

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

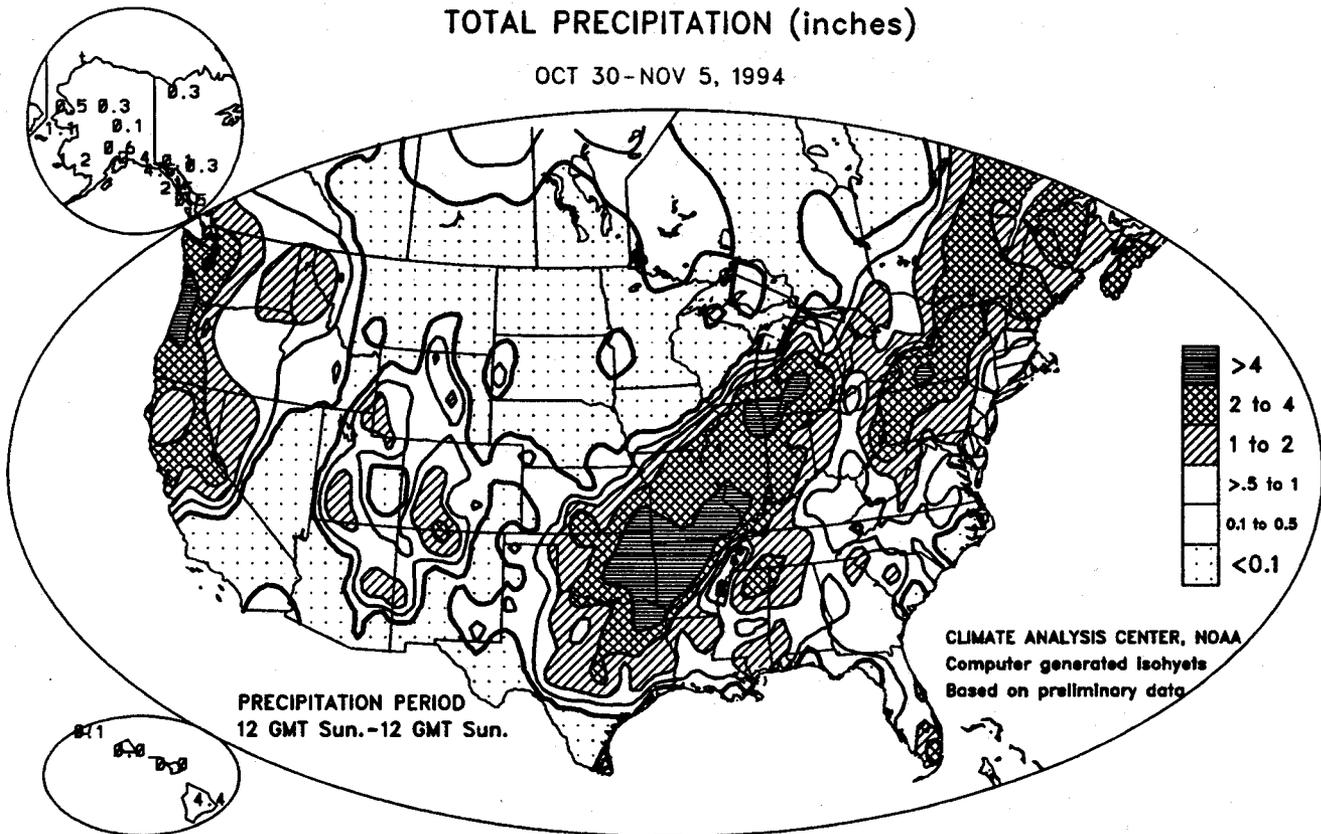
Volume 81, No. 45

Washington, D.C.

November 8, 1994

TOTAL PRECIPITATION (inches)

OCT 30 - NOV 5, 1994



HIGHLIGHTS

October 30 - November 5, 1994

A pair of vigorous Pacific-origin storm systems charted a similar course across the Nation. The systems provided additional drought relief to the Northwest and interior West, but dealt excessive rainfall to areas from northeastern Texas to the central Corn Belt. After an extremely dry October, the Northeast welcomed widespread showers. At week's end, significant Pacific storminess spread into northern California for the first time this season.

Cold air poured into the West after both storms, with a peak intensity in the wake of the latter system. On Thursday morning, lows across winter wheat areas of the Northwest included 11°F in Great Falls, MT, 18°F in Pocatello, ID, and 23°F in Spokane, WA. The temperature at Yellowstone Nat'l Park

(Continued to p. 9)

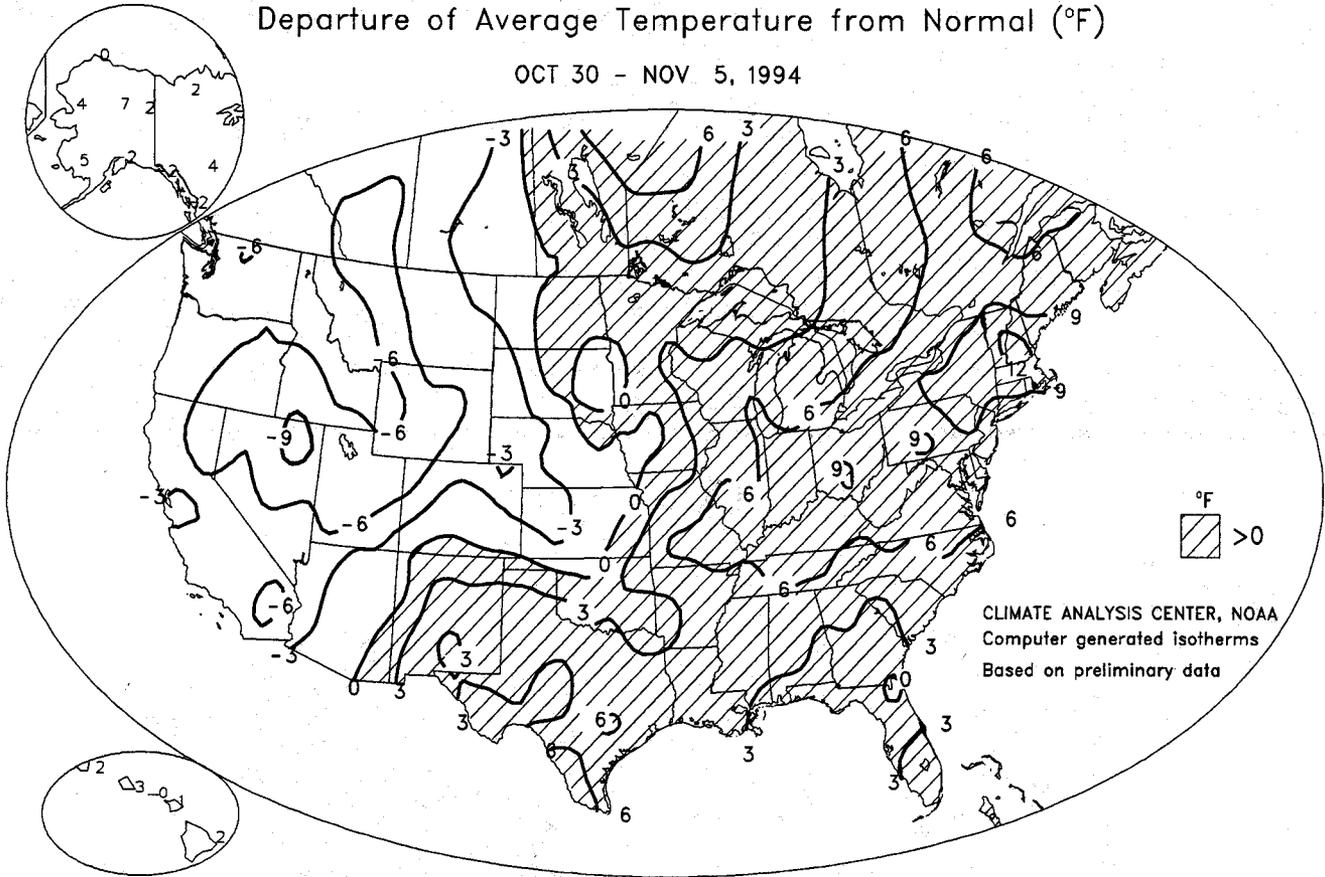
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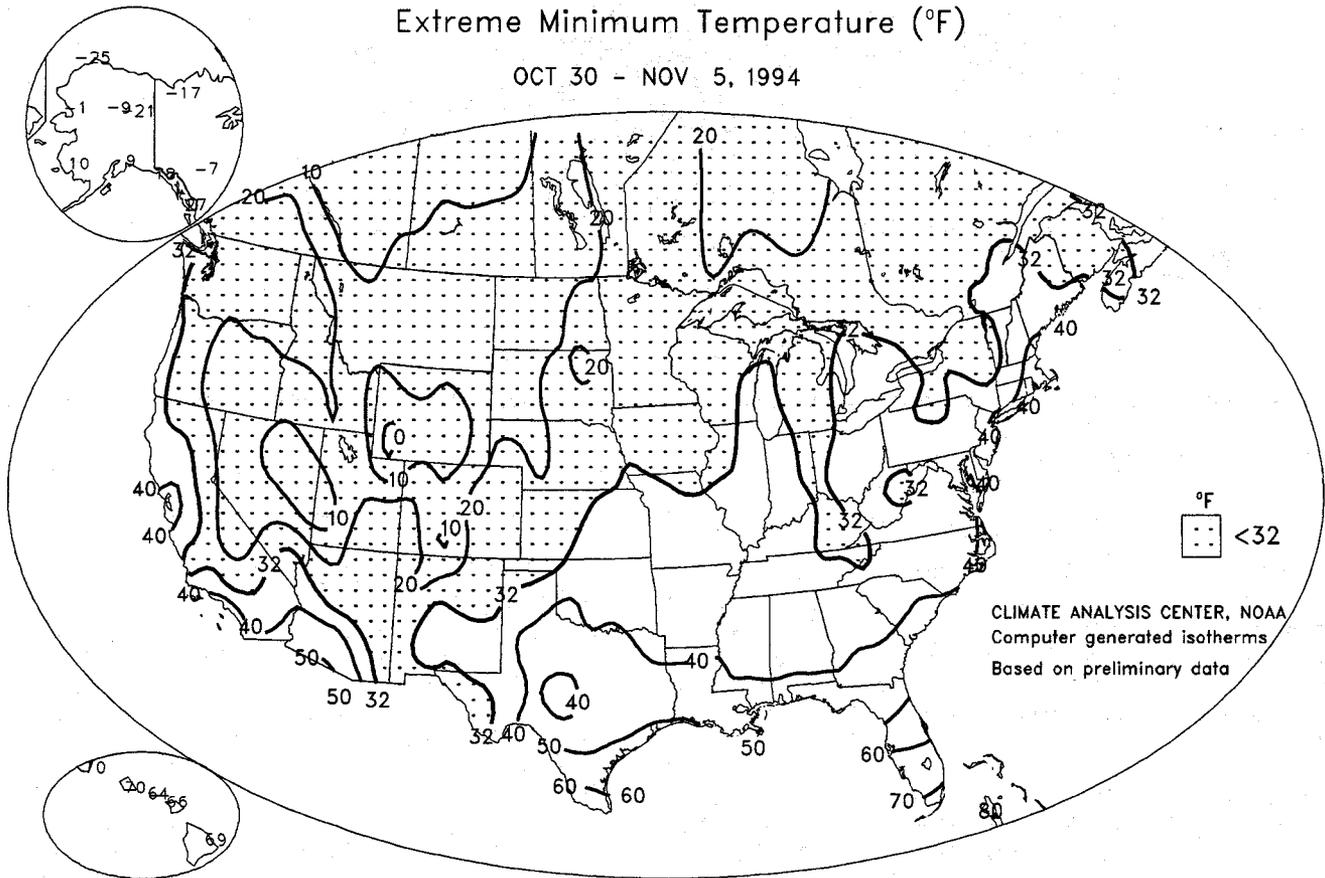
Departure of Average Temperature from Normal (°F)

OCT 30 - NOV 5, 1994



Extreme Minimum Temperature (°F)

OCT 30 - NOV 5, 1994



National Weather Data for Selected Cities

Weather Data for the Week Ending November 5, 1994

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		
AL BIRMINGHAM	73	50	78	37	62	5	.7	-.1	-.7	10.7	146	53.1	116	91	50	0	0	0	3	1	
MOBILE	76	55	82	41	65	2	.3	-.5	1.3	8.0	85	48.1	87	95	50	0	0	0	1	0	
MONTGOMERY	76	48	82	38	62	3	T	-.7	T	10.4	150	50.8	109	94	48	0	0	0	1	0	
AK ANCHORAGE	30	18	42	9	24	-2	T	-.1	1.1	3.1	63	9.3	67	92	72	0	7	3	3	0	
BARROW	10	-3	21	-25	4	-1	T	-.1	T	1.8	73	4.1	101	90	82	0	7	2	2	0	
FAIRBANKS	23	7	35	-8	15	3	1.1	-.1	T	1.5	75	7.6	81	90	77	0	7	4	4	0	
JUNEAU	39	30	42	23	35	3	1.6	-.8	1.8	15.8	121	45.2	98	98	65	0	4	4	4	2	
KODIAK	41	29	47	34	35	-2	.7	-.8	1.3	20.2	133	74.1	133	78	44	0	6	3	3	1	
ROME	31	18	35	3	24	-3	1.1	-.8	T	3.9	99	15.6	118	93	78	0	7	5	5	0	
AZ PHOENIX	75	53	84	45	64	0	T	-.1	T	2.3	142	5.1	83	64	26	0	0	0	0	0	
PRESCOTT	62	35	72	27	48	0	.1	-.2	1.1	2.3	70	11.1	67	69	25	0	3	1	1	0	
TUCSON	76	51	85	38	63	-1	.1	-.1	1.0	2.3	80	6.2	55	52	21	0	0	0	0	0	
YUMA	78	55	88	44	67	-3	.0	-.1	T	1.4	236	2.1	85	52	21	0	0	0	0	0	
AR FORT SMITH	70	48	76	35	59	3	2.9	2.0	1.2	6.2	82	45.3	131	96	66	0	0	0	0	2	
LITTLE ROCK	70	52	76	42	61	4	3.3	2.3	2.0	8.0	88	48.6	120	89	44	0	0	0	3	2	
CA BAKERSFIELD	70	42	80	33	56	-5	T	-.1	T	.2	34	4.4	98	61	20	0	0	0	1	2	
BURBA	56	41	67	33	49	-5	1.7	-.5	1.0	2.3	51	21.7	84	93	57	0	0	0	3	2	
FRESNO	69	44	76	33	56	-3	.1	-.1	T	1.1	111	7.4	93	79	21	0	0	0	1	0	
LOS ANGELES	69	53	78	37	61	-3	T	-.3	T	.1	15	6.4	72	77	39	0	0	0	0	2	
REDDING	62	42	75	47	52	-5	1.4	-.5	.8	1.7	43	16.6	71	70	32	0	0	0	3	2	
SACRAMENTO	65	43	76	38	54	-4	T	-.5	T	T	0	6.7	53	80	28	0	0	0	0	0	
SAN DIEGO	69	54	76	47	62	-3	T	-.2	T	T	1	8.2	116	74	39	0	0	0	0	0	
SAN FRANCISCO	63	47	74	44	55	-3	1.6	1.1	1.6	2.1	113	12.7	90	83	40	0	0	0	2	1	
CO DENVER	53	31	73	27	42	-2	.2	.0	1.1	2.1	87	9.5	68	91	44	0	5	2	0	0	
GRAND JUNCTION	54	32	64	24	43	-5	.2	-.1	2.2	2.3	93	5.8	65	86	28	0	3	1	0	0	
PUEBLO	57	31	74	28	44	-2	.5	-.4	1.2	2.2	141	14.9	144	92	44	0	6	4	0	0	
CT BRIDGEPORT	66	51	71	42	58	8	.1	-.7	1.1	5.6	83	34.2	98	87	58	0	0	0	3	0	
HARTFORD	69	46	76	38	58	11	.3	-.6	1.3	7.3	91	43.4	118	86	43	0	0	0	0	0	
DC WASHINGTON	73	50	77	41	61	7	.2	-.5	1.2	4.3	62	33.9	103	85	42	0	0	0	1	0	
FL PANAMA CITY	76	56	81	48	66	2	.4	-.5	1.3	12.8	131	47.6	84	96	55	0	0	0	2	0	
DAYTONA BEACH	72	61	89	51	71	2	.6	-.2	1.6	10.7	97	51.0	119	98	54	0	0	0	1	1	
JACKSONVILLE	78	54	83	44	66	-2	.6	.0	1.5	20.0	178	59.8	134	99	60	0	0	0	2	0	
KEY WEST	84	76	87	73	80	2	1.9	1.1	1.9	19.3	178	41.0	116	89	68	0	0	0	1	1	
MIAMI	85	74	87	70	79	4	4.4	3.5	4.4	23.0	166	65.7	126	87	60	0	0	0	2	1	
ORLANDO	83	63	87	56	73	2	.7	-.2	1.7	13.0	148	57.5	131	95	55	0	0	0	1	1	
TALLAHASSEE	79	51	84	40	65	2	.9	-.1	.7	22.5	248	83.7	146	95	47	0	0	0	2	1	
TAMPA	83	63	85	55	73	3	T	-.3	T	11.5	139	45.5	113	95	39	0	0	0	1	0	
WEST PALM BEACH	83	70	86	66	77	2	T	-1.2	T	13.9	88	60.0	111	92	63	0	0	0	0	0	
GA ATLANTA	74	52	79	40	63	6	.1	-.7	1.1	10.4	147	55.2	128	90	51	0	0	0	2	1	
AUGUSTA	75	47	79	35	61	2	.7	-.1	1.7	9.3	148	41.9	107	98	48	0	0	0	1	1	
MACON	75	48	80	37	62	2	.6	-.1	1.4	9.0	168	55.0	145	97	48	0	0	0	2	0	
SAVANNAH	77	55	81	44	66	3	.2	-.3	1.2	26.4	368	61.3	138	97	51	0	0	0	1	0	
HI HILO	83	72	85	69	77	2	4.4	1.4	2.3	35.8	176	143.7	137	95	71	0	0	0	4	4	
HONOLULU	88	75	89	70	82	3	.0	-.6	.0	1.8	51	13.8	88	78	58	0	0	0	0	0	
KAHULUI	87	69	92	66	78	1	T	-.5	T	1.1	57	10.6	69	79	56	3	0	0	0	0	
LIIHOE	83	75	86	70	79	3	1	-1.2	1	6.5	85	26.8	81	80	65	0	0	0	1	0	
ID BOISE	50	28	63	14	39	-6	.3	.0	1.2	6.9	6.2	65	82	34	0	4	3	0	0	0	
LEWISTON	46	35	55	32	41	-5	.1	-.1	1.1	1.5	77	7.8	75	85	50	0	2	1	0	0	
POCATELLO	46	25	62	17	36	-6	T	-.2	T	1.7	89	6.8	68	86	36	0	5	0	0	0	
IL CHICAGO	61	43	68	36	52	6	3.9	3.3	2.3	5.9	88	26.2	85	91	58	0	0	0	5	2	
MOLINE	58	43	73	30	51	5	3.4	2.8	1.3	5.3	72	27.9	80	94	59	0	2	5	3	2	
PEORIA	59	44	71	30	52	4	3.3	2.7	1.7	6.0	86	21.0	67	88	67	0	1	4	4	3	
QUINCY	61	45	74	31	53	4	1.8	1.1	.8	3.7	44	17.9	51	82	56	0	1	4	2	2	
ROCKFORD	58	41	67	31	49	5	2.1	1.5	.9	8.6	120	32.4	101	95	63	0	1	5	2	2	
SPRINGFIELD	64	48	74	34	56	7	2.4	1.9	1.4	4.7	74	31.4	103	92	58	0	0	4	2	2	
IN EVANSVILLE	70	46	76	36	58	5	3.7	2.9	1.9	8.7	129	31.1	81	92	49	0	0	0	3	2	
FORT WAYNE	62	46	73	31	54	8	1.5	.9	.7	3.8	67	25.2	86	93	66	0	1	5	1	1	
INDIANAPOLIS	66	46	73	32	56	8	1.6	.9	.8	4.5	75	28.0	83	88	53	0	1	4	2	2	
SOUTH BEND	60	45	71	32	52	6	3.8	3.1	1.7	10.5	145	33.2	100	94	61	0	1	6	2	2	
IA DES MOINES	54	37	64	28	46	1	.1	-.4	1.1	4.2	61	24.2	77	88	52	0	3	2	0	0	
SIOUX CITY	55	32	60	24	44	0	T	-.3	T	6.7	132	23.0	95	86	47	0	4	2	0	0	
WATERLOO	55	37	64	23	46	3	T	-.5	T	5.6	87	31.7	102	89	51	0	2	1	0	0	
KS CONCORDIA	55	39	68	35	47	-1	.3	-.1	1.3	2.4	45	15.6	58	92	54	0	0	0	3	0	
DODGE CITY	58	35	74	25	46	-3	.3	-.1	1.3	2.6	78	16.3	81	92	49	0	2	1	0	0	
GOODLAND	53	29	70	22	41	-3	.1	-.1	1.1	2.2	85	13.5	79	94	47	0	5	3	0	0	
TOPEKA	58	41	68	32	50	0	1.1	.6	1.4	3.1	43	22.4	70	93	56	0	1	3	0	0	
WICHITA	59	44	66	40	52	0	1.2	.6	1.7	4.7	65	20.3	65	97	64	0	0	0	3	1	
KY BOWLING GREEN	70	48	76	31	59	7	.3	-.6	1.3	3.6	48	45.6	108	88	53	0	1	1	0	0	
LEXINGTON	68	46	75	32	57	6	.5	-.2	1.3	3.6	57	39.2	104	78	52	0	1	2	0	0	
LOUISVILLE	69	47	75	34	58	6	.6	-.2	1.5	5.4	84	29.4	78	85	48	0	0	0	3	1	
LA BATON ROUGE	77	56	83	43	67	3	.5	-.3	1.5	9.7	108	55.5	107	100	66	0	0	0	1	0	
LAKE CHARLES	81	58	86	49	70	6	.4	-.5	1.4	7.0	68	36.0	78	95	58	0	0	0	1	0	
NEW ORLEANS	78	57	86	43	68	3	.2	-.6	1.2	8.1	88	46.1	88	95	49	0	0	0	1	0	
SHREVEPORT	78	54	85	41	66	7	.7	-.2	1.7	10.0	120	44.8	109	94	52	0	0	0	1	1	

Based on 1961-90 normals.

Weather Data for the Week Ending November 5, 1994

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
													90 AND ABOVE				32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	53	37	62	29	45	8	2.0	1.3	1.0	6.1	85	33.7	111	85	55	0	1	6	2
PORTLAND	64	43	71	36	53	10	.8	.3	.5	8.1	103	35.0	99	88	50	0	0	3	0
MD BALTIMORE	72	45	79	38	59	7	.3	.5	.3	6.0	86	39.6	115	88	47	0	0	0	0
SALLISBURY	73	45	77	35	59	7	.7	.0	.4	5.3	70	35.1	90	92	52	0	0	2	0
MA BOSTON	71	52	79	45	61	11	.2	.7	.2	5.2	73	38.1	112	75	44	0	0	0	0
CHATHAM	62	53	64	46	58	9	T	.9	T	2.5	30	35.2	95	87	66	0	0	2	0
MI ALPENA	52	39	59	28	45	4	.9	.4	.5	3.9	70	27.4	110	92	61	0	2	3	0
DETROIT	59	46	66	30	53	7	1.5	1.0	.6	4.8	88	26.9	98	89	63	0	1	5	2
FLINT	58	43	65	29	50	6	2.9	2.3	1.0	7.4	119	30.3	117	92	64	0	1	5	3
GRAND RAPIDS	59	40	65	29	49	6	4.1	3.4	1.7	8.5	112	42.8	141	94	62	0	3	5	3
HOOHGTON LAKE	54	41	61	28	47	7	.8	.3	.6	3.3	56	25.0	102	88	61	0	1	4	1
LANSING	57	41	64	27	49	6	3.3	2.7	1.1	7.9	112	32.2	118	100	66	0	3	4	3
MARQUETTE	46	31	55	25	39	2	.4	.3	.3	5.0	61	22.1	73	87	55	0	4	2	0
MUSKEGON	58	39	62	29	48	4	2.9	2.2	1.2	6.9	96	30.0	111	97	62	0	3	5	2
SAULT ST. MARIE	48	34	56	24	41	1	T	.8	T	3.7	49	24.5	86	86	44	0	3	1	0
MN ALEXANDRIA	46	30	55	25	38	0	T	.4	T	6.0	115	18.0	75	88	49	0	5	0	0
DULUTH	45	31	52	25	38	2	T	.5	T	7.9	119	27.7	102	79	50	0	5	2	0
INT'L FALLS	43	25	49	20	34	0	.4	.0	.3	6.0	112	21.8	96	89	54	0	7	3	0
MINNEAPOLIS	52	35	59	29	44	3	T	.4	T	9.4	180	27.7	107	81	42	0	4	0	0
ROCHESTER	51	34	59	23	43	3	T	.4	T	5.2	86	28.9	106	90	55	0	3	1	0
MS GREENWOOD	75	53	84	39	64	5	2.8	1.8	2.8	10.0	129	42.7	96	94	52	0	0	2	1
JACKSON	74	53	81	40	63	5	.3	.6	.3	7.2	104	50.6	113	93	61	0	0	1	0
MERIDIAN	75	53	82	37	64	5	.8	.1	.8	7.8	109	56.5	121	96	48	0	0	1	1
MO CAPE GIRARDEAU	69	48	73	37	59	6	3.9	3.1	2.5	10.3	143	39.3	102	94	51	0	0	3	2
COLUMBIA	63	46	76	33	55	5	3.2	2.5	1.3	7.0	90	33.8	101	94	72	0	0	5	3
KANSAS CITY	57	42	68	35	50	0	1.0	.5	.4	4.3	51	23.8	69	96	67	0	0	4	0
SAINT LOUIS	68	51	78	38	59	7	2.5	1.8	1.1	6.0	95	30.2	95	89	48	0	0	1	1
SPRINGFIELD	68	48	78	36	58	7	5.6	4.7	2.3	11.9	131	45.7	121	89	58	0	0	5	3
MT BILLINGS	47	29	61	24	38	-3	.1	.1	.1	3.5	132	12.4	91	73	34	0	5	1	2
GLASGOW	42	23	48	16	33	-4	.2	.1	.1	2.1	126	9.6	93	83	51	0	7	0	0
GREAT FALLS	42	21	49	11	31	-9	T	.1	T	1.5	71	9.3	67	85	40	0	7	1	0
HAVRE	42	23	49	15	32	-5	.1	.0	.1	1.1	60	6.8	66	87	50	0	7	2	0
HELENA	45	23	56	13	34	-4	.1	.1	.0	1.3	69	6.9	65	83	45	0	6	2	0
KALISPELL	36	24	42	18	30	-6	1.4	1.1	.9	3.1	134	10.2	75	95	73	0	7	4	0
MILES CITY	45	28	53	19	37	-3	T	.2	T	3.0	133	9.3	71	92	41	0	4	1	0
MISSOULA	41	26	47	21	34	-4	.4	.3	.2	1.9	94	10.7	92	92	57	0	5	0	0
NH GRAND ISLAND	55	32	67	23	43	-1	.1	.2	.1	3.2	74	20.5	88	88	47	0	2	2	0
LINCOLN	55	33	64	28	44	-2	.2	.2	.2	1.9	32	17.8	68	88	47	0	0	0	0
NORFOLK	56	33	62	22	44	1	T	.3	T	3.7	87	26.5	112	87	41	0	4	1	0
NORTH PLATTE	54	29	74	20	41	0	.2	.1	.1	3.5	129	17.7	97	91	39	0	2	1	0
OMAHA	56	35	65	31	45	0	.2	.3	.2	6.5	103	27.4	99	89	55	0	4	2	0
SCOTTSBLUFF	52	28	72	21	40	-2	.1	.1	.1	3.5	174	14.5	102	89	34	0	5	1	0
VALENTINE	53	28	70	20	41	-3	T	.2	T	1.2	31	16.9	80	77	33	0	5	1	0
NV RLY	47	18	62	3	33	-7	T	.2	T	1.5	71	7.5	84	92	35	0	7	1	0
LAS VEGAS	68	46	81	40	57	-4	T	.1	T	.4	65	1.2	36	60	16	0	0	0	0
RENO	55	33	73	26	44	-1	.2	.0	.1	.5	62	3.7	64	87	26	0	5	2	0
WINNEMCCA	49	24	65	11	37	-6	1.0	.8	.8	1.7	146	6.4	98	89	36	0	5	2	1
NH CONCORD	67	43	75	36	55	13	.4	.5	.4	4.8	73	29.7	98	87	42	0	0	1	0
NJ ATLANTIC CITY	70	45	76	38	57	7	.5	.3	.4	5.0	79	37.6	111	89	50	0	0	2	0
NM ALBUQUERQUE	65	42	72	34	53	3	T	.1	T	2.8	141	9.2	115	67	22	0	0	1	0
CLOVIS	72	43	82	31	57	5	T	.2	T	1.1	31	9.7	59	75	30	0	1	1	0
ROSWELL	72	46	85	35	59	3	.2	.0	.2	1.9	60	7.4	63	70	32	0	0	1	0
NY ALBANY	66	46	76	31	56	11	.4	.3	.3	3.3	52	31.0	101	83	50	0	1	2	0
BINGHAMTON	61	44	72	34	53	9	1.2	.5	1.0	4.5	66	37.5	120	83	54	0	0	3	1
BUFFALO	59	46	68	37	53	8	2.6	1.8	1.7	7.3	101	32.2	102	90	59	0	0	4	1
NEW YORK	69	51	73	46	60	8	.9	.1	.9	5.0	72	38.1	107	81	45	0	0	3	1
ROCHESTER	63	48	73	33	56	10	2.8	2.1	1.6	5.8	98	25.8	96	89	51	0	0	4	2
SYRACUSE	64	45	75	34	55	9	2.8	2.0	1.3	6.0	78	35.0	107	90	55	0	0	4	2
NC ASHEVILLE	70	44	77	32	57	6	.2	.8	.2	9.8	101	51.5	107	91	41	0	1	2	0
CHARLOTTE	73	50	77	40	62	5	.1	.7	.1	4.6	62	32.4	88	86	42	0	0	1	0
GREENSBORO	71	46	76	38	59	5	.2	.5	.2	2.8	37	31.4	85	88	45	0	0	2	0
HATTERAS	74	57	79	44	65	5	.2	.9	.2	19.4	174	58.5	123	90	38	0	0	2	0
NEW BERN	77	50	81	38	64	5	T	.7	T	6.1	70	32.3	67	96	43	0	0	0	0
RALEIGH	74	48	78	38	61	6	.1	.5	.1	6.7	103	33.9	95	89	28	0	0	1	0
WILMINGTON	77	51	83	39	64	5	.2	.5	.1	15.7	148	51.3	102	98	46	0	0	2	0
ND BISMARCK	50	26	58	17	38	1	T	.1	T	8.4	338	17.2	118	85	44	0	6	0	0
FARGO	48	29	55	22	38	2	T	.3	T	5.2	135	22.0	120	81	45	0	5	0	0
GRAND FORKS	46	27	53	23	37	2	T	.2	T	4.6	126	21.0	122	84	46	0	7	1	0
WILLISTON	45	22	50	18	33	-2	T	.1	T	2.5	112	14.7	115	83	48	0	7	1	0
OH AKRON-CANTON	61	45	71	34	53	6	1.2	.6	.8	3.8	62	35.4	113	82	48	0	0	3	1
CINCINNATI	66	46	73	31	56	7	.4	.3	.2	2.3	37	32.8	93	83	44	0	1	3	0
CLEVELAND	62	48	71	34	55	7	.8	.1	.4	3.5	54	24.7	80	87	57	0	0	4	0
COLUMBUS	66	44	72	33	55	9	.7	.1	.3	3.1	51	26.9	84	83	47	0	0	3	0
DAYTON	65	46	71	32	56	8	.9	.3	.4	2.7	49	29.2	94	86	55	0	1	4	0

Based on 1961-90 normals.

Weather Data for the Week Ending November 5, 1994

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	MINIMUM	90 AND ABOVE		32 AND BELOW
															90 AND ABOVE			32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OH TOLEDO	61	47	68	32	54	9	1.2	.7	.5	2.7	51	24.3	88	93	62	0	0	1	4	0
OH YOUNGSTOWN	60	45	69	38	53	7	1.0	.3	.5	5.7	87	33.0	104	87	58	0	0	0	3	3
OK OKLAHOMA CITY	69	46	83	36	58	3	2.5	2.0	1.3	6.3	84	23.0	76	91	58	0	0	0	0	1
OR TULSA	69	50	79	41	59	4	4.9	4.2	2.5	12.1	135	45.8	128	91	61	0	0	0	0	0
OR ASTORIA	51	37	57	30	44	-6	4.4	2.5	2.9	13.6	135	49.7	105	97	57	0	0	2	7	6
OR BURNS	44	21	62	9	32	-6	.5	.3	.5	1.0	58	3.9	51	89	47	0	0	0	2	2
OR MEDFORD	54	36	64	28	45	-4	1.6	1.0	.9	10.5	105	8.0	63	98	53	0	0	2	2	4
OR PENDLETON	50	35	66	31	42	-4	1.5	1.2	.5	10.8	148	10.3	99	93	43	0	0	2	2	6
OR PORTLAND	51	38	56	32	45	-5	3.9	2.9	2.5	10.8	210	25.4	99	93	42	0	0	1	0	4
OR SALEM	51	37	56	33	44	-4	3.1	2.5	1.1	11.3	210	27.4	101	93	42	0	0	0	0	5
PA ALLENTOWN	70	44	79	35	57	9	1.2	.6	.2	4.0	54	41.5	113	88	44	0	0	0	0	5
PA BRIS	62	49	70	41	56	8	1.5	.6	.2	7.0	80	35.5	103	86	54	0	0	0	0	1
PA HARRISBURG	69	44	78	36	57	9	1.4	.7	1.4	4.6	65	40.1	116	85	46	0	0	0	0	4
PA PHILADELPHIA	71	47	75	40	59	8	1.3	.6	.3	2.9	36	40.1	103	86	50	0	0	0	0	2
PA PITTSBURGH	65	45	73	37	55	8	1.3	.7	1.0	5.5	96	36.8	117	76	45	0	0	0	0	1
PA SCRANTON	69	46	78	36	57	11	1.4	.7	1.2	7.3	110	36.7	118	76	43	0	0	0	0	3
RI PROVIDENCE	69	49	76	44	59	11	1.2	.8	.2	4.7	60	35.0	94	90	43	0	0	0	0	2
SC CHARLESTON	78	54	83	43	66	4	7	.5	7	20.2	251	61.1	132	93	47	0	0	0	0	1
SC COLUMBIA	76	48	79	36	62	4	1.4	.7	1.0	8.2	115	43.3	99	95	41	0	0	0	0	3
SC FLORENCE	78	50	82	39	64	5	4	.2	.4	7.2	112	36.1	94	95	43	0	0	0	0	1
SC GREENVILLE	72	46	75	33	59	4	5	.4	.4	6.3	74	45.0	102	89	44	0	0	0	0	0
SD ABERDEEN	49	26	57	18	37	-1	7	.2	7	5.0	141	19.6	98	89	45	0	0	6	0	0
SD HURON	50	28	59	19	39	-1	7	.2	7	4.0	118	19.6	103	85	43	0	0	0	0	0
SD RAPID CITY	50	25	74	14	38	-4	.3	.1	.2	3.4	137	9.8	62	83	43	0	0	5	2	0
SD SIOUX FALLS	53	29	62	22	41	0	7	.3	7	4.7	94	21.5	97	91	46	0	0	5	0	0
TN CHATTANOOGA	72	45	76	34	58	4	4	.5	.4	8.4	104	66.5	150	96	44	0	0	0	0	0
TN KNOXVILLE	72	43	78	34	57	5	1	.6	.1	3.7	57	58.5	148	93	43	0	0	0	0	0
TN MEMPHIS	72	51	80	39	62	5	1.0	.0	.9	5.2	71	40.0	95	88	48	0	0	0	2	1
TN NASHVILLE	72	49	77	35	61	6	1.8	.0	.6	8.2	122	54.1	138	81	47	0	0	0	0	3
TX ABILENE	73	52	82	43	62	2	1.2	.8	1.2	8.1	134	25.2	113	92	56	0	0	0	1	1
TX AMARILLO	70	42	85	33	56	5	4	.2	.4	2.9	83	16.9	91	82	32	0	0	0	0	0
TX AUSTIN	80	59	85	46	69	4	1.4	.7	1.2	14.9	207	35.0	125	94	52	0	0	0	2	1
TX BEAUMONT	80	59	85	49	69	5	1.2	.8	.2	18.2	160	63.1	131	98	59	0	0	0	1	0
TX BROWNSVILLE	84	70	87	62	77	5	1.3	.9	1.1	8.9	98	22.0	91	96	59	0	0	0	2	1
TX CORPUS CHRISTI	83	66	86	56	74	5	1	.4	.1	14.2	160	30.8	112	94	51	0	0	0	1	0
TX DEL RIO	80	57	87	46	68	4	1	.4	.1	3.0	50	18.3	81	92	49	0	0	0	2	0
TX EL PASO	73	49	79	32	61	4	2	.0	.1	.5	21	3.5	44	67	25	0	0	1	2	0
TX FORT WORTH	75	54	83	42	65	5	2.7	2.0	1.8	12.3	133	37.7	113	94	58	0	0	0	4	1
TX GALVESTON	79	68	83	55	73	5	1	.6	.1	6.4	69	22.8	64	90	61	0	0	0	1	0
TX HOUSTON	81	59	86	46	70	6	1.0	.1	1.0	12.7	116	37.6	84	96	57	0	0	0	3	1
TX LUBBOCK	73	48	85	41	61	6	6	.3	.6	2.3	50	12.9	73	95	36	0	0	0	1	1
TX MIDLAND	78	46	84	39	62	4	2	.1	.2	1.1	23	8.7	61	93	31	0	0	0	1	0
TX SAN ANGELO	75	51	84	39	63	3	3	.0	.3	7.6	126	16.6	88	92	54	0	0	0	1	0
TX SAN ANTONIO	82	60	86	44	71	6	4	.3	.4	15.4	217	36.6	134	92	50	0	0	0	1	0
TX VICTORIA	82	62	86	50	72	6	2	.7	.2	13.5	119	38.5	98	94	50	0	0	0	1	0
TX WACO	77	56	86	40	66	4	1.7	1.0	1.2	6.9	93	26.6	95	94	59	0	0	0	3	1
TX WICHITA FALLS	73	51	86	41	62	4	1.0	.5	.8	5.7	74	12.2	42	91	57	0	0	0	2	1
UT CEDAR CITY	51	24	67	5	38	-7	.9	.6	.6	3.2	150	7.9	79	84	33	0	0	6	2	1
UT SALT LAKE CITY	47	30	62	22	39	-8	.3	.0	.3	2.9	97	11.2	81	91	42	0	0	5	3	0
VT BURLINGTON	61	44	67	30	52	10	1.9	1.2	.9	4.3	63	32.0	109	86	54	0	0	1	5	2
VA NORFOLK	76	52	81	40	64	8	1	.6	.1	4.5	60	46.0	118	84	42	0	0	0	1	0
VA RICHMOND	73	46	79	36	60	6	.7	.1	.4	6.8	92	39.1	105	89	23	0	0	0	2	0
VA ROANOKE	71	44	80	36	58	6	4	.4	.2	2.8	35	38.9	110	84	42	0	0	0	2	0
WA QUILLAYUTE	50	36	56	32	43	-4	3.6	.5	1.6	15.4	87	71.3	92	99	52	0	0	1	5	3
WA SEATTLE-TACOMA	49	39	55	33	44	-4	1.6	.5	.8	5.9	98	21.6	82	90	46	0	0	0	4	1
WA SPOKANE	40	29	50	23	35	-6	1.0	.6	.5	3.7	186	10.0	81	94	61	0	0	6	4	1
WA YAKIMA	50	28	61	20	39	-4	7	.1	7	.5	51	4.8	84	93	44	0	0	5	1	0
WV BECKLEY	68	46	77	35	57	10	.3	.4	.3	3.0	44	44.1	125	73	35	0	0	0	1	0
WV CHARLESTON	73	43	80	32	58	7	6	.2	.5	3.6	54	45.4	126	90	40	0	0	1	2	1
WV HUNTINGTON	71	44	79	33	58	9	2	.6	.2	3.6	53	40.8	111	77	38	0	0	0	3	0
WV PARKERSBURG	68	45	76	33	57	8	6	.0	.6	3.3	54	42.7	121	82	44	0	0	0	1	1
WI GREEN BAY	53	39	61	32	46	5	2	.3	.2	3.4	56	26.2	103	94	64	0	0	1	3	0
WI LACROSSE	56	41	64	30	48	6	7	.4	.6	8.5	135	32.4	116	86	48	0	0	1	0	0
WI MADISON	56	39	62	29	47	4	7	.2	.6	7.5	115	30.4	106	91	58	0	0	2	3	1
WI MILWAUKEE	58	44	65	39	51	7	1.9	1.4	1.2	4.2	67	24.6	86	88	59	0	0	0	5	1
WI WAUSAU	51	37	59	29	44	4	7	.5	7	5.2	70	19.8	67	82	49	0	0	2	1	1
WY CASPER	43	21	66	4	32	-7	1.2	1.0	.9	6.1	296	12.7	114	91	51	0	0	6	2	0
WY CHEYENNE	47	26	67	15	37	-4	1	.0	.1	2.1	99	12.8	94	87	41	0	0	6	2	0
WY LANDER	44	21	62	8	32	-6	5	.3	.4	5.9	246	11.1	94	78	40	0	0	7	2	0
WY SERRIDAN	45	24	66	8	35	-4	2	.0	.2	4.5	166	14.4	109	86	25	0	0	6	3	0
PR SAN JUAN	88	76	89	75	82	1	1.0	.4	.7	9.7	81	30.5	72	86	63	0	0	0	5	1

Based on 1961-90 normals.

October Weather and Crop Summary

Weather

A pair of active jet streams kept stormy weather in place across the Northwest and the Southeast, resulting in drought relief and flooding problems, respectively. In the interior West, precipitation associated with the polar front jet (PFJ) was particularly helpful in easing drought from the central Rockies to the northern High Plains, and from the Cascades westward. Dryness adversely affected winter wheat planting and emergence in the Northwest until widespread precipitation arrived towards month's end. Areas from California southward remained between jet streams, and thus drier than normal, during the month. Similarly, the Northeast was affected neither by the PFJ, which steered storms northeastward into central Canada, nor by the sub-tropical jet (STJ), which spent its energy on the Gulf Coast and southern Atlantic States. Southeastern Texas endured severe flooding just after mid-month, while northeastern Texas and the coastal Southeast experienced sporadic flooding of a lesser degree.

With jet-stream energy surging into the Northwest and buckling southeastward, cool weather prevailed west of the Rockies, with monthly temperatures up to 4°F below normal. In the Northeast, frequent doses of high pressure provided mild days and fair, cold nights. Between the Rockies and the Appalachians, there was an unseasonable absence of cold air, with temperatures up to 5°F above normal in the upper Midwest. The southern two-thirds of the Corn Belt escaped a freeze until October 24 or later, and a record-late first freeze was noted in parts of Minnesota and North Dakota.

Record-high October precipitation was measured in parts of several States, including Oregon, Wyoming, Texas, and Georgia. Record totals included 8.41 inches in Portland, OR (including a 24-hour, all-time record of 4.44 inches on October 26-27), 4.90 inches in Lander, WY, 4.17 inches in Casper, WY (including 14.7 inches of snow), 14.08 inches in Longview, TX, 13.11 inches in Center, TX, 12.43 inches in Nacogdoches, TX, and 19.84 inches in Savannah, GA (more than 90 percent of which fell by October 12). During southeastern Texas' flooding rains of October 16-18, as much as 18.50 inches fell in 24 hours just north of Houston, TX. In contrast, less than a half-inch of rain fell in parts of the Northeast, including Providence, RI (0.40 inches), Boston, MA (0.41 inches), and Elkins, WV (0.43 inches). The clear, dry weather resulted in large diurnal temperatures ranges. For example, the monthly average high in Williamsport, PA was 64°F, 2°F above normal, while the average low was 38°F, 4°F below normal.

Fieldwork

Warm weather and a late killing freeze in the central United States extended the growing season for the row crops, and helped producers realize record yields. Starting in early October, harvest and fieldwork were delayed by storm systems that generated heavy showers across the southern Great Plains. The harvest progress for soybeans and cotton started the month ahead of normal, at close to one-quarter complete. Dry soil conditions in the Pacific Northwest slowed the seeding of small grains. In Washington State, producers stopped waiting for rain and planted winter wheat with the hopes that precipitation would arrive soon. Warm weather in the central Great Plains spurred sorghum development, while farmers in the Midwest shifted their effort from the corn harvest to soybeans. Later in

the month, heavy rains in Georgia delayed harvest activity, where wet weather brought the threat of boll rot to the cotton crop. Showers in the Pacific Northwest reduced drought stress for small grains but some producers continued to wait for more substantial rain before planting. A killing frost and freezing temperatures dried down the corn crop in the northern Corn Belt, where producers approached the half-way mark for the soybean harvest.

By mid-month, warm, dry weather provided ideal harvest conditions across the Midwest, where record yields and the fast pace of harvest activity created grain storage shortages. Heavy rains and flooding in the lower Mississippi Valley slowed harvesting and winter wheat planting activity and raised concern for the cotton quality. Later in the month, autumn weather finished drying down the row crops and encouraged fieldwork and harvest activity in the Midwest. Farmers took advantage of a late freeze in the Great Lakes region, where combines were running from dawn to dusk. By month's end, dry soil conditions in the central Great Plains raised concern for some emerged wheat fields. Rain in the Northwestern States enhanced winter wheat germination prospects. Cotton producers in the Southeastern States started to make good harvest progress, but finished the month behind the average.

Winter wheat planting in early October was half completed and equal to the average. Wheat planting stayed on schedule throughout the month, while wheat emerged finished the month slightly ahead of average with good stands reported in the central Great Plains.

Corn condition started October with 86% of the corn crop rated good to excellent, and improved slightly by mid-month due to a mild weather followed by a late killing frost. Corn mature at the start of October was ahead of the average. At the start of October, corn harvest was 1 point behind the average but moved to finish the month 6 points ahead of the average.

Cotton opening bolls at the beginning of October was 9 points ahead of the average and was finished by mid-month. Wet, cool weather in early and mid-October stalled cotton development, and threatened the quality of the crop. Cotton condition started the month slightly below September's level, and declined slightly due to the wet weather in the Southeast. At the beginning of the month, cotton harvested was 9 points ahead of the average, and stayed ahead of the average despite the adverse weather.

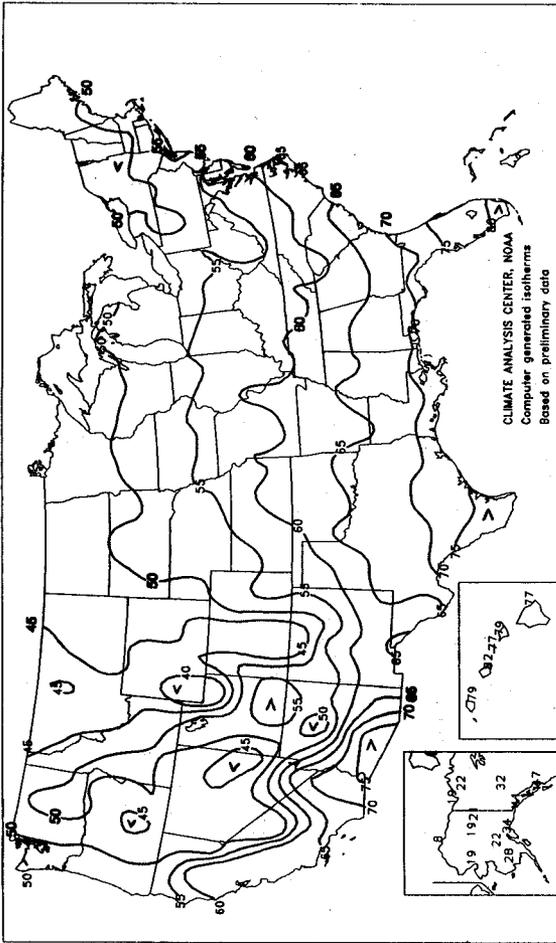
Entering October, sorghum mature started 18 points ahead of the average and was finished by mid-month. Sorghum condition, which began the month with 57% of the crop rated as good to excellent, remained unchanged throughout the month. Sorghum harvested started October 11 points ahead of the average and by month's end was nearing completion 9 points ahead of the average.

Rice harvested began October 16 points ahead of the average and finished by mid-month 6 points ahead. Heavy rains created harvest delays at mid-month in the Coastal Bend and Delta region.

Soybeans began October with dropping leaves 12 points ahead of the average and was finished by mid-October, 3 points ahead of normal. The soybean condition started October with 79% of the crop rated as good to excellent. Soybeans harvested started October 8 points ahead of the average, and by month's end reached 89% complete, only 1 point ahead of the average.

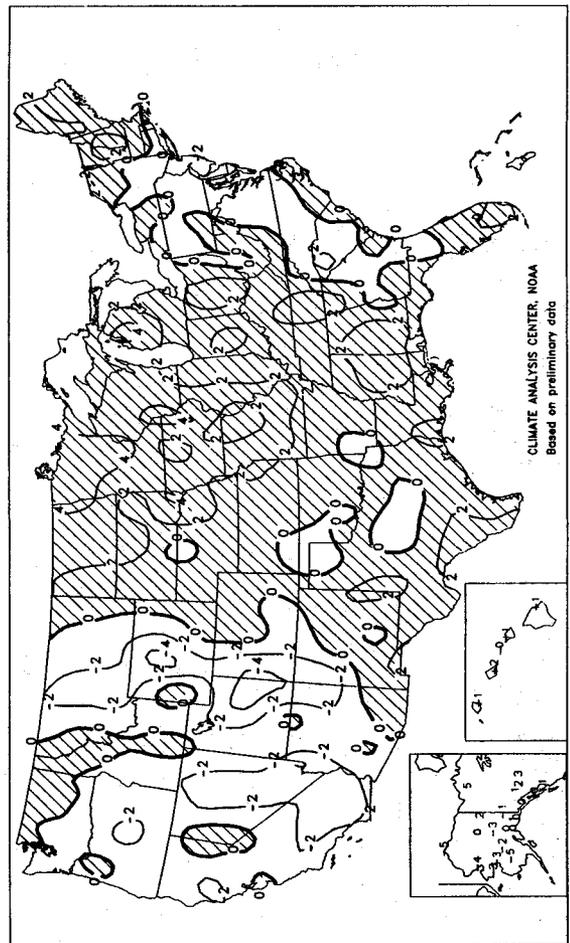
AVERAGE TEMPERATURE(°F)

OCT 1994



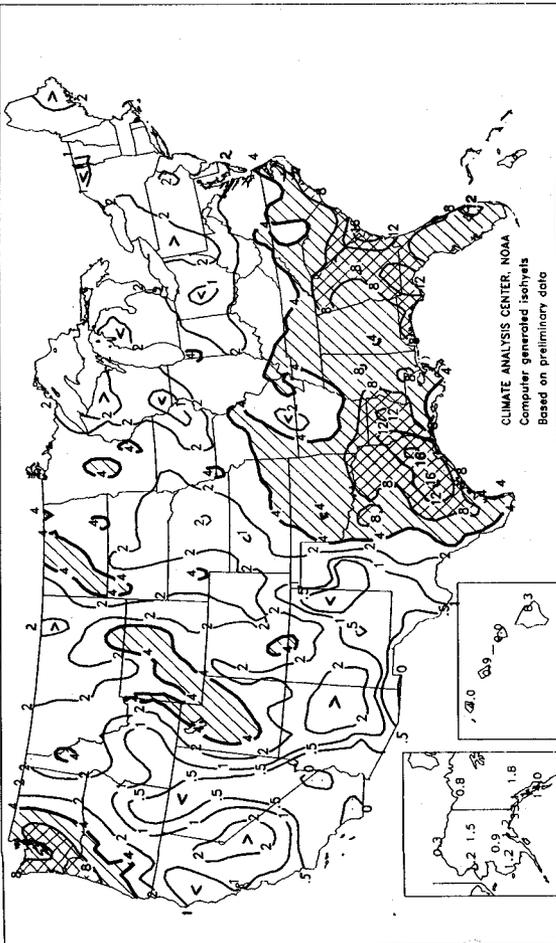
Departure of Average Temperature from Normal(°F)

OCT 1994



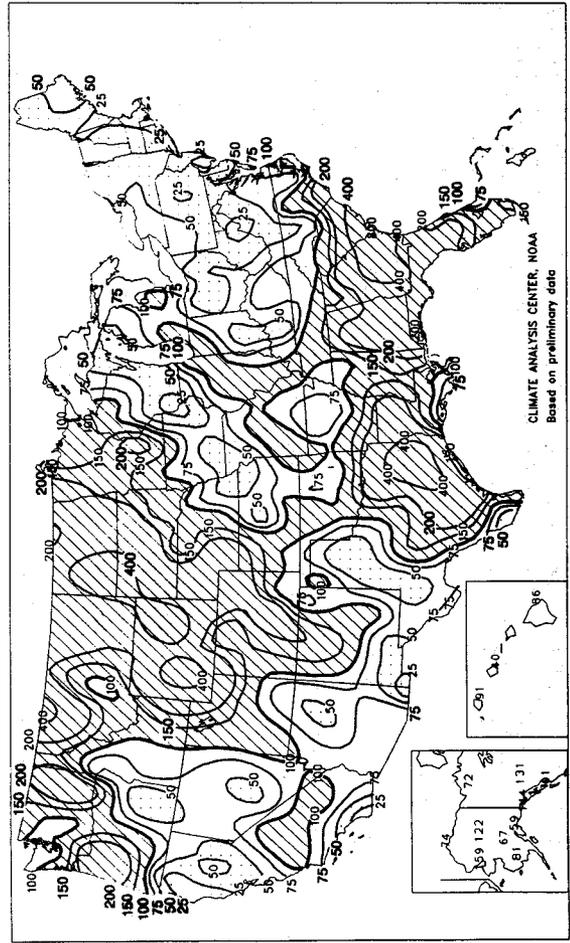
TOTAL PRECIPITATION (inches)

OCT 1994



PERCENT OF NORMAL PRECIPITATION

OCT 1994



TEMPERATURE AND PRECIPITATION SUMMARY October 1994

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	64	2	5.4	2.6	LA BATON ROUGE	69	0	5.1	1.6	MO YOUNGSTOWN	51	0	1.7	-0.9
AL HUNTSVILLE	62	1	5.3	2.1	LA LAKE CHARLES	71	2	3.2	-0.8	OK OKLAHOMA CITY	63	1	1.9	-1.4
AL MOBILE	69	0	5.9	3.0	LA NEW ORLEANS	71	2	2.3	-0.8	OK TULSA	63	1	3.8	0.1
AK MCOTOMERY	67	2	5.8	3.1	ME SHERBEEPORT	67	2	9.1	5.3	OR ASTORIA	50	-2	9.5	3.8
AK ANCHORAGE	34	-1	1.2	-0.8	ME CARIBOU	46	3	0.9	-2.2	OR BURNS	54	-1	0.2	-0.5
AK BARROW	8	-5	0.3	-0.1	ME PORTLAND	49	1	0.9	-3.0	OR MEDFORD	44	-1	0.5	-1.0
AK FAIRBANKS	21	-4	0.8	-0.1	MD BALTIMORE	57	0	1.8	-1.2	OR PENDELTON	52	-1	1.3	0.4
AK JUNEAU	43	1	9.1	1.3	MD SALISBURY	55	2	1.5	-2.0	OR PORTLAND	54	0	8.4	5.7
AK KODIAK	40	-1	12.9	5.8	MA BOSTON	56	1	0.4	-2.9	PA SALEM	53	0	8.0	5.0
AK NOME	24	-4	1.3	-0.1	MA CHATHAM	54	0	T	-4.0	PA ALLENTOWN	53	0	1.2	-1.7
AZ FLAGSTAFF	44	-3	1.1	-0.5	MI ALPENA	49	2	1.4	-0.7	PA ERIE	54	0	2.5	-1.3
AZ PHOENIX	73	-1	0.6	-0.1	MI DETROIT	54	2	1.4	-0.8	PA HARRISBURG	54	-1	0.8	-2.1
AZ PRINCETON	54	0	0.1	-1.0	MI FLINT	52	1	2.7	0.5	PA PHILADELPHIA	58	1	0.9	-1.7
AZ TUCSON	71	0	0.8	-0.3	MI GRAND RAPIDS	52	2	3.3	0.5	PA PITTSBURGH	53	1	0.9	-1.5
AZ WINSLOW	54	-2	0.3	-0.6	MI HOUGHTON LAKE	51	4	1.0	-1.1	PA SCRANTON	51	-1	0.8	-2.0
AR YUMA	76	-1	0.0	-0.3	MI LANSING	51	2	2.6	-0.1	PA WILLIAMSPORT	51	-1	0.7	-2.6
AR FORT SMITH	64	1	3.2	-0.4	MI MARQUETTE	47	4	1.6	-2.0	RI PROVIDENCE	54	1	0.4	-3.3
AR LITTLE ROCK	64	1	2.9	-0.9	MI MUSKEGON	52	2	2.2	-0.6	SC CHARLESTON	66	-1	12.1	9.2
CA BAKERSFIELD	65	-2	0.1	-0.2	MI SAULT ST. MARIE	47	2	2.2	-1.1	SC COLUMBIA	63	0	4.7	1.7
CA BISHOP	54	-3	-	-	MI ALEXANDRIA	49	3	3.7	1.5	SC FLORENCE	64	0	3.8	1.2
CA BUREKA	54	-1	0.5	-2.1	MI DULUTH	47	3	2.3	-0.2	SC GREENVILLE	60	-1	4.3	0.3
CA FRESNO	65	0	0.8	0.2	MI INT'L FALLS	47	5	2.0	0.0	SD ABERDEEN	49	3	3.4	1.9
CA LOS ANGELES	67	0	0.1	-0.2	MI MINNEAPOLIS	52	3	4.6	2.4	SD HURON	51	2	2.0	0.6
CA REDDING	63	-1	T	-2.2	MI ROCHESTER	50	3	1.6	-0.7	SD RAPID CITY	50	1	2.8	1.7
CA SACRAMENTO	63	-1	T	-1.1	MI ST. CLOUD	50	4	3.1	0.9	SD SIOUX FALLS	52	4	2.4	0.6
CA SAN DIEGO	67	-1	T	-0.4	MS GREENWOOD	66	2	5.4	1.7	TX BRISTOL	57	0	2.7	0.1
CA SAN FRANCISCO	60	-1	0.4	-0.9	MS JACKSON	66	2	5.1	1.8	TX CHATTANOOGA	61	1	5.0	1.8
CA SANTA MARIA	60	-1	0.4	-0.1	MS MERIDIAN	67	3	4.8	1.7	TX KNOXVILLE	60	2	2.4	-0.5
CA ALAMOSA	42	-2	0.9	0.2	MO CAPE GIRARDEAU	63	0	4.3	0.9	TX MEMPHIS	64	0	2.7	-0.3
CA CO. SPRINGS	49	-1	2.7	1.8	MO COLUMBIA	60	2	4.2	0.8	TX NASHVILLE	61	0	3.3	0.7
CA DENVER	52	1	1.4	0.5	MO KANSAS CITY	58	1	1.3	-2.0	TX ABILENE	66	0	3.1	0.6
CA GRAND JUNCTION	53	-3	0.6	-0.6	MO SAINT LOUIS	62	3	2.8	0.2	TX AMARILLO	58	0	0.5	-0.9
CA FUEBLO	52	-1	1.7	1.1	MO SPRINGFIELD	60	2	4.7	1.0	TX AUSTIN	71	0	7.8	4.4
CT BRIDGEPORT	55	0	1.1	-2.0	MT BILLINGS	48	-1	2.1	0.9	TX BEAUMONT	72	2	12.7	8.4
CT HARTFORD	53	1	1.5	-2.0	MT GLASGOW	45	-1	1.9	1.3	TX BROWNSVILLE	76	1	4.9	2.1
DC WASHINGTON	59	-1	1.2	-1.8	MT GREAT FALLS	44	-3	1.1	0.4	TX CORPUS CHRISTI	75	1	7.3	4.3
FL PANAMA CITY	70	2	7.4	3.7	MT HAVRE	44	-2	0.9	0.4	TX DEL RIO	73	3	1.7	-1.3
FL DAYTONA BEACH	75	1	4.7	0.6	MT HELENA	44	-1	1.1	0.5	TX EL PASO	67	3	0.4	-0.4
FL FT. MYERS	79	2	2.7	-0.3	MT KALISPELL	41	-1	2.1	1.2	TX FORT WORTH	67	2	8.2	4.2
FL JACKSONVILLE	71	-2	10.2	6.4	MT MILES CITY	48	0	1.8	0.9	TX GALVESTON	75	2	1.9	-1.0
FL KEY WEST	80	1	6.3	1.9	MT MISSOULA	45	1	1.3	0.6	TX HOUSTON	72	3	10.6	6.1
FL MIAMI	80	2	9.5	3.9	NE GRAND ISLAND	54	2	1.8	0.5	TX LAREDO	-	-	-	-
FL ORLANDO	76	1	5.2	2.8	NE LINCOLN	54	0	1.3	-0.8	TX LUBBOCK	63	1	0.6	-1.2
FL TALLAHASSEE	70	1	11.6	8.6	NE NORFOLK	55	3	1.0	-0.6	TX MIDLAND	66	1	0.4	-1.0
FL TAMPA	76	1	3.2	1.3	NE NORTH PLATTE	52	2	2.6	1.6	TX SAN ANGELO	67	0	4.3	1.9
GA WEST PALM BEACH	78	0	2.8	-4.9	NE OMAHA	55	2	1.4	-0.9	TX SAN ANTONIO	73	2	9.5	6.4
GA ATHENS	62	0	6.7	3.4	NE SCOTTSBLUFF	49	0	2.8	2.0	TX VICTORIA	74	2	10.5	6.1
GA ATLANTA	64	2	4.5	1.5	NE VALENTINE	51	-1	1.1	-0.1	TX WACO	68	0	4.8	1.5
GA AUGUSTA	63	0	9.0	6.2	NV ELKO	44	-4	-	-	TX WICHITA FALLS	66	2	3.2	0.1
GA MACON	64	-1	7.2	5.1	NV ELY	44	-2	0.5	-0.4	UT BLANDING	50	-2	1.6	0.2
GA SAVANNAH	68	0	19.8	17.4	NV LAS VEGAS	67	-1	T	-0.2	UT CEDAR CITY	50	-2	1.2	0.3
GA HILO	77	2	8.7	-0.9	NV RENO	52	2	0.2	-0.2	UT SALT LAKE CITY	51	-2	2.2	0.8
HI HONOLULU	83	3	1.6	-0.7	NE WINNEMUCCA	47	-2	0.4	-0.2	VT BURLINGTON	50	2	1.2	-1.6
HI KAHULUI	79	1	T	-1.2	NE WINDSOR	49	1	0.9	-2.3	VA LYNCHBURG	57	0	1.0	-2.7
HI LIHOE	79	2	5.4	1.0	NJ CONCORD	49	1	0.9	-2.3	VA NORFOLK	62	1	2.5	-0.6
ID BOISE	50	-1	0.8	0.0	NJ ATLANTIC CITY	53	-2	0.8	-2.0	VA RICHMOND	58	-1	2.6	-1.0
ID LEWISTON	52	0	0.4	-0.5	NM ALBUQUERQUE	57	0	1.5	0.6	VA ROANOKE	56	0	1.8	-2.0
ID POCATELLO	47	-1	1.3	0.4	NY CLOVIS	60	2	0.9	-0.4	VA COLVILLE	48	1	1.3	0.1
IL CAIRO	-	-	-	-	NY ROSWELL	63	0	1.2	0.2	VA QUILLAYOTE	49	-1	9.6	-0.9
IL CHICAGO	55	2	3.2	0.8	NY ALBANY	50	0	0.8	-2.0	WA SEATTLE-TACOMA	53	0	3.5	0.3
IL MOLINE	56	3	1.7	-1.3	NY BINGHAMTON	49	0	0.9	-2.0	WA SPOKANE	47	0	2.8	1.8
IL PEORIA	56	2	3.2	0.5	NY BUFFALO	52	1	1.9	-1.2	WA WALLA WALLA	54	0	3.4	1.8
IL QUINCY	56	1	2.2	-1.2	NY NEW YORK	58	1	1.4	-1.7	WA YAKIMA	50	0	0.4	-0.1
IL ROCKFORD	53	2	1.1	-1.8	NY ROCHESTER	52	1	1.3	-1.1	WV BECKLEY	53	1	1.2	-1.7
IL SPRINGFIELD	58	2	2.7	0.1	NY SYRACUSE	51	0	1.6	-1.6	WV CHARLESTON	55	-1	1.1	-1.8
IN EVANSVILLE	60	1	2.7	-0.3	NC ASHEVILLE	56	0	4.3	-0.3	WV ELKINS	56	0	0.4	-2.7
IN FORT WAYNE	55	2	1.4	-1.1	NC CHARLOTTE	62	0	3.6	0.2	WV HUNTINGTON	50	2	1.9	-1.0
IN INDIANAPOLIS	57	2	0.9	-1.8	NC GREENSBORO	58	-1	1.1	-2.4	WV PARKERSBURG	55	-1	0.9	-1.8
IN SOUTH BEND	54	1	3.5	0.4	NC HATTERAS	66	1	9.5	4.5	WI GREEN BAY	51	3	1.0	-1.2
IA DES MOINES	56	3	1.0	-1.8	NC NEW BERN	64	1	0.9	-2.1	WI LACROSSE	55	5	2.0	-0.2
IA DUBUQUE	53	2	0.5	-2.2	NC RALEIGH	59	-1	4.6	1.8	WI MADISON	52	2	0.6	-1.8
IA SIOUX CITY	54	2	2.0	0.1	NC WILMINGTON	64	1	8.5	5.2	WI MILWAUKEE	56	5	0.8	-1.6
IA WATERLOO	54	4	1.9	-0.7	MD BISMARCK	48	2	3.4	2.5	WI WAUSAU	50	3	1.8	-0.8
KS CONCORDIA	56	0	1.2	-0.8	MD FARGO	50	5	3.2	1.5	WI CASPER	46	-1	4.2	3.2
KS DODGE CITY	57	-1	1.7	0.4	MD GRAND FORKS	49	5	3.2	1.9	WI CHEYENNE	47	0	1.6	0.8
KS GOODLAND	52	0	1.8	0.9	MD WILLISTON	47	2	1.7	1.0	WI LANDER	44	-3	4.9	3.8
KS TOPEKA	58	2	1.3	-1.8	OH AKRON-CANTON	53	1	1.1	-1.3	WI SHERIDAN	46	-1	3.4	2.2
KY NICHITA	60	1	3.5	0.6	OH CINCINNATI	57	2	1.5	-1.4	PR SAN JUAN	83	1	3.5	-2.2
KY BOWLING GREEN	59	1	0.3	-2.8	OH CLEVELAND	55	2	1.0	-1.5					
KY JACKSON	58	1	2.5	-0.7	OH COLUMBUS	56	4	0.9	-1.5					
KY LEXINGTON	58	1	2.1	-0.5	OH DAYTON	56	2	1.1	-1.4					
KY LOUISVILLE	59	2	1.9	-0.8	OH MANSFIELD	53	1	0.7	-1.6					
KY PADUCAH	60	1	2.9	-0.1	OH TOLEDO	54	2	1.0	-1.1					

Based on 1961-90 normals.

National Agricultural Summary

October 31 - November 6, 1994

HIGHLIGHTS: Reports of grain elevators at full capacity continued in the Corn Belt, where mild weather early in the week allowed the fall harvest to make good progress. Wide-spread showers across the Midwest later in the week slowed field activity and small grain planting. A late freeze in the Great Lakes States gave producers additional time to harvest the row crops, but good yields have left some producers waiting in line at the elevators. Significant precipitation along the northern Pacific Coast slowed fieldwork and harvest activity but benefited the small grain crop. Producers reported that warmer weather is needed to germinate late-seeded wheat fields in parts of Washington, where freezing temperatures threatened early-emerged wheat fields. Wet fields in the Southeastern States limited cotton harvest activity but defoliation remained active. The cotton harvest in the Texas Plains was slowed by wet fields. In some areas of Texas small grains were replanted due to excessive moisture. Wheat emergence was reported as good in the central Great Plains, where the rains have benefited the small grains.

Winter wheat planted at 92 percent (%) was up 3 percentage points from the previous week, and was 1 point behind the 5-year average. Winter wheat planted in Oregon was up 16 points from the previous week but was 10 points behind the average. Winter wheat for the 19 major producing States was 83% emerged, 2 points ahead of the average, while wheat emerged in Oregon and Washington was 25 points behind the average.

Winter wheat condition rated good to excellent was at 72%, compared to 69% a year ago.

Corn harvest for the 17 major producing States advanced 13 points from last week to 83%, and was 6 points ahead of the average. Mild weather allowed the corn harvest in the Midwest and the Great Lakes States to make good progress, but storage shortages persist. Corn harvested in Illinois was up 8 points from the previous week, while Indiana increased corn harvested by 14 points from last week.

Cotton harvested in the 14 major producing States at 70% was up 12 points from last week and 6 points ahead of the average. In Georgia, the cotton harvest increased 10 points from last week to 42%, while cotton harvested in Alabama increased 12 points to 54%, with both States 27 points behind the average.

Sorghum harvested at 91% was up 7 points from last week and 8 points ahead of the average. Sorghum harvested in Kansas increased 10 points from last week and reached 95% harvested, 15 points ahead of the average.

Soybeans harvested at 89% was up 6 points from a week ago and 1 point ahead of the average for the 19 major producing States. Mississippi soybean producers harvested 75% of the crop, up 15 points from last week, and 6 points ahead of the average.

(Continued from front cover)

(Old Faithful), WY plunged to -20°F. In Oregon, daily-record lows were set in Burns (9°F) and Klamath Falls (14°F). Farther south, near-freezing, daily-record readings were reported in California's San Joaquin Valley at Fresno (33°F) and Bakersfield (34°F). In contrast, warmth in the South-Central and Eastern States fueled more than three dozen daily-record highs. On Tuesday, Alamosa, CO recovered from the Nation's lowest temperature (14°F) to post a daily-record high of 67°F. In Texas, daily records were tied at Amarillo and Lubbock (both 85°F). On Friday, 13 daily records were tied or set from Louisiana to New York, with highs reaching 80°F as far north as Charleston, WV and Roanoke, VA. Sixteen records were set on Saturday in the Northeast, including a high of 79°F in Boston, MA.

During the first half of the week, rain spread from the central Plains to the Northeast as the first storm lifted northeastward. Winter wheat in southeastern Kansas benefited from 1 to 3 inches of rain. Farther west, Oregon continued to receive the brunt of heavy precipitation as the second system approached. On October 31, totals included 3.70 inches in Eugene and 2.96 inches in Astoria. By midweek, snow depths in the northern Oregon Cascades increased to 1 to 4 feet, with 30 inches at Government Camp (near Mt. Hood), and 15 inches at 4,817-foot Santiam Pass. Snow quickly spread into the interior West

at midweek. In Casper, WY, the storm-total snowfall of 15.4 inches brought the seasonal total to 34.4 inches. In Lander, WY, the seasonal snowfall reached 26.1 inches with a 6.1-inch accumulation. The first measurable snow of the season fell at locations such as Salt Lake City, UT (4.2 inches) and Rapid City, SD (3.0 inches). Snow was observed as far east as North Platte, NE (2.3 inches) and as far south as Flagstaff, AZ (1.0 inch). Nine inches of snow covered Chama, NM.

Late-week rainfall reached 12.70 inches in northwestern Arkansas, with up to 9 inches in adjacent areas of eastern Oklahoma and southern Missouri, causing considerable flash flooding. Springfield, MO set consecutive daily rainfall records with 2.32 inches on Friday and 1.87 inches on Saturday. During the 24 hours ending at 6 a.m. CST on Saturday morning, 4.62 inches deluged Cape Girardeau, MO, while 3.83 inches drenched Jacksonville, AR. Meanwhile, another round of stormy weather lashed the west coast, reaching as far south as northern California. A daily-record rainfall of 1.29 inches pelted Sacramento on Saturday. In San Francisco (Mission Dolores), where records date to 1849, an all-time, 24-hour record of 6.19 inches fell during the period ending at 3 a.m. PST on November 6. Farther north, a foot or more of snow buried northeastern Nevada, while winds gusted to 80 mph in Oregon along the coast and above 7,000 feet in the Cascades.

Crop Progress

for the Week Ending November 6, 1994

COTTON HARVESTED

	Current	Last Wk	1993	Avg.
AL	54	42	82	81
AZ	86	77	85	75
AR	83	67	79	82
CA	85	65	90	81
GA	42	32	84	69
LA	88	72	92	94
MS	82	66	82	87
MO	92	82	86	86
NM	63	36	39	24
NC	63	57	72	60
OK	69	59	49	26
SC	51	41	73	67
TN	76	64	88	80
TX	60	52	62	43
14 States	70	58	74	64

These 14 States produced 99% of the 1993 cotton crop.

GRAIN SORGHUM HARVESTED

	Current	Last Wk	1993	Avg.
AR	100	99	97	98
CO	76	52	52	56
IL	90	78	73	82
KS	95	85	80	80
LA	100	100	100	99
MS	100	100	99	99
MO	84	80	83	85
NE	97	87	84	85
NM	61	42	55	56
OK	49	43	56	57
SD	89	62	86	92
TX	93	90	93	88
12 States	91	84	84	83

These 12 States produced 98% of the 1993 grain sorghum crop.

WINTER WHEAT PLANTED

	Current	Last Wk	1993	Avg.
AR	72	56	54	60
CA	20	10	25	22
CO	100	100	100	100
GA	13	9	24	16
ID	97	94	97	98
IL	96	93	84	94
IN	98	95	92	92
KS	98	98	98	98
MI	98	95	96	96
MO	83	77	79	83
MT	94	89	92	98
NE	100	100	100	100
NC	51	45	44	41
OH	100	98	98	94
OK	97	95	98	96
OR	85	69	96	95
SD	100	100	100	100
TX	83	79	89	88
WA	93	91	99	98
19 States	92	89	92	93

These 19 States produced 92% of the 1993 winter wheat crop.

WINTER WHEAT EMERGED

	Current	Last Wk	1993	Avg.
AR	53	38	40	45
CA	5	1	8	6
CO	98	96	97	97
GA	10	7	16	12
ID	68	61	83	84
IL	90	79	64	77
IN	90	78	76	74
KS	95	90	90	90
MI	90	80	80	85
MO	71	58	52	64
MT	77	67	67	83
NE	100	100	100	100
NC	34	20	29	30
OH	88	71	84	74
OK	88	81	87	76
OR	53	30	88	78
SD	100	99	100	99
TX	75	68	75	71
WA	67	63	89	92
19 States	83	76	81	81

These 19 States produced 92% of the 1993 winter wheat crop.

Crop Condition

for the Week Ending Nov. 6, 1994

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	1	0	90	9
CA	0	0	5	90	5
CO	3	6	22	61	8
GA	0	0	16	82	2
ID	0	4	28	59	9
IL	0	0	7	58	35
IN	0	0	22	69	9
KS	1	5	19	70	5
MI	1	4	20	50	25
MO	0	1	32	61	6
MT	3	10	32	50	5
NE	0	0	19	74	7
NC	0	0	8	85	7
OH	1	8	42	39	10
OK	0	0	5	81	14
OR	0	1	32	61	6
SD	0	0	9	74	17
TX	0	9	48	37	6
WA	3	32	38	25	2
19 State	1	5	22	63	9
Prev Week	1	6	27	60	6
Prev Year	0	2	29	52	17

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

CORN HARVESTED

	Current	Last Wk	1993	Avg.
CO	88	86	58	66
GA	98	97	99	99
IL	87	79	82	85
IN	77	63	70	68
IA	89	74	73	80
KS	99	96	85	90
KY	90	83	87	86
MI	45	35	40	50
MN	83	57	62	76
MO	85	81	81	86
NE	91	78	64	78
NC	100	95	100	100
OH	67	52	68	58
PA	55	33	40	44
SD	77	53	55	74
TX	100	100	100	100
WI	70	49	53	56
17 States	83	70	71	77

These 17 States produced 91% of the 1993 corn crop.

SOYBEANS HARVESTED

	Current	Last Wk	1993	Avg.
AL	41	24	66	61
AR	74	52	53	62
GA	28	16	42	40
IL	97	95	95	97
IN	99	97	93	92
IA	100	98	100	100
KS	85	80	90	90
KY	71	54	63	66
LA	81	63	87	84
MI	95	85	95	90
MN	99	95	98	99
MS	75	60	64	69
MO	82	70	82	86
NE	100	97	99	100
NC	23	19	17	25
OH	100	97	97	92
SC	22	14	16	21
SD	99	88	100	100
TN	56	40	58	59
19 States	89	83	87	88

These 19 States produced 95% of the 1993 soybean crop.

States Summaries of Weather and Agriculture

These summaries 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.

ALABAMA: Rainfall 0.17 to 1.38 in. north; 0.01 to 1.26 in. central; 0.01 to 1.23 in. south. Temperatures 2° below normal to 5° above normal statewide. Lows 30 to 37° north; 32 to 44° central; 30 to 44° south. Highs 74 to 79° north; 73 to 82° central; 81 to 84° south.

Days suitable for fieldwork 5.7. Soil moisture 5% short, 90% adequate, 5% surplus. Corn harvested 97%, 99% 1993, 99% avg. Sorghum harvested 68%, 81% 1993, 92% avg. Peanuts combined 96%, 94% 1993, 98% avg. Wheat planted 56%, 52% 1993, 53% avg. Pasture feed 7% poor, 32% fair, 52% good, 9% excellent. Livestock 24% fair, 63% good, 13% excellent. Seasonal activities: Harvesting row crops, vegetables, defoliating cotton fields, seeding small grains, ground preparation for fall planting.

ARIZONA: Temperatures 4° below to 3° above normal. Extremes 18°; 83° higher elevations; 32°; 90° deserts. Precipitation reported all stations except Casa Grande, Yuma; trace to 1.37 in.

Seedbed preparation for small grains beginning, some western acreage planted. Cotton harvest continues active; harvested acreage 86%, 85% 1993, 75% avg. Stalk shredding, plowdown active central, western areas, light eastern parts of State. Alfalfa condition mostly good. Harvest light to moderate. Sheeping off light. Stand renovation, stands established normal. Lemon, grapefruit, navel orange harvest western, central areas. Apple harvest continues eastern groves. Cantaloupe, honeydew harvested central, western areas. Head lettuce available eastern areas still. Bok choy, cabbage, cilantro, green onion, mixed green, radishes, sweet corn available central areas.

ARKANSAS: Temperatures above normal with heavy rainfall in the northwest region. Extreme 29°; 87°. Precipitation 0.31 to 10.43 in.

Days suitable for fieldwork 6. Soil moisture 20% short, 65% adequate, 15% surplus. Rice, grain sorghum, soybean, cotton harvests in progress. Producers fertilizing, liming pastures. Pecans fair to good; 5% harvested in Hempstead county, 10% harvested in Little River county. Sharp county reported dry conditions have caused stock ponds to dry up. Pope county reported calves were dying from blackleg. Pasture feed 4% very poor, 14% poor, 44% fair, 36% good, 2% excellent. Livestock good condition.

CALIFORNIA: Week began warm, dry mid week, much cooler, light precipitation. Another Pacific weather system struck northern third of State last day of week, heavy rain, strong winds.

Good progress field activities until weekend rains north half. Elsewhere, fieldwork continued normal. Rice harvest neared completion, stubble burning where conditions, air quality regulations permitted. Some harvested fields re-flooded, duck hunting, straw decomposition. Cotton harvest remained active, followed by shredding, discing for pink bollworm control. Grain corn, silage corn, dry beans, sugarbeets harvested. New crop sugarbeets planted some areas. Alfalfa, bermuda grass cut hay, greenchopped. Ground preparation fall-planted small grains ongoing. Small grains, new alfalfa, winter forages seeded where soil moisture conditions allowed. Table grape harvest winding down. Rain damaged raisins reconditioned. Harvest active for apples, Asian pears, persimmons, pomegranate, kiwifruit, and dates. Almond, walnut, olive harvests near completion. Tree pruning active. Valencia picking winding down. Navel orange, Satsuma tangerine, grapefruit, and lemon harvests active. Asparagus harvested Imperial Valley. Broccoli, cauliflower harvest central coast, San Joaquin Valley. Cabbage harvested Kern County, growing well Tulare County. Kern County carrot harvest continued. Sweet corn harvested Imperial, San Joaquin Valleys. Fall head, leaf lettuce fields harvested San Joaquin Valley, central coast. Cantaloupe harvest Colusa County ended, melons harvested Imperial Valley. Pepper harvest continued San Joaquin Valley. Harvest sweet potatoes Merced, Stanislaus Counties continued. Spinach planting Tulare County almost completed. Fresh market tomatoes harvested San Joaquin Valley. Processing tomato canners receiving last shipments for season. Other crops harvested: Squash, cucumbers, green beans, green onions, eggplant, pumpkins, herbs, spices, oriental vegetables. Rangeland, pasture remained dry.

Conditions fair to mostly poor. Weekend rainfall helped sustain newly germinated grasses, cooler temperatures slowed growth. Snow, higher elevations, benefitted water supplies. Prompted heavy livestock movement, lower elevations. Feed supplies poor, lower elevation ranches, supplemental feeding heavy. Fall calving remained active. Sheep grazing old sudan, alfalfa fields. Cattle, sheep in good condition.

COLORADO: Temperatures first part of the week were 10 to 15° above normal; a cold front rushed in, cooled temperatures to near or below normal by the 3rd. Snow produced most if not all of the weeks precipitation.

Days suitable for fieldwork 5.2. Soil moisture 12% very short, 32% short, 55% adequate, 1% surplus. Sugarbeets 96% harvested, 92% 1993, 89% avg. Winter wheat 3% very poor, 6% poor, 22% fair, 61% good, 8% excellent. Livestock mostly in good condition. Pasture, range feed conditions poor to fair.

FLORIDA: Temperature 2 to 5° above normal statewide. Highs: mid 80s North, near 90° Peninsula. Lows: upper 30s Panhandle, Big Bend, mid 40s northeast, 50s central, low 60s south, low 70s southeast coast. Rainfall most locations reported only trace amounts, isolated locations reported up to 0.50 in. Season precipitation still 5.00 to 15.00 in. above normal most locations.

Soil moisture for field crops mostly adequate, some surplus. Fall, winter small grains being planted, early plantings up. Wet weather delaying some cotton harvesting. Haying very active. Citrus groves excellent condition. Moisture adequate. New growth slowed. On-tree fruit color good on early fruit. Harvest active on early oranges as many processing plants now open. Grapefruit movement active lower East Coast. Early tangerine movement at or near record levels for this time of year. Caretakers cutting cover crops. Very little rain fell over major areas of vegetable production. Northern vegetable harvest winding down. Strawberry harvest beginning, Plant City area. Volume leaders: Tomatoes, cucumbers, peppers. Also available: Squash, sweet corn, snap beans, eggplant, watermelons, radishes, okra, escarole. Pasture feed 5% very poor, 5% poor, 15% fair, 65% good, 10% excellent. Cattle mostly good. Calving season began.

GEORGIA: Temperatures 2 to 7° above normal. Warmest mid to upper 70s north, upper 70s to low 80s central, south. Coolest mid 30s to low 40s, except some upper 20s to low 30s extreme north, some mid 40s southeast. Rained 1 to 3 days. Rain totals between 0.25, 1.25 in., numerous locations less than 0.25 in. Heaviest rain 1.41 in. Pine Mountain.

Days suitable for fieldwork 5.0. Soil moisture 84% adequate, 16% surplus. Corn harvest moving slowly toward completion. Cotton 8% fair, 78% good, 14% excellent; 95% bolls open, 99% 1993, 97% avg.; wet fields limiting harvest progress some southern areas, defoliating active. Sorghum 7% poor, 12% fair, 81% good; 91% harvested for grain, 93% 1993, 87% avg. Peanuts 100% dug, 99% 1993, 100% avg.; 98% threshed, 97% 1993, 99% avg. Soybeans 2% poor, 17% fair, 75% good, 6% excellent; 28% harvested, 42% 1993, 40% avg. Wheat planting, emergence behind average, condition good. Rye 74% planted, 73% 1993, 71% avg. Other small grains 22% fair, 75% good, 3% excellent; 62% planted, 54% 1993, 50% avg. Onions 5% transplanted, 8% 1993, 11% avg. Other vegetables 4% very poor, 13% poor, 20% fair, 63% good. Pecans 1% very poor, 3% poor, 54% fair, 42% good; 32% harvested, 17% 1993, 28% avg. Pasture feed 2% poor, 25% fair, 71% good, 2% excellent. Cattle, hogs good. Other activities included harvesting hay, preparing small grain seedbeds, overseeding pastures, routine care of livestock, poultry.

HAWAII: Mostly sunny, occasional cloudiness, showers in windward, mountain areas. Rebuilding of high pressure system west northwest of island chain at mid week strengthened trade winds to moderate levels, lowering humidity, cooling temperatures. Temperatures high 60s to low 90s. Winds 10 to 20 mph. Rainfall none to 8.50 in.

Weather generally benefitted crop progress. Macadamia nut, coffee harvests making good progress. Slight increase in papaya production. Banana output seasonally high.

IDAHO: Temperatures 2 to 8° below normal. Precipitation 0.64 to 2.28 in. north, 0.06 to 0.48 southwest, 0.02 to 0.39 in. south central, none to 0.19 in. southeast. Extreme 4°; 68°.

Potatoes harvested 99%, 99% 1993, 99% avg. Hay, roughage supply 2% short, 95% adequate, 3% surplus. Sugarbeets harvested 87%, 88% 1993, 90% avg. Apple harvest complete. Field corn for grain harvested 62%, 65% 1993, 58% avg. Activities: Finishing sugarbeet harvest, fall fertilization, vaccinating livestock, weaning calves, preparing machinery, irrigation equipment for the winter.

ILLINOIS: Southerly winds brought unseasonably warm, moist air into the State. Temperatures 45 to 58° were some 3 to 9° above normal. Highs varied mid 50s to the upper 60s with average lows in the 40s. A slow moving front produced abundant rainfall over the State. Rainfall around 2.00 in. southeast, with 2.00 to 3.00 in. totals common in the remainder of the State.

Days suitable for fieldwork 4.50. Soil moisture 25% short, 72% adequate, 3% surplus. Pasture feed 85% of normal. Farm activities included corn, soybean, sorghum harvest, seeding winter wheat, fall tillage, applying fertilizer, hauling grain, tending livestock.

INDIANA: Temperatures generally on the mild side with only brief shots of cooler air about midweek then late in the weekend. Weather systems moved across the country fairly steadily producing wet weather early in the week, late 4th, 5th. Some snow was recorded in northeastern areas 1st, melted quickly. Periods of rain, sometimes heavy dampened the State 4th, 5th. Temperatures above normal by 2 to 9°. Highs mid to upper 50s to mid to upper 60s. Lows 40° to around 50°. Most of the State had frost or freezing temperatures during the week. Precipitation was above normal, most coming 4th, 5th. Most areas received at least 1.00 in. while some areas had over 3.00 in.

Days suitable for fieldwork 5.1. Showers, some heavy during weekend slowed field activities. Some elevators at full capacity. Soybean harvest, winter wheat seeding nearing completion. Other activities; fall tillage, chopping stalks, spreading fertilizer, lime, processing tobacco, machinery repair, mending fence, sorting calves, care of livestock. Pasture feed 72% of normal, 73% last week. Topsoil 32% short, 62% adequate, 6% surplus. Subsoil moisture 60% short, 38% adequate, 2% surplus. Hay, roughage supplies mostly adequate. Tobacco processed for sale 15%.

IOWA: Temperatures near normal west, 4° above normal east. Extremes 20° (northeast, 1st); 75° (southeast, 3rd). Rainfall light northwest half; moderate to heavy southeast; totals trace northwest up to 2.33 in. southeast; average 0.33 in. (normal 0.46 in.).

Days suitable for fieldwork 6.1. Topsoil 26% short, 74% adequate. Subsoil 28% short, 71% adequate, 1% surplus. 1995 row crop acreage fall tilled 27%, 28% 1993, 31% avg. 1995 row crop acreage fall fertilizer applied 18%, 22% 1993, 25% avg. Percent moisture of field corn 17%. Percent moisture harvested corn 16%. Grain storage availability 26% adequate, 74% short. Grain movement 6% none, 54% light, 33% moderate, 7% heavy. Utilization of stubble fields for grazing 1% none, 55% limited, 40% moderate, 4% extensive. Reporters indicated the fall weather has provided excellent conditions for the States livestock herds which are in mostly good condition. However, there were a few reports of pneumonia in cattle. With the corn harvest winding down, beef cow herds are being moved to corn stalks for forage.

KANSAS: Temperature varied 2° below normal in the northwest to 4° above normal in the southeast. Below normal temperatures prevailed in the west with averages warming to above normal eastward. Precipitation was received in all districts. The heaviest amounts fell in the east central, southeast districts.

Days suitable for fieldwork 5.0. Surface soil moisture 43% short to very short, 49% adequate, 8% surplus. Subsurface moisture 43% short to very short, 54% adequate, 3% surplus. Wheat seeding virtually complete. Only fields in the east central, southeastern districts remain to be seeded. Wet fields hampered activity in these areas past week. Wheat emergence good across the State. Five percent of acreage being pastured, about on par with last year and the average. Fall harvest made good progress last week. Corn harvest progressed rapidly, virtually complete. Sorghum harvest continues well ahead of normal progress. Soybean harvest complete all but the east central, southeastern district where rains slowed progress. Fall crop harvest is the major activity. Farmers moving cattle to crop stubble fields, wheat pasture in many areas.

KENTUCKY: Mild temperatures, light precipitation. Maximum temperatures 55 to 60°, 6 to 9° above normal. Precipitation 0.50 in., about 0.50 in. below normal.

Days suitable for fieldwork 5.4. Soil moisture 10% very short, 44% short, 46% adequate. Burley 27% stripped, 25% 1993, 28% avg.; 12% fair, 78% good, 10% excellent. Burley markets open 21st. Winter wheat 85% seeded, 75% 1993, 78% avg.; emerged 22% fair, 71% good, 7% excellent. Pasture feed fair to good, many producers feeding hay. Water level low stock ponds, streams.

LOUISIANA: Weather data not available.

Days suitable for fieldwork 6.2. Soil moisture supplies 14% short, 74% adequate, 12% surplus. Cotton, harvest made excellent progress. Hay 99% final cutting, 98% 1993, 99% avg. Pecans 22% harvested, 26% 1993, 33% avg. Rice 100% harvested, 100% 1993, 100% avg. Soybeans 100% shedding leaves, 100% 1993, 98% avg. Sugarcane 17% fair, 83% good; 37% harvested, 37% 1993, 32% avg. Harvest made excellent progress. Sucrose counts improved with the recent cooler weather. Sweet potatoes 85% harvested, 87% 1993, 87% avg. Harvest progressed, some damage apparent from wet soils. Wheat 39% planted, 36% 1993, 39% avg.; 19% emerged, 27% 1993, 24% avg. Livestock 14% poor, 39% fair, 47% good. Pasture feed 10% poor, 10% fair, 77% good, 3% excellent. Rye grass planting active. Vegetables 2% poor, 33% fair, 63% good, 2% excellent.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.45 in., normal 0.72 in. Temperature 56.8°, normal 51.8°. Extremes 23°; 82°.

Days suitable for fieldwork 5.6. Topsoil 35% short, 65% adequate. Subsoil 31% short, 69% adequate. Pasture feed good. Wheat fair to mostly good; 78% planted, 79% 1993, 76% avg. Barley good; 94% planted, 100% 1993, 95% avg. Rye good; 88% planted, 86% 1993, 82% avg. Corn 79% grain harvested, 88% 1993, 83% avg. Soybeans 67% harvested, 48% 1993, 56% avg. Sorghum 70% harvested, 39% 1993, 78% avg. Tobacco 18% stripped, 9% 1993, 13% avg. Other hay 72% fourth cut, 81% 1993, 65% avg. Alfalfa hay 78% fifth cutting, 56% 1993, 50% avg. Hay supplies adequate. Apples 99% harvested, 95% 1993, 97% avg. DELAWARE: Precipitation 0.51 in., normal 0.76 in. Temperature 56.3°, normal 52.7°. Extremes 34°; 78°.

Days suitable for fieldwork 4.5. Topsoil 14% short, 86% adequate. Subsoil 29% short, 57% adequate, 14% surplus. Wheat good; 62% planted, 70% 1993, 69% avg. Barley good; 98% planted, 94% 1993, 88% avg. Corn 95% grain harvested, 97% 1993, 95% avg.; Soybeans 99% shedding leaves, 99% 1993, 100% avg.; 58% harvested, 40% 1993, 52% avg. Sorghum 48% harvested, 24% 1993, 70% avg. Other hay 74% fourth cutting, 45% 1993, 84% avg. Alfalfa hay 77% fifth cutting, 73% 1993, 74% avg. Hay supplies adequate; pasture feed excellent.

MICHIGAN: Extremes 19°; 54°. Precipitation 0.10 to 4.34 in. across the State.

Days suitable for fieldwork 4.0. Soil moisture 5% short, 55% adequate, 40% surplus. Dry beans 100% harvested, 100% 1993, 99% avg. Corn for grain 45% harvested, 40% 1993, 50% avg. Corn silage 100% harvested, 97% 1993, 97% avg. Potatoes 100% harvested, 99% 1993, 99% avg. Soybeans 95% harvested, 95% 1993, 90% avg. Pasture feed 85% of normal. Major activities included: Harvesting corn, soybeans, sugarbeets, repairing equipment, hauling manure, cutting wood, harvesting Christmas trees, making cider.

MINNESOTA: Temperatures 1 to 4° above normal. Extremes 17°; 63°. Precipitation less than 0.10 in. State. Greatest weekly total 0.35 in.

Days suitable for fieldwork 6.1. Topsoil 1% short, 79% adequate, 20% surplus. Corn 83% harvested, 62% 1993, 76% avg.; moisture content 19%, 28% 1993, 22% avg.; stalks worked 47%, 42% 1993, 52% avg. Soybean stubble worked 69%, 76% 1993, 73% avg. Sunflowers 95% harvested, 90% 1993, 94% avg.

MISSISSIPPI: Weather data not available.

Days suitable for fieldwork 6.0. Soil moisture 10% short, 78% adequate, 12% surplus. Cotton 82% harvested, 82% 1993, 87% avg.; 1% poor, 24% fair, 74% good, 1% excellent. Soybeans 75% harvested, 64% 1993, 69% avg.; 22% fair, 69% good, 9% excellent. Wheat 69% planted, 68% 1993, 66% avg.; 50% emerged, 51% 1993, 45% avg.; 28% fair, 36% good, 36% excellent. Sweet potatoes 93% harvested, 94% 1993, 91% avg. Pecans 43% harvested, 27% 1993, 28% avg.; 14% very poor, 14% poor, 33% fair, 29% good, 10% excellent. Livestock 9% fair, 83% good, 8% excellent. Pasture feed 82% of normal. Activities: Cotton, soybean harvest, planting wheat,

finishing planting for winter pastures, some replanting of ryegrass due to insect damage.

MISSOURI: Temperatures above normal, 1° above normal St. Joseph, Kansas City to 8° above normal St. Louis. Rainfall 3.47 in., ranging from 0.81 in., northwest to 6.28 in., south central district. Some southern counties received over 8.00 in.

Days suitable for fieldwork 3.6. Topsoil 16% short, 63% adequate, 21% surplus. Corn harvest virtually complete southern third of State, other districts range from 74% central to 88% east central. Soybean harvest ranges 61% southwest, 72% southeast to 95% northeast. Sorghum harvest ranges 63% central district to 99% southeast. Some shortages of grain storage space, primarily northwest, west central. Wheat seeding varies 66% west central to 98% northeast. Wheat emerged varies 52% west central to 91% northeast. Pasture feed 7% poor, 41% fair, 43% good, 9% excellent.

MONTANA: Precipitation reported in all divisions with most reported in the northwestern division. Temperatures slightly below normal statewide, except southeast, south central were slightly above normal.

Potato, sugarbeet harvest coming to a close. Livestock continues to be brought down from summer ranges.

NEBRASKA: Temperatures near normals. Precipitation occurred in light amounts midweek averaging less than a 0.10 in.

Days suitable for fieldwork 6.2. Topsoil 21% short, 78% adequate, 1% surplus. Subsoil 26% short, 73% adequate, 1% surplus. Corn 91% harvested, 64% 1993, 78% avg. Sorghum 97% harvested, 84% 1993, 85% avg. Winter wheat 19% fair, 74% good, 7% excellent. Pasture, range 88% of normal. Cattle gleaning stalk fields.

NEVADA: Two cold fronts visited the State this week, bringing much needed precipitation. Strong winds, much cooler temperatures accompanied the storm fronts. Rain or snow fell across most of the State at mid week, with the northern half receiving the most. Snow fell in many northern valleys, Reno-Sparks received 1 to 3 in. Another storm arrived 4th night bringing widespread steady precipitation to the northern two-thirds of the State throughout the weekend. Up to a foot of snow fell in the northeast, up to three feet was reported in the Sierra Nevada where the snow level was about 7,000 feet. Precipitation totals for the week were heaviest in the north, which averaged about a quarter inch, while precipitation was almost nil in the extreme South. Great Basin N.P. recorded the most precipitation with 1.90 in. Other stations with over an inch included Glenbrook with 1.50 in., Wells with 1.20 in.. All climatic divisions had below normal temperatures. Northeast 8° below normal; the south 2° below. Extremes -4° Wells; 89° Laughlin.

Hay harvest winding down. Third cutting alfalfa 95% complete, 100% 1993, 99% avg. Fourth cutting being taken in areas with sufficient irrigation. Seventh cutting alfalfa active extreme South. Potato harvest nearly complete. Onion, corn silage harvests complete. Garlic planting complete. Winter wheat seeding 95% complete, 100% 1993, 90% avg. Cattle movement from fall ranges 70% complete, 65% 1993, 75% avg. Sheep movement 60% complete, 80% 1993, 85% avg. Main farm, ranch activities: Marketing, feeding, moving livestock; final haying; Grading, sorting, marketing crops.

NEW ENGLAND: Precipitation 0.10 to 2.86 in. regionwide. Temperatures 44 to 54° north; 52 to 59° south. Maximum temperatures 62 to 76° north; 60 to 81° south. Minimum temperatures 26 to 40° north; 26 to 44° south.

Field corn 99% harvested, condition excellent/good; third cut hay 99% harvested, condition good. Cranberries 100% harvested, condition of early varieties was fair, condition of later varieties was excellent. Major farm activities: Combining corn for grain, cleaning up after harvest, lime testing, preparing for winter.

NEW JERSEY: Temperatures much above normal. Extremes 30°; 81°. Rainfall 0.37 in. north, 0.41 in. central, 0.63 in. south. Heaviest 24 hour total 0.69 in. on 1st, 2nd. Estimated soil moisture, in percent field capacity, averaged 80% north, 79% central, 57% south. Four inch soil temperatures averaged 53° north, 55° central, 57° south.

Moderate, declining supply of cabbage, endive, escarole, lettuce (all types), turnips, parsley, herbs, spinach. Harvesting of field corn, soybeans continues with planting of small grains following harvest. The harvesting of sweet potatoes is finished.

NEW MEXICO: Temperatures generally above normal over the State except in the northwest portion. This was in spite of a mid week winter storm moving through the area. Precipitation 0.94 at Chama to none reported at Tucumcari. Southwest corner generally had smaller amounts with the larger amounts over the Rio Grande Valley, higher elevations.

Days suitable for fieldwork 6.2. Soil moisture is 71% short, 29% adequate. Cropland conditions: Alfalfa 9% fair, 77% good, 14% excellent. Chile 8% poor, 8% fair, 69% good, 15% excellent. Corn 16% poor, 21% fair, 58% good, 5% excellent. Irrigated sorghum 43% fair, 44% good, 13% excellent. Dryland sorghum 29% very poor, 42% poor, 29% fair. Cotton 6% poor, 31% fair, 44% good, 19% excellent. Pecans 11% poor, 56% fair, 22% good, 11% excellent. Cattle, sheep conditions ranged from very poor to excellent across the State. Range feed 49% of normal.

NEW YORK: Unseasonably warm. Week began mild with temperatures reaching into the 70s. Major storm brought widespread rain through the 2nd. Heaviest in west in north. Some areas received over 3.50 in. Cold air moved in as storm left. Many places didn't get out of the 40s, snow whitened the ground in spots. Warm air returned for 4th, 5th. Many record high temperatures were equalled or exceeded. Extremes 24°; 81°. Temperatures 6 to 10° above normal.

Corn harvest in full swing. Some hay still being baled. Late vegetable harvest continued. Apple harvest active. Cider making in high gear. Potatoes being graded, packed. Onions moved into storage. Pasture feed good.

NORTH CAROLINA: Mean temperature 57° at Asheville to 65° at Cape Hatteras. Rainfall traces at New Bern to 0.24 at Wilmington.

Days suitable for fieldwork 5.7. Soil 16% short, 80% adequate, 4% surplus. Crop conditions: Wheat 8% fair, 85% good, 7% excellent; oats 10% fair, 84% good, 6% excellent; barley 16% fair, 79% good, 5% excellent; rye 11% fair, 87% good, 2% excellent; pasture feed 2% poor, 32% fair, 56% good, 10% excellent; cotton 79% good, 21% excellent; soybeans 11% fair, 84% good, 5% excellent; hay, roughage supplies 8% short, 79% adequate, 13% surplus; feed grains supplies 4% short, 78% adequate, 18% surplus; sorghum harvested 95%, 85% 1993, 79% avg.; sweet potatoes harvested 92%, 78% 1993, 86% avg.; cotton harvested 63%, 72% 1993, 60% avg.; peanuts threshed 93%, 80% 1993, 89% avg.; soybeans harvested 23%, 17% 1993, 25% avg.; wheat planted 51%, 44% 1993, 41% avg.; oats planted 70%, 68% 1993, 63% avg.; barley planted 71%, 70% 1993, 71% avg.; rye planted 72%, 73% 1993, 62% avg.; soybeans leaf drop 92%, 88% 1993, 94% avg.; wheat emerged 34%, 29% 1993, 30% avg. Activities included: Harvesting sweet potatoes, corn, cotton, peanuts, soybeans, planting small grain. Other activities included: preparing land; tending livestock; equipment repair, general farm maintenance.

NORTH DAKOTA: Warm, dry across the State. Precipitation none central, southern third of State to 0.03 in. northwest. Temperatures 2° above normal west central, southwest to 6° northeast, east central. Extremes 11° northwest; 66° south central.

Days suitable for fieldwork 6.9. Soil moisture above average. Topsoil 4% short, 85% adequate, 11% surplus. Subsoil 1% very short, 10% short, 78% adequate, 11% surplus. Harvest of late season crops neared completion. Corn for grain 83% harvested, 76% 1993, 88% avg. Soybeans 97% combined, 100% 1993, 100% avg. Sunflower 81% harvested, 82% 1993, 92% avg. Range, pasture feed 85% of normal. Stockwater supplies 1% short, 92% adequate, 7% surplus.

OHIO: Warmer than normal weather occurred last week. Low pressure, a cold front produced windy damp weather over the weekend. Early in the week some wet snow was reported in the north. High temperatures upper 50s to low 60s in the north to the 60s, around 70 in the south, which was 3 to 8° above normal in the north, 5 to 9° above normal in the south. Lows averaged from the upper 30s to 40s in the north to the 40s in the south, which was 6 to 12° above normal. Coldest readings were in the mid 20s to low 30s in the northwest, the upper 20s to mid 30s in the south. Precipitation 0.20 to 0.80 in. in the south to 0.60 to 1.25 in. north, central. This was around 0.10 to 0.40 in. below normal in the southeast, 0.50 to 0.70 in. above normal in the northwest. Soil temperatures at the 4.00 in. depth averaged in the upper 50s, low 60s across much of State.

Days suitable for fieldwork 5.1. Soil moisture 60% short, 40% adequate. Soybean harvest, winter wheat planting are virtually complete. Corn harvest is advancing according to schedule. Corn moisture 20%. Sugarbeet harvest 90% complete. Pasture feed 4% very poor, 22% poor, 42% fair, 28% good, 4% excellent.

OKLAHOMA: Temperatures 2.3° below normal Panhandle to 1.6° above normal southwest. Precipitation 0.05 in. Panhandle district to 4.54 in. northeast.

Days suitable for fieldwork 4.8. Topsoil 15% short, 73% adequate, 12% surplus. Subsoil 31% short, 69% adequate. Soybeans 91% mature, 97% 1993, 86% avg.; 69% harvested, 57% 1993, 52% avg. Peanuts 12% fair, 88% good; 97% mature, 90% 1993, 98% avg.; 79% dug, 51% 1993, 73% avg.; 65% combined, NA 1993, NA avg. Cotton 69% harvested, 49% 1993, 26% avg. Wheat 5% fair, 81% good, 14% excellent; 97% planted, 98% 1993, 96% avg.; 88% up to stand, 87% 1993, 76% avg.; 7% grazed, 7% 1993, 5% avg. Pasture feed 90% normal. Prices for feeder steers, heifers were firm to \$2 per cwt. higher than previous week.

OREGON: Temperatures 2 to 4° below normal. Heavy precipitation statewide: coast 3.25 to 4.50 in., Willamette Valley 4.00 to 6.00 in., southwestern valleys 1.50 to 3.00 in., northeastern sections 1.00 to 2.00 in., elsewhere 0.25 to 0.75 in.

Soil moisture short to adequate. 1995 winter wheat crop 85% planted, 53% emerged. Winter wheat 1% poor, 32% fair, 61% good, 6% excellent. Fall herbicide, fertilizer applications slowed due to heavy precipitation. Columbia Basin of Oregon: Onion, carrot, lima bean harvest mostly completed. Willamette Valley: Squash, pumpkin, cole crops harvest continued, hazelnut, walnut harvest finished, apple, grape harvest nearly complete. Dormant spraying underway pear, apple orchards, Willamette, Rogue, Hood River valleys. Southern coast: Recent rains filled cranberry bogs, harvest mostly completed. Livestock good. Ranges, pastures received good rainfall. Supplemental feeding continued statewide, some hay supplies getting low. Fall cattle work continued. Range, pasture feed poor to good.

PENNSYLVANIA: Warm temperatures across State. First above normal rainfall since September. Many farmers said this has been the best fall harvest conditions they can remember. Temperature 59°, 12° above normal. Extremes 21°, 79°. Precipitation 1.25 in., 0.57 in. above normal.

Days suitable for fieldwork 5. Soil moisture 13% short, 82% adequate, 5% surplus. Ensilage corn harvested 97% complete, 97% 1993. Soybean harvest 80% complete, 49% 1993. Potato harvest 98% complete, 98% 1993. Fall plowing 93% complete, 88% 1993. Wheat planted 97% complete, 97% 1993. Barley planted 100% complete, 100% 1993. Fourth cutting alfalfa 88% complete, 81% 1993. Quality of hay made 36% poor, 54% fair, 10% good. Feed from pastures good to excellent. Apple harvest 97% complete, 92% 1993. Activities: Making hay; harvesting potatoes, soybeans, corn grain, corn silage; plowing; cleaning, repairing equipment; fixing fences; hauling manure; caring for livestock.

PUERTO RICO: Rainfall 0.71 in. was 0.94 in. below normal. Highest total rainfall 4.63 in. at Sabana Grande, 4.20 in. at Maricao 2 SSW, 2.06 in. at Toro Negro. Island temperatures 79 to 80° on the coasts, 76 to 77° interior with mean station temperature 83.1° at Roosevelt Roads to 72.5° at Aibonito. Extremes 59°, 95°.

SOUTH CAROLINA: Rainfall 0.40 in. Temperatures 5° above normal in Upstate, 6° above normal in Lowcountry.

Days suitable for fieldwork 5.9. Soil moisture 19% short, 81% adequate. Tobacco 98% stalks destroyed, 98% 1993, 96% avg. Corn fair to good; 99% harvested, 100% 1993, 100% avg. Cotton 2% fair, 85% good, 13% excellent; 99% open bolls, 100% 1993, 100% avg.; 51% harvested, 73% 1993, 60% avg. Soybeans 14% fair, 79% good, 7% excellent; 96% leaves turning, 98% 1993, 98% avg.; 74% dropping leaves, 85% 1993, 85% avg.; 64% mature, 68% 1993, 73% avg. Apples good; 96% harvested, 95% 1993, 97% avg. Barley 48% planted, 64% 1993, 51% avg.; 31% emerged, 44% 1993, 37% avg. Oats 56% planted, 68% 1993, 55% avg.; 41% emerged, 52% 1993, 39% avg. Peanuts 85% harvested, 79% 1993, 88% avg. Rye 45% planted, 74% 1993, 58% avg. Rye 34% emerged, 59% 1993, 44% avg. Sweet potatoes 54% harvested, 76% 1993, 77% avg. Winter wheat 24% planted, 16% 1993, 15% avg.; 10% emerged, 10% 1993, 7% avg. Sorghum good; 59% harvested, 71% 1993, 75% avg. Fall hay good; 93% harvested, 93% 1993, 93% avg. Pasture feed 4% poor, 20% fair, 66% good, 10% excellent.

SOUTH DAKOTA: Temperatures near to slightly below normal, except isolated areas in the east, north. Extremes 8°, 74°. Precipitation as snowfall heaviest southwest, Black Hills. Heaviest 1.26 in. Black Hills.

Days suitable for fieldwork 6.0. Topsoil 16% short, 79% adequate, 5% surplus. Subsoil 1% very short, 25% short, 65% adequate, 9% surplus.

Winter rye 5% fair, 74% good, 21% excellent. Livestock 1% fair, 85% good, 14% excellent. Feed supply 7% short, 79% adequate, 14% surplus. Pasture feed 79% of normal. Stockwater supply 2% short, 85% adequate, 13% surplus.

TENNESSEE: Cold front moved quickly through State 31st, early 1st accompanied by numerous light showers, followed by much cooler air. High pressure dominated State weather 2nd through 4th. Warmer air spread into the State by 3rd afternoon. A cold front moved rapidly through the State 5th to 6th, preceded by numerous showers, some very heavy. Cooler air followed the front.

Days suitable for fieldwork 5.5. Soil moisture 13% short, 86% adequate, 1% surplus. Corn 93% grain harvest, 93% 1993, 91% avg.; Cotton 76% harvested, 88% 1993, 80% avg. Burley 50% stripped, 45% 1993, 50% avg.; soybeans 90% mature, 97% 1993, 93% avg.; 56% harvested, 58% 1993, 59% avg.; wheat 68% seeded, 68% 1993, 68% avg. Pastures feed 2% poor, 26% fair, 66% good, 6% excellent. Cattle 13% fair, 82% good, 5% excellent.

TEXAS: Cold fronts, early, late in the week resulted in rainfall. The second front produced some severe weather over North Central Texas. Cooling followed the second front with some freezing temperatures reported in the Panhandle. However, mild to warm weather prevailed much of the week. Week temperatures ran below normal Southern Plains and near to slightly above normal elsewhere. Rainfall totals were slightly above normal in west, north, central areas, below normal in east, south.

Crops: Cotton harvest operations increased in the Plains during the week, but were delayed in some areas by humid conditions, wet fields. Warm temperatures in the Trans-Pecos allowed harvest activities to also increase. Cotton was 65% normal, 75% 1993; 98% bolls open, 98% 1993. Peanut harvest resumed in most areas. Some vine, pod damage resulted from excessive rains; however, most yields, grades are remaining good. Harvest was slow in scattered areas because of wet ground from previous rains. Statewide peanut condition was 74% normal, 63% 1993. Sorghum: mild temperatures in the Plains, allowed harvest to continue to push toward completion. A few areas were delayed due to light rain at end of week. Sorghum 99% mature, 100% 1993. Soybeans: wet fields along the Upper Coast continued to cause delay harvest activities. Elsewhere, fields began to dry, harvest proceeded. Small grains: early planted small grains showed good growth over most areas. Planting, application of fertilizers, herbicides continued where weather conditions allowed. Some fields were replanted in areas where excessive moisture was received. Army worms were still causing problems in some fields in South Central Texas. Wheat condition 71% normal, 72% 1993. Sugarbeets: 46% harvested, 46% 1993.

Commercial Vegetables: Rio Grande Valley cucumber, citrus harvest resumed as fields began to dry out. Onions continued to make good progress. San Antonio-Winter Garden-harvest of spinach, cabbage continued. Trans-Pecos: planting of fall onions was winding down. East Texas: winter vegetables made good progress. Harvest of sweet potatoes was nearly completed. Pecan harvest continued as weather conditions allowed. In Trans-Pecos, nuts still in the shuck continued to drop.

Range and Livestock: Winter ranges, pastures continued to improve. Producers repairing fences damaged by recent floods southeastern part of State. Stocker movement onto small grain pastures began on a limited basis across the Plains. Livestock remained in fair to good condition.

UTAH: Temperature 4° below normal; minimums 3° below normal. Precipitation light to heavy throughout the entire State.

Major farm, ranch activities were fall tilling, plowing, planting winter wheat, harvesting corn grain, baling alfalfa, shipping onions, weaning calves, shipping calves.

VIRGINIA: Temperatures 4 to 8° above normal. Extremes 23°, 81°. Precipitation normal to above normal.

Days suitable for fieldwork 6.9. Topsoil 44% short, 54% adequate, 2% surplus. Pasture feed 21% poor, 48% fair, 31% good. Corn for grain harvest 89%, 89% 1993, 89% avg. Soybean 41% fair, 58% good, 1% excellent. Soybeans harvest 37%, 35% 1993, 48% avg. Small grain, grazing crop condition 7% poor, 56% fair, 35% good, 2% excellent. Cotton harvested 48%, 68% 1993, 50% avg. Winter apples harvested 100%, 92% 1993, 95% avg. Wheat seeded 60%, 56% 1993, 61% avg. Oats seeded 100%, 97% 1993, 94% avg. Barley seeded 92%, 91% 1993, 90% avg. Sweet potato harvest 89% completed. Forage from pastures,

(Continued to back cover)

October 1994

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
*** = DATA NOT AVAILABLE

International Weather and Crop Summary
HIGHLIGHTS

October 30 - November 5, 1994

FSU-WESTERN: Bitter cold covered winter grain areas as far south as the Black Sea Coast, halting crop growth.

NORTHWESTERN AFRICA: Light showers increased topsoil moisture for winter grain planting.

EUROPE: Heavy rain over southern France and the Piedmont region of northern Italy caused local flooding and delayed corn harvesting.

SOUTH ASIA: A cyclone brought inundating rain and flooding to coastal rice areas of southeastern India.

SOUTHEAST ASIA: Needed rain covered Java's main rice areas.

SOUTH AFRICA: Rain boosted planting moisture over most of the corn belt.

EASTERN ASIA: Dry weather favored summer crop harvesting across most of China.

AUSTRALIA: Rain benefited late filling wheat across southern wheat areas, while dry weather stressed western wheat.

SOUTH AMERICA: Showers continued to boost soil moisture for summer crop planting in southern Brazil and portions of central Argentina.

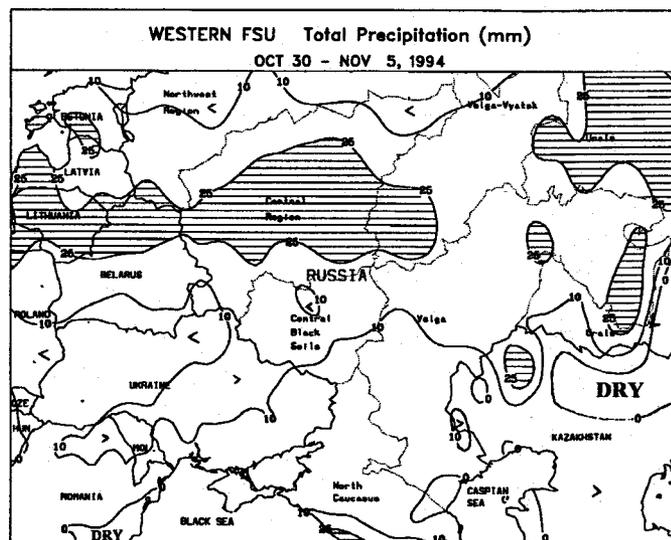
MEXICO: Mostly dry weather favored summer crop harvesting across the main corn belt.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	8	1	16	-8	4	-0.6	59	-42
SWEDEN	STOCKHOLM	9	4	14	-6	6	-1.2	54	4
FINLAND	HELSINKI	8	2	15	-10	5	-0.4	76	3
U KING	GLASGOW	13	6	17	-1	9	-0.6	64	-66
	EDINBURGH	13	6	19	-2	9	-0.2	64	-1
	BIRMINGHAM	14	6	18	-1	10	-0.5	62	10
	LONDON	15	6	18	-1	10	-0.4	102	29
IRELAND	DUBLIN	13	7	18	-1	10	-0.6	50	-20
ICELAND	REYKJAVIK	6	2	10	-4	4	-0.6	68	-18
DENMRK	COPENHAGEN	11	5	14	-4	8	-1.4	37	-22
LUXEMB	LUXEMBOURG	13	6	20	-1	10	0.2	59	-17
SWITZL	ZURICH	14	7	21	1	10	0.6	74	4
	GENEVA	15	8	22	0	12	1.6	96	22
FRANCE	PARIS/ORLY	16	7	24	1	12	***	52	**
	STRASBOURG	15	5	23	-1	10	0.0	39	-4
	BOURGES	17	9	25	2	13	1.5	38	-21
	BOURDEAUX	20	11	25	4	15	1.8	61	-26
	TOULOUSE	19	11	24	3	15	1.4	31	-21
	MARSEILLE	20	12	24	6	16	0.3	139	61
SPAIN	VALLADOLID	19	9	25	3	14	0.9	59	23
	MADRID	21	10	26	4	15	0.8	36	-17
	SEVILLE	26	16	31	12	21	1.1	29	-38
PORTUG	LISBON	22	16	26	11	19	0.5	67	-9
GERMNY	HAMBURG	12	5	17	-3	8	-1.3	60	-3
	BERLIN	12	5	17	-2	9	-1.5	29	-7
	DUSSELDORF	14	6	21	-2	10	-0.4	72	20
	LEIPZIG	13	5	18	-2	9	-0.8	30	-13
	DRESDEN	12	5	19	-3	9	-0.5	32	-20
	STUTTGART	14	4	21	-1	9	-0.4	32	-9
	NURNBERG	13	4	20	-2	8	-0.6	40	-5
AUSTRI	VIENNA	12	5	22	-3	9	-1.2	65	15
	INNSBRUCK	15	4	23	-2	10	0.3	28	-25
CZECH	PRAGUE	11	3	18	-5	7	-1.8	16	-14
POLAND	WARSAW	10	3	18	-5	7	-1.6	68	30
	LODZ	11	3	19	-6	7	-1.1	59	20
	KATOWICE	12	2	20	-6	7	-0.9	72	18
	PRZEMYSL	11	4	21	-4	8	-1.0	84	41
HUNGAR	BUDAPEST	14	6	26	-2	10	-1.1	50	17
F YUGO	BELGRADE	17	8	30	1	12	-0.2	36	-6
ROMANI	BUCHAREST	17	6	30	-2	11	-0.1	155	125
BULGAR	SOFIA	16	8	29	3	12	1.3	58	20
ITALY	MILAN	18	9	26	4	14	0.6	64	-40
	VERONA	18	10	26	6	14	0.8	66	-12
	VENICE	18	10	25	3	14	0.1	51	-20
	GENOA	20	14	25	9	17	-0.9	148	-24
	ROME	22	12	26	3	17	0.2	49	-43
	NAPLES	23	14	30	9	19	2.3	28	-103
GREECE	THESSALONIKA	22	14	30	9	18	1.8	78	39
	LARISSA	22	13	33	8	18	1.7	89	42
	ATHENS	26	18	31	15	22	2.7	62	3
TURKEY	ISTANBUL	22	16	30	12	19	3.5	79	15
	ANKARA	21	6	30	-2	14	2.1	31	13
CYPRUS	LARNACA	30	20	34	16	25	3.1	5	-21
ESTONI	TALLINN	8	3	13	-6	6	-0.6	79	13
FSU	ST. PETERSBERG	8	3	13	-5	5	-0.4	53	-10
LITHUA	KAUNAS	9	3	17	-5	6	-1.0	57	8
FSU	MINSK	9	2	19	-8	6	-0.7	43	-5
	KAZAN	8	2	22	-4	5	1.2	38	-8
	MOSCOW	9	2	17	-7	5	0.2	72	17
	YEKATERINBURG	10	4	19	-5	7	4.9	14	-27
	OMSK	11	2	24	-6	6	4.4	13	-19
	KUSTANAY	13	1	22	-8	7	4.0	5	-21
	KRASNOYARSK	**	**	18	-2	**	***	**	**
	NOVOSIBIRSK	8	1	20	-5	5	3.8	32	1
	BARNAUL	9	0	20	-8	4	1.8	26	-24
	KHABAROVSK	11	2	19	-7	6	1.8	54	8
	VLADIVOSTOK	13	7	18	0	10	2.2	75	21
	KIEV	12	4	22	-7	8	0.2	26	-7
	LNOV	11	3	20	-5	7	-0.7	105	59
	KIROVOGRAD	13	5	24	-6	9	0.7	56	24

Based on Preliminary Reports

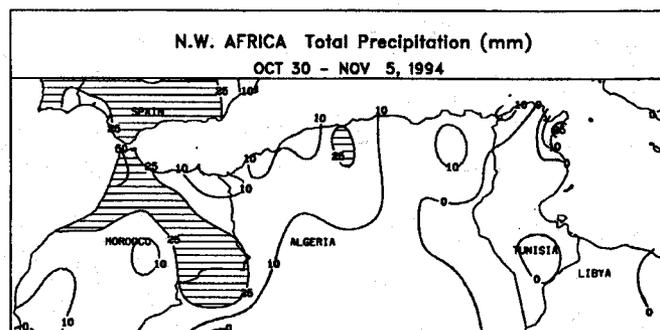
October 1994

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)				
		AVG	AVG	HI	LO	DPART	DPART	TOTAL	F/NRM			AVG	AVG	HI	LO	DPART	DPART	TOTAL	F/NRM		
		MAX	MIN	MAX	MIN	AVG	F/NRM	F/NRM	F/NRM			MAX	MIN	MAX	MIN	AVG	F/NRM	F/NRM	F/NRM	F/NRM	
FSU	ODESSA	16	10	24	-1	13	1.6	42	18	KENYA	NAIROBI	27	14	29	9	20	0.7	51	8		
	YALTA	21	14	28	4	17	3.0	7	-40		TANZAN	DAR ES SALAAM	31	21	35	19	26	0.9	38	-29	
	SARATOV	12	4	23	-5	8	3.5	6	-26		GABON	LIBREVILLE	28	23	30	20	25	-0.4	283	-123	
	KHARKOV	13	6	25	-7	9	1.9	29	-6		TOGO	LOME	30	24	32	21	27	0.7	126	27	
	VOLGOGRAD	15	6	27	-8	10	2.8	14	-17		B FASO	OUAGADOUGOU	34	23	37	21	28	-0.6	63	32	
	ROSTOV	18	8	29	-3	13	3.3	11	-22		IVRY C	ABIDJAN	30	**	32	23	**	***	411	277	
	ASTRAKHAN	19	7	28	-5	13	3.8	7	-8		MOZAMB	MAPUTO	25	18	33	14	21	-1.0	92	29	
	KRASNOGAR	20	8	31	-3	14	2.6	33	-3		ZAMBIA	LUSAKA	30	16	34	11	23	-1.5	26	15	
	ORENEURG	13	2	25	-9	8	3.4	6	-35		ZIMBAB	HARARE	26	14	32	8	20	-0.5	63	27	
	TSELINOGRAD	12	0	24	-8	6	2.7	1	-16		S AFRI	PRETORIA	26	13	34	8	19	-0.6	71	-3	
	KARAGANDA	11	0	23	-7	6	2.8	9	-24		JOHANNESBURG	23	9	29	4	16	-0.1	98	23		
	TBILLISI	21	10	27	3	15	1.9	43	3		BETHAL	22	8	31	0	15	-2.3	35	-41		
	TASHKENT	22	8	30	0	15	2.2	3	-31		DURBAN	23	16	29	12	20	-0.6	91	-8		
	ASHKHABAD	23	9	33	3	16	1.1	28	11		CAPE TOWN	23	11	30	6	17	1.2	13	-20		
	SYRIA	DAMASCUS	30	13	34	8	21	2.9	11		-1	CANADA	TORONTO	16	4	24	-2	10	1.0	28	-35
	ISRAEL	JERUSALEM	28	17	38	12	22	2.4	17		-14	MONREAL	15	4	24	-3	10	1.2	20	-56	
	PAKIST	KARACHI	35	19	40	14	27	-0.8	0		0	WINNIPEG	13	4	18	-6	8	2.4	91	62	
	INDIA	AMRITSAR	30	15	38	10	22	-1.9	6		-9	REGINA	13	1	23	-10	7	1.6	22	2	
		NEW DELHI	33	18	35	12	25	-1.0	0		-17	SASKATOON	12	-1	20	-13	6	0.7	19	2	
		AHMEDABAD	36	20	38	17	28	-0.7	0		-17	LEATHERIDGE	12	1	21	-6	6	-1.2	76	60	
	INDORE	33	18	37	15	25	0.3	0	-41	CALGARY	11	-1	21	-8	5	-1.1	32	16			
	CALCUTTA	33	24	35	21	29	0.8	120	-12	EDMONTON	11	0	18	-8	5	-0.5	**	**			
	VERAVAL	35	23	39	20	29	1.5	0	-14	VANCOUVER	14	7	20	3	10	0.2	112	-3			
	BOMBAY	34	24	35	20	29	1.0	79	-38	MEXICO	GUADALAJARA	26	16	31	10	21	1.7	99	29		
	POONA	31	19	34	14	25	0.3	120	54	MEXICO CITY	24	12	28	10	18	3.0	54	19			
	BEGAMPET	30	21	33	19	26	0.1	241	147	ACAPULCO	33	25	35	20	29	0.7	81	-58			
	VISHAKHAPATNAM	30	25	32	22	28	***	330	**	BERMUD	ST. GEORGES	27	22	29	16	24	-0.2	265	104		
	MADRAS	32	25	36	22	28	0.1	409	127	BAHAMA	NASSAU	31	23	34	18	27	0.8	19	-155		
	MANGALORE	32	24	34	22	28	0.7	299	93	CUBA	HAVANA	**	**	33	23	**	***	**	**		
H KONG	KINGS PEAK	28	22	32	16	25	***	5	**	JAMAIC	KINGSTON	33	25	35	23	29	1.2	32	-131		
N KREA	PYONGYANG	18	6	23	-4	12	0.2	134	82	P RICO	SAN JUAN	32	25	35	23	28	0.5	90	-55		
S KREA	SEOUL	20	11	26	3	16	2.4	214	165	GUADEL	RAIZET	32	23	33	22	27	0.8	62	-84		
JAPAN	SAPPORO	17	9	23	2	13	1.9	130	14	MARINO	LAMENTIN	31	24	33	21	27	1.0	68	-175		
	NAGOYA	25	16	29	11	20	3.3	74	-43	BARBAD	BRIDGETOWN	30	24	31	22	27	-0.1	78	-90		
	TOKYO	23	18	28	12	20	2.8	59	-106	TRINID	PORT OF SPAIN	32	23	33	22	28	1.2	106	-87		
	YOKOHAMA	23	18	28	12	20	3.1	80	-107	COLOMB	BOGOTA	**	**	24	1	**	***	**	**		
	KYOTO	25	16	30	10	20	3.1	51	-66	VENEZU	CARACAS	31	24	33	23	28	0.5	177	129		
	OSAKA	25	18	32	12	21	3.1	30	-80	F GUIA	CAYENNE	32	22	33	21	27	0.5	24	-54		
THAILN	PHETCHABUN	32	21	35	15	27	-0.4	75	-20	BRAZIL	FORTALEZA	**	**	30	22	**	***	4	-11		
	BANGKOK	32	23	34	19	28	-0.3	156	-82	RECIFE	**	**	29	20	**	***	21	-34			
MALAYS	KUALA LUMPUR	32	24	35	22	28	1.4	377	105	BELO HORIZONTE	29	19	34	16	24	1.5	46	-76			
VIEBIM	HANOI	29	22	32	16	25	0.2	77	-22	CAMPO GRANDE	32	20	38	16	26	1.2	200	81			
CHINA	HARBIN	12	1	21	-7	7	1.2	18	-4	FRANCA	30	19	34	16	24	4.5	226	65			
	HAMI	17	0	27	-6	8	-1.7	3	1	LONDRI	NA	**	18	34	14	**	***	178	12		
	LANCHOW	15	4	22	-2	9	-0.4	22	-2	SANTA MARIA	24	16	33	7	20	1.2	223	77			
	BEIJING	20	9	26	2	15	1.6	10	-9	PORTO ALEGRE	24	16	34	7	20	0.8	132	13			
	TIENHSIN	20	8	27	1	14	-0.6	10	-10	PERU	LIMA	22	16	28	14	19	1.4	0	0		
	LHASA	18	2	22	-2	10	1.0	0	-9	BOLIVI	LA PAZ	16	2	19	-4	9	-1.0	35	-2		
	KUNMING	21	12	25	7	17	1.4	58	-27	CHILE	SANTIAGO	22	7	29	2	15	0.3	5	-8		
	CHENGCHOW	22	9	32	-1	16	0.6	63	14	ARGENT	IGUAZU	29	18	36	14	24	***	238	**		
	YEHCHANG	21	14	24	8	17	-0.8	31	-56	FORMOSA	29	20	38	14	25	2.0	165	45			
	HANKOW	22	14	30	7	18	0.2	18	-70	CERES	25	15	32	9	20	0.1	83	13			
	CHUNGKING	20	15	25	10	18	***	111	**	CORDOBA	23	12	34	7	18	-0.4	83	11			
	CHIHKIANG	20	13	28	5	17	-1.2	264	159	RIO CUARTO	21	11	31	1	16	-0.7	196	119			
	WU HU	23	13	33	5	18	***	44	**	ROSARIO	23	12	29	5	18	0.2	90	-1			
	SHANGHAI	22	16	29	8	19	***	124	**	BUENOS AIRES	21	11	26	5	16	0.1	84	-24			
	NANCHANG	23	16	33	10	19	-0.3	66	8	SANTA ROSA	22	9	28	3	16	-0.2	121	51			
	TAIPEI	26	22	31	18	24	0.6	208	86	TRES ARROYOS	19	8	25	0	13	-0.6	58	-25			
	CANTON	29	21	33	14	25	0.7	13	-66	N CALD	NOUMEA	26	19	28	16	22	0.1	1	-52		
	NANNING	28	19	32	12	24	-0.1	9	-62	FILJI	NAUSORI	25	20	28	16	23	-1.6	34	-177		
CNRY I	LAS PALMAS	26	19	31	16	23	0.0	47	35	SAMOA	PAGO PAGO	29	25	32	23	27	0.2	370	97		
MOROCC	CASABLANCA	23	17	27	14	20	0.7	36	4	TAHITI	PAPEETE	30	23	32	21	27	1.1	67	-24		
	MARRAKECH	26	15	33	13	21	-0.1	34	17	PA N G	PORT MORESEY	30	23	34	19	26	-0.9	1	-41		
ALGERI	ALGER	25	16	31	11	20	1.4	45	-62	AUSIRL	DARWIN	32	25	34	24	28	-0.6	35	-44		
	BATNA	22	10	27	5	16	1.3	35	6	MOREE	27	12	34	5	20	0.4	16	-31			
TUNISI	TUNIS	26	17	29	12	21	1.1	38	-29	BRISBANE	24	14	32	9	19	-1.6	43	-61			
NIGER	NIAMEY	36	25	40	22	31	0.3	15	4	PERTH	22	11	30	4	16	-0.1	8	-40			
MALI	TIMBUKTU	**	**	38	**	**	***	1	-1	CEDUNA	24	11	39	4	17	0.2	24	2			
	BAMAKO	33	22	39	21	27	-0.2	71	4	ADELAIDE	20	11	33	6	16	-0.1	52	15			
MAURIT	NOUAKCHOTT	35	23	39	18	29	0.2	5	-3	MELBOURNE	19	8	32	2	13	-0.5	36	-24			
SENEGL	DAKAR	31	25	36	24	28	0.2	7	-28	WAGGA	22	8	31	2	15	1.0	64	7			
CHAG A	DIEGO GARCIA	30	26	34	23	28	1.2	298	5	CANBERRA	20	6	29	-2	13	0.1	38	-24			
LIBYA	TRIPOLI	29	19	37	15	24	1.2	22	-23	INDONE	DJAKARTA	34	23	40	21	29	1.1	5	**		

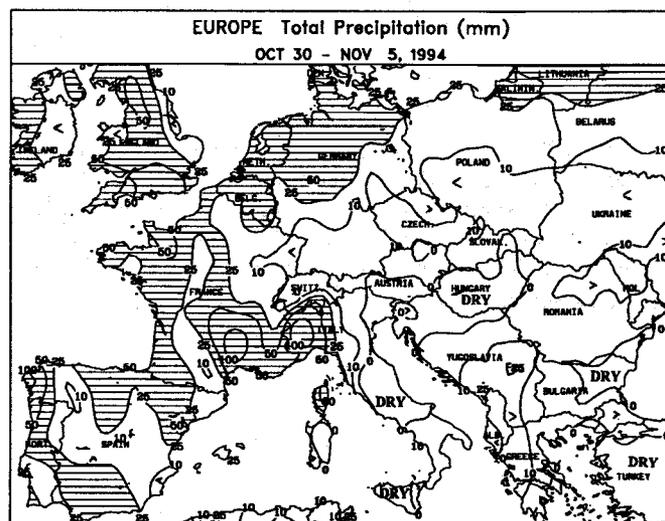


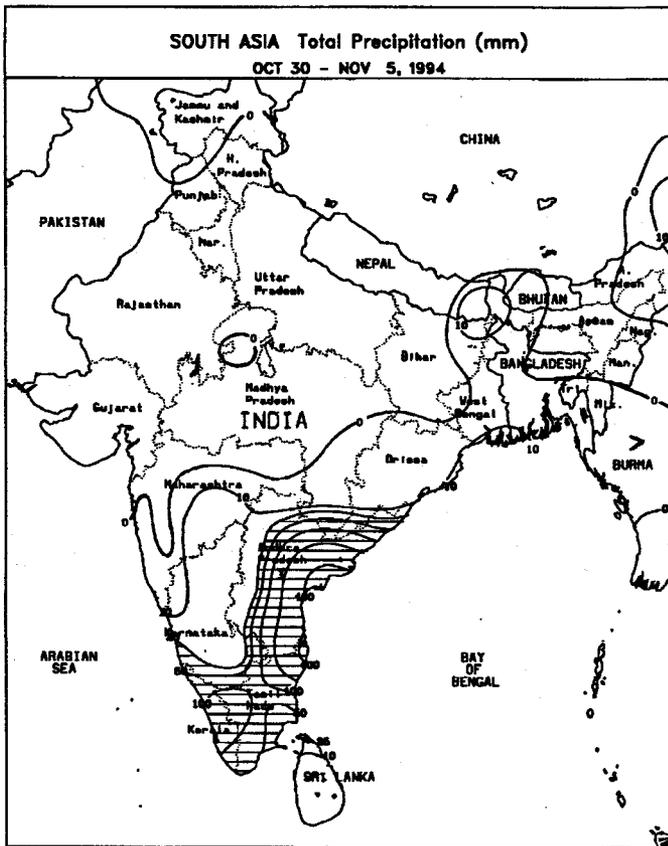
FSU-WESTERN: Light to moderate precipitation (10-25 mm, with local amounts in excess of 40 mm) occurred along a cold front that stretched eastward from the Baltic States and Belarus, through northern Russia. The precipitation began as rain that turned to snow as the week progressed. By week's end, the cold front pushed southward, covering winter grains as far south as the Black Sea Coast. While the front brought little, if any (less than 10 mm) precipitation to drought stricken winter wheat areas in southern and eastern Ukraine, and southern Russia (North Caucasus and lower Volga Valley) it ushered in the coldest weather of the season. On November 5, minimum temperatures across Ukraine and southern Russia ranged from -5 to -10 degrees C. Minimum temperatures ranged from -10 to -17 degrees C across northern Russia. This past week's cold snap over Ukraine and southern Russia further hampered winter grain emergence and establishment, increasing the crop's vulnerability to potential winterkill conditions.

EUROPE: Wet weather (15-60 mm) over England, most of France, the Netherlands, Belgium, northern Germany, and Spain continued to slow corn and sugarbeet harvesting. Moderate to heavy rain (32-78 mm, with local amounts in excess of 100 mm) fell over southern France and the Piedmont region in northern Italy, causing local flooding and delaying corn harvesting. In contrast, generally dry weather (less than 10 mm) from southern Germany through most of the eastern Europe helped sugarbeet harvesting. Reports indicate soil moisture levels over most of Europe are currently adequate for winter grain emergence and establishment. Weekly average temperatures were 2-4 degrees C above normal over most of Europe promoting further growth of winter grains.

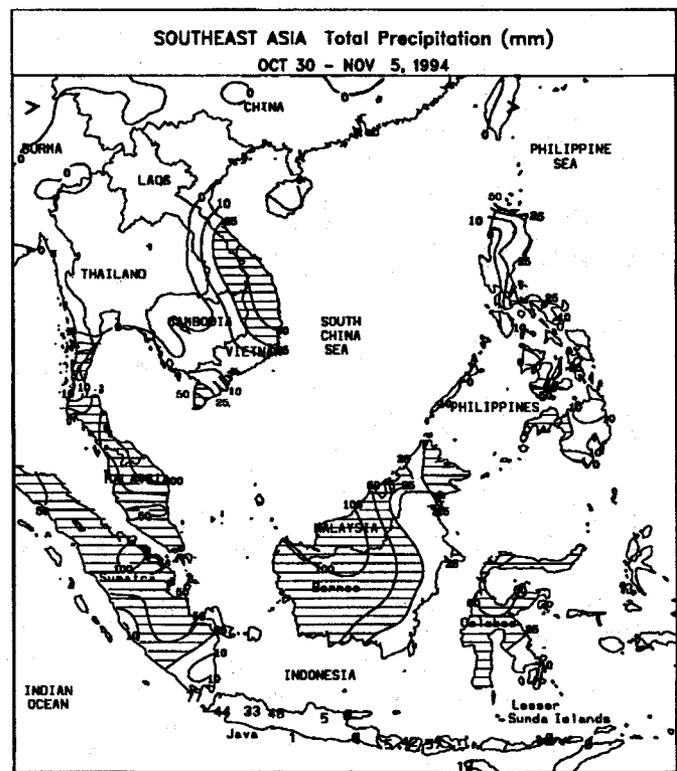


NORTHWESTERN AFRICA: Winter grain planting was in the early stages over most of the region. Light to moderate showers (10-33 mm) over Morocco and western Algeria increased topsoil moisture levels for planting. Lesser amounts of rain (1-10 mm) fell over eastern Algeria and northern Tunisia. Weekly average temperatures were 2-4 degrees C above normal over Morocco, Algeria, and Tunisia.



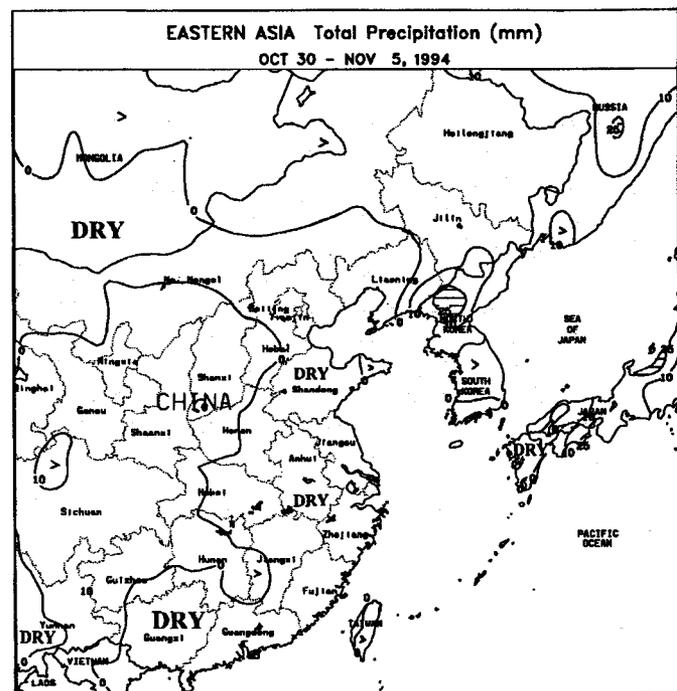


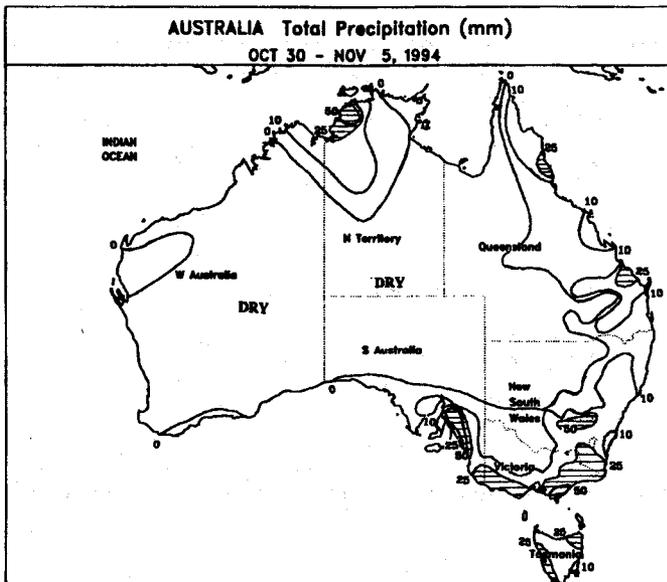
SOUTH ASIA: A tropical cyclone brought inundating rain (100-300 mm, with local totals 400-550 mm) to rice areas along India's southeastern coast (northeastern Tamil Nadu and Andhra Pradesh). However, flooding and potential crop damage were limited to coastal areas as most interior crop areas received less than 25 mm. In the affected areas, main season (kharif) rice harvesting was likely underway with second-season (rabi) rice planting just beginning. The rain did not reach rice areas of eastern India nor Bangladesh, which have crop calendars similar to the southeast coast. Elsewhere, main season grain, oilseed, and cotton harvests progressed, as did winter grain and oilseed planting across the north.



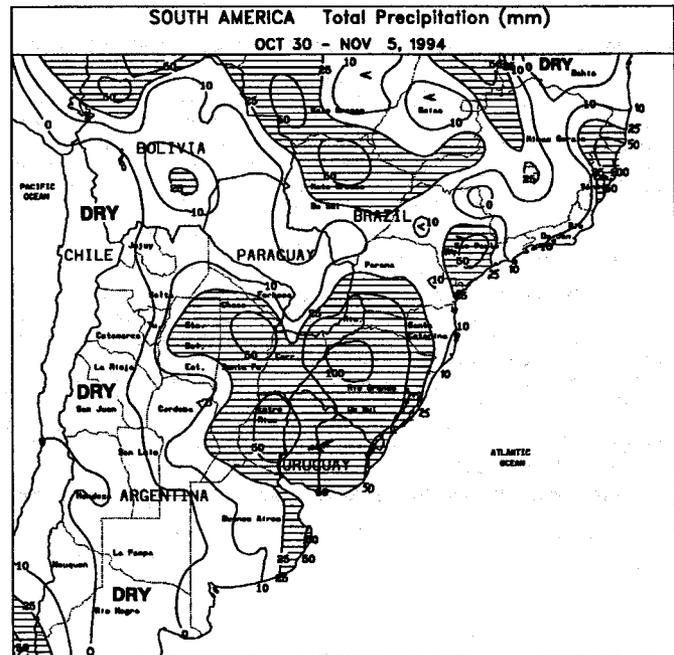
SOUTHEAST ASIA: The first beneficial showers of the season reached Java, with rainfall in western rice areas ranging from 25-120 mm. The eastern third of the island received 5-25 mm. While the rains are encouraging following a severe drought, and will spur planting activities, more widespread rain is needed to ensure proper germination and establishment. To the north, moderate to heavy rain (50-100 mm or more, with local accumulations exceeding 200 mm) covered Malaysia and much of the Thai Peninsula, benefiting rice, oil palm, and other plantation crops. Dry weather benefited maturing grains and sugarcane over Indochina's main growing areas, although seasonable rain (25-78 mm) over central Vietnam increased moisture for winter rice. In the Philippines, scattered showers (10-25 mm or more, with a few locations reporting more than 50 mm) benefited secondary grains.

EASTERN ASIA: Dry weather prevailed across the primary summer crop areas of China and South Korea, as harvesting rapidly advanced. Scattered light to moderate rain (5-30 mm) caused only minor rice harvesting delays across Japan. Mild temperatures (2-4 degrees C above normal) promoted vegetative winter wheat across the North China Plain.

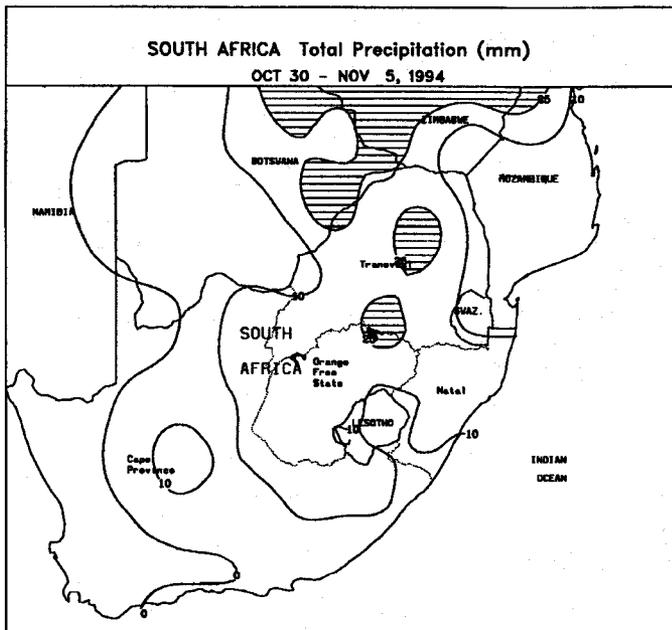




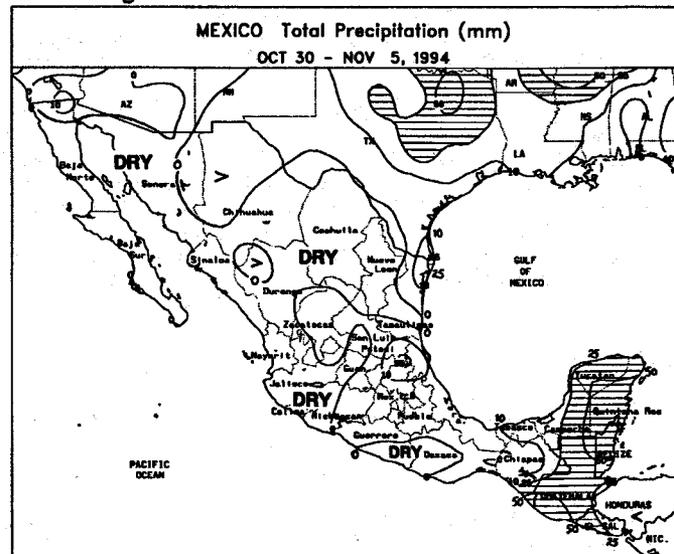
AUSTRALIA: Light to moderate rain (10-30 mm, with isolated amounts greater than 50 mm) covered the southern wheat areas (South Australia, Victoria, and southern New South Wales), benefiting late-filling wheat. Scattered light to moderate rain (5-20 mm) fell across southern Queensland and northern New South Wales, helping to boost topsoil moisture for summer crop planting. However, much more and widespread rains are needed in the east. Dryness prevailed across the western wheat areas, stressing late-filling wheat. Temperatures averaged near normal in the west and 2-4 degrees C below normal across the east.



SOUTH AMERICA: Moderate showers (20-70 mm) fell across most of the primary soybean areas of southern Brazil, increasing soil moisture for planting. Drier weather (2-15 mm) prevailed across southern Minas Gerais, central and western Sao Paulo, and northern Parana. This region continued to experience above normal temperatures (2-4 degrees C), which increased evaporation. Heavy showers (70-150 mm) possibly caused some flooding in Rio Grande do Sul. In Argentina, moderate showers (30-50 mm) spread from eastern Buenos Aires into Santa Fe and Entre Rios, boosting topsoil moisture for summer crop planting and benefiting filling wheat. However, drier weather (2-15 mm) prevailed across the remainder of Buenos Aires, eastern La Pampa, and southern Cordoba. Moderate to heavy showers (40-80 mm) increased soil moisture for cotton planting in northern Argentina, but slowed planting progress. Temperatures averaged near to slightly below normal across the crop areas of Argentina.



SOUTH AFRICA: Light to moderate rain (10-25 mm or more) covered most of the corn belt. In the east, where local accumulations reached 35 mm, early conditions are generally favorable for germination. In the west, while the moisture was beneficial for planting, more is needed following an exceptionally dry winter. Rainfall was unfavorably light (4-24 mm) in Natal's sugarcane areas.



MEXICO: Mostly dry weather prevailed across the main corn belt, aiding summer crop maturation and harvesting. Light showers (8-15 mm, with local amounts greater 40 mm) fell across east-central Mexico, benefiting sugarcane and coffee. Widespread showers (20-70 mm) fell across the Yucatan Peninsula, benefiting reproductive to filling corn. Temperatures were near normal across the main corn belt and 2-4 degrees C above normal across north-central and northeast Mexico.

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 Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250. Order subscriptions from the office and address listed above. First class postage paid at Washington, DC, and additional mailing offices.

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(Continued from p.14)

winter grazing crops dairy cattle 25%, beef cattle 87%, sheep 90%. Burley, dark-fired tobacco stripping, grading. Feeder cattle sales are underway. Producers continued with crop harvesting. Fall applications of lime, pesticides to pastures continued.

WASHINGTON: Temperatures 5 to 8° below normal west; 8 to 11° below normal east. Precipitation 1.43 to 3.52 in. west; 0.07 to 3.34 in. east. Colder temperatures than normal throughout the State.

Days suitable for fieldwork 4.3. Soil moisture 75% short, 23% adequate, 2% surplus. Hay, other roughage supplies 1% very short, 12% short, 87% adequate. Range, pasture feed 30% very poor, 52% poor, 10% fair, 8% good. Winter wheat, dryland 4% very poor, 36% poor, 40% fair, 20% good; irrigated, 16% fair, 65% good, 19% excellent. Corn 12% fair, 88% good. Winter wheat 93% planted, 99% 1993, 98% avg.; 67% emerged, 89% 1993, 92% avg. Potatoes 98% harvested, 98% 1993, 97% avg. Corn grain 77% harvested, 55% 1993, 53% avg. High precipitation received in many areas of the State, slowing unfinished fieldwork and unharvested crops. Warmer temperatures needed to germinate late seeded wheat. Colder temperatures, early snow resulted in increased feed rations for livestock. Cranberry harvest completed.

WEST VIRGINIA: Temperature 57°. Extremes 25°; 84°. Precipitation 0.64 in.

Days suitable for fieldwork 5.0. Soil moisture 23% very short, 46% short, 31% adequate. Corn harvested 80%, 81% 1993, 69% avg. Soybeans harvested 70%, 82% 1993. Wheat 3% poor, 16% fair, 81% good; sown 81%, 82% 1993, 70% avg. Barley 46% fair, 54% good; sown 80%, 100% 1993. Pasture feed 26% poor, 68% fair, 6% good; 75% of normal. Cattle 6% fair, 90% good, 4% excellent. Sheep 2% fair,

98% good. Farm activities: Sowing barley, wheat, harvesting corn, silage, soybeans, equipment maintenance.

WISCONSIN: Temperature 43°, 3° above normal. Extremes 15°; 67°. Precipitation trace to 1.60 in.

Days suitable for fieldwork 5.1. Soil moisture 12% short, 75% adequate, 13% surplus. Pasture feed 77%, NA 1993, NA avg. Corn harvested for grain 70%, 53% 1993, 56% avg. Soybeans harvested 94%, 96% 1993, 91% avg. Fall tillage 44%, 52% 1993, 43% avg. Hay, roughage supplies 1% short, 74% adequate, 25% surplus. Weather over the past three weeks has helped farmers get fieldwork done. The only things slowing harvest are breakdowns, waiting in line at the elevator. Storage is starting to become a problem as harvest winds down. Corn harvesting is speeding along. Corn moisture is in the teens in most areas of the State. The high yields for all crops are starting to cause storage problems. Farmers are looking for places to put their remaining corn. Soybean harvest is all but finished with 94% combined. Hay harvest is complete for most of the State with reports of good quality hay. Fall tillage jumped 11% this week. This jump is mainly due to farmers starting to plow after completing harvest activities.

WYOMING: Cold, wet, snowy week. Temperatures 3 to 5° below normal across most of the State. Coldest areas were across the west where readings were 5 to 7° below normal. Precipitation amounts were above normal across most of the State. Except for the southeast, northeast, the Big Horn Basin, amounts average about a half inch.

Fieldwork slowed by cold, wet weather. Sugarbeet harvest complete in most areas. Corn harvest continues. Most livestock moved to winter pastures. Supplemental feeding under way in areas with snow cover or where winter grazing is inadequate.

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