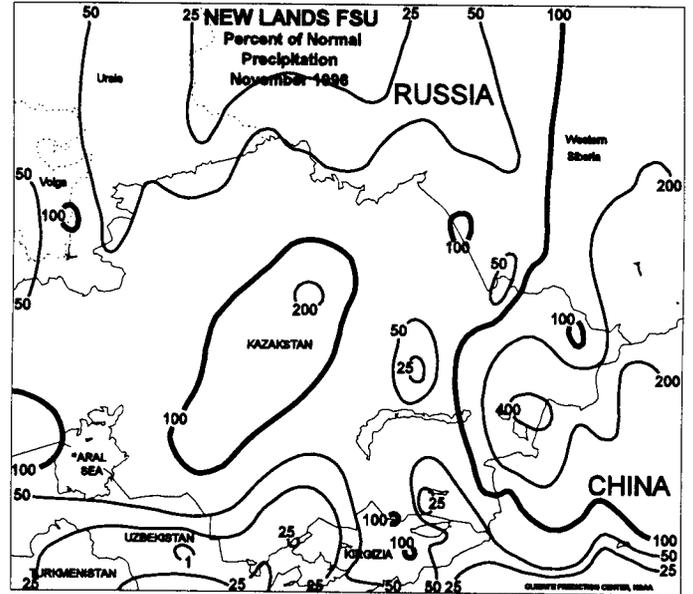
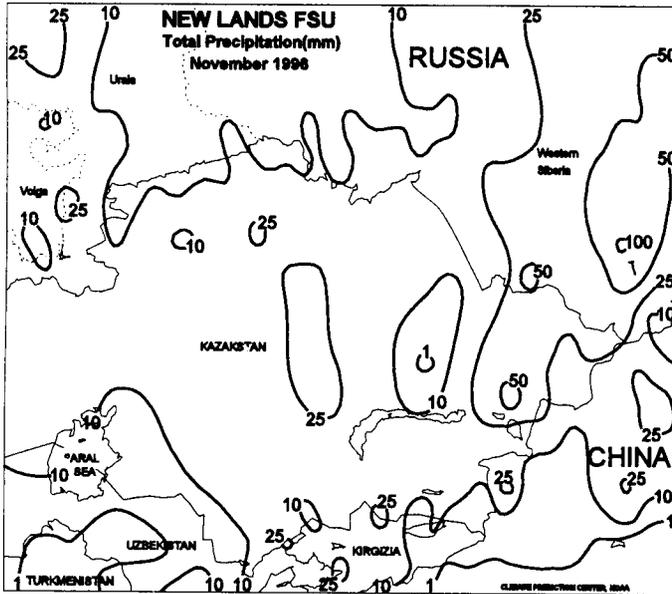


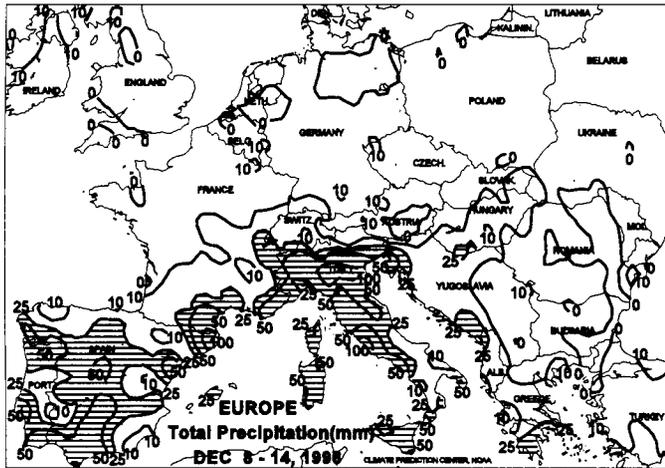


FSU-WESTERN

The sixth consecutive week of unusually mild weather prevailed over winter grain areas. Weekly temperatures averaged 3 to 5 degrees C above normal in Russia, and 1 to 4 degrees C above normal in the Baltics, Belarus, and Ukraine. However, temperatures were low enough to induce winter grains into dormancy as far south as the Black Sea Coast. Most areas continued to lack a protective snow cover, leaving winter grains highly vulnerable to potential extreme cold. Generally dry weather prevailed over most of the region with precipitation amounts mostly below 5 mm. In November, unusually mild weather prevailed in Russia, Ukraine, Belarus, the Baltics, and Moldova. Temperatures in these areas averaged 3 to 6 degrees C above normal, providing generally favorable conditions for winter grains but causing a lack of snow cover. Although temperatures were low enough to keep winter grains dormant in northern Russia, the mild weather caused winter grains to enter dormancy 4 to 5 weeks later than usual in Belarus, the Baltics, western and northern Ukraine, and most of southern Russia. Furthermore, winter wheat in southern Ukraine and the western portion of the North Caucasus region in Russia continued to develop. Above-normal precipitation helped to recharge soil moisture in Moldova, central Ukraine, most of Belarus, Latvia, and Estonia. Most of the moisture fell as rain during November 23-30. Elsewhere, below-normal precipitation occurred in western and eastern Ukraine and adjacent areas in Russia.

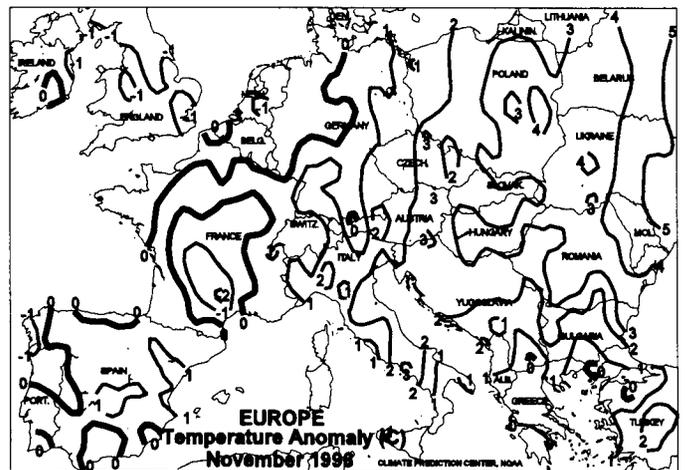
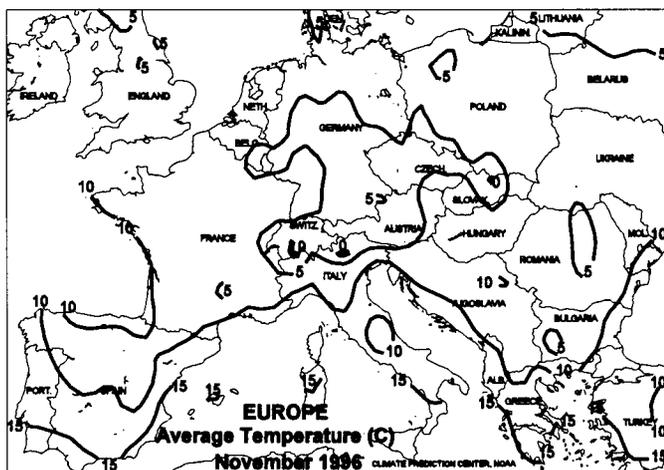
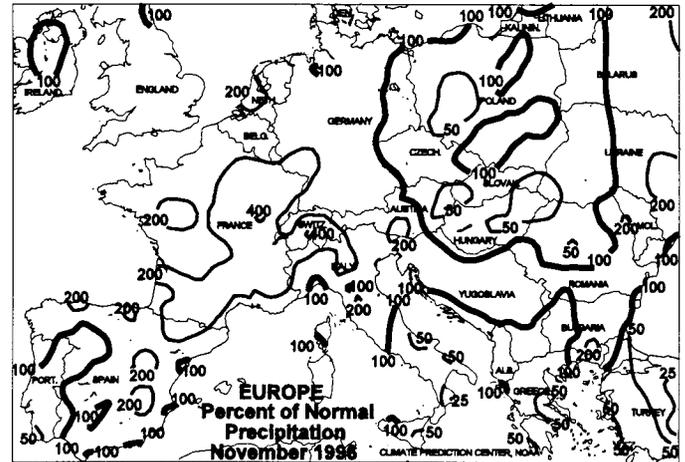
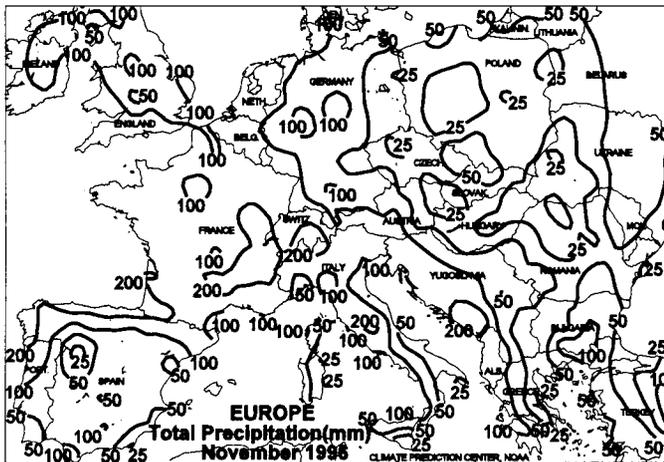


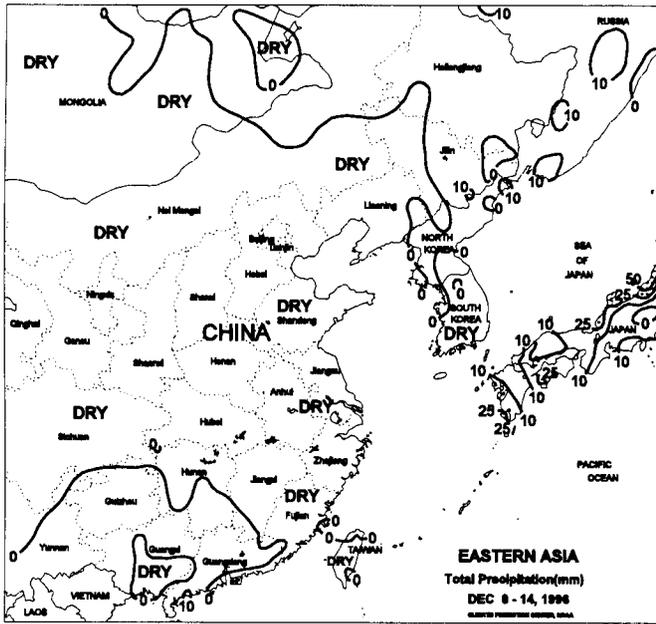




EUROPE

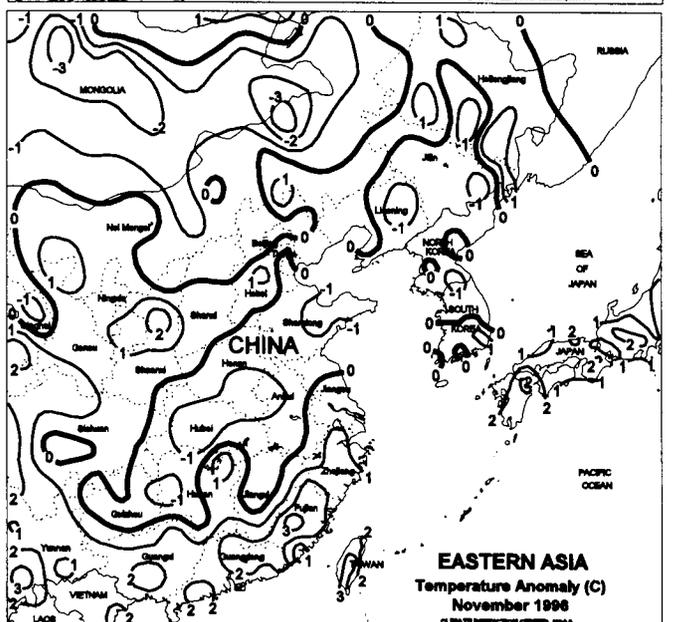
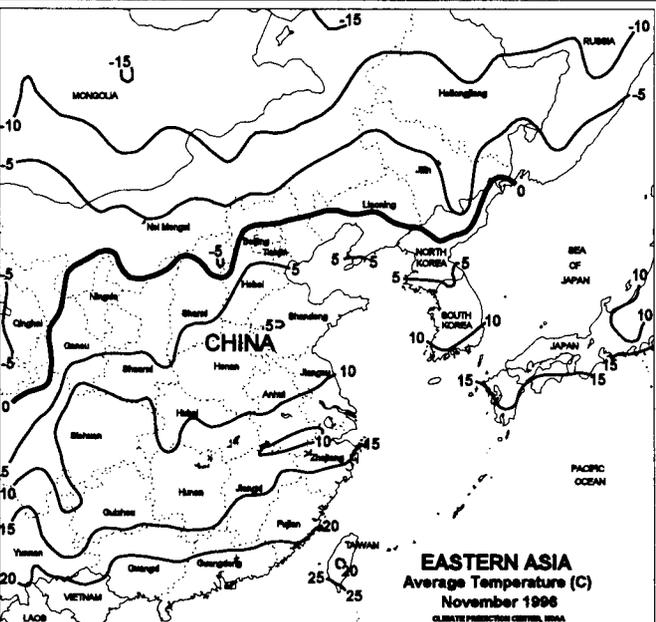
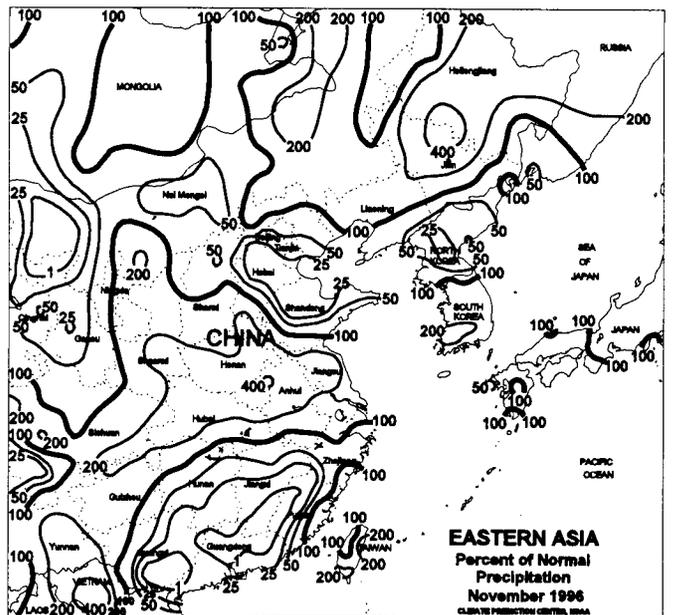
Unusually cold weather spread from the United Kingdom and northern France, eastward through Germany, into Poland, keeping winter grains dormant. Furthermore, drier weather prevailed over these areas with precipitation amounts ranging from 2 to 10 mm. Farther south, light to moderate rain (25-50 mm, with locally heavier amounts in excess of 60 mm) fell in Spain, providing abundant moisture for winter grain development and increasing reservoir levels. Heavy rain (50-112 mm) in northern Italy waterlogged soils, creating the likelihood for localized flooding. Elsewhere, mild weather in southeastern Europe favored winter grains in or entering dormancy. In November, warm, dry weather during the first half of the month in southeastern Europe allowed winter grain planting and corn harvesting to advance to completion. Near- to above-normal precipitation during the second half of November favored newly planted winter grains in Spain, while farther east, wet weather delayed winter grain planting in northern Italy. Elsewhere, above-normal precipitation in November in the United Kingdom, France, and Germany provided ample moisture for winter grains but hampered late-season harvest activities.

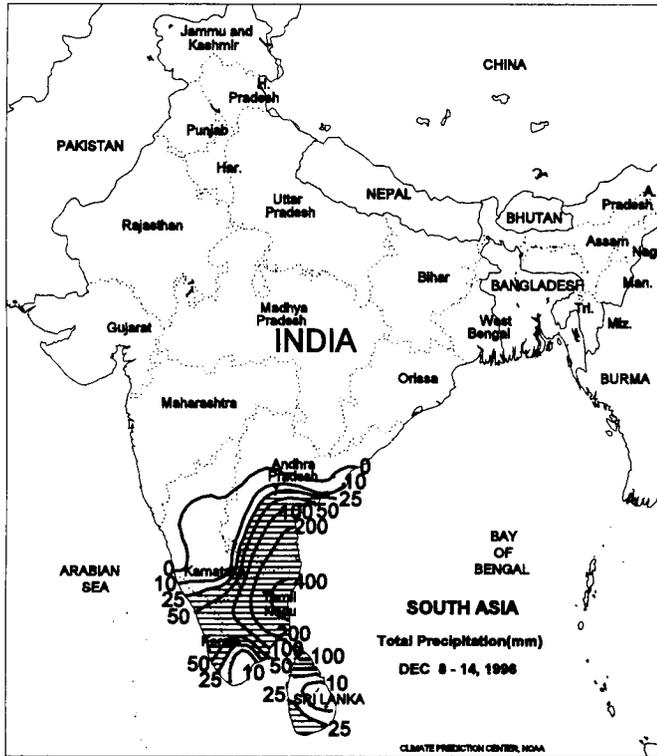




EASTERN ASIA

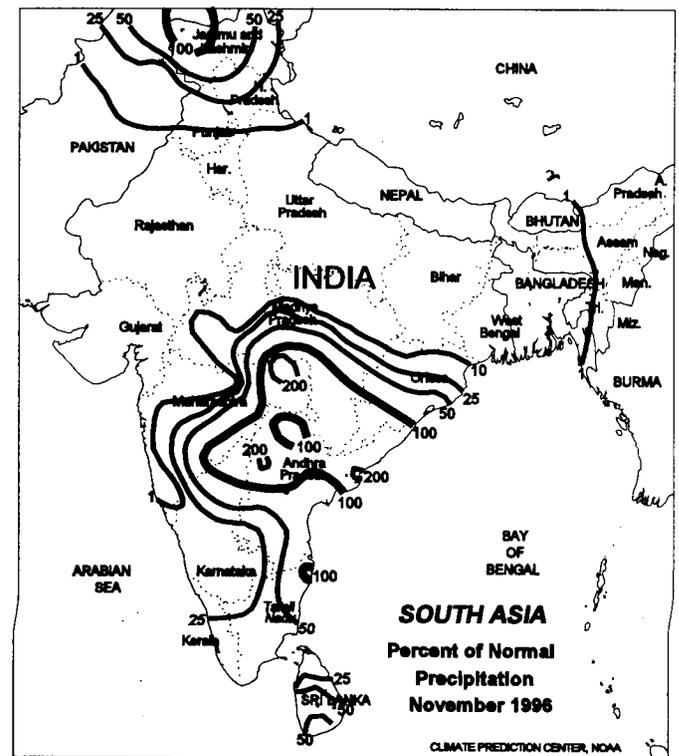
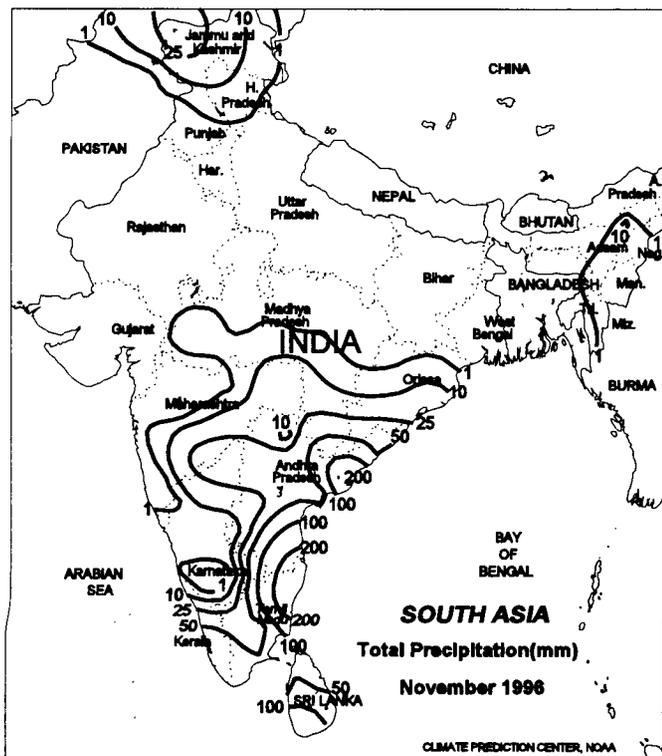
Warmer weather (2-4 degrees C above normal) across northern and central China prevented winter wheat from entering dormancy, especially in the North China Plain. Typically, winter wheat in the North China Plain enters dormancy from early to mid-December. Little or no rain fell across China. During November, near- to above-normal rainfall covered the southern half of the North China Plain, the northern Yangtze Valley and most of southwest China. This moisture favored winter grain and oilseed establishment. The remaining portions of the North China Plain received below-normal rainfall, but monthly normals during the winter are extremely low (5-20 mm per month). Below-normal rainfall also prevailed across southern China.

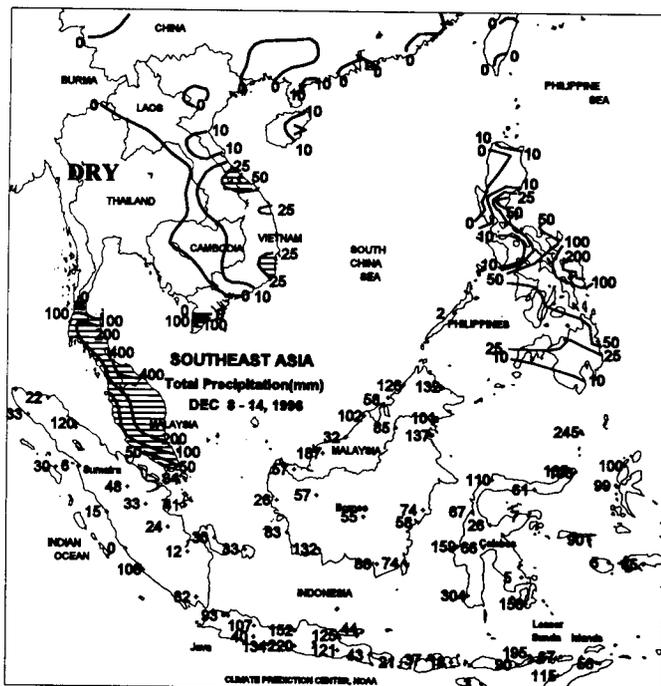
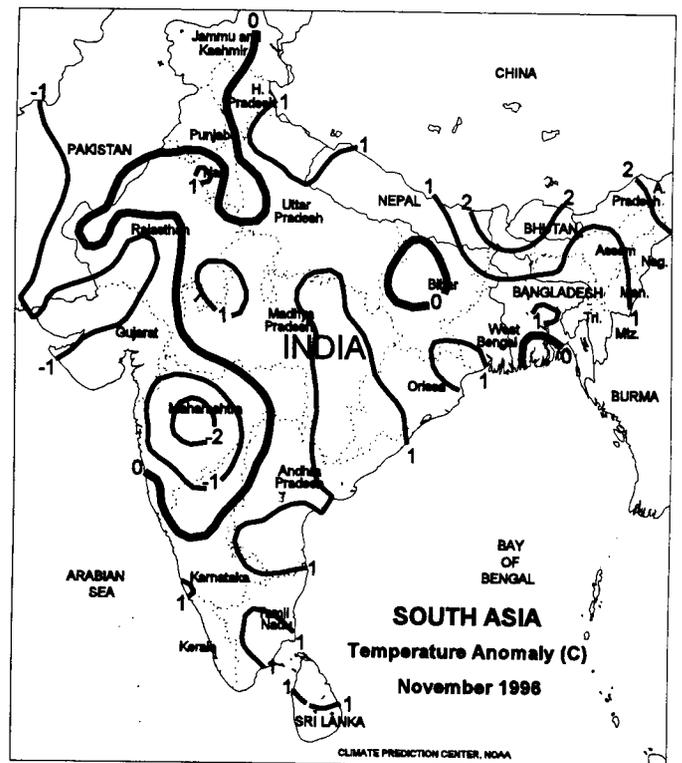
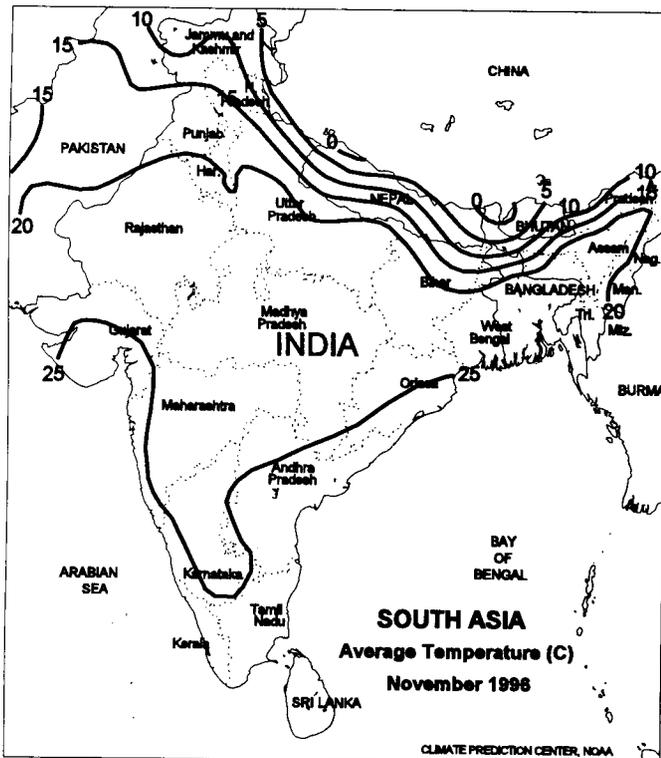




SOUTH ASIA

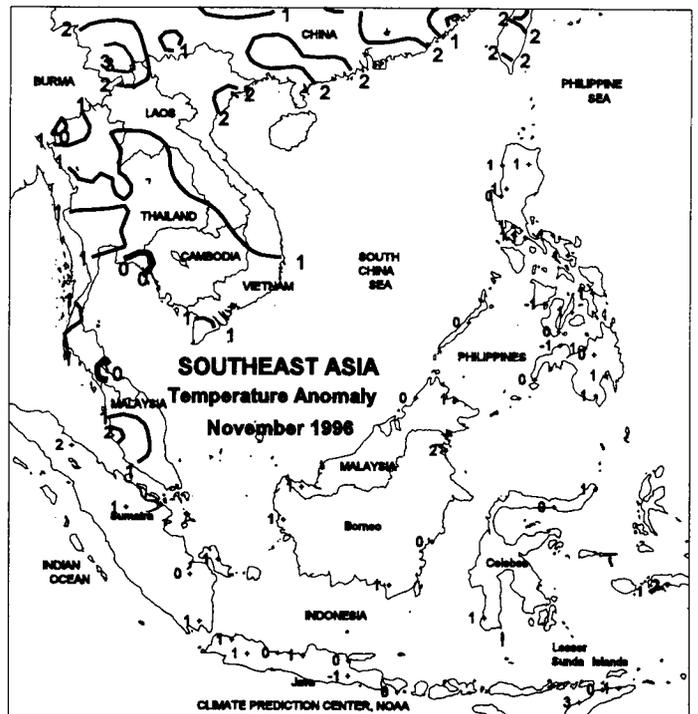
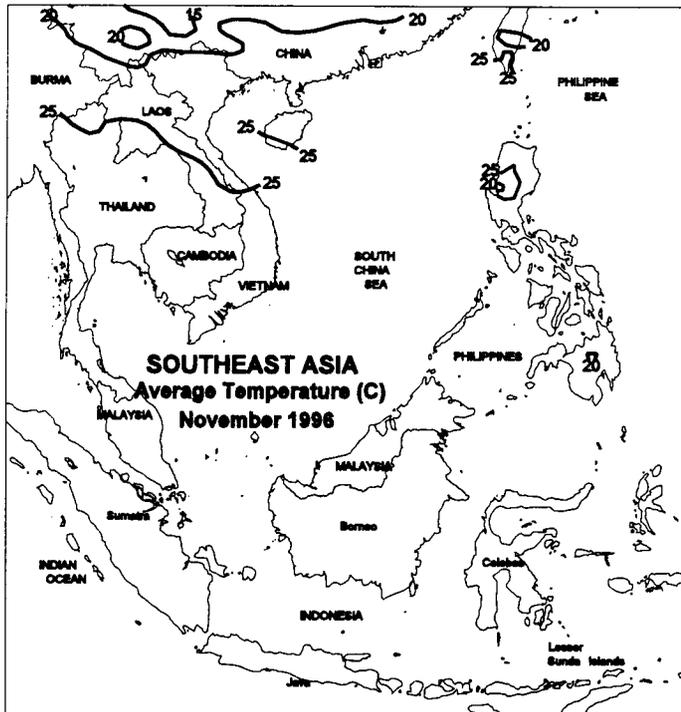
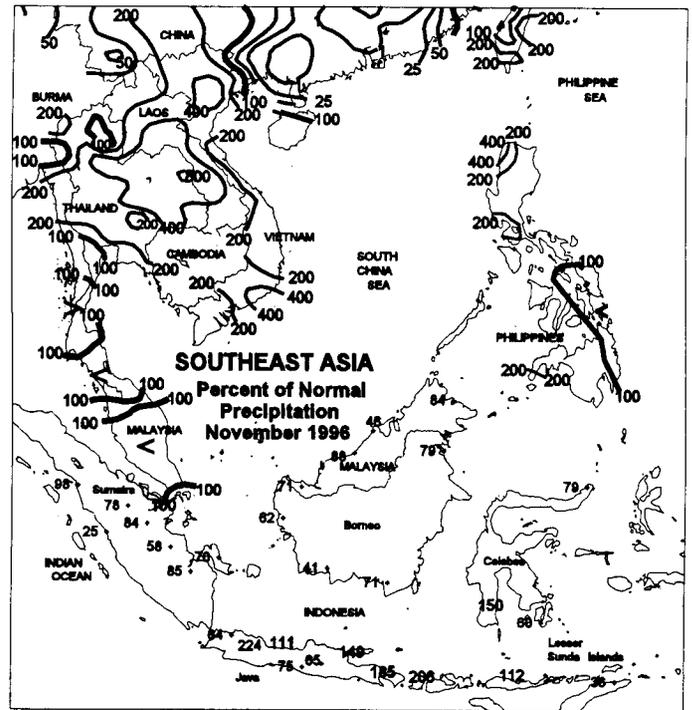
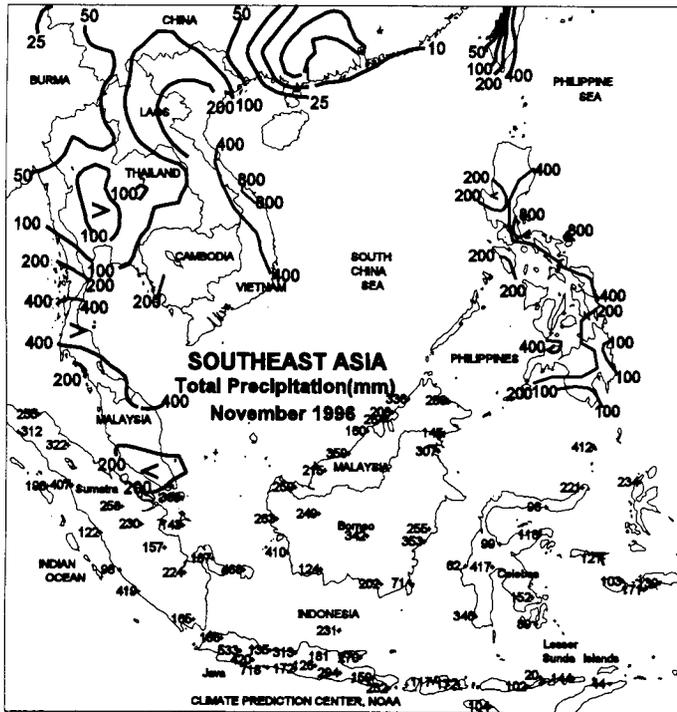
Persistent, unseasonably heavy showers (100-300 mm, exceeding 500 mm at one location) inundated coastal rice areas of India's southern tip (Tamil Nadu and southern Andhra Pradesh). While India's southeast coast has been plagued by chronic rains in recent weeks, much of this particular area was hit for the first time. This week's rain was one of the heaviest events of the season. Elsewhere, seasonable dryness favored maturing summer grains, oilseeds, and cotton, as well as winter grain and oilseed planting across the north. Unseasonable cold (temperatures averaging 2-3 degrees C below normal, with lows ranging from -1 to 5 C) over the northwest stressed livestock but likely had no significant impact on crops. During November, periods of heavy rain in the coastal rice areas of Andhra Pradesh and Tamil Nadu hampered fieldwork (main season harvesting and secondary plantings) and caused local flooding. A powerful tropical cyclone caused some coastal crop damage early in the month. Elsewhere, seasonable dryness ensured summer crop quality and promoted fieldwork.

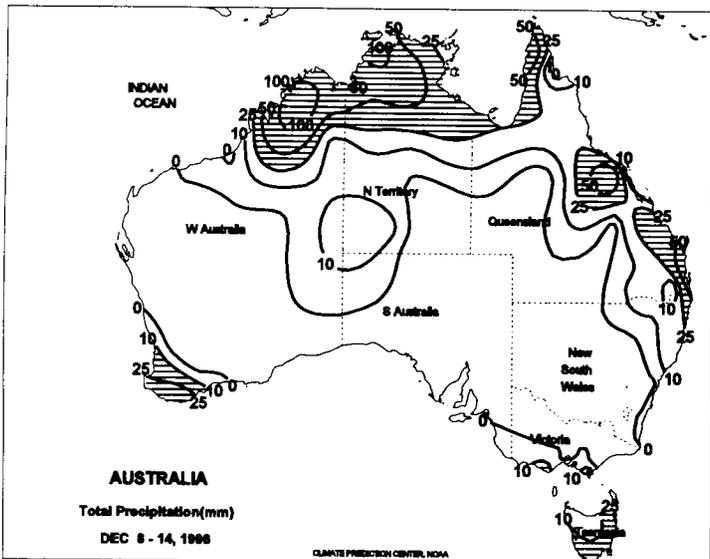




SOUTHEAST ASIA

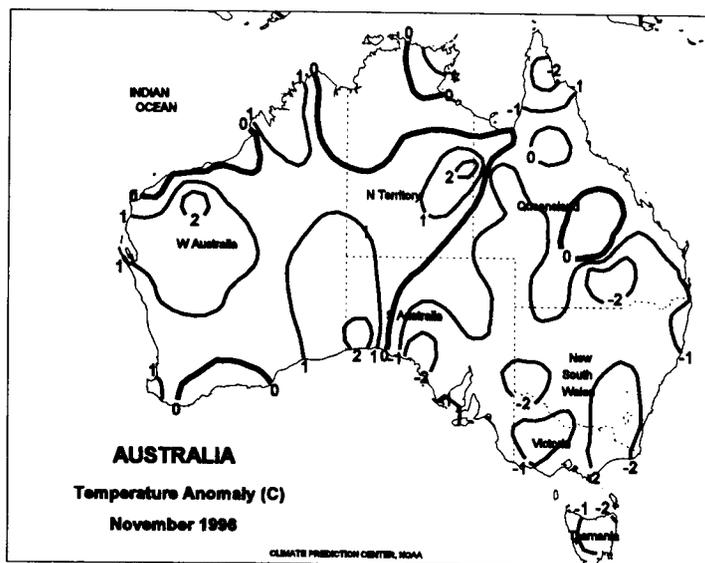
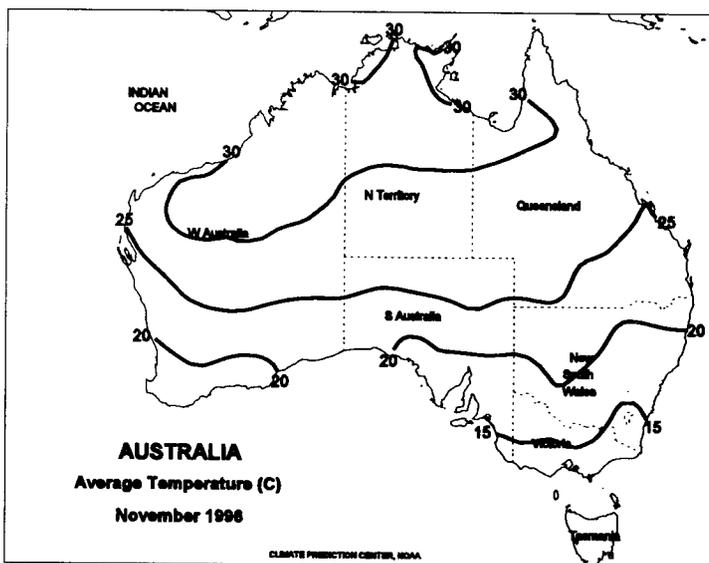
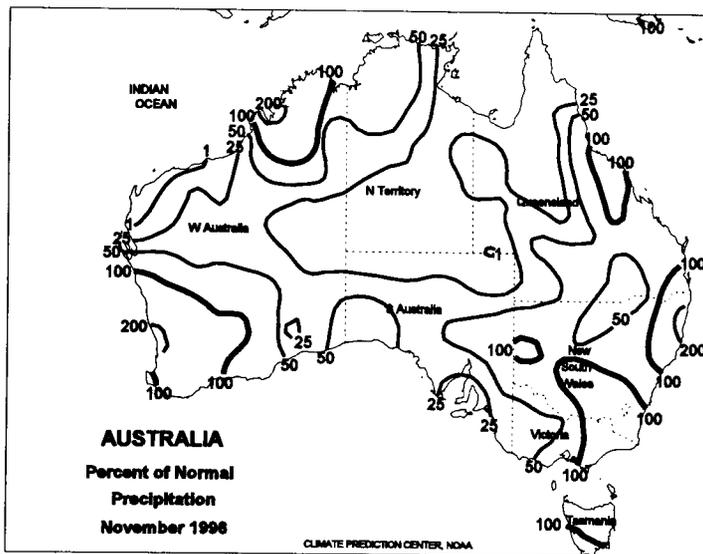
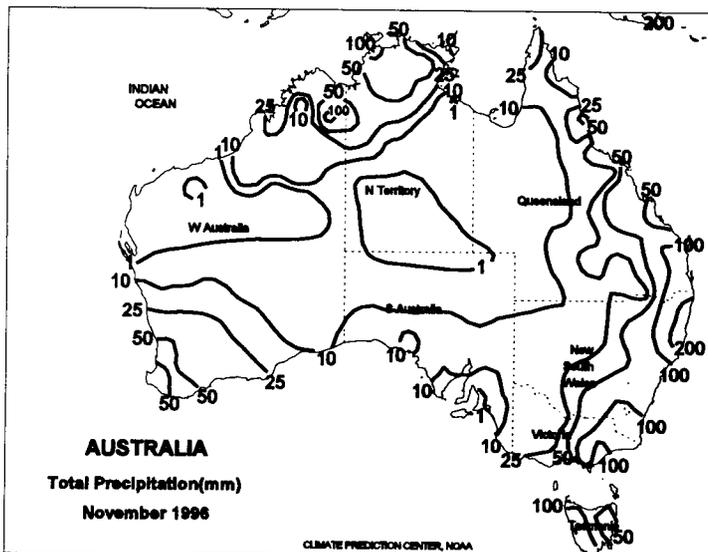
Widespread showers (50-130 mm, with isolated amounts greater than 200 mm) covered Java, increasing irrigation supplies for rice. In Thailand and northern and southern Vietnam, seasonably dry weather favored rice harvesting. Torrential showers (200-400 mm) fell across peninsular Thailand and Malaysia and portions of the east-central Philippines (Samar Island), causing flooding. During November, near- to above-normal rainfall in Java boosted irrigation supplies for main-season rice. Across Thailand, unseasonable early-November rainfall slowed rice and sugarcane harvesting. However, drier weather later in the month favored fieldwork. Above-normal rainfall also slowed rice harvesting across Vietnam and the Philippines.

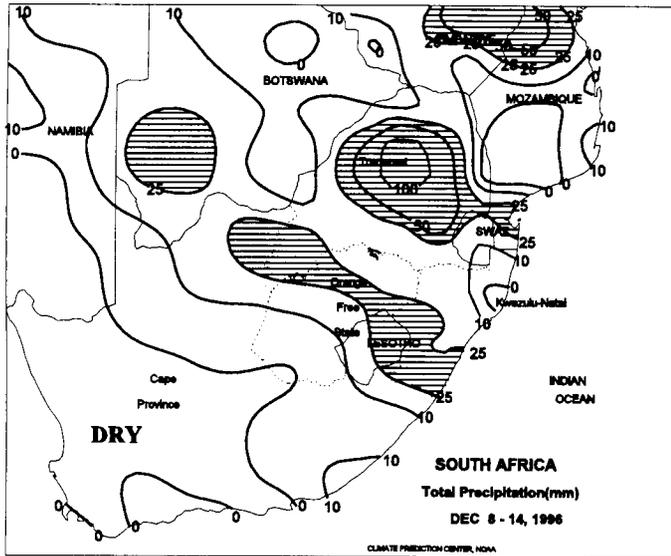




AUSTRALIA

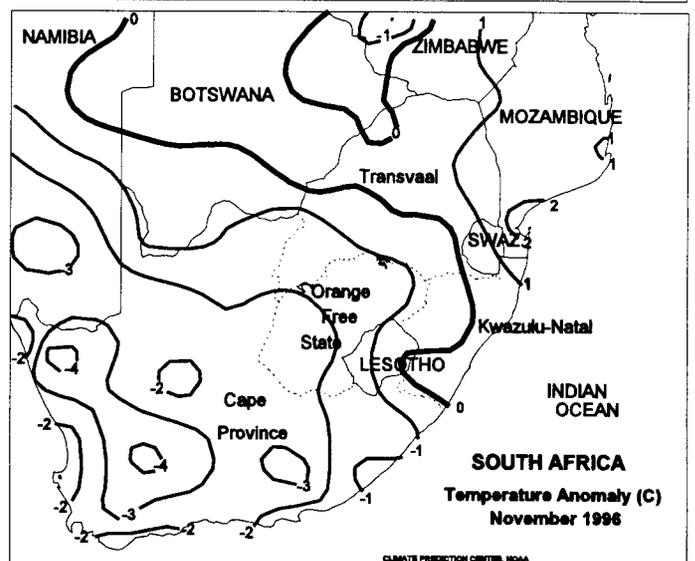
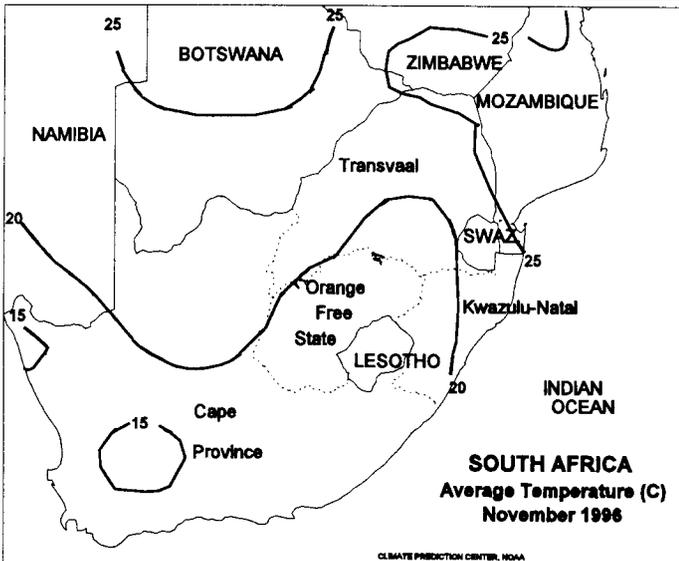
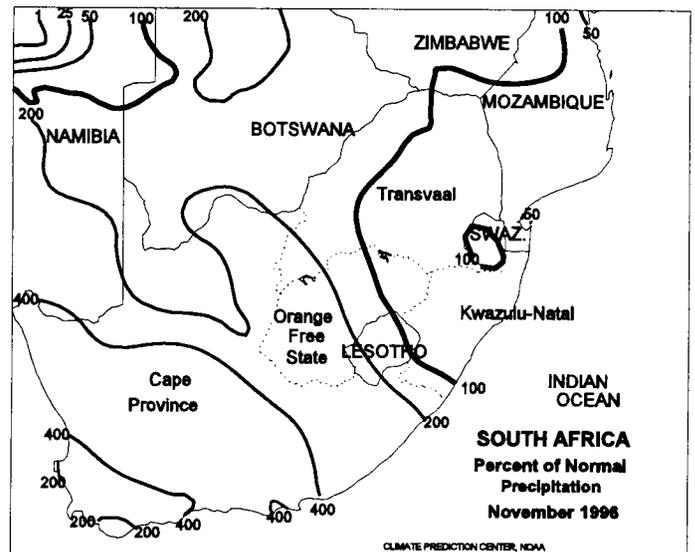
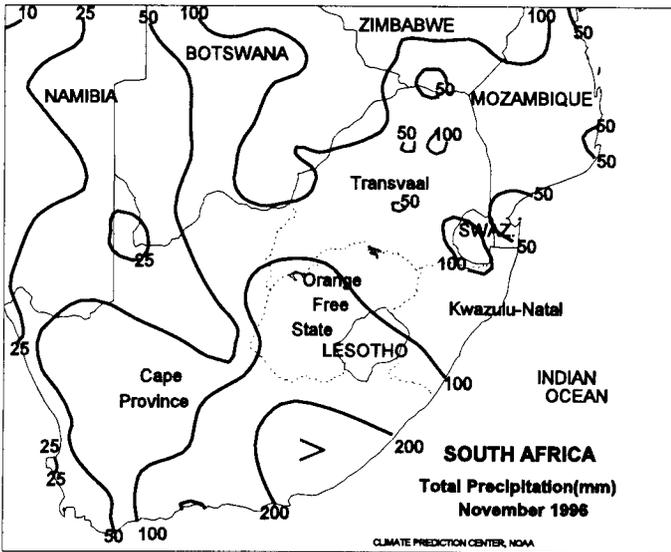
Beneficial rain (10-25 mm or more, exceeding 50 mm locally) covered most summer crops areas in Queensland, benefiting sorghum, cotton, and sugarcane. The rain extended southward into coastal sugarcane areas of New South Wales, but dry weather dominated other main agricultural areas of eastern Australia, including the western grazing region. Winter grain harvesting progressed in the east, and also in Western Australia despite locally heavy (25-65 mm), largely coastal rain. In November, rainfall was near to below normal in the major eastern agricultural areas, although periods of significant rain were timely for newly planted summer crops. The rain caused some concern for unharvested winter grains in New South Wales, but conditions for maturation were excellent in the southeast (Victoria and South Australia). Early-month rain in Western Australia slowed crop dry down but gave a boost to pastures and immature winter grains.



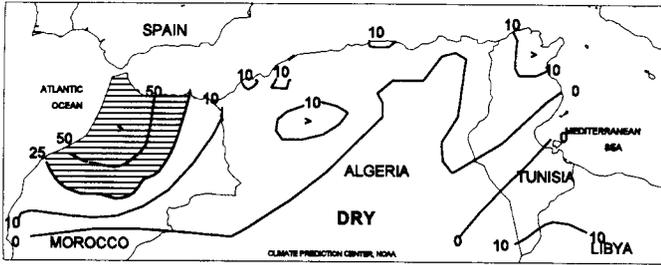


SOUTH AFRICA

Scattered showers (10-35 mm) over most of the corn belt maintained generally favorable moisture levels for corn germination and establishment. The exception was western Orange Free State, where warm, dry weather enhanced evaporation rates. Dry weather dominated most coastal crop areas, with only southern Kwazulu-Natal receiving moderate showers (10-33 mm) for sugarcane growth. In November, frequent shower activity resulted in near- to above-normal rainfall in the western corn belt and winter wheat areas of Western Cape. The moisture was timely for corn planting but unwelcomed for winter wheat dry down and harvesting. Rainfall was near to below normal in the eastern corn belt and main sugarcane areas, but moisture reserves should have been adequate due to the late-October rains. November temperatures averaged near to below normal over the major agricultural areas, with the absence of stressful heat in the west aiding germinating corn.



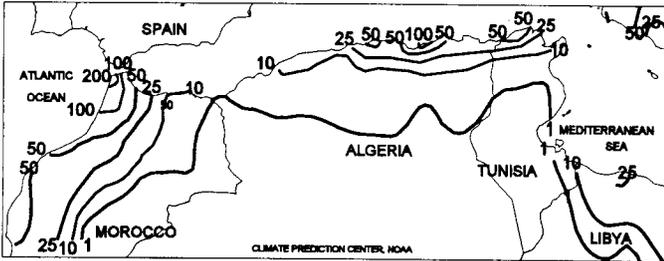
NORTHWEST AFRICA Total Precipitation (mm)
DEC 8 - 14, 1996



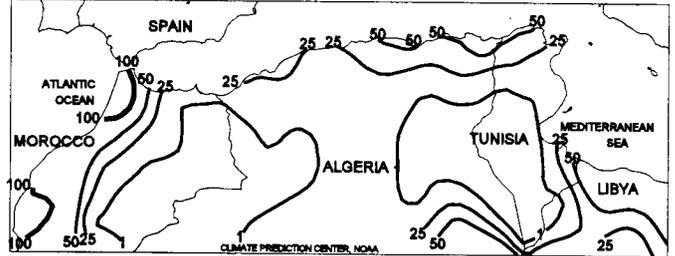
NORTHWESTERN AFRICA

Generous rains continued in Morocco, providing abundant moisture for winter grain development. Rainfall ranged from 10 to 27 mm in southern wheat areas and 47 to 69 mm in the north. Some delays in winter grain planting likely resulted, especially in areas that received the heaviest rain. Farther east, topsoils remained too dry for uniform germination in Algeria. As a result, planting was likely progressing slowly as growers awaited significant rainfall. In Tunisia, although light showers (4-25 mm) dampened topsoils for planting, soaking rain was needed to boost topsoil moisture for germination and early establishment. In November, following a slow start to the rainy season, substantial rains in Morocco during mid-month provided sufficient topsoil moisture for winter grain planting. However, farther east, the rainy season was slow to begin in Algeria and Tunisia, and rainfall in November was substantially below normal (less than 40 percent of normal). The dryness in these areas likely caused planting delays as growers awaited consistent autumn rains.

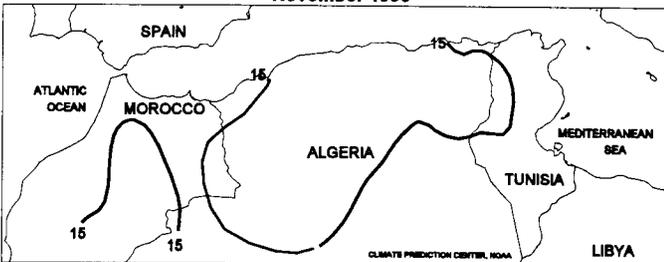
NORTHWEST AFRICA Total Precipitation (mm)
November 1996



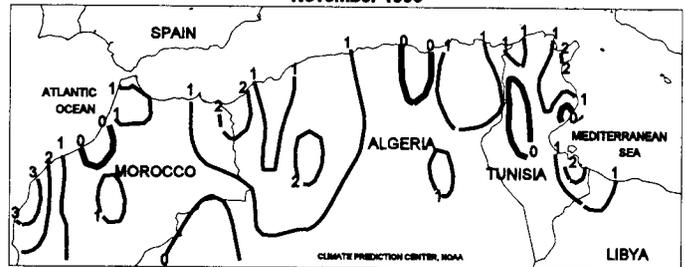
NORTHWEST AFRICA Percent of Normal Precipitation
November 1996

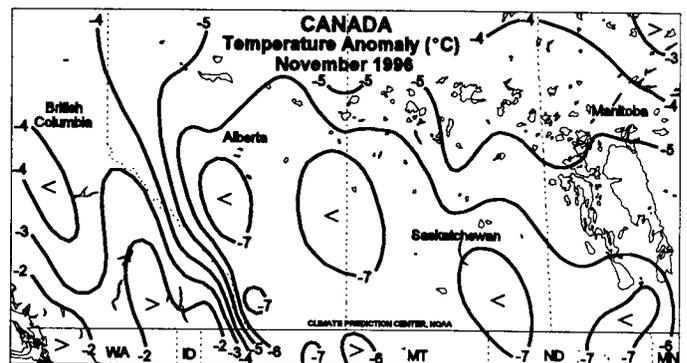
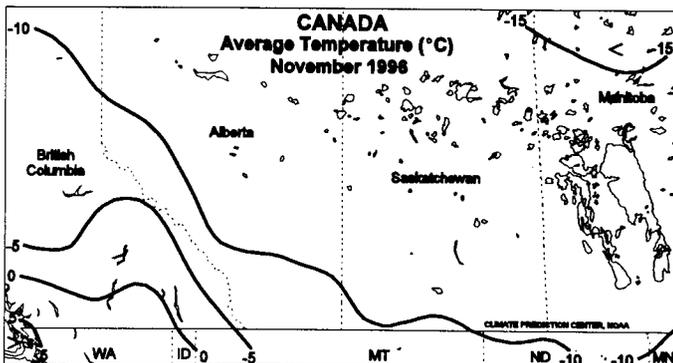
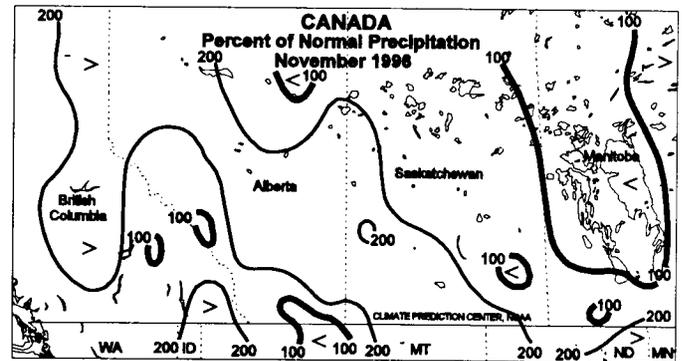
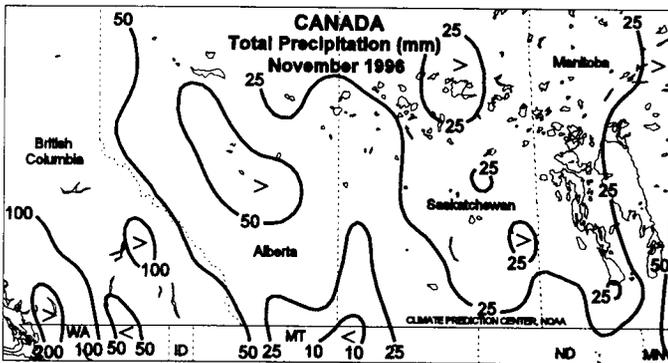
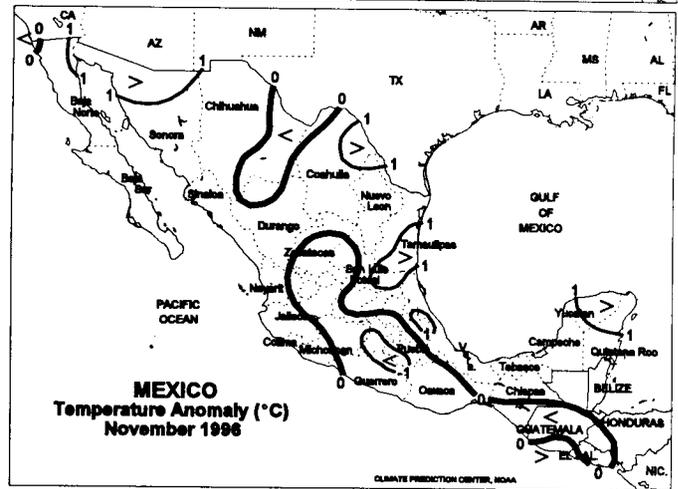
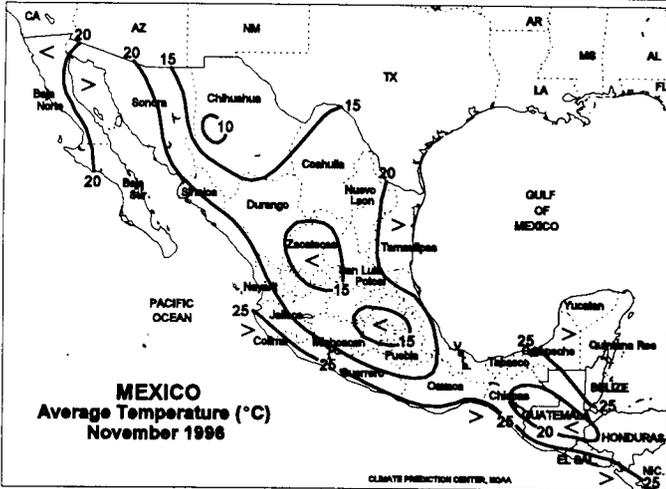
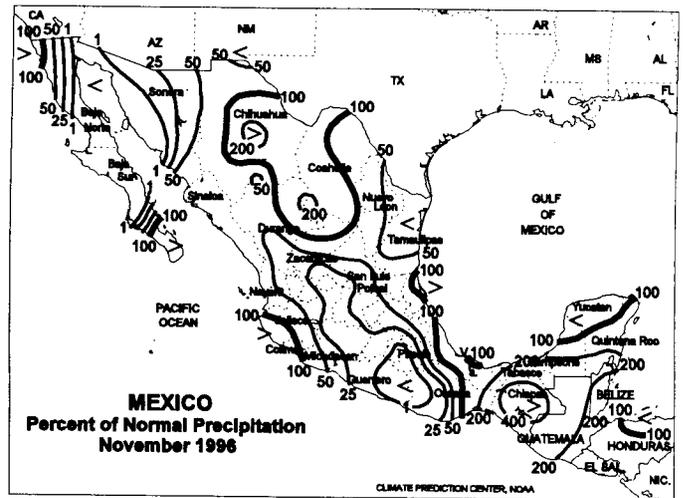
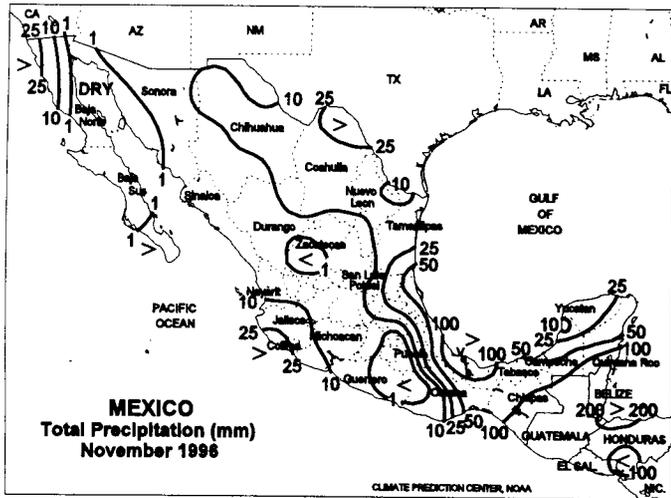


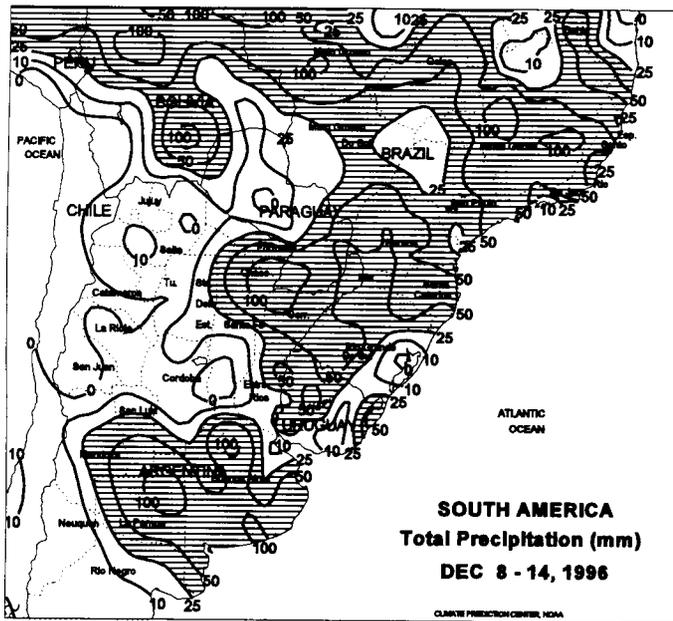
NORTHWEST AFRICA Average Temperature (C)
November 1996



NORTHWEST AFRICA Temperature Anomaly (C)
November 1996

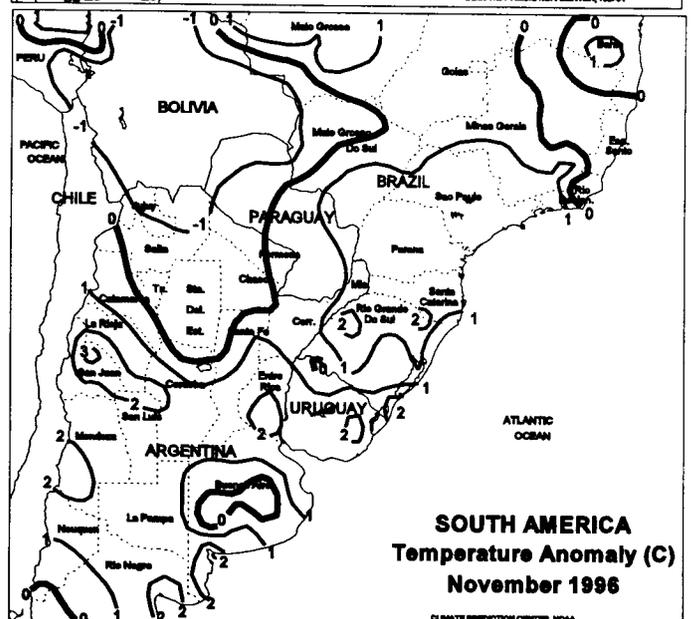
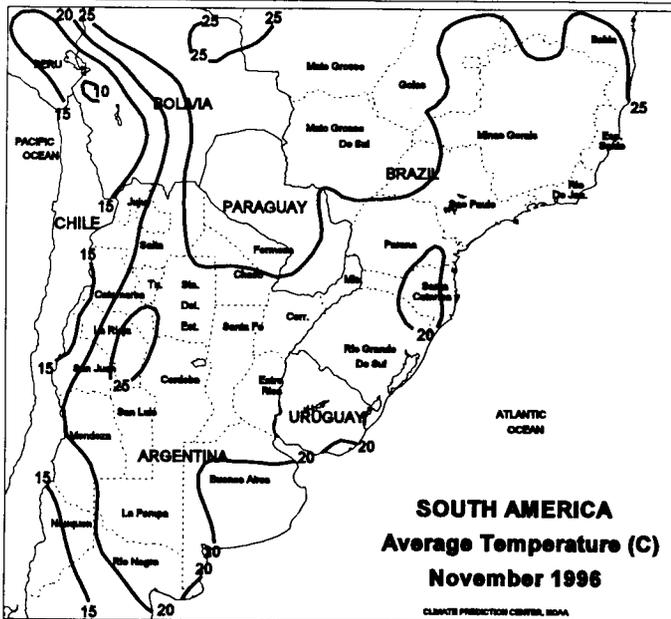
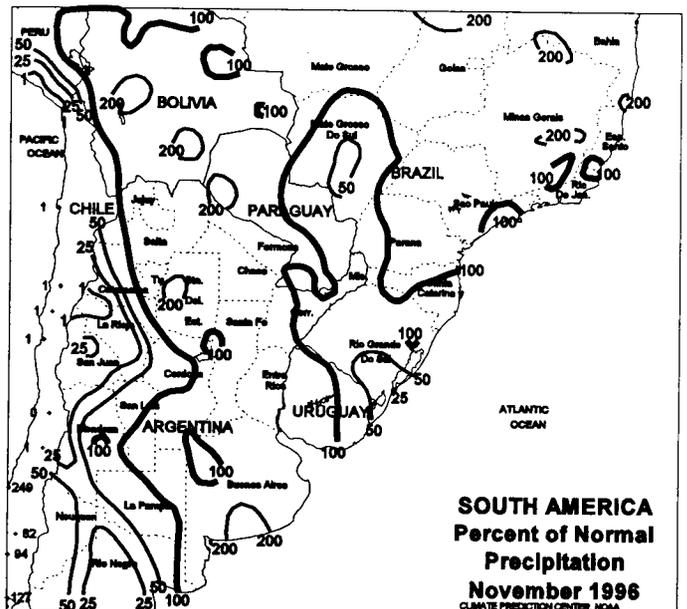
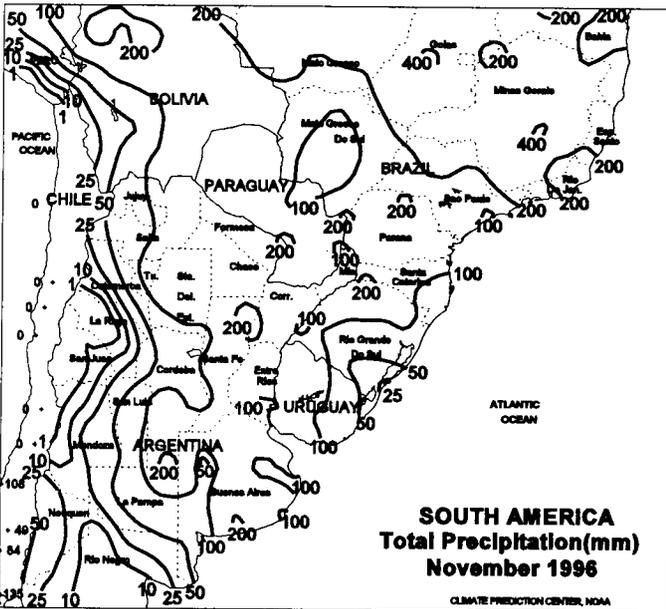






SOUTH AMERICA

In central Argentina, widespread moderate showers (30-80 mm, with isolated heavy showers greater than 100 mm) fell across La Pampa and Buenos Aires. The heavier rainfall and cool weather slowed winter wheat maturation and harvesting and possibly damaged some wheat, especially across the northern portions of this region. The moisture benefited vegetative summer crops throughout the area and late filling winter wheat in southern Buenos Aires. Drier weather (less than 20 mm) caused only minor delays in wheat harvesting in southern Cordoba and Santa Fe. Moderate to heavy rain (50-125 mm) fell across northern Argentina, increasing moisture supplies for cotton, but causing some local flooding. In southern Brazil, moderate showers (20-60 mm) covered the major soybean areas, maintaining favorable germination moisture. Temperatures averaged 2 to 4 degrees C below normal across Argentina and 2 to 3 degrees C above normal across most of southern Brazil (Parana northward). During November, near- to slightly above-normal rainfall favored winter wheat and summer crops in central Argentina. In southern Brazil, mostly dry weather from mid- to late-November slowed soybean planting from southern Mato Grosso do Sul southward into northwestern Rio Grande do Sul. However, early-December rainfall allowed planting to resume. Elsewhere, November rainfall was favorable for Brazilian soybean planting.



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

Annual subscriptions: domestic first class \$45, foreign \$55 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to: Climate Prediction Center, W/NP52, Attn: *Weekly Weather and Crop Bulletin*, NOAA/NWS/NCEP, NOAA Science Center, Room 605, 5200 Auth Road, Camp Springs, MD 20746. Order subscriptions from the office and address listed above. First-class postage paid at Washington, DC, and other mailing offices. Correspondence to the meteorologists should be directed to: *Weekly Weather and Crop Bulletin*, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250. Internet URL: <http://www.usda.gov/oce/waob/jawf>; E-mail address: wwcb@jawfarv.wwb.noaa.gov

U.S. DEPARTMENT OF COMMERCE

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

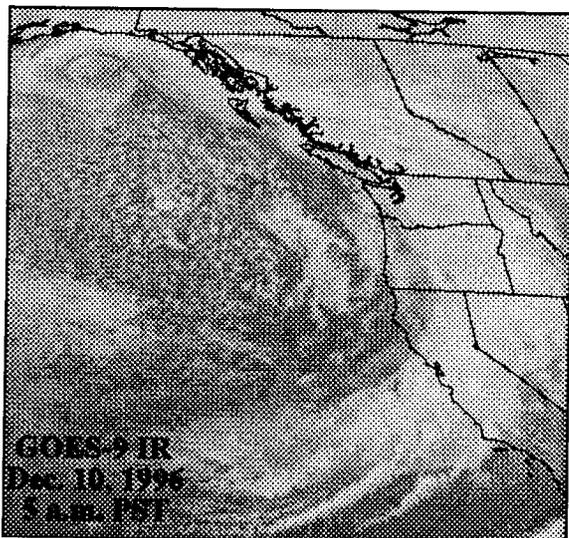
U.S. DEPARTMENT OF AGRICULTURE

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

(Continued from front cover)

Early in the week, heavy precipitation lashed **southwestern Oregon** and **northern California**, gradually spreading southward. In **California** on Sunday, **Eureka's** 4.86-inch rainfall represented their single-day record for December. Totals during a 120-hour period (December 8-13)

reached
5 . 0 6
inches in
Eureka
a n d
1 1 . 7 1
inches at
B l u e
Canyon,
boosting
month-
to-date
totals to
1 2 . 0 9
inches
a n d
1 9 . 8 8
inches,
respective-
ly. Small-



stream flooding and mudslides continued to affect the region, as well as in neighboring **southwestern Oregon**. A Pacific high-pressure system overspread the **West** at week's end, resulting in beneficial dryness and a December-record barometric reading (30.71 inches, or 1040 millibars) in **Eugene, OR**.

Heavy rain also soaked **southern California**, where 72-hour (December 8-11) totals included 4.63 inches atop **Mt. Palomar** and 4.50 inches in **Ventura**. The snow depth at **Wolf Creek Pass**, in **Colorado's San Juan Mountains**, increased 23 inches to 70 inches between December 7 and 10. At **Alta, UT**, new snow totaled 26 inches during a 48-hour period on December 9-11. Farther east, warmth expanded across the **Plains**, lifting Monday's highs to 80°F in **Amarillo, TX** and 77°F in **Dodge City, KS**. A day later, readings soared to 81°F in **Wichita Falls, TX** and 75°F in **Oklahoma City, OK**. Daily-record warmth spread eastward thereafter, as highs climbed to 79°F at midweek in **Monroe, LA**, **Longview, TX**, and **El Dorado, AR**. On Thursday, daily records were posted as far east as **Raleigh-Durham, NC** (74°F).

In the **East**, late-week rainfall in excess of 2 inches was confined to the **northern Middle Atlantic States**. By Saturday, December rainfall in **Philadelphia, PA** (7.51 inches) topped a 1983 record, as their 24-hour total reached 2.64 inches on December 13-14. The storm raised the annual precipitation to a century-high 47.20 inches in **Albany, NY**, breaking their 1972 record. Wet snow accumulated to a depth of 6 inches or more in a few spots across the **interior Northeast**. Farther west, heavy snow cloaked areas from **South Dakota** to the **western Great Lakes region**. With a storm total of 9.9 inches (on December 14-15), **Huron, SD** noted their heaviest snowfall since April 1994, and their greatest snow depth (14 inches) since February 1988. Wind gusts on Saturday were clocked to 53 mph in **Rapid City, SD**.

Cold weather across **southern Alaska** was accompanied by heavy snow early in the week. On December 8, a 13.1-inch snowfall in **Kodiak** surpassed their monthly normal of 11.4 inches. In **Hawaii**, a cold front's passage delivered heavy rain late in the week, especially on **Maui**. On December 13-14, 4.20 inches fell in **Waikapu**.

Climate Prediction Center, W/NP52
Attn: *Weekly Weather & Crop Bulletin*
NOAA/NWS/NCEP
NOAA Science Center, Room 605
5200 Auth Road
Camp Springs, MD 20746

WEEKLY NEWS BULLETIN
FIRST CLASS

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

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300