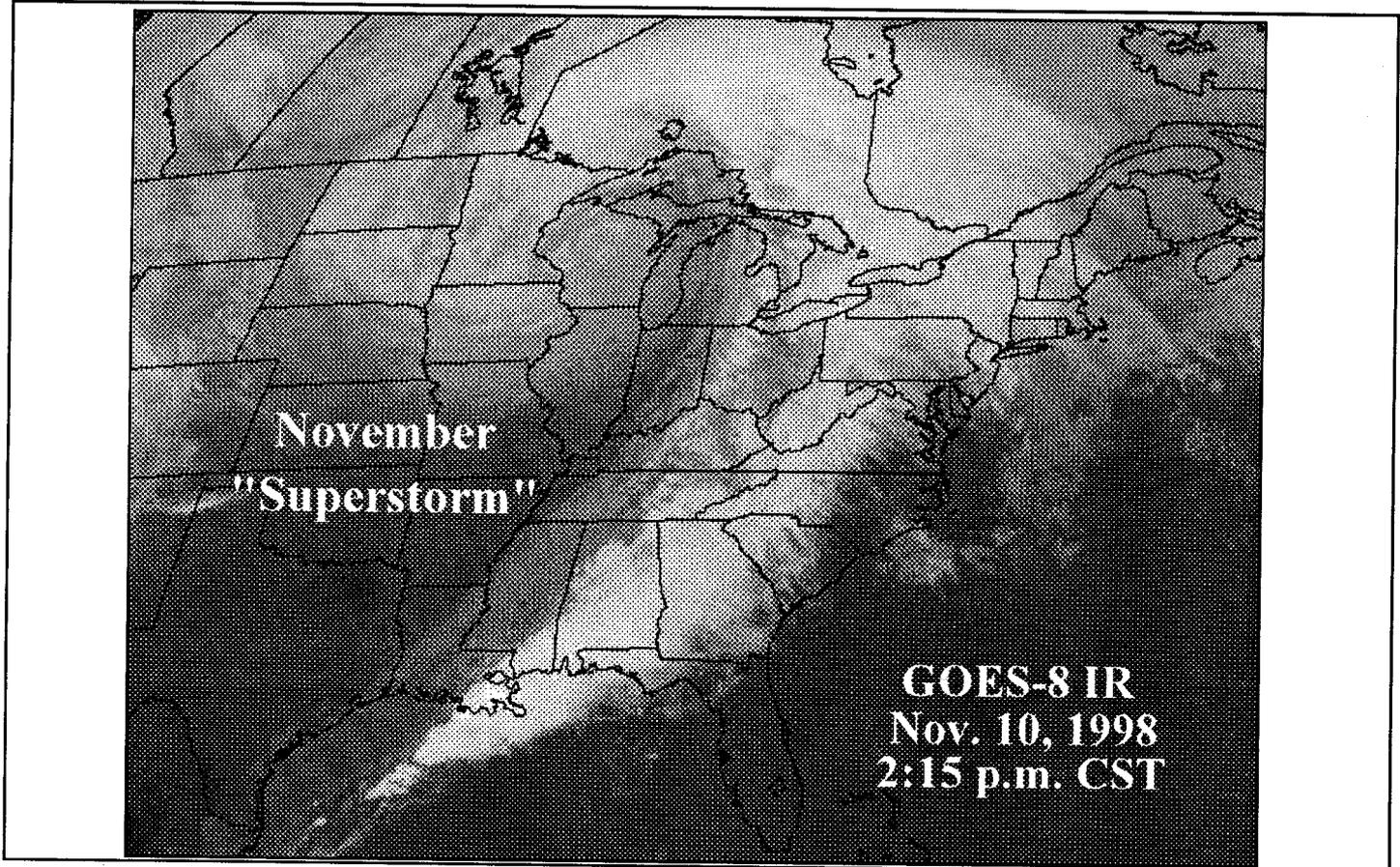


# WEEKLY WEATHER AND CROP BULLETIN

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 8 - 14, 1998

**A**n extremely powerful storm system delivered high winds and heavy snowfall to the **northern Plains** and **upper Midwest**, halting late summer-crop harvesting and lodging crops in some fields. Rain disrupted fieldwork in the remainder of the **Midwest**, but improved soil moisture in the **Southeast**. A second storm crossed the **South** after midweek, briefly disrupting cotton harvesting in **California** and **southern Arizona**. Heavy rain (2 to 10 inches) erupted across **eastern Texas** and portions of **Louisiana** on Thursday, continuing through week's end. Lowland flooding returned to some areas in **southeastern Texas** still recovering from the mid- to late-October flood. Rain also overspread the **Pacific Northwest** late in the week, easing dryness.

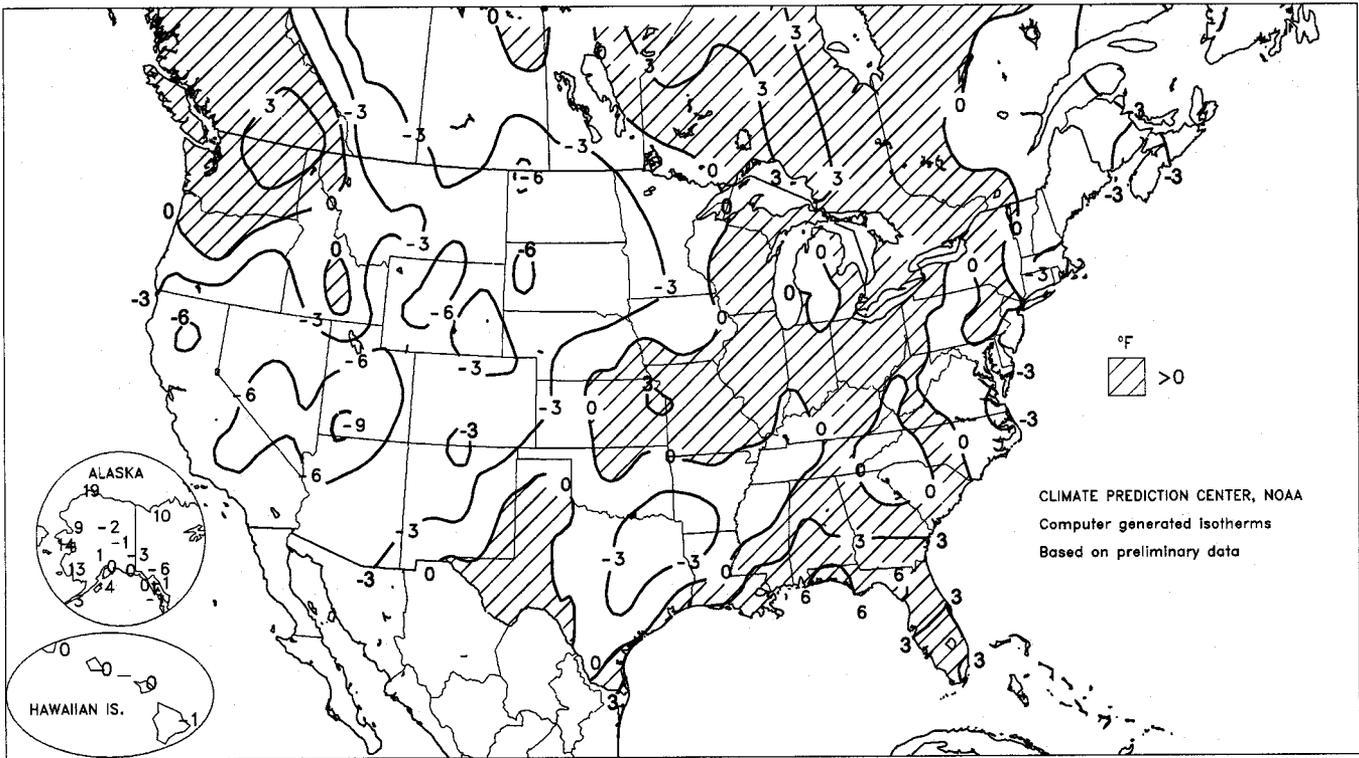
*(Continued on page 7)*

## Contents

Temperature Departure & Extreme Minimum Temperature Maps .....	2
Total Precipitation & Snow Cover Maps .....	3
National Weather Data for Selected Cities .....	4
<b>Barometric Records &amp; Selected Peak Wind Gusts, Nov. 10-11</b> .....	7
National Agricultural Summary .....	8
Crop Progress and Condition Tables .....	9
State Agricultural Summaries .....	10
International Weather and Crop Summary .....	16
Subscription Information .....	20

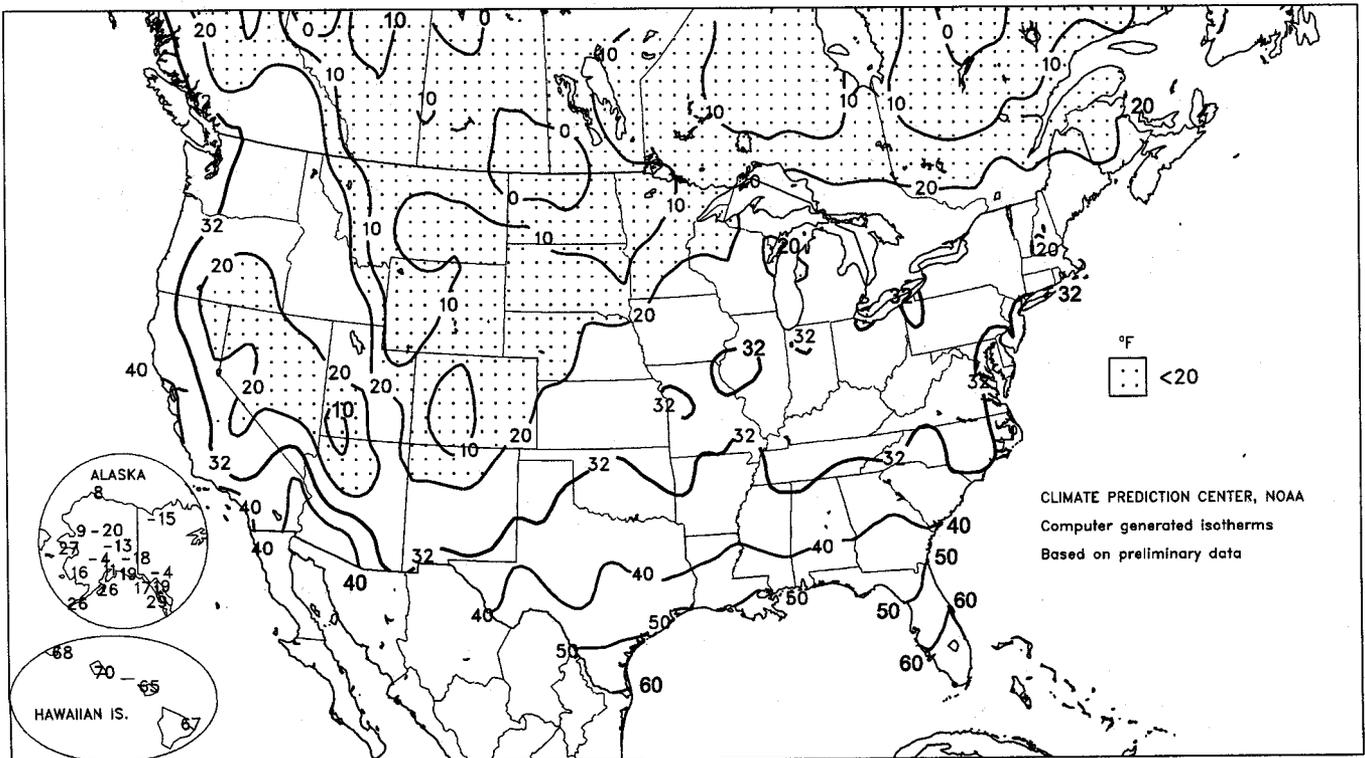
Departure of Average Temperature from Normal (°F)

NOV 8 - 14, 1998



Extreme Minimum Temperature (°F)

NOV 8 - 14, 1998





# National Weather Data for Selected Cities

Weather Data for the Week Ending November 14, 1998

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7503) and the Southern Regional Climate Center

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	50 INCH OR MORE	01 INCH OR MORE	50 INCH OR MORE
AL BIRMINGHAM	66	48	75	36	57	3	3.52	2.56	1.36	5.97	70	58.83	128	91	46	0	0	5	3		
HUNTSVILLE	61	46	70	34	54	1	2.34	1.28	1.01	5.41	58	38.16	79	95	57	0	0	5	2		
MOBILE	75	55	80	46	66	4	3.38	2.49	2.14	28.85	274	82.72	147	93	53	0	0	4	2		
MONTGOMERY	71	51	80	38	61	3	0.76	-0.13	0.63	11.00	134	46.29	101	95	53	0	0	5	1		
AK ANCHORAGE	27	19	29	11	23	0	0.00	-0.26	0.00	1.33	25	9.86	69	95	73	0	7	0	0		
BARROW	23	16	28	8	19	0	0.06	0.00	0.01	2.02	173	4.30	105	86	67	0	7	3	0		
FAIRBANKS	12	-4	23	-13	4	-1	0.02	-0.17	0.02	1.47	67	9.68	103	91	79	0	7	1	0		
JUNEAU	37	27	41	19	32	-1	0.43	-0.77	0.21	19.22	112	58.03	124	99	78	0	5	4	0		
KODIAK	43	35	46	26	39	4	2.08	0.69	1.56	31.06	183	98.89	172	96	65	0	4	3	1		
NOME	34	30	38	27	32	14	0.45	0.20	0.15	5.74	134	22.73	168	96	81	0	6	7	0		
AZ FLAGSTAFF	45	23	64	10	34	-4	1.28	0.85	0.93	8.84	197	26.48	137	96	44	0	6	3	1		
PHOENIX	69	50	76	45	60	-4	0.02	-0.12	0.01	1.72	96	9.77	165	64	26	0	0	2	0		
TUCSON	69	42	78	35	55	-5	0.38	0.24	0.29	1.72	57	12.88	122	76	23	0	0	1	0		
YUMA	73	52	80	49	63	-3	0.00	-0.06	0.00	2.26	337	4.38	170	58	20	0	0	0	0		
AR FORT SMITH	62	41	74	32	51	-1	0.48	-0.48	0.44	13.30	151	40.31	113	96	58	0	1	4	0		
LITTLE ROCK	61	44	72	36	52	-1	0.97	-0.23	0.93	9.90	98	36.65	85	94	57	0	0	2	1		
CA BAKERSFIELD	59	43	64	37	51	-6	0.29	0.12	0.17	0.88	116	12.56	267	98	57	0	0	4	0		
EUREKA	57	41	62	38	49	-3	0.36	-1.12	0.20	5.61	89	48.67	168	90	69	0	0	4	0		
FRESNO	59	43	64	36	51	-4	0.24	-0.07	0.18	0.73	54	16.70	200	98	54	0	0	4	0		
LOS ANGELES	68	51	74	47	60	-3	0.82	0.22	0.54	0.62	44	24.46	263	93	40	0	0	2	1		
REDDING	58	37	63	31	48	-6	1.20	0.02	0.90	4.88	91	52.28	211	95	45	0	1	3	1		
SACRAMENTO	59	41	62	36	50	-5	0.12	-0.51	0.05	1.67	63	25.11	187	98	58	0	0	2	0		
SAN DIEGO	66	53	72	49	59	-3	0.33	0.01	0.32	0.44	37	14.71	197	81	43	0	0	2	0		
SAN FRANCISCO	58	46	60	42	52	-4	0.20	-0.45	0.13	1.41	53	29.98	201	96	58	0	0	3	0		
CO ALAMOSA	42	18	56	12	30	-2	0.17	0.06	0.16	2.88	159	6.85	100	90	45	0	7	2	0		
CO SPRINGS	47	25	62	18	36	-3	0.04	-0.07	0.00	2.02	84	18.20	104	77	33	0	6	1	0		
DENVER	48	24	64	19	36	-5	0.04	-0.18	0.04	2.42	91	15.91	111	82	42	0	6	1	0		
GRAND JUNCTION	45	28	54	23	37	-6	0.27	0.10	0.27	3.15	146	8.77	114	92	46	0	7	1	0		
PUEBLO	52	24	66	18	38	-4	0.03	-0.08	0.00	2.55	151	11.51	109	93	34	0	7	1	0		
CT BRIDGEPORT	54	39	63	35	46	-1	0.31	-0.58	0.31	6.18	78	40.08	111	88	53	0	0	1	0		
HARTFORD	51	30	64	22	40	-4	0.76	-0.18	0.60	9.07	99	43.00	113	88	48	0	5	2	1		
DC WASHINGTON	60	43	71	39	52	0	0.25	-0.47	0.20	2.85	37	33.70	100	86	44	0	0	3	0		
DE WILMINGTON	58	37	68	32	47	-1	0.61	-0.14	0.37	5.19	67	34.85	98	83	34	0	1	3	0		
FL DAYTONA BEACH	81	62	84	55	71	4	0.01	-0.67	0.01	8.23	69	38.11	87	99	57	0	0	1	0		
JACKSONVILLE	77	58	84	47	68	4	0.01	-0.49	0.01	10.85	97	54.08	114	97	62	0	0	1	0		
KEY WEST	81	73	82	71	77	1	0.00	-0.70	0.00	18.53	158	36.17	100	87	65	0	0	0	0		
MIAMI	82	71	84	69	76	2	0.00	-0.68	0.00	26.04	176	67.54	128	85	62	0	0	0	0		
ORLANDO	82	62	85	56	72	3	0.00	-0.53	0.00	7.59	80	44.02	98	100	54	0	0	0	0		
PENSACOLA	76	59	80	52	67	6	0.43	-0.37	0.28	20.35	183	60.63	108	88	55	0	0	3	0		
TALLAHASSEE	76	58	79	44	66	5	0.84	-0.01	0.83	14.95	148	56.63	97	95	61	0	0	2	1		
TAMPA	81	65	83	59	73	5	0.00	-0.39	0.00	9.20	105	54.34	133	95	57	0	0	0	0		
WEST PALM BEACH	81	70	84	67	76	2	0.09	-1.09	0.08	21.55	123	62.78	112	80	56	0	0	2	0		
GA ATHENS	61	47	73	38	54	-1	1.40	0.56	0.78	8.43	102	48.04	110	96	62	0	0	6	1		
ATLANTA	64	48	72	41	56	1	1.59	0.71	0.67	6.41	78	44.06	99	92	51	0	0	6	2		
AUGUSTA	68	45	79	33	57	0	0.47	-0.08	0.12	9.19	132	46.34	116	99	52	0	0	4	0		
COLUMBUS	70	52	77	42	61	3	0.64	-0.12	0.30	6.49	94	31.42	72	92	52	0	0	6	0		
MACON	70	48	77	38	59	2	0.42	-0.16	0.10	8.95	147	41.69	108	97	52	0	0	6	0		
SAVANNAH	74	51	80	38	63	2	0.13	-0.36	0.08	6.98	89	47.00	104	98	54	0	0	3	0		
HI HILO	79	68	82	67	74	-1	1.63	-1.76	0.64	30.48	130	86.55	80	99	75	0	0	6	1		
HONOLULU	83	72	86	70	77	0	0.42	-0.25	0.29	0.76	17	3.37	20	92	61	0	0	3	0		
KAHULUI	83	69	88	65	76	0	0.21	-0.36	0.20	1.06	38	4.18	25	91	57	0	0	2	0		
LIHUE	80	72	82	68	76	0	0.51	-0.77	0.10	2.92	29	22.90	65	90	67	0	0	6	0		
ID BOISE	48	32	58	26	40	-2	0.07	-0.27	0.07	2.39	109	14.42	146	87	46	0	4	1	0		
LEWISTON	48	37	56	29	42	0	1.01	0.74	0.41	4.31	192	15.69	147	83	54	0	2	5	0		
POCATELLO	45	29	59	26	37	-1	0.11	-0.17	0.08	2.80	123	12.10	117	90	49	0	6	2	0		
IL CHICAGO/O'HARE	50	37	64	32	43	1	1.44	0.76	1.00	9.24	122	36.01	113	87	58	0	1	3	1		
MOLINE	51	36	61	32	44	2	1.40	0.81	0.96	13.56	166	46.71	132	91	62	0	1	4	1		
PEORIA	54	37	64	33	45	2	1.78	1.15	1.09	7.91	102	40.48	125	91	54	0	0	4	2		
ROCKFORD	49	32	61	25	41	0	2.03	1.42	1.61	9.23	116	38.74	118	92	61	0	4	3	1		
SPRINGFIELD	56	36	65	33	46	1	0.65	0.07	0.43	7.31	103	44.20	142	88	50	0	0	2	0		
IN EVANSVILLE	57	38	68	26	48	0	1.19	0.33	0.91	5.69	78	39.24	105	90	52	0	2	2	1		
FORT WAYNE	51	36	64	30	44	0	1.02	0.38	0.64	6.35	99	38.72	121	87	58	0	2	2	1		
INDIANAPOLIS	54	38	66	30	46	1	0.87	0.13	0.51	9.22	133	47.31	136								

Weather Data for the Week Ending November 14, 1998

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	50 INCH OR MORE	01 INCH OR MORE	50 INCH OR MORE
KY WICHITA	58	39	66	29	48	2	0.49	0.10	0.42	15.24	234	32.97	120	92	58	0	1	3	0		
JACKSON	57	43	73	32	50	1	0.84	-0.32	0.54	5.52	63	46.10	107	87	42	0	1	3	1		
LEXINGTON	55	38	69	27	46	-1	0.33	-0.43	0.24	3.46	48	44.90	116	91	53	0	1	3	0		
LOUISVILLE	58	42	71	31	50	1	1.09	0.24	0.69	4.62	62	44.02	114	86	48	0	1	2	1		
PADUCAH	59	40	71	28	50	0	0.52	-0.45	0.48	8.52	100	50.86	120	87	47	0	2	2	0		
LA BATON ROUGE	72	54	80	45	63	2	2.03	1.08	1.23	12.95	127	62.05	98	93	57	0	0	3	2		
LAKE CHARLES	72	56	81	47	64	2	1.65	0.89	0.84	20.98	182	53.04	112	96	62	0	0	6	2		
NEW ORLEANS	75	60	81	55	67	5	2.18	1.22	1.41	24.02	231	76.60	143	89	68	0	0	4	2		
SHREVEPORT	62	46	78	38	54	-4	2.69	1.65	0.88	17.41	196	43.68	110	97	65	0	0	6	2		
ME CARIBOU	36	23	42	14	30	-4	0.73	-0.10	0.80	6.37	78	33.07	105	83	55	0	7	3	1		
PORTLAND	46	30	52	24	38	-2	0.44	-0.76	0.44	13.92	149	51.85	140	84	50	0	5	1	0		
MD BALTIMORE	59	34	70	32	46	-2	0.50	-0.27	0.39	2.82	36	32.47	91	90	44	0	1	3	0		
MA BOSTON	50	37	63	33	44	-3	0.63	-0.35	0.63	8.79	106	51.10	145	93	65	0	0	1	1		
WORCESTER	47	32	62	28	40	-2	0.78	-0.29	0.73	6.96	67	43.57	105	79	45	0	4	2	1		
MI ALPENA	44	31	57	25	38	0	1.15	0.63	1.12	8.72	140	30.60	120	90	55	0	5	4	1		
GRAND RAPIDS	48	34	60	24	41	1	1.78	1.01	1.41	7.27	85	30.68	97	87	53	0	2	5	1		
HOUGHTON LAKE	43	31	54	18	37	0	1.44	0.92	1.28	7.68	114	22.30	89	83	59	0	2	5	1		
LANSING	48	31	58	19	39	-1	1.39	0.78	1.06	5.34	78	27.12	101	92	54	0	4	5	1		
MARQUETTE	38	28	53	21	33	1	1.08	0.37	0.74	6.68	73	36.39	117	85	54	0	6	3	1		
MUSKEGON	48	35	60	20	41	0	1.56	0.83	1.12	9.00	111	26.31	95	89	80	0	2	4	1		
MN DULUTH	35	24	42	14	29	-2	2.52	2.08	2.28	10.06	139	30.80	111	92	68	0	7	4	1		
INT'L FALLS	31	20	38	9	26	-2	0.81	0.53	0.48	5.37	94	21.37	93	96	76	0	7	5	0		
MINNEAPOLIS	41	30	46	23	35	-1	1.17	0.79	0.72	4.40	77	32.50	123	86	62	0	5	3	1		
ROCHESTER	39	27	47	19	33	-2	1.04	0.64	0.73	6.81	103	31.81	114	99	74	0	7	3	1		
ST. CLOUD	36	27	41	14	31	-1	1.05	0.73	0.68	4.19	69	23.54	91	89	66	0	6	2	1		
MS JACKSON	68	49	79	40	59	1	3.56	2.49	1.31	7.41	84	45.48	97	99	61	0	0	6	3		
MERIDIAN	70	47	80	36	59	2	2.70	1.72	1.41	6.10	72	49.73	104	97	53	0	0	5	2		
TUPELO	62	45	75	32	54	0	2.15	1.08	1.38	5.61	62	42.81	91	90	49	0	1	4	1		
MO COLUMBIA	58	37	64	30	47	1	0.37	-0.32	0.28	13.09	154	43.30	124	88	57	0	1	2	0		
KANSAS CITY	57	37	64	31	47	2	0.13	-0.34	0.11	18.86	206	46.03	131	94	64	0	1	2	0		
SAINT LOUIS	59	40	68	33	50	2	0.39	-0.37	0.20	8.76	93	42.46	130	83	49	0	0	2	0		
SPRINGFIELD	58	38	66	29	48	0	0.85	-0.03	0.49	12.42	125	46.15	122	89	58	0	1	3	0		
MT BILLINGS	41	27	60	21	34	-3	0.15	-0.04	0.07	2.99	99	13.64	98	87	55	0	5	4	0		
BUTTE	38	19	53	3	28	-1	0.26	0.12	0.19	1.75	78	13.77	121	87	53	0	5	2	0		
GLASGOW	33	21	47	12	27	-4	0.29	0.23	0.20	4.60	261	14.18	136	94	73	0	7	3	0		
GREAT FALLS	36	24	52	7	31	-5	0.29	0.15	0.19	1.97	86	15.90	114	86	66	0	6	2	0		
KALISPELL	41	30	48	20	35	3	0.34	0.08	0.17	2.90	97	17.74	127	87	56	0	4	4	0		
MILES CITY	40	24	54	18	32	-3	0.08	-0.05	0.05	3.24	132	13.36	101	95	61	0	6	3	0		
MISSOULA	38	26	47	18	32	-2	0.78	0.61	0.53	2.37	108	18.38	155	98	69	0	6	4	1		
NE GRAND ISLAND	49	29	61	25	39	-1	0.48	0.23	0.42	4.24	90	25.85	109	92	58	0	7	2	0		
LINCOLN	53	31	63	24	42	1	1.01	0.70	0.79	8.33	133	34.02	127	95	59	0	4	3	1		
NORFOLK	44	30	54	24	37	-2	1.33	1.08	0.93	6.16	134	34.85	146	93	70	0	6	3	1		
NORTH PLATTE	48	24	60	14	36	-2	0.10	-0.07	0.10	4.35	149	22.43	121	94	53	0	7	1	0		
OMAHA	52	33	62	27	42	1	0.46	0.09	0.34	4.88	72	39.50	140	93	61	0	4	3	0		
SCOTTSBLUFF	47	22	61	16	35	-3	0.13	-0.01	0.13	4.44	204	16.46	115	89	46	0	7	1	0		
VALENTINE	41	24	53	15	33	-3	0.23	0.08	0.21	5.50	200	23.98	137	93	63	0	7	1	0		
NV ELY	44	19	66	9	31	-4	0.19	0.02	0.12	2.90	128	11.94	130	92	38	0	7	3	0		
LAS VEGAS	60	43	67	36	52	-5	0.28	0.17	0.22	1.79	267	6.88	198	74	27	0	0	3	0		
RENO	49	29	60	24	39	-3	0.14	-0.05	0.08	2.93	269	11.63	193	88	41	0	6	2	0		
WINNEMUCCA	45	25	58	19	35	-4	0.16	-0.06	0.13	4.26	300	14.57	212	95	53	0	7	2	0		
NH CONCORD	47	26	60	18	37	-2	0.59	-0.26	0.56	5.80	75	33.03	105	88	45	0	5	3	1		
NJ NEWARK	58	41	67	36	49	0	0.33	-0.58	0.31	4.92	58	41.95	109	72	38	0	0	2	0		
NM ALBUQUERQUE	53	32	64	24	43	-3	0.31	0.20	0.17	2.26	107	9.46	116	90	35	0	3	2	0		
NY ALBANY	49	30	59	25	40	-2	0.47	-0.28	0.29	6.63	91	36.78	117	95	57	0	5	3	0		
BINGHAMTON	48	33	57	30	40	0	0.49	-0.28	0.25	6.25	81	36.68	114	88	54	0	4	2	0		
BUFFALO	49	36	59	31	43	0	0.97	0.08	0.83	5.56	67	32.70	100	84	53	0	1	4	1		
ROCHESTER	50	35	60	31	42	0	0.93	0.25	0.88	5.68	83	40.08	145	88	55	0	2	5	1		
SYRACUSE	51	34	60	28	43	0	0.65	-0.22	0.28	6.02	69	34.46	102	90	51	0	4	4	0		
NC ASHEVILLE	58	41	68	30	50	1	1.88	1.05	0.75	5.59	61	44.40	105	96	48	0	1	6	2		
CHARLOTTE	62	45	73	36	53	0	0.73	-0.01	0.59	6.97	84	37.29	98	92	53	0	0	4	1		
GREENSBORO	61	44	72	30	52	1	0.83	0.14	0.43	4.04	48	42.51	113	89	52	0	1	4	0		
HATTERAS	63	53	74	47	58	0	0.12	-1.06	0.06	9.54	75	57.33	117	90	65	0	0	4	0		
RALEIGH	63	40	74	28	51	-1	0.54	-0.15	0.35	8.13	110	48.59	133	97	57	0	1	3	0		
WILMINGTON	68	46	83	31	57	-1	0.20	-0.50	0.07	6.96	77	58.91	121	94	46	0	1	4	0		
ND BISMARCK	35	19	43	0	27	-4	0.93	0.82	0.59	5.10	193	23.09	157	94	78	0	7	4	1		
DICKINSON	34	22	43	14	28	-5	0.32	0.21	0.26	7.44	258	24.31	157	93	79	0	7	3	0		
FARGO	32	22	39	7	27	-4	0.37	0.19	0.16	7.54	184	30.15	163	91	74						

Weather Data for the Week Ending November 14, 1998

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	90 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE
																		.01 INCH OR MORE	.50 INCH OR MORE	
OK TOLEDO	50	36	64	31	43	1	0.69	0.06	0.51	3.78	61	31.08	109	94	62	0	1	3	1	
OK YOUNGSTOWN	50	36	63	29	42	0	0.96	0.23	0.96	6.96	93	34.41	106	90	47	0	3	1	1	
OK OKLAHOMA CITY	59	43	70	33	51	0	0.55	0.06	0.62	13.44	165	32.93	106	93	61	0	0	2	1	
OR TULSA	59	42	71	32	50	-1	0.38	-0.38	0.38	16.57	167	44.11	120	93	58	0	1	1	0	
OR ASTORIA	51	41	55	34	46	-2	4.02	1.73	2.08	13.83	106	58.33	118	97	81	0	0	7	2	
OR BURNS	40	22	58	17	31	-4	0.46	0.17	0.35	1.80	96	13.62	167	96	84	0	7	4	0	
OR EUGENE	52	39	59	34	46	-2	0.47	-1.40	0.32	4.71	55	32.53	90	97	71	0	0	4	0	
OR MEDFORD	49	37	53	34	43	-2	0.47	-0.28	0.23	3.48	94	21.44	157	98	61	0	0	3	0	
OR PENDLETON	52	39	57	34	45	2	0.66	0.31	0.62	3.19	150	12.23	128	90	59	0	0	2	1	
OR PORTLAND	53	45	59	40	49	2	0.41	-0.78	0.16	5.72	86	30.74	114	92	67	0	0	4	0	
PA SALEM	52	42	58	33	47	1	0.46	-0.93	0.24	4.97	69	33.47	116	95	73	0	0	4	0	
PA ALLENTOWN	55	34	66	29	46	0	0.54	-0.36	0.44	8.10	94	38.29	101	88	51	0	4	2	0	
PA ERIE	51	40	59	36	45	0	0.86	-0.09	0.68	4.53	45	29.20	82	89	51	0	0	3	1	
PA MIDDLETOWN	58	35	64	31	47	1	0.22	-0.60	0.16	4.95	62	44.95	127	94	40	0	1	2	0	
PA PHILADELPHIA	59	41	66	38	50	2	0.49	-0.27	0.45	4.19	56	30.18	83	82	43	0	0	2	0	
PA PITTSBURGH	54	37	69	32	46	2	0.74	0.09	0.73	4.16	63	31.69	98	78	39	0	1	1	1	
PA WILKES-BARRE	52	36	64	33	43	0	0.28	-0.44	0.16	5.76	76	33.24	104	82	49	0	0	2	0	
PA WILLIAMSPORT	53	32	62	28	43	0	0.77	-0.11	0.46	4.97	59	38.92	109	88	48	0	4	3	0	
RI PROVIDENCE	52	32	63	27	42	-4	1.92	0.90	1.92	7.90	86	50.49	130	94	53	0	4	1	1	
SC BEAUFORT	74	52	81	42	63	2	0.18	-0.34	0.10	7.34	85	46.88	100	98	62	0	0	3	0	
SC CHARLESTON	73	51	81	37	62	2	0.08	-0.48	0.06	16.97	194	63.46	135	96	48	0	0	3	0	
SC COLUMBIA	67	45	79	33	56	0	0.68	0.02	0.47	7.84	95	43.91	98	94	45	0	0	5	0	
SD GREENVILLE	60	48	71	38	53	0	1.23	0.39	0.72	9.22	96	47.50	105	93	59	0	0	6	1	
SD ABERDEEN	35	23	40	10	29	-4	1.10	0.95	0.68	8.51	258	28.07	157	97	80	0	6	3	2	
SD HURON	37	25	42	13	31	-4	0.97	0.79	0.62	6.20	172	24.17	125	95	78	0	6	4	1	
SD RAPID CITY	37	21	47	13	29	-8	0.07	-0.07	0.07	7.98	301	20.85	131	88	65	0	7	1	0	
SD SIOUX FALLS	36	25	43	8	31	-5	2.13	1.86	1.38	9.67	180	30.90	137	96	79	0	7	3	2	
TN BRISTOL	58	39	73	26	48	0	0.84	-0.03	0.37	3.38	47	37.96	106	95	48	0	2	5	0	
TN CHATTANOOGA	60	47	67	35	54	1	2.44	1.40	1.06	4.76	51	47.23	103	98	59	0	0	5	2	
TN KNOXVILLE	57	43	73	31	50	0	1.37	0.54	0.80	4.32	58	47.04	116	98	56	0	1	5	1	
TN MEMPHIS	61	45	72	32	53	-1	1.86	0.73	1.74	6.10	70	48.08	111	91	53	0	1	4	1	
TX NASHVILLE	60	43	69	29	51	0	0.70	-0.22	0.55	3.72	47	43.63	108	92	50	0	1	3	1	
TX ABILENE	65	46	80	40	56	-1	0.20	-0.17	0.12	2.67	41	12.63	55	94	43	0	0	5	0	
TX AMARILLO	62	33	72	28	48	0	0.06	-0.12	0.08	7.95	213	16.64	89	90	36	0	3	1	0	
TX AUSTIN	65	52	77	46	59	-4	1.95	1.37	0.86	23.20	291	37.56	130	96	71	0	0	5	2	
TX BEAUMONT	72	58	81	48	65	3	2.57	1.45	1.62	21.10	165	54.63	110	92	57	0	0	4	2	
TX BROWNSVILLE	80	66	84	60	73	3	1.07	0.70	0.82	15.20	159	19.83	80	97	68	0	0	5	1	
TX CORPUS CHRISTI	74	61	83	65	67	0	1.83	1.44	0.91	19.02	203	29.91	106	96	71	0	0	5	2	
TX DEL RIO	69	54	77	45	61	-1	0.68	0.44	0.60	4.93	88	28.75	166	95	54	0	0	4	1	
TX EL PASO	66	43	71	36	55	1	0.01	-0.10	0.01	2.81	104	6.11	75	34	0	0	1	0		
TX FORT WORTH	61	48	74	38	54	-3	2.37	1.81	1.26	10.81	133	29.40	96	87	66	0	0	4	2	
TX GALVESTON	73	62	80	56	68	2	2.38	1.61	1.87	20.91	204	48.11	130	94	73	0	0	5	1	
TX HOUSTON	69	55	83	45	62	0	8.42	7.52	4.65	27.91	254	50.54	124	96	61	0	0	5	3	
TX LUBBOCK	65	38	75	32	51	0	0.00	-0.19	0.00	3.08	63	12.52	70	87	34	0	2	0	0	
TX MIDLAND	66	44	83	37	56	2	0.09	-0.09	0.06	1.51	32	4.56	32	90	33	0	0	2	0	
TX SAN ANGELO	66	47	77	34	56	-1	0.42	0.14	0.28	3.57	56	12.52	65	95	51	0	0	3	0	
TX SAN ANTONIO	66	54	76	46	60	-2	1.47	0.82	0.83	22.97	290	41.61	148	95	62	0	0	5	1	
TX VICTORIA	68	56	80	46	62	-2	8.53	7.94	4.77	28.57	278	42.65	125	99	72	0	0	4	3	
TX WACO	64	49	75	38	56	-3	1.56	0.96	0.97	14.52	179	30.48	105	98	70	0	0	6	1	
TX WICHITA FALLS	62	46	81	38	54	0	0.27	-0.10	0.21	3.38	46	19.27	72	91	56	0	0	3	0	
UT SALT LAKE CITY	45	28	53	26	36	-6	0.38	0.08	0.29	4.09	122	22.57	159	90	46	0	7	2	0	
VT BURLINGTON	46	35	57	31	41	2	0.46	-0.28	0.33	8.67	113	49.64	163	76	45	0	3	4	0	
VA LYNCHBURG	59	35	68	26	47	-2	0.66	-0.18	0.52	3.95	47	44.09	122	98	51	0	2	2	1	
VA NORFOLK	59	42	72	37	51	-3	0.30	-0.36	0.12	5.04	60	48.65	122	98	65	0	0	3	0	
VA RICHMOND	60	38	73	33	49	-2	0.17	-0.57	0.16	5.21	62	41.28	108	89	44	0	0	2	0	
VA ROANOKE	60	40	69	30	50	1	0.15	-0.81	0.13	2.82	32	42.09	115	81	42	0	1	2	0	
WA WASH/DULLES	59	33	70	26	48	-1	0.53	-0.24	0.44	3.48	43	35.41	101	89	40	0	2	3	0	
WA HANFORD	54	39	62	27	46	-	0.00	-	0.00	1.02	-	5.36	-	87	49	0	2	0	0	
WA OLYMPIA	52	41	55	30	47	3	2.59	0.76	2.46	7.10	71	33.62	89	100	76	0	1	6	1	
WA QUILLAYUTE	52	41	55	28	47	2	10.06	6.88	3.76	20.02	91	67.89	83	100	84	0	1	7	5	
WA SEATTLE-TACOMA	51	45	55	41	48	2	1.79	0.46	0.64	7.87	103	27.06	97	100	73	0	0	7	1	
WA SPOKANE	45	34	50	26	39	3	0.29	-0.19	0.14	1.56	60	11.77	92	91	61	0	4	4	0	
WV YAKIMA	53	30	62	20	42	1	0.02	-0.20	0.01	0.46	37	7.39	124	95	51	0	5	2	0	
WV BECKLEY	53	37	70	25	46	0	0.77	0.08	0.49	4.97	65	43.20	119	96	43	0	2	4	0	
WV CHARLESTON	57	37	75	27	47	-1	0.58	-0.25	0.43	5.20	67	44.32	119	94	41	0	1	2	1	
WV ELKINS	53	29	66	20	41	-2	0.34	-0.43	0.20	6.09	73	43.44	110	97	46	0	6	4	0	
WV HUNTINGTON	56	38	72	27	47	-1	0.94	0.18	0.72	4.50	62	39.87	110	94	43	0	1	3	1	
WI EAU CLAIRE	41	29	47	20	36	0	1.24	0.87	0.88	3.89	55	28.82	97	91	57	0	4	3	1	
WI GREEN BAY	45	30	61	18	38	1	1.31	0.79	0.87	6.40	95	28.10	107	90	53	0	4	3	1	
WI MADISON	47	31	60	22	39	2	1.84	1.34	1.24	7.52	115	39.54	142	92	54	0	3	3	2	
WI MILWAUKEE	49	33	61	24	41	1	2.34	1.76	1.84	7.04	101	33.24	113	90	59	0	2	3	1	
WY CASPER	42	24	57	16	33	-2	0.04	-0.15	0.00	6.90	257	14.45	126	78	45	0	5	1	0	
WY CHEYENNE	43	23	60	16	33	-3	0.07	-0.07	0.04	2.17	95	10.46	76	84	43	0	5	2	0	
WY LANDER	35	15	50	6	25	-8	0.01	-0.18	0.01	6.04	229	17.17	142	85	51	0	7	1	0	
WY SHERIDAN	37	15	56	7	26	-8	0.16	-0.04	0.16	6.30	212	17.34	129	91	60	0	6	1	0	

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

(Continued from front cover)

Weekly temperatures ranged from 2 to 6°F below normal in areas affected by the snowstorm, and were as much as 5°F below normal in eastern Texas. In California and the Southwest, where cooler-than-normal weather prevailed for the seventh time in 8 weeks, temperatures averaged 3 to 7°F below normal. In contrast, departures reached +7°F above normal in parts of the Southeast.

Early in the week, a developing storm tracked from the Intermountain West to the central Plains. Cool air trailed the system into the West, resulting in several daily-record lows. On Sunday, Klamath Falls, OR noted 14°F. Two days later, Chatsworth, CA reported 39°F. Meanwhile, warm air streamed northward across the East. On Tuesday, highs reached 70°F in Beckley, WV and Akron-Canton, OH, setting daily records. Wilmington, NC notched 83°F a day later. Toward week's end, much warmer air arrived across the Western and Central States. As warmer air entered the northern High Plains on Friday, winds in Montana gusted to 76 mph in Browning and 68 mph in Choteau. On Saturday, Ely, NV posted a daily record-tying high of 66°F.

After reaching the central Plains on Monday, the low-pressure system turned northeastward and intensified explosively, becoming the strongest storm on record (in terms of minimum barometric pressure) in Iowa and Minnesota. On Tuesday, pressures dipped to 28.54 inches in Iowa (at Spencer and Estherville) and 28.43 inches in Minnesota (at Austin and Albert Lea). Non-thunderstorm wind gusts were clocked to 93 mph in LaCrosse, WI, 68 mph in Waterloo, IA, 63 mph in Springfield, IL, and 60 mph in Grand Island, NE. On Lake Michigan, wave heights on the night of November 10-11 reached 20.3 feet at a buoy 45 miles west of Holland, MI. In northwestern Lake Huron, a gust to 95 mph was reported on Mackinac Island, MI. Meanwhile, November 8-10 snowfall totaled 13.4 inches in Sioux Falls, SD and 10.9 inches in Bismarck, ND. Month-to-date snowfall in Rapid City, SD reached 21.3 inches, second only to a 33.6-inch November total in 1985. In the storm's wake, temperatures dipped to the freezing mark (32°F) on Wednesday as far south as Lubbock, TX and Carlsbad, NM. A day later, Williston, ND recorded -6°F.

In southeastern Texas, November 12-14 rainfall in Victoria totaled 8.44 inches, boosting their monthly total to a November-record 9.98 inches. Their previous November record had been 8.68 inches in 1982. Monthly rainfall reached 9.94 inches in Houston, TX, aided by a 4.68-inch total on Thursday. Widespread lowland flooding affected the region, especially in areas recovering from the October deluge. For example, the San Bernard River at Boling, TX surged to 18.5 feet above flood stage (and was still slowly rising) on Monday, November 16, but remained about 6.2 feet below the October 21 record. Meanwhile in the Pacific Northwest, weekly rainfall totaled 10.88 inches along the coast in Quillayute, WA. Lighter amounts fell in winter wheat areas of the Northwest, improving soil moisture.

## Barometric Records and Selected Peak Wind Gusts November 10-11, 1998

### November Record-Low Barometric Pressure (Inches)

Location	Pressure/Date	Former Record/Date
Omaha, NE	28.86 on Nov. 10	not available
Sioux Falls, SD	28.88 on Nov. 10	29.03 in 1961
Lincoln, NE	28.98 on Nov. 10	29.01 in 1961

### All-Time Record-Low Barometric Pressure (Inches)

Location	Pressure/Date	Former Record/Date
Duluth, MN	28.48 on Nov. 10	28.55 on Jan. 11, 1975
Minneapolis, MN	28.55 on Nov. 10	28.62 on Jan. 10, 1975

### State Record-Low Barometric Pressure (Inches)

Location	Pressure/Date	Former Record/Date
Minnesota (Austin and Albert Lea)	28.43 on Nov. 10	28.55 on Jan. 11, 1975 (Duluth)
Iowa (Spencer and Estherville)	28.54 on Nov. 10	28.66 on Mar. 26, 1950 (Sioux City)

### Selected Peak Wind Gusts (m.p.h.)

Location	Peak Gust	Date/Time
LaCrosse, WI	93	Nov. 10 at 2:20 p.m.
Oelwein, IA	70	Nov. 10 at 12:57 p.m.
Waterloo, IA	68	Nov. 10 at 10:23 a.m.
Ord, NE	67	Nov. 10 at 10:41 a.m.
Muskegon, MI	67	Nov. 10 at 10:27 p.m.
Grand Rapids, MI	66	Nov. 10 at 7:21 p.m.
Omaha (Valley), NE	66	Nov. 10 at 11:10 a.m.
Springfield, IL	63	Nov. 10 at 4:40 a.m.
Lincoln, IL	62	Nov. 10 at 5:14 a.m.
Milton (Blue Hill Observatory), MA	62	Nov. 11 at 7:00 a.m.
Chicago (Midway), IL	61	Nov. 10 at 4:28 p.m.
Winona, MN	60	Nov. 10 at 1:30 p.m.
Windsor Locks, CT	54	Nov. 11 at 7:40 a.m.
Providence, RI	52	Nov. 11 at 8:26 a.m.

## National Agricultural Summary

November 9 - 15, 1998

### HIGHLIGHTS

**A strong low pressure system delivered heavy snowfall in the northern Plains and large accumulations of rain in parts of the southern Plains, Mississippi Delta, and Southeast. In the Southeast, the rain was welcomed, as some areas of the southern Piedmont had been very dry. The northern half of the storm brought lighter, more widespread rain to the Corn Belt, but also packed damaging winds.**

**Additional late-week rains caused severe flooding in parts of eastern Texas. Another strong storm delivered heavy rain along the coast of the Pacific Northwest. Snow, up to 1 foot deep in some places, protected the winter wheat in the northern Great Plains and northern Rocky Mountains from a blast of cold arctic air. Cool, dry weather aided harvest efforts in the Southwest.**

**Winter Wheat:** Planting progressed to 93 percent complete, slightly behind the 94 percent average for this date. Wheat had emerged on 83 percent of the acreage, 2 percentage points behind the 5-year average. Cold weather and snow, heavy in some places, put an end to planting in the northern Great Plains. However, planting remained brisk in the lower Missouri Valley, Mississippi Delta, parts of the Southeast, and in California. Virtually all of the crop had emerged in the central and northern Great Plains before the winter storm pushed through. In the northern Rocky Mountains, a small percentage of the crop had not emerged prior to the winter storm. Seasonable temperatures aided emergence in the southern Corn Belt, Mississippi Delta, Southeast, and parts of the Pacific Northwest.

**Corn:** The Nation's corn harvest advanced 4 percentage points, to 94 percent complete, and remained 1 week ahead of the normal pace. Harvest activity remained brisk in Michigan and Pennsylvania. Elsewhere around the Corn Belt, farmers were storing their combines, as the harvest season neared the end. In most States, the harvest was ending more than 1 week ahead of normal, but in Colorado and South Dakota, harvest progress was several days behind normal.

**Soybeans:** The harvest pace continued to decline, progressing just 2 percentage points, to 96 percent

complete. In most areas of the Corn Belt and Mississippi Delta, the harvest was virtually complete. The harvest pace was still very brisk in the Southeast, where progress was more than 1 week ahead of the 5-year average.

**Cotton:** The Nation's cotton harvest progressed to 80 percent complete, up from 75 percent the previous week. Normally, 77 percent of the crop would be harvested by this date. Dry weather aided harvest in California, but progress remained far behind the normal pace. The harvest also lagged in Arizona and New Mexico, despite good progress. In the Southeast, the harvest continued at a steady pace, while growers in the Mississippi Delta were virtually finished.

**Other crops:** Sorghum harvested advanced to 91 percent complete, slightly behind the 92 percent average. Dry weather permitted Illinois farmers to nearly finish harvesting the remainder of their crop. New Mexico farmers also made rapid progress, but remained slightly behind normal. Progress also lagged slightly in most areas of the Great Plains. Ninety-two percent of the peanuts were harvested, ahead of the normal pace of 89 percent. Growers in Oklahoma made good progress, but remained well behind the 5-year average. In the Southeast, the harvest was nearly finished, including Florida, where less than half of the peanut crop would normally be harvested by this date.

# Crop Progress and Condition

Week Ending November 15, 1998

## Winter Wheat Percent Planted

	Nov 15 1998	Prev Week	Prev Year	5-Yr Avg
AR	90	78	76	75
CA	40	30	36	32
CO	100	100	100	100
GA	22	16	18	25
ID	99	98	99	99
IL	98	96	100	98
IN	99	97	100	100
KS	98	97	99	99
MI	100	100	100	100
MO	86	76	95	92
MT	100	100	100	99
NE	100	100	100	100
NC	70	55	69	62
OH	100	100	100	100
OK	96	92	98	99
OR	97	92	97	94
SD	100	100	100	100
TX	92	88	94	93
WA	100	100	100	98
ALL	95	93	96	95

These 19 States planted 91% of last year's winter wheat acreage.

## Soybeans Percent Harvested

	Nov 15 1998	Prev Week	Prev Year	5-Yr Avg
AL	87	85	71	69
AR	95	89	80	81
GA	70	53	42	50
IL	97	96	99	99
IN	100	98	99	98
IA	99	99	99	99
KS	90	88	95	95
KY	97	94	76	81
LA	100	100	99	96
MI	100	98	93	97
MN	99	98	99	99
MS	99	98	90	89
MO	92	87	90	90
NE	96	95	97	99
NC	45	40	31	32
OH	99	99	100	97
SC	55	40	19	31
SD	96	95	100	99
TN	95	90	64	69
ALL	96	94	93	93

These 19 States harvested 93% of last year's soybean acreage.

## Cotton Percent Harvested

	Nov 15 1998	Prev Week	Prev Year	5-Yr Avg
AL	93	91	74	81
AZ	71	63	81	81
AR	97	95	87	92
CA	45	35	94	98
GA	76	65	59	72
LA	99	99	99	98
MS	100	99	95	95
MO	93	87	85	90
NM	43	35	68	66
NC	90	85	61	73
OK	80	76	58	53
SC	89	82	63	75
TN	98	95	83	88
TX	75	71	70	64
ALL	80	75	76	77

These 14 States harvested 98% of last year's cotton acreage.

## Sorghum Percent Harvested

	Nov 15 1998	Prev Week	Prev Year	5-Yr Avg
AR	100	100	99	100
CO	66	61	26	68
IL	98	86	94	90
KS	95	94	88	94
LA	100	100	100	100
MS	100	100	100	100
MO	92	88	92	90
NE	94	90	94	95
NM	60	46	80	64
OK	88	83	71	72
SD	89	87	95	94
TX	88	85	91	95
ALL	91	88	88	92

These 12 States harvested 99% of last year's sorghum acreage.

## Winter Wheat Percent Emerged

	Nov 15 1998	Prev Week	Prev Year	5-Yr Avg
AR	72	50	64	62
CA	15	8	14	15
CO	97	97	99	99
GA	11	8	12	16
ID	92	86	89	88
IL	95	84	97	90
IN	92	89	92	93
KS	95	90	94	96
MI	97	92	99	95
MO	70	55	83	78
MT	93	88	91	88
NE	100	100	100	100
NC	50	35	40	44
OH	100	98	93	93
OK	85	77	87	90
OR	89	79	79	84
SD	100	100	100	99
TX	79	74	84	83
WA	99	99	99	91
ALL	88	83	89	89

These 19 States planted 91% of last year's winter wheat acreage.

## Corn Percent Harvested

	Nov 15 1998	Prev Week	Prev Year	5-Yr Avg
CO	83	78	90	89
GA	100	100	100	100
IL	95	92	96	94
IN	98	93	85	87
IA	95	92	95	94
KS	98	97	95	97
KY	99	97	93	95
MI	94	83	49	69
MN	97	96	97	93
MO	91	87	93	90
NE	89	86	90	90
NC	100	100	99	99
OH	92	85	70	77
PA	85	70	64	71
SD	82	78	97	89
TX	100	100	100	100
WI	91	86	68	78
ALL	94	90	90	90

These 17 States harvested 92% of last year's corn acreage.

VP - Very Poor

P - Poor

F - Fair

G - Good

EX - Excellent

\* - Revised

(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 5.0. Topsoil moisture 5% very short, 31% short, 57% adequate, 7% surplus. Rainfall across most of the State helped small grains, prepared pastures for winter grazing. Harvest of remaining field crops was postponed in some areas. Cotton harvested 93%, 74% 1997, 81% avg. Soybeans harvested 87%, 71% 1997, 69% avg. Peanuts dug 99%, 100% 1997, 100% avg.; combined 95%, 100% 1997, 100% avg. Wheat planted 53%, 55% 1994, 59% avg. Livestock 4% very poor, 12% poor, 57% fair, 24% good, 3% excellent.

**ARIZONA:** Cotton harvest is progressing at a normal pace, but the harvest is still 1 week behind 1997 and the average. Alfalfa harvest activity 61% not being harvested, 12% light, 23% moderate, 4% active. Alfalfa was mixed, with some areas improving, while others declined. Condition 2% poor, 10% fair, 82% good, 6% excellent. Sheeping off increased slightly. Small grains are being planted in the areas where cotton harvest is furthest along. As of November 15, 15% of the durum wheat, 9% of other wheat, 13% of the barley, 8% of the other small grains had been planted. Other farmers preparing for small grain planting. Range, pasture feed 7% poor, 32% fair, 47% good, 14% excellent. Central area growers harvested bok choy, broccoli, cabbage, green onions, mixed greens, spinach, light volume of cilantro, dandelion, dill, endive, escarole, kale, napa, swiss chard. Eastern producers shipped apples, chile peppers, lettuce. Western producers shipped broccoli, cantaloupes, honeydews, head lettuce, leaf lettuce, romaine lettuce, mixed greens, spinach. Western, central citrus groves harvested lemons, navel oranges last week.

**ARKANSAS:** Days suitable for fieldwork 4.5. Soil moisture 8% short, 80% adequate, 12% surplus. Cold front brought rain, cooler weather to State early in the week. Rain was confined to the southern half of the State late in the week, with cloudy to mostly cloudy skies statewide. Temperatures varied depending on where the sun could break through. Main farming activities included harvesting cotton, soybeans, planting wheat. Both the cotton, soybean harvest progressed ahead of the 5-year average due largely to hot, dry conditions that prevailed during the crop's early development stages. Other farm activities included weed control in wheat, land preparation activities for next season, cutting cotton stalks, soil sampling, maintenance activities on equipment. Cattle producers continued to market calves, cull cows from their herds. Some producers were feeding hay due to lack of adequate pastures. Cattle were given vaccinations, were reported in good condition statewide. Oats 3% fair, 89% good, 8% excellent. Alfalfa 1% very poor, 27% poor, 53% fair, 19% good. Other hay 6% very poor, 15% poor, 42% fair, 36% good, 1% excellent.

Range, pasture feed 6% very poor, 23% poor, 34% fair, 34% good, 3% excellent.

**CALIFORNIA:** Field activities were slowed for several days by rain in most areas. Seeding of small grains, winter forage crops, new alfalfa was ongoing where conditions permitted. Most of the earlier seeded wheat, barley fields showed good emergence, growth. Rice harvest was virtually complete in the San Joaquin Valley; Sacramento Valley harvest was finished. Cotton harvest, defoliation were delayed by wet soils, rain in the San Joaquin Valley. Harvested fields were immediately plowed down for pink bollworm control. Rain, cool, cloudy conditions were causing some damage to lint quality as the cotton remained damp. Black eye beans, grain sorghum, sugar beets, corn for grain, silage were harvested. Some fields of windrowed black eye beans began to show mold damage from the rain in the southern San Joaquin Valley. Alfalfa fields were treated aerially for weeds. Green chopping of alfalfa gained momentum, while the alfalfa hay harvest was on the final cutting in most areas. Growers of almonds, walnuts, prunes, stone fruits were active, with post harvest irrigating, fertilizing, pruning activities. Picking of grapes for fresh use in the San Joaquin Valley continued. Emperor, red globe, Christmas rose, crimson seedless were the major varieties being picked. The raisin grape harvest has concluded. Harvest of grapes for wine was almost finished. Fuji, Granny Smith apple picking was still active. Fig, olive, persimmon, kiwi fruit, pomegranate harvests continued. Harvests of walnuts, almonds were completed. A few pistachio orchards were still being harvested. Pecan harvest was approaching. Valencia orange harvest was almost over. Picking of new crop navel oranges began, but at a slow pace due to rainy weather. Navel oranges sizes appear to be smaller than normal. Satsuma harvest continued. Lemon sizes were small, picking has been limited. Lettuce harvesting continued in the San Joaquin Valley, central coast areas. Fall cantaloupes, honeydew melons were still being harvested in the Imperial Valley. Only a few late bell pepper fields remained to be harvested. Harvests of most summer vegetables came to a close. Additional vegetable crops harvested included fresh, processing onions, eggplant, turnips, cucumbers, green beans, squash, radishes, parsley, sweet potatoes, beets. Harvests of fall broccoli, cabbage, cauliflower, spinach crops continued in the southern San Joaquin Valley. Garlic, carrot, onion, potato fields were planted in central, southern counties. Stocker cattle were moved onto winter pastures in northern areas where grass conditions were improving after recent rains. Ranchers in the central part of the State were awaiting new grass growth before moving cattle to winter pastures. Consequently, few stocker cattle have been turned out, most stock cows continued to be

supplemented. Sheep were grazing alfalfa, bean fields in the central area. Fall lambing continued, calving was winding down.

**COLORADO:** Days suitable for fieldwork 3.3. Topsoil moisture 7% short, 87% adequate, 6% surplus. Subsoil moisture 4% very short, 22% short, 71% adequate 3% surplus. State wide snow early in the week. Improved weather late in the period, with record or record high temps in several areas. Corn, sorghum, sugar beet harvests advanced slowly due to wet field conditions. Pasture, range feed in mostly good to fair condition.

**DELAWARE:** Days suitable for fieldwork 6.1. Topsoil moisture 13% very short, 47% short, 40% adequate. Subsoil moisture 2% very short, 44% short, 54% adequate. Wheat 30% fair, 68% good, 2% excellent; 80% planted, 71% 1997, 81% avg. Soybeans 75% harvested, 40% 1997, 57% avg. Sorghum 75% harvested, 39% 1997, 65% avg. Alfalfa hay 80% 5th cutting, 79% 1997, 68% avg. Hay supplies 13% short and 87% adequate. Pasture feed 6% poor, 33% fair, 61% good. Activities: Wheat seeding continued, little bit of corn harvesting left, soybean, sorghum harvesting continued.

**FLORIDA:** Topsoil moisture throughout Panhandle, northern Peninsula short to adequate, some areas very short. Southern Peninsula moisture adequate to surplus. Haying winding down. Cotton harvest active. Peanut harvest winding down. Sugarcane harvest, planting active after delay from wet fields. Ninety-nine percent peanut acreage for nuts harvested. Sunny skies, mild temperatures, very little rain this week helped vegetables recover from rain, winds from Tropical Storm Mitch previous week. Major crops shipped during week included snap beans, sweet corn, cucumbers, eggplant, okra, peppers, pickles, squash, tomatoes, watermelons. Mild November week in citrus belt. Temperatures in 80's degrees F, with very little rain, little new growth, growers irrigating, packers running early oranges, early tangerines, grapefruit, K-Early's, tangelos. Caretakers cutting cover crops, spraying, herbiciding. Pasture feed poor 10%, fair 55%, good 35%. Cattle condition: poor 5%, fair 45%, good 50%. North; insufficient soil moisture to establish cool season forages. Already emerged winter forage seriously drought stressed. However, planting of winter forage, central counties, delayed by wet soil conditions. Already planted forage slow emerging. West Central; pastures fair condition, grass still green. Southwest; surplus soil moisture, some low-lying pasture had standing water. State-wide, cattle, calves poor to good condition.

**GEORGIA:** Days suitable for fieldwork 5.6. Soil moisture 20% very short, 45% short, 32% adequate, 3% surplus. Cotton 9% very poor, 26% poor, 45% fair, 18% good, 2% excellent. Rye 83% planted, 83% 1997, 86% avg. Sorghum 92% harvested for grain, 77% 1997, 88% avg. Soybeans 20% very poor, 25% poor, 38% fair, 15% good, 2% excellent. Other small grains 72% planted, 69% 1997, 68% avg. Onions 29% fair, 71% good; 21% transplanted, 17%

1997, 17% avg. Apples 99% harvested, 99% 1997, 97% avg. Pecans 13% very poor, 31% poor, 42% fair, 13% good, 1% excellent; 56% harvested, 43% 1997, 46% avg. Pasture feed 12% very poor, 30% poor, 39% fair, 19% good. Scattered showers slowed field activities in some areas of the State. Harvesting of most field crops continued at a good pace. Parts of the State remained extremely dry, need of rain. Rye, small grain planting made good progress. Pecan harvest over a week ahead of 1997 and average; however, yield, quality of the crop was below producers expectations. Many cattlemen were still feeding hay, supplements to cattle. Other activities: Harvesting cotton, peanuts, sorghum, soybeans, over seeding pasture, general maintenance to farm equipment.

**HAWAII:** Cloudy skies, frequent showers late in the week were fair for agriculture. Farming hampered in western half of the State due to rainy weather. Previously parched areas in the eastern half of the State welcomed the rains. Banana supplies heavy, steady. Papaya harvesting steady, meeting market demand. Head cabbage production steady, good quality. Sweet corn harvesting expected to increase as Thanksgiving approaches.

**IDAHO:** Days suitable for fieldwork 5.6. Topsoil moisture 1% surplus, 74% adequate, 25% short. Temperatures in northern, south-central areas remain above normal. Precipitation totals for most of the State remain below normal. Apples harvested 96%, 1997 100%, 99% avg. Corn harvested for grain 65%, 1997 79%, 72% avg. Sugar beets harvested 99%, 1997 99%, 97 avg. Activities: Fall ground preparation, wrapping up fall harvest, caring for livestock.

**ILLINOIS:** Days suitable for fieldwork 3.7. Topsoil moisture 3% short, 78% adequate, 19% surplus. Rain last week prevented farmers from finishing harvest. Strong winds damaged some remaining corn in the northern part of the State. Other activities for the week included hauling grain, storing equipment.

**INDIANA:** Days suitable for fieldwork 5.2. Topsoil moisture 4% very short, 13% short, 77% adequate, 6% surplus. Subsoil moisture 6% very short, 24% short, 64% adequate, 6% surplus. Dry weather most of the week enabled farmers to virtually complete soybean harvest, make good progress on corn harvest. Winter wheat crop looks very good, taking advantage of mild temperatures, adequate soil moisture. Mild weather has also resulted in very few problems with livestock. Activities: Harvesting corn, soybeans, seeding winter wheat, fall tillage, applying manure, fertilizer and lime, caring for livestock.

**IOWA:** Days suitable for fieldwork 2.4. Topsoil moisture 3% short, 65% adequate, 32% surplus. Subsoil moisture 9% short, 74% adequate, 17% surplus. Rain, snow, high winds were hard on unharvested corn, with some fields flattened. Storm, winds caused considerable lodging, ear droppage. Fall tillage, fertilizer applications were major activities until halted by the storm. Corn acreage harvested

95%, 95% 1997, 94% avg. Corn lodging 24% none, 30% light, 26% moderate, 20% heavy; corn ear droppage 27% none, 40% light, 28% moderate, 5% heavy. Soybean acreage harvested 99%, 99% 1997, 99% avg. Winter wheat planted 95%, 93% 1997, 99% avg. Completion of 1999 row-crop fall tillage 44%, 47% 1997, 39% avg.; fall fertilizer applied 38%, 45% 1997, 34% avg. Grain movement 23% none, 42% light, 31% moderate, 4% heavy. Off-farm grain storage availability 37% short, 61% adequate, 2% surplus. On-farm storage 35% short, 62% adequate, 3% surplus. Wet weather, mud caused some livestock problems, remain in mostly good condition.

**KANSAS:** Days suitable for fieldwork 1.2. Topsoil moisture 2% short, 56% adequate, 42% surplus. Subsoil moisture 3% short, 77% adequate, 20% surplus. Fieldwork slow to resume due to wet conditions that persist across the State. Sunflowers harvested 95%, 87% 1997. Pasture feed 1% very poor, 8% poor, 33% fair, 53% good, 5% excellent. Stock water supplies 2% short, 84% adequate, 14% surplus. Producers weaning calves, shipping calves to backgrounding yards, moving cattle to crop residue. Calves experiencing health problems, limited weight gains due to change in weather, muddy conditions.

**KENTUCKY:** Days suitable for fieldwork 4.6. Topsoil moisture 5% very short, 37% short, 55% adequate, 3% surplus. Subsoil moisture 11% very short, 50% short, 38% adequate, 1% surplus. Above-normal temperatures, significant precipitation statewide. Corn, soybean harvests nearing completion. Stripping tobacco continues to be the main activity; 1% very poor, 11% poor, 41% fair, 39% good, 8% excellent. Pastures feed 8% very poor, 23% poor, 42% fair, 26% good, 1% excellent. Winter wheat 95% seeded, 92% 1997, 91% avg.; 4% poor, 37% fair, 51% good, 8% excellent.

**LOUISIANA:** Days suitable for fieldwork 4.0. Soil moisture 1% very short, 12% short, 59% adequate, 28% surplus. Cotton harvest progressed. Reports of yields, tonnage vary. Hay 97% final cutting, 100% 1997, 100% avg. Some cattlemen are grazing hay fields instead of cutting. Pecans 7% very poor, 15% poor, 43% fair, 31% good, 4% excellent; 54% harvested, 45% 1997, 42% avg. Sugarcane 1% very poor, 9% poor, 20% fair, 50% good, 20% excellent; 36% harvested, 38% 1997, 45% avg. Sweet potatoes 97% harvested, 90% 1997, 91% avg. Wheat 80% planted, 66% 1997, 64% avg.; 60% emerged, 38% 1997, 42% avg. Livestock 2% very poor, 7% poor, 41% fair, 46% good, 4% excellent. Vegetables 5% very poor, 18% poor, 40% fair, 34% good, 3% excellent. Pasture feed 4% very poor, 17% poor, 48% fair, 28% good, 3% excellent. Pastures responding well to warm daytime temperatures, added moisture.

**MARYLAND:** Days suitable for fieldwork 6.3. Topsoil moisture 21% very short, 63% short, 16% adequate. Subsoil moisture 34% very short, 55% short, 11% adequate. Rye 1% very poor, 11% poor, 36% fair, 51% good, 1% excellent; 93% planted, 90% 1997, 91% avg. Wheat 2%

very poor, 14% poor, 37% fair, 46% good, 1% excellent; 94% planted, 80% 1997, 87% avg. Field corn 93% combined, 85% 1997, 91% avg. Soybeans 86% harvested, 66% 1997, 72% avg. Sorghum 95% harvested, 63% 1997, 71% avg. Tobacco 28% stripped, 19% 1997, 19% avg. Pasture feed 16% very poor, 33% poor, 27% fair, 23% good, 1% excellent. Alfalfa hay 82% 5th cutting, 72% 1997, 72% avg. Hay 5% very short, 32% short, 57% adequate, 6% surplus. Activities: Rye, wheat seeding coming to close, corn harvesting nearing completion, soybean harvesting continued, as well as tobacco stripping.

**MICHIGAN:** Days suitable for fieldwork 5.0. Topsoil moisture 5% very short, 19% short, 74% adequate, 2% surplus. Subsoil moisture 22% very short, 32% short, 45% adequate, 1% surplus. Hay 4th cutting 94%, 96% 1997, 97% avg. Strong wind, rain swept through State 10th with strong winds continuing into 11th morning. Storm caused power outages in many areas along with damage to buildings, equipment, pine trees. Most areas received between 1 and 2 inches of rain, although southeast received less than 1 inch. Some areas where the high winds lodged remaining corn made harvest difficult, increased field losses. Rain did green up the winter wheat, softened the soils, allowing fall tillage in areas that had been too dry.

**MINNESOTA:** Strong storm moved through the State early last week. Significant snowfall, with some blizzard-like conditions, occurred mostly in southern, western areas of the State. Other areas of the State received additional rainfall. Strong winds were also associated with the storm.

**MISSISSIPPI:** Days suitable for fieldwork 2.9. Soil moisture 4% very short, 22% short, 60% adequate, 14% surplus. Cotton 100% harvested, 95% 1997, 95% avg. Soybeans 99% harvested, 90% 1997, 89% avg. Sweet potatoes 98% harvested, 92% 1997, 97% avg. Wheat 95% planted, 81% 1997, 86% avg.; 71% emerged, 71% 1997, 74% avg.; 1% very poor, 7% poor, 56% fair, 33% good, 3% excellent. Cattle 4% very poor, 8% poor, 26% fair, 53% good, 9% excellent. Hay supply 23% short, 74% adequate, 3% surplus. Feed grain 16% short, 82% adequate, 2% surplus. Activities: Needed rains were beneficial to the wheat crop, winter pastures.

**MISSOURI:** Days suitable for fieldwork 2.8. Topsoil moisture 1% short, 61% adequate, 38% surplus. Wettest area is the northern third of the State, west-central with 50% or more surplus, while south-central at 19% short. Ground intended for next year's spring crops that has been worked at least once (excluding no-till) 36%, 39% 1997, 33% avg. Corn harvest in northern third of State ranged from 78% northeast to 91% north-central, while central third of State ranges from 94% west-central to 99% central, southern third of State has been complete for over a month. Soybean harvest ranges from 83% in southwest and west-central to 95% or more north-central east-central, south-central, southeast districts. Sorghum harvest in northern two-thirds of the State ranged from 80% northeast, central districts to about 90% northwest, east-central, while harvest in southern

third of State is complete. Wheat planting most advanced in north-central, south-central, southeast at 95% or more complete, while least advanced is west-central at 64%. Cotton harvest is a week ahead of last year and normal. Weekly precipitation averaged 0.62 in. Rainfall ranged from 0.41 in. in northwest to 1.17 in. in southeast, most remaining districts averaged over 0.50 in. or more. Pasture feed 4% poor, 28% fair, 57% good, 11% excellent.

**MONTANA:** Topsoil moisture 3% very short, 32% short, 60% adequate, 5% excellent. Subsoil moisture 4% very short, 48% short, 46% adequate, 2% excellent. Not much precipitation over the State last week, just trace amounts. Temperatures over much of the State last week were in the 30's to low 40's degrees F. Winter wheat protectiveness of snow cover 11% very poor, 48% poor, 29% fair, 11% good, 1% excellent. Cattle and calves being moved from summer pasture 94%, 89% 1997, 90% avg. Sheep and lambs being moved from summer pasture 95%, 92% 1997, 93% avg. County agents reported moisture amounts received the last few weeks were helpful to the winter wheat crop.

**NEBRASKA:** Days suitable for fieldwork 1.5. Topsoil moisture 1% short, 77% adequate, 22% surplus. Subsoil moisture 1% very short, 8% short, 82% adequate, 9% surplus. Rainfall widespread. Amounts from 0.2 in. to over 1.5 in. northeast. Snowfall in portions of the northeast. Corn harvest 89%, 90% 1997, 90% avg. Soybean harvest 96%, 97% 1997, 99% avg. Snow in portions of the northeast caused significant field loss in remaining unharvested fields. Sorghum harvest 94%, 94% 1997, 95% avg. Wheat 2% poor, 17% fair, 68% good, 13% excellent. Producer activities; recordkeeping, fencing, livestock care.

**NEVADA:** Temperatures averaged much below normal early in the week, warmed to a few degrees above normal by the end of the week. Precipitation was widespread, limited in volume. Snow fell in the northeast, High Sierra. Haying resumed as the weather moderated midweek. Harvesting of corn for grain continued. Planting of winter grains was virtually complete. Sod harvest continued south. Row crop harvests complete. Pasture and range condition good. Vaccinating of cattle, movement to winter range continued. Pregnancy testing resulting in marketing of open cows, heifers. Main farm, ranch activities: Moving, vaccinating, testing cattle, haying, corn harvest, equipment maintenance.

**NEW ENGLAND:** Days suitable for fieldwork 5.9. Topsoil moisture 1% very short, 3% short, 86% adequate, 10% surplus.

**NEW JERSEY:** Days suitable for fieldwork 7. Amount of feed requirements pastures are supplying ranges from below average to average. Irrigation water supply is short to adequate. Farmers are planting cover crops (wheat, rye). Some farmers in southern area are having to irrigate fall crops due to the lack of rain. Harvesting of fall items (beets, cabbage, endive, escarole, Boston, Romaine lettuce, leeks, herbs, radishes, parsley, spinach, turnips, winter squash)

occurring. Harvesting of soybeans is winding down, with the harvesting of corn for grain nearly complete. Some farmers reported a scant 4th, 5th cuttings of alfalfa hay. Pasture feed fair to good.

**NEW MEXICO:** Days suitable for fieldwork 5.9. Topsoil moisture 10% very short, 25% short, 64% adequate, 1% surplus. Temperatures returning to close to normal across the State. Harvest continued to move slowly as two storm fronts brought precipitation into the State. Northern, western counties were the hardest hit, with higher elevations receiving their first snowfall of the season. Red chile harvest 50% complete, 67% 1997; 2% poor, 35% fair, 56% good, 7% excellent. Corn harvest continued, 98% grain, 99% 1997; 5% poor, 5% fair, 70% good, 20% excellent. Cotton remained well behind average, with only 43% of the crop harvested, 68% 1997, 66% avg. Lettuce 18% fair, 64% good, 18% excellent; 78% of the crop harvested. Onion planting was winding down, with condition at 11% fair, 78% good, 11% excellent. Pecans remained unchanged in mostly good condition. Cattle, sheep stayed in fair to good condition.

**NEW YORK:** Grain corn harvest continued. Potato, apple, onion growers grading, packing, selling crops. Cider, wine making continued. Machinery repair, maintenance, storage major activities. Winter meetings, trade shows being attended.

**NORTH CAROLINA:** Days suitable for fieldwork 5. Soil moisture remains short to very short most areas, for the State 19% very short, 34% short, 47% adequate. Precipitation was below normal, temperature was above normal for the past week. Continued progress was made harvesting cotton, peanuts, sweet potatoes, which are well above the 5- year average. Pasture conditions, particularly in the western portions of the State, continue to deteriorate. Activities for the week included: Harvesting cotton, peanuts, sweet potatoes, soybeans, sorghum; planting small grains; tending livestock, cutting, shipping Christmas trees.

**NORTH DAKOTA:** Harvest was nearly completed statewide. Few acres of corn, sunflowers, soybeans, remained to be harvested, mainly in the southeastern part of the State. Field activity slowed down due to several inches of snow on the ground, frozen soils. Fall tillage, fertilizer applications were near completion in most parts of the State. Most ranchers have moved cattle in from the pastures, herds have begun to receive supplemental feed. Ranchers report an adequate amount of hay. Low cattle prices along with cheap feed have prompted many ranchers to hold on to calves.

**OHIO:** Days suitable for fieldwork 5.4. Topsoil moisture 14% short, 83% adequate, 3% surplus. Corn harvested for grain 92%, 70% 1997, 78% avg. Tobacco 36% stripped, 17% 1997. Winter wheat 1% poor, 17% fair, 59% good, 23% excellent. Virtually all of the winter wheat is emerged, soybean harvest is complete except for double crop soybeans. Scattered showers and heavy winds were

evident throughout the State. Producers in the central to northern half of the State report high winds caused lodging, breaking of corn stalks. Farmers have been busy with the corn, double-crop soybean harvest; fall tillage; tilling; spreading manure, fertilizer, lime, potash; winterizing equipment; mowing idle land; harvesting Christmas trees; selling timber; cutting firewood; baling corn fodder; weaning calves, moving cattle; grading drives, lanes; pruning trees; stripping tobacco. Asian lady beetles are still lingering from their unusually high population this fall. Deer, raccoon, turkeys are the only pests causing any notable damage. Pasture conditions are fair to adequate for this time of year, many producers have been feeding hay for quite some time. One reporter mentioned a case of pinkeye in cattle, otherwise reporters comment on very good livestock conditions.

**OKLAHOMA:** Days suitable for fieldwork 2.7. Topsoil moisture 1% very short, 5% short, 76% adequate, 18% surplus. Subsoil moisture 4% very short, 7% short, 77% adequate, 12% surplus. Early-week showers, mostly mild temperatures encouraged wheat development. Light freeze 11th, northern third, affected forage growth. Oats 87% planted, 85% 1997, 80 avg.; 73% up-to-stand, 67% 1997, 63% avg. Soybeans 78% harvested, 67% 1997, 78% avg. Peanuts 74% combined, 90% 1997, 85% avg. Alfalfa hay 2% very poor, 10% poor, 35% fair, 52% good, 1% excellent; 89% 4th cutting, 99% 1997, 100% avg.; 33% 5th cutting, 75% 1997, 82% avg. Other hay 73% 2nd cutting, 91% 1997, 98% avg. Livestock 1% very poor, 7% poor, 25% fair, 65% good, 2% excellent. Pasture feed, range 4% very poor, 18% poor, 35% fair, 42% good, 1% excellent. Cattle marketings average.

**OREGON:** Activities: Sugar beet harvest winding down. Sales, movement of containers, balled, burlapped plant material continued. Live Christmas tree balling continued. Fall vegetable harvest in western area winding down. Livestock condition mostly good. Pregnancy checking, vaccinating, weaning underway, market cattle being shipped. Some low-land pastures soggy.

**PENNSYLVANIA:** Days suitable for fieldwork 5.1. Soil moisture 26% very short, 46% short, 27% adequate, 1% surplus. Ensilage corn harvested 100% harvested, 98% 1997, 99% avg. Soybeans harvested 85% complete, 74% 1997, 76% avg. Fall plowing 85% complete, 87% 1997, 90% avg. Wheat planted 96% complete, 95% 1997, 97% avg.; emerged 87% complete, 79% 1997. Barley planted 100% complete, 100% 1997, 100% avg.; emerged 95% complete, 92% 1997. Alfalfa 4th cutting 97% complete, 90% 1997, 88% avg. Quality of hay made 13% very poor, 8% poor, 45% fair, 31% good, 3% excellent. Apple harvest 100% complete, 97% 1997, 98% avg. Activities: Fall plowing; harvesting corn, soybeans, cold weather cabbage; seeding wheat, cover crops; filling silos; machinery maintenance; fixing fences; hauling, spreading manure; spreading lime, fertilizer; caring for livestock.

**SOUTH CAROLINA:** Days suitable for fieldwork 5.9. Soil moisture 32% very short, 47% short, 19% adequate, 2% surplus. Barley 98% planted, 98% 1997, 76% avg.; 71% emerged, 92% 1997, 68% avg.; 90% fair, 10% good. Livestock 3% poor, 34% fair, 61% good, 2% excellent. Oats 78% planted, 83% 1997, 78% avg.; 61% emerged, 67% 1997, 65% avg.; 14% poor, 64% fair, 22% good. Pasture feed 9% very poor, 21% poor, 42% fair, 28% good. Peanuts 98% harvested, 96% 1997, 96% avg. Pecans 53% harvested, 59% 1997, 45% avg.; 7% poor, 72% fair, 20% good, 1% excellent. Rye 77% planted, 86% 1997, 75% avg.; 60% emerged, 72% 1997, 62% avg.; 22% poor, 50% fair, 28% good. Sorghum 97% harvested, 97% 1997. Sweet potatoes 100% harvested, 98% 1997, 77% avg. Winter grazings 89% planted, 93% 1997, 87% avg.; 70% emerged, 81% 1997, 76% avg.; 14% very poor, 24% poor, 34% fair, 28% good. Winter wheat 40% planted, 43% 1997, 37% avg.; 28% emerged, 33% 1997, 23% avg.; 12% poor, 64% fair, 24% good.

**SOUTH DAKOTA:** Days suitable for fieldwork 0.7. Topsoil moisture 54% adequate, 46% surplus. Subsoil moisture 1% short, 66% adequate, 33% surplus. Harvest was halted all over the State by a winter storm, with blizzard conditions last week. Sunflower 92% harvested, 100% 1997, 96% avg. Winter rye 1% poor, 19% fair, 59% good, 21% excellent. Winter wheat, winter rye are in good condition, with the recent snowfall serving as insulation against the cold temperatures. Livestock remain in good to excellent condition. Livestock 1% poor, 13% fair, 64% good, 22% excellent. Stock water supplies 2% short, 73% adequate, 25% surplus.

**TENNESSEE:** Days suitable for fieldwork 4.0. Topsoil moisture 10% very short, 26% short, 64% adequate. Subsoil moisture 14% very short, 29% short, 55% adequate, 2% surplus. Burley 67% stripped, 56% 1997, 62% avg. Winter wheat 91% seeded, 80% 1997, 80% avg. Winter wheat 61% emerged; 1% very poor, 7% poor, 29% fair, 51% good, 12% excellent. Beneficial rainfall throughout the State promoted growth of fall forage crops, winter wheat. Burley tobacco producers also greeted the rainfall, as the burley crop continued to come into order. By week's end stripping was approximately 5 days ahead of the 5-year average. In addition, tobacco markets started to receive tobacco and sales start November 23, stop December 17.

**TEXAS:** Open conditions returned during the week allowing some drying to occur; however, in the late week, more rain arrived. Fieldwork moved ahead slowly some areas. Colder weather reported most areas with High Plains recording first freeze of year. Supplemental feeding activity continued under wet, sloppy conditions many areas. Ranges, pastures made good growth with rains.

**Crops:** Small Grains: Wheat, oat fields responded well to rain all areas of State. Standing water caused yellowing in some fields. Still many fields for grain left to be planted, late-week rains caused further delays. Stockers moved onto fields some areas. Cotton: Harvest resumed in Plains, moved ahead until late-week showers again delayed progress. High winds, rain, isolated hail caused decline in

quality most fields. Grain Sorghum: The light freeze in High Plains helped to end growth in remaining fields, harvest should increase as fields dry. Harvest resumed part of week. Peanuts: Harvest resumed Plains, North Central but progress slow. Damage reported in recent dug fields due to freeze. Harvest slowly winding down South Central under wet conditions. Soybeans: Harvest completed some fields in Plains; however, progress slow due wet fields.

**Commercial Vegetables:** Grande Valley, many fields remained too wet for much planting activity. San Antonio-Winter Garden, activity minimal due wet fields. East, isolated heavy rains caused additional damage to sweet potato fields. Trans Pecos, wet conditions kept fieldwork to minimum. Pecans: Harvest slowly increased until late week. Quality, quantity remained low some areas.

**Range and Livestock:** Ranges, pastures continued to improve, with late-week rains; however, open conditions needed in most areas. Good runoff rain Central, Hill Country allowed stock tanks to fill up. Small grains providing grazing some High Plains fields. Livestock conditions remained good. Producers still liquidating cattle some areas.

**UTAH:** Days suitable for fieldwork 4. Topsoil moisture 86% adequate, 14% surplus. Subsoil moisture 2% short, 98% adequate. Farmers are nearing the end of harvest season.

**VIRGINIA:** No data available.

**WASHINGTON:** Days suitable for fieldwork 5.6. Topsoil moisture 4% very short, 40% short, 45% adequate, 11% surplus. Subsoil moisture 13% very short, 44% short, 42% adequate, 1% surplus. Precipitation received benefited the new wheat crop in eastern areas, many areas remained dry. Buckwheat, sugar beet harvest continued. Corn for grain 75% harvested, 63% 1997, 62% avg. Hay, other roughage supplies, 5% short, 80% adequate, 15% surplus. Heavy rain in western areas caused some flooding, delayed Christmas tree harvest. Fruit, berry harvest was completed.

**WEST VIRGINIA:** Days suitable for fieldwork 6.0. Topsoil moisture 20% very short, 50% short, 29% adequate, 1% surplus. Dry weather continues to plague some areas of the State. Many ponds, wells have dried up forcing livestock producers to carry water. Inadequate moisture supply has also lessened pasture condition. Corn and soybean harvest and winter wheat planting made good progress. Corn harvested for grain 90%, 72% 1997, 81% avg. Soybeans harvested for grain 95%, 83% 1997, 78% avg. Wheat condition 3% poor, 80% fair, 17% good. Wheat planted 92%, 78% 1997, 90% avg.; emerged 80%. Cattle 1% poor, 32% fair, 60% good, 7% excellent. Sheep 30% fair, 50% good, 20% excellent.

**WISCONSIN:** Days suitable for fieldwork 4.5. Soil moisture 1% very short, 6% short, 78% adequate, 15% surplus. State got its first taste of winter last week with some snow, strong winds. However, the snow did not remain long, as the rest of the week was unseasonably warm. Statewide, the individual districts varied from 2.8 to 6.2 days suitable for fieldwork. Last week's strong winds, which were in excess of 50 miles per hour at times, did some damage to the remaining corn crop. Comments from our reporters rated the damage from minimal to severe. Fortunately, only about 9% of the crop was still standing in the field. Our latest survey of hay and roughage supplies for the winter indicate that most have an adequate amount or a surplus. Area with the greatest shortage continues to be the northern three districts.

**WYOMING:** Wet, muddy fields continued to hamper the corn for grain harvest. Corn for grain harvest reached 45% complete, 28 points behind 1997 pace, 39 points off average. Last week's cold weather should help dry out the corn, allow farmers to begin catching up. Ranchers continued to be busy working livestock.

## International Weather and Crop Summary

November 8 - 14, 1998

### HIGHLIGHTS

**FSU-WESTERN:** Unseasonably cold weather halted winter grain growth as far south as the Black Sea Coast.

**EUROPE:** Light to moderate showers continued to delay fieldwork in northwestern Europe, while unseasonably cold weather in eastern Europe halted growth of winter grains.

**NORTHWESTERN AFRICA:** A slow start to the autumn rainy season continued to delay early winter grain planting in Morocco, Algeria, and Tunisia.

**AUSTRALIA:** Widespread, locally heavy rain returned to the east, further threatening crop quality.

**SOUTH ASIA:** Rainfall tapered off in southern rice areas, but unseasonable rain in central India may have adversely affected unharvested cotton.

**SOUTH AFRICA:** Planting of corn and other summer crops made good progress, although beneficial showers caused some local delays.

**SOUTHEAST ASIA:** Tropical Cyclone Chip brought heavy showers and flooding to southern Vietnam, slowing rice harvesting.

**EASTERN ASIA:** In the North China Plain, seasonably dry weather hampered rainfed winter wheat establishment, while adequate moisture supplies existed for irrigated winter wheat.

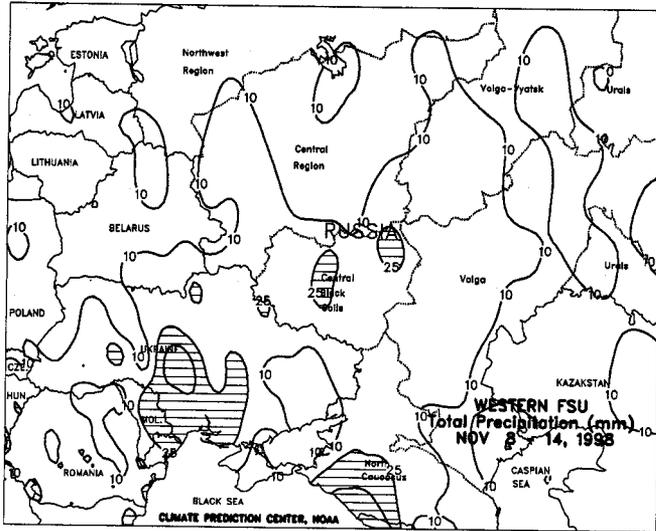
**SOUTH AMERICA:** In central Argentina, rain benefited reproductive winter wheat in the major wheat areas of southern Buenos Aires. Showers favored soybean planting across most of southern Brazil, but more rain is needed in Rio Grande do Sul.

**MEXICO:** Dry weather favored corn harvesting in Mexico's Southern Plateau corn belt and flood recovery efforts in Central America.



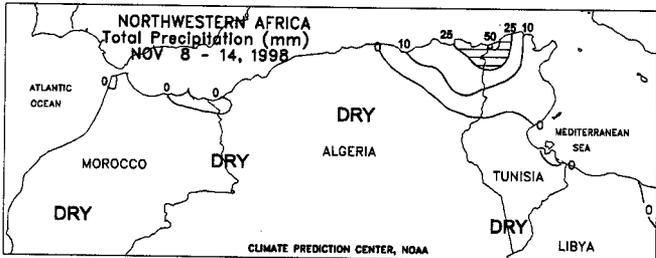
### EUROPE

Light to moderate showers (10-25 mm or more) kept soils unfavorably wet in England, France, and Germany, causing further delays in sugar beet and corn harvesting and winter wheat planting. However, the wet weather pattern in these areas has provided abundant topsoil moisture for winter grain establishment. Farther south, dry weather returned to Spain and Portugal, following last week's beneficial rains, favoring rapid winter wheat planting. Elsewhere, light showers (10-25 mm) favored newly planted winter grains in peninsular Italy but may have caused some interruptions in cotton harvesting in Greece. In eastern Europe, unseasonably cold weather (weekly temperatures averaging 2 to 4 degrees C below normal) halted further vegetative growth in winter grains. Winter grains in Poland, the Czech Republic, and Slovakia began entering dormancy at typical dates. Widespread rain (10-25 mm) accompanied the colder weather in southern Romania, Bulgaria, and Serbia, slowing corn harvesting and late-season winter wheat planting.



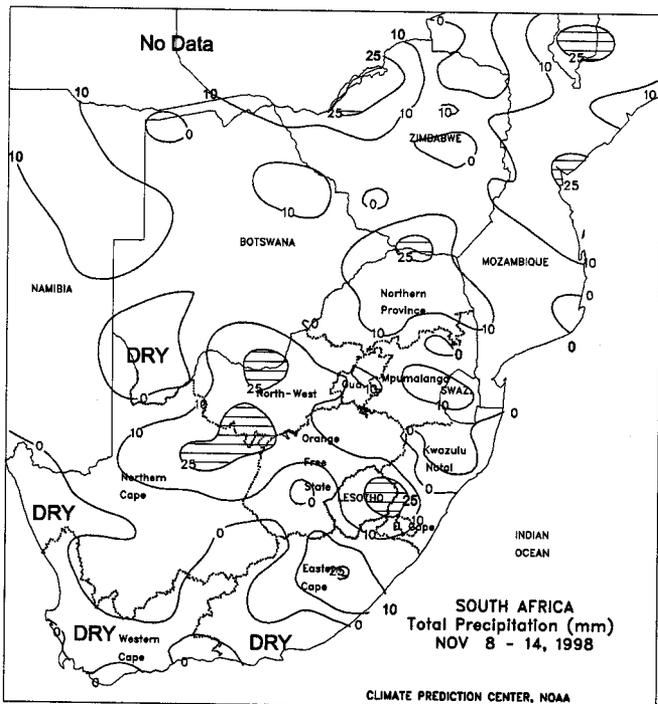
**FSU-WESTERN**

A cold front pushed southward over the region, ushering in the coldest weather of the season and halting winter grain growth as far south as the Black Sea Coast. However, the front produced beneficial precipitation (9-25 mm) in previously dry areas of eastern Ukraine and southern Russia. Widespread snow accompanied the colder weather, increasing snow cover. By week's end, a protective snow cover extended as far south as central Ukraine and the middle Volga Valley in Russia. Furthermore, moderate to heavy snow (10-32 cm) blanketed crop areas in central Ukraine, halting late-season harvest activities. Weekly temperatures averaged 3 to 6 degrees C below normal in Ukraine and southern Russia and 5 to 9 degrees C below normal in northern Russia. Extreme minimum temperatures during the week ranged from -15 to -22 degrees C across northern Russia. Extreme minimum temperatures across Ukraine and southern Russia ranged from -3 to -12 degrees C. The combination of a fall drought and recent cold have likely caused spotty emergence and limited plant establishment in major winter wheat-producing areas of eastern Ukraine and southern Russia, making crops more vulnerable to potential winterkill conditions.



**NORTHWESTERN AFRICA**

A slow start to the autumn rainy season continued to delay early winter grain planting in Morocco, Algeria, and Tunisia. Weekly temperatures averaged 2 to 4 degrees C above normal in Morocco and western Algeria and near to slightly below normal in Tunisia. Plenty of time remains for planting winter grains over the region, as the bulk of the crop is typically planted from mid-November to mid-December. Planting can extend into early January without a significant loss in yield potential.

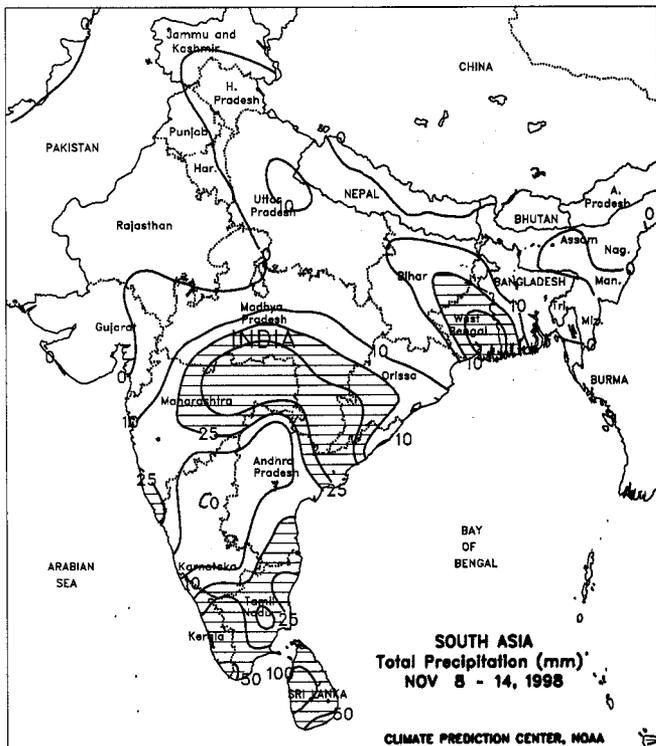


**SOUTH AFRICA**

Drier weather in the central and eastern corn belt promoted rapid planting of corn and other summer crops. Beneficial rain (10-40 mm) lingered over North West, increasing topsoil moisture reserves for crop germination and establishment. Temperatures across the corn belt averaged near to below normal, although the highs reached the lower 30 degrees C in the east and the middle 30 degrees C at the western edge of the region. Warm, dry weather covered most crop areas of the coastal provinces. In Western Cape, the drier conditions favored unharvested wheat but additional moisture was needed in sugarcane areas of KwaZulu Natal.

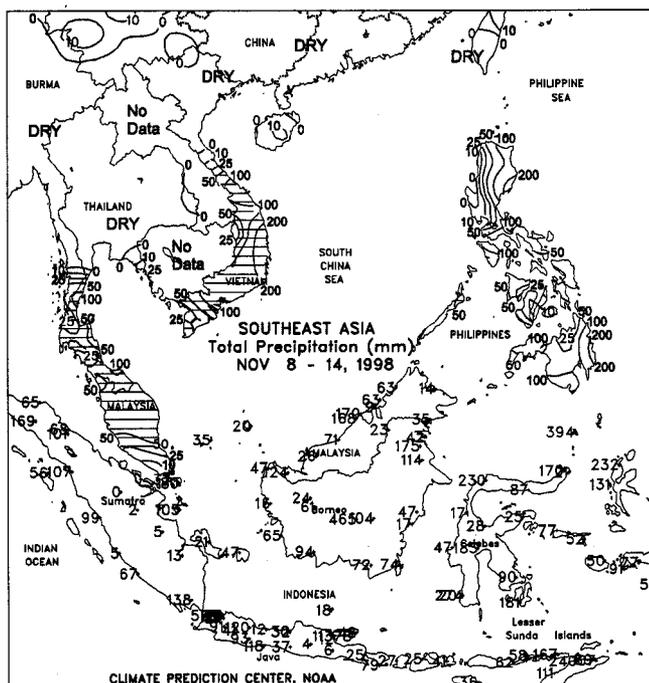
**SOUTH ASIA**

Moderate to heavy rain (25-50 mm or more) lingered over coastal rice areas of southern India. However, rainfall totals were less than last week's inundating levels, giving floodwaters a chance to recede, albeit slowly. Farther north, a swath of unseasonable rainfall (25-50 mm) across Maharashtra disrupted summer crop harvesting. The untimely moisture was unfavorable for mature cotton. Seasonably dry weather remained entrenched across the north and east, although a few isolated showers occurred over eastern India's rainfed rice areas. Conditions were favorable for unharvested summer crops, especially rice and cotton in the northwest. In addition, winter grain and oilseed planting, which typically peaks in November, likely made exceptional progress. On November 16, a tropical cyclone struck India's eastern coast with sustained winds of about 80 knots. Heavy rain and high winds likely affected unharvested rice and new seedlings.



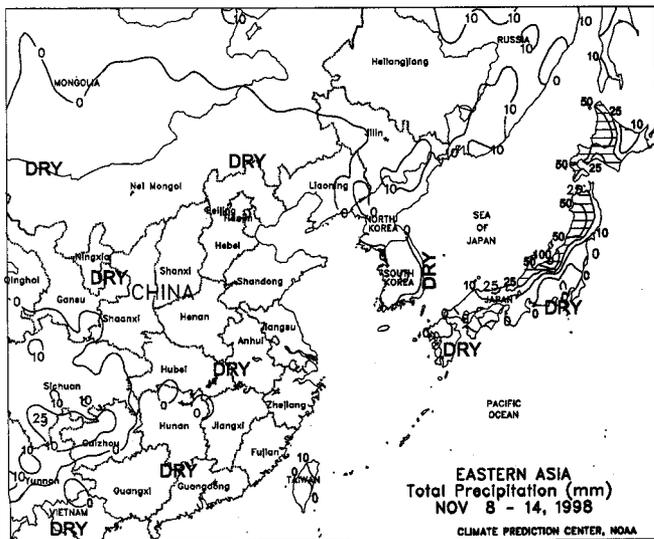
**SOUTHEAST ASIA**

Tropical Storm Chip hit the south-central coast of Vietnam on November 13, with sustained winds of 50 knots (58 mph). Chip brought heavy showers (100-300 mm) and flooding to southern Vietnam, slowing rice harvesting. In Java, unseasonably heavy showers (40-110 mm) increased moisture supplies for main-season rice, but slowed fieldwork. In the Philippines, heavy showers (50-125 mm) slowed summer grain harvesting, but increased moisture supplies for second-season crop planting. Dry weather favored rice harvesting throughout Thailand. Showers (25-75 mm) maintained moisture supplies for oil palm across peninsular Malaysia.



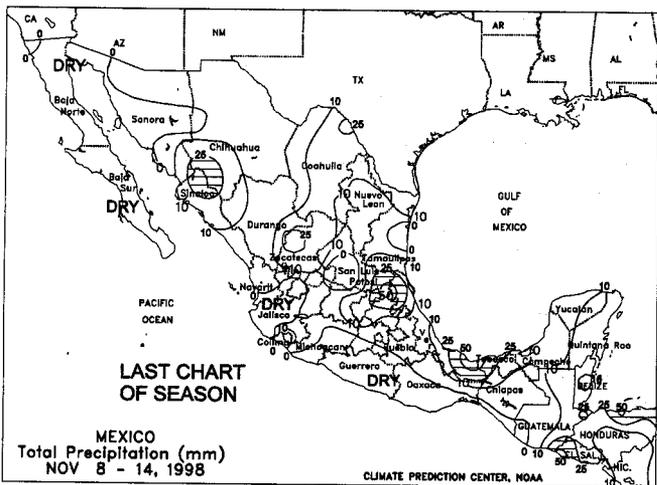
**EASTERN ASIA**

Seasonably dry weather continued to hamper rainfed winter wheat establishment across the North China Plain. Temperatures 2 to 6 degrees C above normal increased crop water use for winter grains across the region. Moisture supplies were adequate for irrigated winter wheat due to normal summer rainfall. A majority of the winter wheat in the North China Plain is irrigated. Dry, sunny weather favored filling to maturing late double-crop rice in the Yangtze Valley and southern China. Temperatures averaged 3 to 6 degrees C above normal across the region. Mostly dry weather favored summer crop harvesting across the Korean Peninsula and southern Japan. Moderate rain (30-80 mm) slowed rice harvesting across northern Japan (Hokkaido and northwestern Honshu).



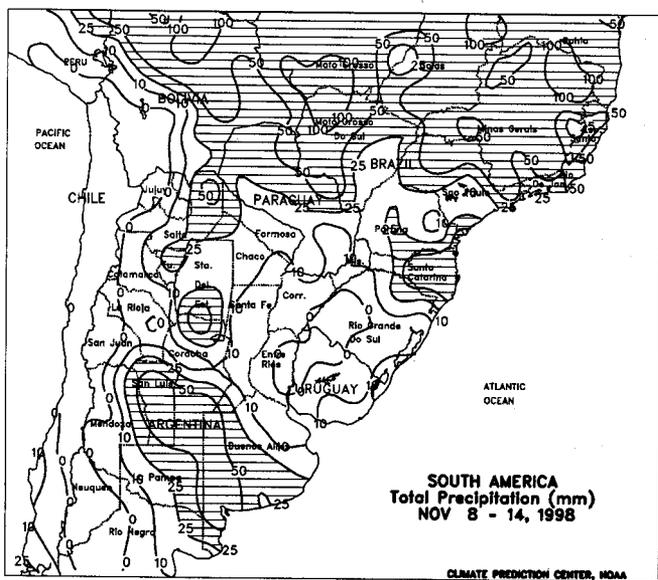
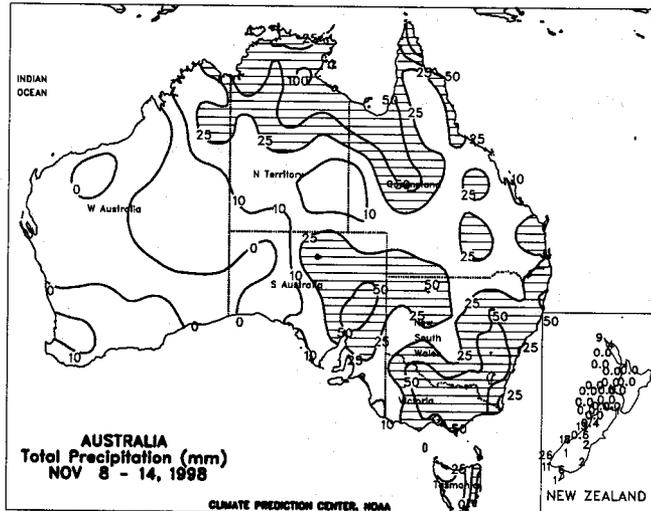
**MEXICO**

Warm, mostly dry weather continued to favor corn harvesting across the Southern Plateau corn belt. Scattered showers (10-60 mm) prevailed across portions of east-central Mexico (Tamaulipas, Hidalgo, and Queretaro), slowing summer crop harvesting. In Central America, drier weather (5-20 mm) favored flood recovery efforts. *This is the last weekly summary for Mexico until the spring of 1999. Updates on Mexican weather will be published as warranted in the highlights section. Due to the aftermath of Hurricane Mitch in Central America, updates on weather in that region will appear in the highlights section for the next few months.*



**AUSTRALIA**

Widespread, locally heavy rain (10-50 mm or more) covered most eastern crop areas. In Queensland and New South Wales, the moisture kept mature wheat and barley unfavorably wet, impeding harvests and worsening the outlook for final quality. Cotton and sorghum also needed drier weather for normal development. Farther south, some of the heaviest amounts were recorded in previously dry sections of western Victoria and South Australia. While improving pasture conditions and easing long-term moisture shortages, the rainfall in the southeast came too late to significantly improve winter grain prospects. In Western Australia, scattered, mostly light showers (15 mm or less) favored late-developing winter grains. In New Zealand, dry weather dominated the main agricultural areas.



**SOUTH AMERICA**

In central Argentina, timely rain (17-50 mm, with isolated amounts greater than 65 mm) greatly benefited reproductive winter wheat in southern Buenos Aires. This region accounts for 40 to 50 percent of Argentina's wheat production. Moderate rain (60-80 mm) also benefited filling wheat in southern Cordoba. In southern Santa Fe, however, little or no rain (less than 10 mm) stressed filling wheat and slowed summer crop planting. According to reports as of November 6, corn was 60 percent planted versus 67 percent last year, sunseed was 64 percent planted versus 59 percent last year, and soybeans were 7 percent planted versus 13 percent last year. In southern Brazil, moderate showers (25-75 mm) increased soil moisture for soybean and corn planting throughout most areas. In Rio Grande do Sul, however, mostly light rain (less than 10 mm) limited soil moisture for soybean planting.

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## Crop Progress and Condition

Week Ending November 15, 1998

Peanuts Percent Harvested				
	Nov 15 1998	Prev Week	Prev Year	5-Yr Avg
AL	95	92	100	100
FL	99	97	100	40
GA	98	94	100	99
NC	95	90	92	94
OK	87	78	96	98
SC	98	96	96	96
TX	77	71	82	73
VA	100	99	99	100
ALL	92	88	95	89

These 8 States harvested 99% of last year's peanut acreage.

Winter Wheat Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	1	33	55	11
CA	0	0	0	50	50
CO	0	1	11	54	34
GA	5	16	38	41	0
ID	0	0	7	76	17
IL	0	4	17	66	13
IN	0	2	22	60	16
KS	1	6	30	49	14
MI	1	4	33	52	10
MO	0	5	36	54	5
MT	1	5	33	60	1
NE	0	2	17	68	13
NC	0	5	45	38	12
OH	0	1	17	59	23
OK	0	4	18	70	8
OR	0	3	23	74	0
SD	0	1	9	65	25
TX	2	12	40	40	6
WA	1	18	41	37	3
ALL	1	6	26	54	13
Prev Wk	1	6	27	55	11
Prev Yr	1	3	21	64	11

(Continued from page 9)

VP - Very Poor  
P - Poor  
F - Fair  
G - Good  
EX - Excellent  
\* - Revised

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