

# 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

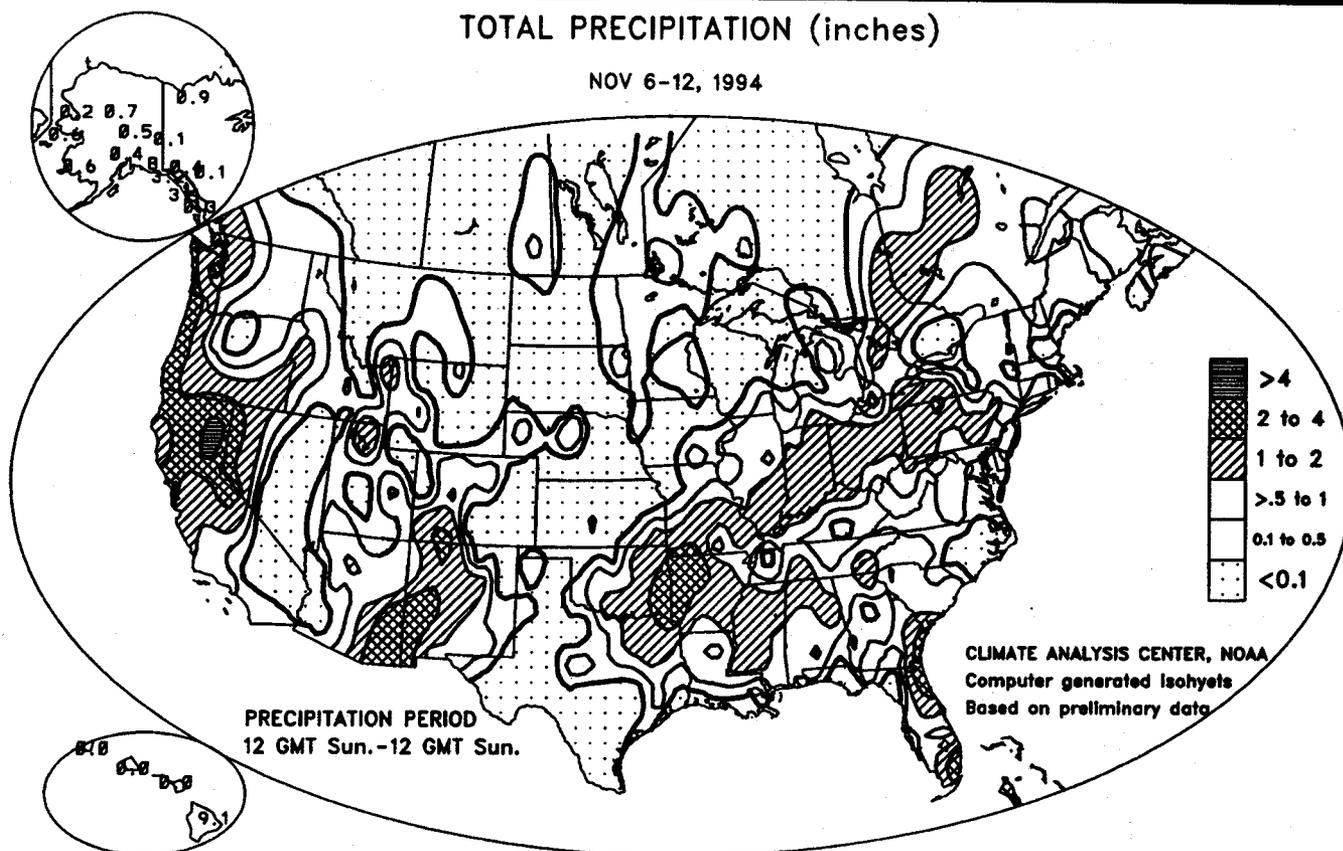
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Washington, D.C.

November 15, 1994

## TOTAL PRECIPITATION (inches)

NOV 6-12, 1994



CLIMATE ANALYSIS CENTER, NOAA  
Computer generated Isohyets  
Based on preliminary data

PRECIPITATION PERIOD  
12 GMT Sun.-12 GMT Sun.

## HIGHLIGHTS

November 6 - 12, 1994

The seemingly endless parade of Pacific storms continued, delivering additional drought relief to the West and providing changeable weather for the rest of the Nation. Early in the period, one storm exited North America through eastern Canada while another took shape over the West, dropping the season's first significant precipitation on southern California and parts of the Southwest during the latter half of the week. Between these systems, a slow-moving cold front brought rain showers to the eastern half of the Nation during midweek. A spell of record warmth, including the warmest day for so late in the year (76°F on Sunday) at Milton, MA, was temporarily interrupted in the East as strong winds buffeted the region. On Sunday, Buffalo, NY reported a wind gust to 53 mph; a day later Bangor, ME clocked a gust to 52 mph. Except for brief intrusions of cool air,

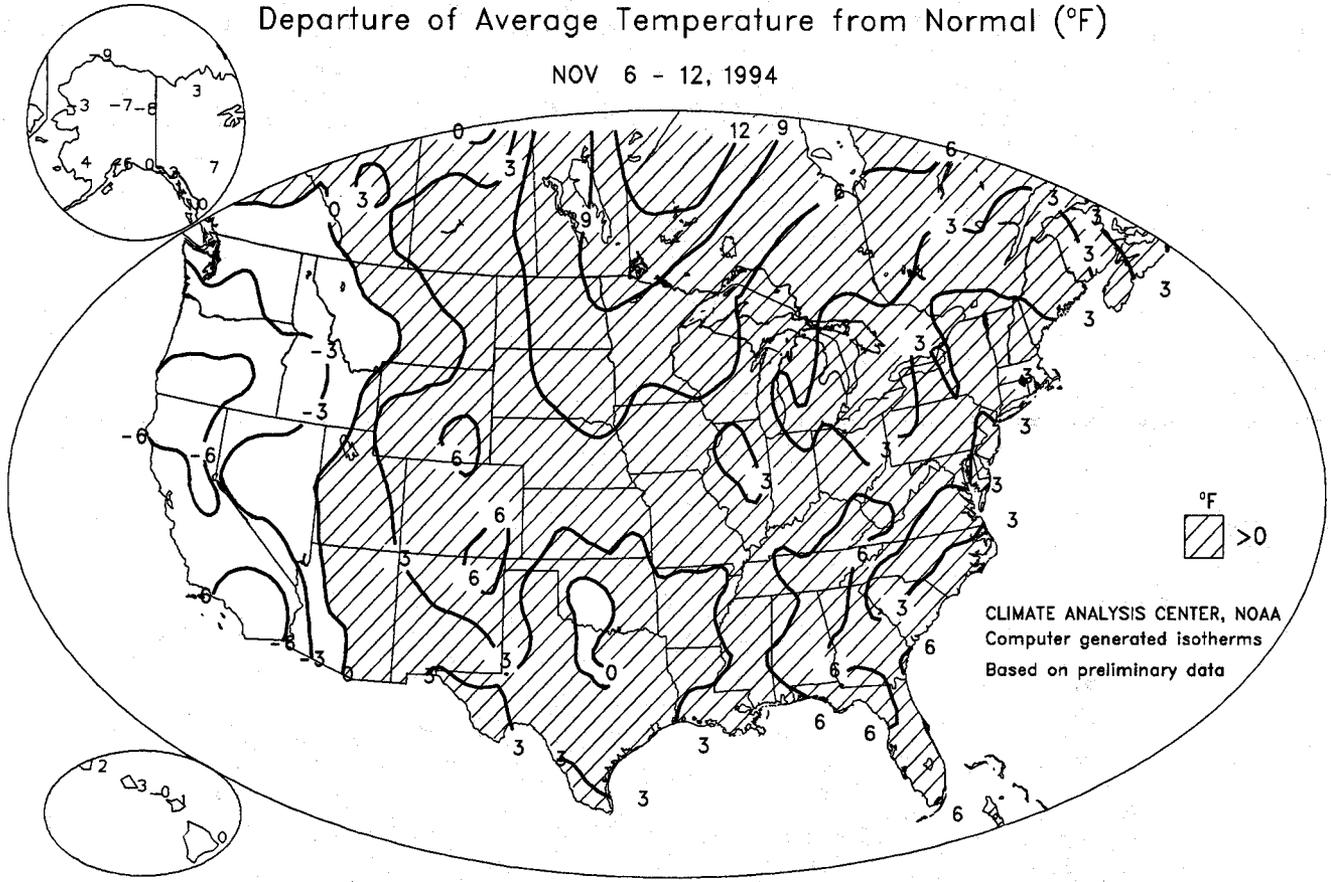
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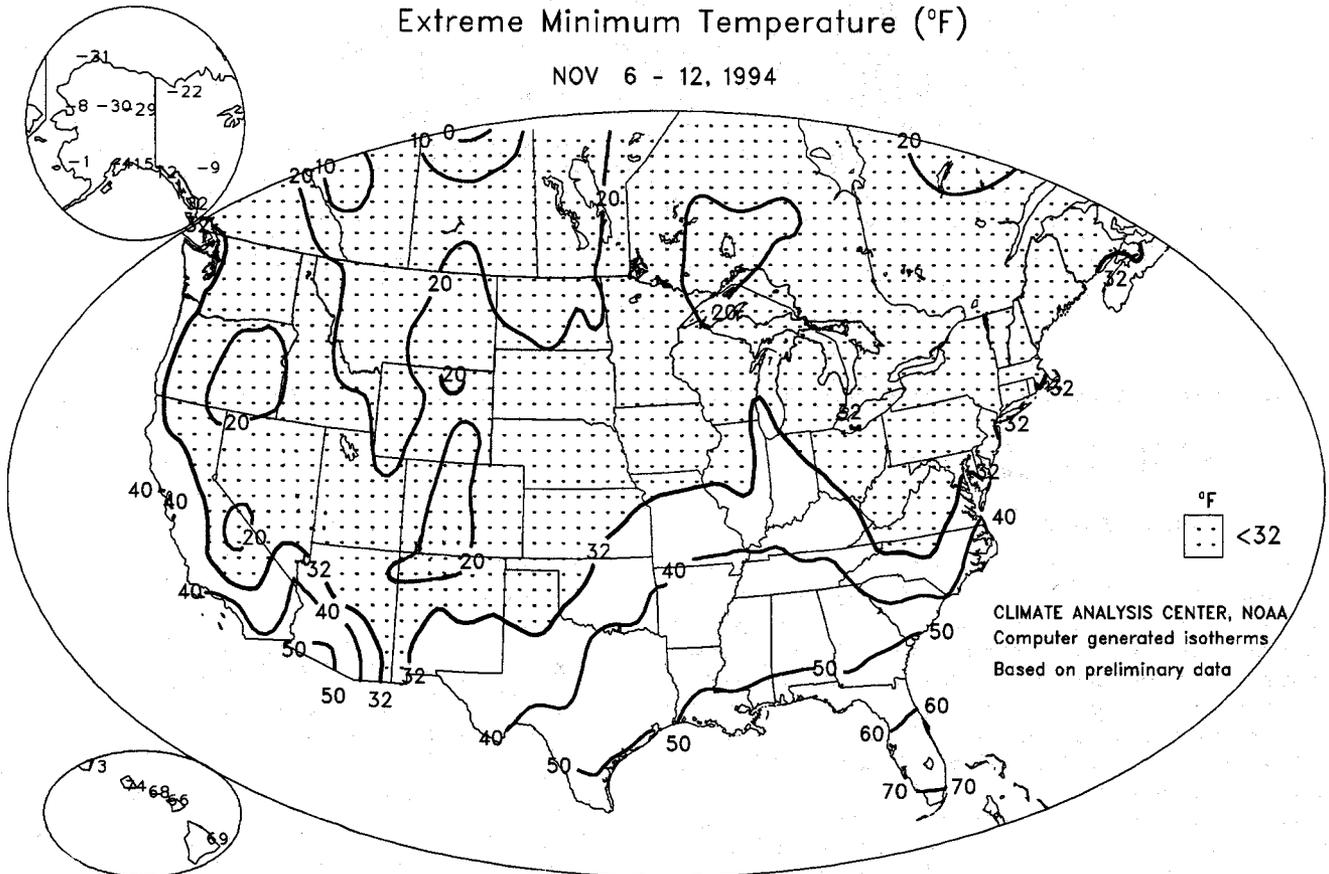
### Departure of Average Temperature from Normal (°F)

NOV 6 - 12, 1994



### Extreme Minimum Temperature (°F)

NOV 6 - 12, 1994



# National Weather Data for Selected Cities

Weather Data for the Week Ending November 12, 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	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	70	53	76	42	62	7	.7	-.2	.4	11.5	138	53.8	115	90	63	0	0	3	0		
MOBILE	75	58	82	52	67	5	.6	-.3	.5	8.5	83	48.7	87	96	61	0	0	2	0		
MONTGOMERY	76	55	84	46	65	8	1.1	.3	.9	11.5	149	51.9	109	91	57	0	0	0	1		
AK ANCHORAGE	27	14	33	6	21	-3	-.6	-.4	.4	3.7	71	9.9	70	93	71	0	7	2	0		
BARROW	-1	-15	2	-31	-8	-9	-.5	-.0	.5	.8	72	4.1	100	83	73	0	7	2	0		
FAIRBANKS	15	-1	31	-13	7	1	-.5	.4	.3	2.0	93	8.1	85	87	74	0	7	2	0		
JUNEAU	37	31	40	22	34	0	2.2	1.0	1.6	21.0	125	47.4	101	96	82	0	3	3	1		
KODIAK	41	31	45	26	36	0	.6	-.8	.3	20.8	125	74.6	130	90	45	0	5	4	0		
NOME	26	9	33	-3	18	-1	-.6	.4	.3	4.6	108	16.2	120	93	75	0	7	2	0		
AZ PHOENIX	74	53	82	48	63	-1	-.7	.5	.7	3.0	169	5.7	91	72	34	0	0	1	1		
PRESOTT	61	36	72	30	48	2	.2	-.2	.2	2.5	68	11.3	66	72	30	0	2	1	0		
TUCSON	75	49	86	41	62	1	1.7	1.5	1.4	4.0	133	7.8	74	74	27	0	0	3	0		
YUMA	73	51	78	49	62	-4	-.5	-.1	.5	1.4	214	2.1	84	68	32	0	0	0	1		
AR FORT SMITH	65	47	77	42	56	3	1.4	.4	1.4	7.6	89	46.7	131	93	63	0	0	0	1		
LITTLE ROCK	64	50	76	47	57	3	1.1	.0	1.1	9.1	89	49.7	119	89	64	0	0	0	1		
CA BAKERSFIELD	62	43	71	35	53	-6	-.5	.4	.4	.7	97	4.9	106	73	34	0	0	2	2		
BUREKA	54	39	56	35	46	-6	2.1	.6	1.8	4.4	74	23.8	87	94	57	0	0	0	1		
FRESNO	62	45	71	36	53	-3	1.8	.5	.3	1.8	146	8.2	99	93	47	0	0	5	5		
LOS ANGELES	65	49	68	45	57	-6	.6	-.2	.4	.7	55	7.0	76	84	46	0	0	0	0		
REDDING	56	41	63	34	48	-6	1.8	.7	1.4	3.5	78	18.5	76	96	49	0	0	3	3		
SACRAMENTO	58	42	64	34	50	-5	-.5	-.6	.5	.5	0	6.7	51	98	59	0	0	0	1		
SAN DIEGO	65	51	68	46	58	-5	-.2	-.1	.2	.2	20	8.4	114	82	48	0	0	0	0		
SAN FRANCISCO	57	45	60	41	51	-5	2.4	1.8	1.4	4.2	182	15.1	103	96	60	0	0	1	2		
CO DENVER	60	33	75	27	46	5	-.2	-.1	.2	2.2	86	9.7	68	94	43	0	0	4	0		
GRAND JUNCTION	60	37	65	32	49	3	-.5	-.2	.2	2.2	86	5.9	64	79	36	0	2	2	0		
FURLO	64	29	79	21	46	3	-.5	-.1	.5	2.2	132	14.9	142	93	34	0	0	0	0		
CT BRIDGEPORT	59	43	69	31	51	3	-.7	-.2	.5	6.3	82	34.9	97	72	38	0	1	3	0		
HARTFORD	57	38	65	26	47	3	-.4	-.6	.4	7.6	86	43.7	116	75	38	0	2	3	0		
DC WASHINGTON	66	45	79	35	55	3	-.3	-.4	.2	4.6	60	34.2	102	73	38	0	0	2	0		
FL PANAMA CITY	76	59	81	52	67	5	-.5	-.9	.5	12.8	120	47.6	82	99	71	0	0	0	0		
DAYTONA BEACH	81	64	86	59	73	5	1.8	1.1	.7	12.4	106	52.8	121	100	70	0	0	0	2		
JACKSONVILLE	78	63	85	56	70	4	1.3	-.7	.5	21.3	180	61.1	135	99	75	0	0	4	0		
KEY WEST	84	76	85	74	80	3	-.2	-.6	.1	19.5	168	41.2	114	88	70	0	0	4	0		
MIAMI	85	74	87	71	80	5	2.8	2.1	2.0	25.8	177	68.5	130	88	61	0	0	3	2		
ORLANDO	84	66	87	62	75	5	1.3	.8	1.3	14.4	154	58.9	132	99	60	0	0	1	1		
TALLAHASSEE	79	58	85	53	69	7	1.1	.3	1.0	23.6	239	84.8	146	95	63	0	0	2	1		
TAMPA	85	65	87	61	75	6	-.1	-.3	.1	11.6	134	45.5	112	98	61	0	0	1	0		
WEST PALM BEACH	83	70	84	65	77	3	-.4	-.6	.4	14.2	85	60.4	109	95	64	0	0	1	0		
GA ATLANTA	71	51	79	47	61	6	-.4	-.5	.4	10.8	136	55.7	126	88	52	0	0	2	0		
AUGUSTA	72	48	81	41	60	3	.5	-.1	.4	9.7	143	42.3	106	97	54	0	0	2	0		
MACON	72	50	81	48	61	4	2.2	-.3	.2	9.2	156	55.2	143	92	58	0	0	2	0		
SAVANNAH	76	58	83	52	67	6	2.5	2.0	1.4	29.0	378	63.8	142	95	60	0	0	3	2		
HI HILO	80	70	83	69	75	0	9.1	5.8	2.1	44.9	190	152.8	141	95	77	0	0	7	7		
HONOLULU	88	76	89	74	82	4	-.7	-.7	.5	1.8	43	13.8	84	74	50	0	0	0	0		
KAHULUI	83	71	87	66	77	1	-.6	-.6	.5	1.2	49	10.7	67	77	56	0	0	0	0		
LIHOE	82	76	83	73	79	3	-.3	-.3	.2	6.5	73	26.8	78	77	61	0	0	0	0		
ID BOISE	45	32	48	23	39	-4	.6	-.3	.2	1.8	88	6.8	70	91	49	0	4	5	0		
LEWISTON	45	36	49	30	41	-3	-.0	-.3	.0	1.5	68	7.8	73	86	54	0	2	0	0		
POCATELLO	46	30	56	21	38	0	.5	-.2	.2	2.2	100	7.3	71	93	59	0	5	4	0		
IL CHICAGO	55	39	61	34	47	4	.5	-.2	.3	6.4	87	26.7	85	90	52	0	0	3	0		
MOLINE	57	34	63	26	46	3	-.8	-.2	.5	6.1	76	28.6	81	96	57	0	3	2	1		
PEORIA	56	37	61	31	47	2	.3	-.4	.2	6.3	83	21.3	66	94	62	0	1	2	0		
QUINCY	58	39	66	31	49	3	.3	-.4	.3	4.0	43	18.1	51	83	51	0	1	1	0		
ROCKFORD	54	34	58	28	44	3	.8	-.1	.6	9.3	120	33.2	101	100	63	0	2	3	1		
SPRINGFIELD	59	40	66	31	50	4	.5	-.1	.5	5.1	74	31.9	103	90	53	0	1	1	0		
IN EVANSVILLE	65	43	74	38	54	4	1.4	.5	1.4	10.1	131	32.5	82	92	52	0	0	1	1		
FORT WAYNE	59	35	66	29	47	3	1.0	-.3	.9	4.7	76	26.2	87	96	58	0	3	2	1		
INDIANAPOLIS	60	40	67	38	50	4	.5	-.3	.4	5.0	74	28.5	82	89	50	0	0	2	0		
SOUTH BEND	57	36	64	31	46	3	-.7	-.0	.6	11.2	140	33.9	100	94	57	0	3	3	1		
IA DES MOINES	57	36	68	26	47	5	-.1	-.4	.1	4.3	58	24.3	77	85	50	0	3	2	0		
SIOUX CITY	57	34	69	28	45	6	-.1	-.1	.1	6.8	127	23.1	94	88	45	0	3	2	0		
WATERLOO	57	32	67	19	45	5	-.5	-.5	.5	5.6	81	31.7	101	87	44	0	3	0	0		
KS CONCORDIA	60	38	73	26	49	4	-.3	-.3	.5	2.4	43	15.6	57	92	53	0	2	0	0		
DODGE CITY	61	37	73	27	49	3	-.2	-.2	.5	2.6	73	16.3	80	89	50	0	2	0	0		
GOODLAND	58	31	75	24	44	3	-.2	-.2	.5	2.2	79	13.5	78	90	52	0	4	0	0		
TOPEKA	60	41	70	32	50	4	-.5	-.5	.5	3.2	41	22.6	69	92	54	0	1	1	0		
WICHITA	61	41	70	33	51	2	-.5	-.5	.5	4.7	61	20.5	64	91	58	0	0	1	0		
KY BOWLING GREEN	66	43	75	36	55	5	.3	-.7	.3	3.9	46	45.8	106	95	59	0	0	1	0		
LEXINGTON	65	42	74	35	54	5	-.4	-.4	.4	4.0	57	39.6	103	86	45	0	0	2	0		
LOUISVILLE	64	44	72	40	54	5	.6	-.2	.6	6.0	82	30.0	78	90	54	0	0	3	1		
LA BATON ROUGE	72	57	81	53	65	3	-.9	-.9	.5	9.7	98	55.6	106	100	72	0	0	1	0		
LAKE CHARLES	75	57	85	52	66	4	-.5	-.5	.5	7.0	63	36.0	76	95	63	0	0	0	0		
NEW ORLEANS	76	60	84	48	68	5	-.9	-.9	.5	8.1	80	46.1	87	91	59	0	0	2	0		
SHERBOURNE	70	50	85	46	60	3	.5	-.4	.5	10.4	113	45.3	108	92	63	0	0	1	0		

Based on 1961-90 normals.

Weather Data for the Week Ending November 12, 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	.01 INCH OR MORE		.50 INCH OR MORE	
																					TEMP. °F	PRECIP.		
ME CARIBOU	43	31	48	27	37	3	.4	-.4	.4	6.5	82	34.1	109	83	55	0	5	2	0	0	0	0		
PORTLAND	53	36	59	23	45	3	.1	-.1	.1	8.2	91	35.1	96	82	46	0	2	1	0	0	0	0		
MD BALTIMORE	65	42	78	30	54	5	.3	-.4	.3	6.3	82	40.0	113	81	37	0	1	2	0	0	0	0		
SALISBURY	65	39	76	27	52	1	.3	-.5	.2	5.6	67	35.4	89	93	43	0	3	2	0	0	0	0		
MA BOSTON	58	44	66	35	51	3	.5	-.1	.0	5.2	65	38.2	109	66	35	0	0	0	0	0	0	0		
CHATHAM	57	46	68	38	51	3	.5	-.1	.0	2.5	27	35.2	92	74	48	0	0	0	0	0	0	0		
MI ALPENA	51	33	58	22	42	3	.8	-.1	.3	4.5	74	28.0	110	89	51	0	2	1	1	1	1	1		
DETOIT	55	36	60	30	46	3	.3	-.1	.3	5.3	88	37.4	98	91	58	0	3	3	0	0	0	0		
FLINT	54	33	60	26	43	1	.3	-.3	.1	7.7	114	30.6	118	93	54	0	3	3	0	0	0	0		
GRAND RAPIDS	55	34	60	27	44	4	.7	-.1	.3	9.2	110	43.5	140	91	53	0	3	3	0	0	0	1		
HOOGETON LAKE	50	34	57	22	42	4	1.0	-.5	1.0	4.4	67	26.0	104	88	54	0	3	3	0	0	0	0		
LANSING	53	33	59	25	43	3	.4	-.2	.2	8.2	108	32.6	117	98	58	0	0	0	0	0	0	0		
MARQUETTE	48	31	51	23	40	7	.1	-.6	.1	5.1	57	22.2	71	84	44	0	0	0	0	0	0	0		
MUSKEGON	54	34	57	26	44	2	.6	-.2	.2	7.5	95	30.6	111	91	50	0	4	4	0	0	0	1		
SAULT ST. MARIE	47	32	56	26	40	3	.7	-.1	.7	4.4	53	25.2	86	94	49	0	0	0	0	0	0	0		
MN ALEXANDRIA	50	33	58	26	42	3	.7	-.1	.2	6.2	112	18.2	75	87	47	0	3	4	0	0	0	0		
DULUTH	49	31	54	25	40	8	.2	-.4	.2	8.0	112	27.7	100	80	40	0	4	4	0	0	0	0		
INT'L FALLS	48	29	51	22	38	9	.5	-.2	.3	6.5	115	22.3	97	87	44	0	5	5	0	0	0	0		
MINNEAPOLIS	53	35	61	29	44	4	.2	-.4	.2	9.4	168	27.8	105	85	46	0	3	1	0	0	0	0		
ROCHESTER	51	33	61	26	42	6	.2	-.4	.2	5.2	80	28.9	104	90	45	0	4	4	0	0	0	0		
MS GREENWOOD	71	53	79	48	62	5	.4	-.7	.2	10.4	118	43.1	95	96	62	0	0	0	0	0	0	0		
JACKSON	69	50	80	43	60	3	.7	-.3	.7	8.0	100	51.4	112	97	68	0	0	0	0	0	1	1		
MERIDIAN	73	54	82	49	63	6	.5	-.4	.3	8.3	102	57.0	119	94	63	0	0	0	0	0	0	0		
MO CAPE GIRARDEAU	62	45	73	40	54	4	.7	-.2	.7	10.9	136	40.0	101	90	58	0	0	0	0	0	1	1		
COLUMBIA	62	40	74	33	51	4	.6	-.1	.6	7.6	89	34.4	101	96	64	0	0	0	0	0	0	0		
KANSAS CITY	59	42	68	32	51	4	.2	-.5	.2	4.4	48	23.8	68	88	57	0	1	2	0	0	0	0		
SAINT LOUIS	64	46	75	38	55	6	.5	-.3	.5	6.5	92	30.7	95	84	50	0	0	0	0	0	1	1		
SPRINGFIELD	62	46	73	41	54	6	1.0	-.1	1.0	12.9	129	46.8	121	84	57	0	0	0	0	0	1	1		
MT BILLINGS	50	30	59	23	40	2	.3	-.1	.3	3.8	133	12.7	92	77	41	0	5	1	0	0	0	0		
GLASGOW	47	27	53	23	37	5	.2	-.1	.2	2.1	121	9.6	92	88	51	0	7	0	0	0	0	0		
GREAT FALLS	47	29	53	20	38	1	.2	-.1	.2	1.5	68	9.3	67	78	39	0	4	1	0	0	0	0		
HAVRE	47	22	56	16	34	1	.0	-.1	.0	1.1	58	6.8	65	89	46	0	7	0	0	0	0	0		
HELENA	44	22	51	15	33	-1	.1	-.1	.1	1.3	68	6.9	65	92	51	0	7	1	0	0	0	0		
KALISPELL	38	25	43	21	31	-2	.1	-.2	.0	3.2	125	10.3	74	89	65	0	7	2	0	0	0	0		
MILES CITY	48	28	56	25	38	2	.0	-.1	.0	3.0	125	9.3	70	90	46	0	7	0	0	0	0	0		
MISSOULA	41	27	48	22	34	-1	.1	-.1	.1	2.0	92	10.8	91	90	60	0	7	1	0	0	0	0		
NE GRAND ISLAND	57	33	71	26	45	5	.1	-.2	.1	3.3	72	20.6	87	92	47	0	4	1	0	0	0	0		
LINCOLN	58	34	71	21	46	4	.2	-.3	.2	1.9	31	17.8	67	92	44	0	3	0	0	0	0	0		
NORFOLK	57	34	70	26	45	6	.1	-.2	.1	3.8	84	26.6	111	88	43	0	3	2	0	0	0	0		
NORTH PLATTE	57	30	73	24	43	5	.1	-.1	.0	3.5	123	17.8	96	94	49	0	3	2	0	0	0	0		
OMAHA	59	35	72	23	47	4	.2	-.4	.2	6.5	98	27.4	98	89	47	0	3	1	0	0	0	0		
SCOTTSBLUFF	53	30	66	20	41	2	.6	-.4	.5	4.1	189	15.0	105	96	58	0	5	2	0	0	0	0		
VALENTINE	56	31	67	20	44	4	.2	-.2	.2	1.2	29	16.9	79	84	42	0	4	0	0	0	0	0		
NV RLY	46	31	54	27	38	2	.5	-.3	.2	1.9	88	8.0	87	94	46	0	6	5	0	0	0	0		
LAS VEGAS	65	45	71	41	55	-3	.3	-.2	.3	.6	97	1.5	42	63	29	0	0	1	0	0	0	0		
RENO	47	35	56	28	41	-1	.8	-.6	.2	1.4	132	4.5	76	85	53	0	2	6	0	0	0	0		
WINNEVOCCA	45	31	55	24	38	-2	.5	-.3	.2	2.2	160	6.9	102	92	67	0	4	5	0	0	0	0		
NE CONCORD	55	36	62	21	45	5	.2	-.7	.2	5.0	66	29.8	96	89	40	0	3	1	0	0	0	0		
NJ ATLANTIC CITY	63	37	75	26	50	2	.5	-.4	.3	5.5	77	38.1	110	84	42	0	3	2	0	0	0	0		
NM ALBUQUERQUE	62	40	70	34	51	4	1.3	1.2	.7	4.1	198	10.6	130	82	35	0	0	3	2	0	0	2		
CLOVIS	68	40	81	32	54	5	.2	-.0	.2	1.4	35	9.9	60	87	40	0	1	1	0	0	0	0		
ROSWEIL	67	43	79	37	55	2	.2	-.1	.2	2.1	63	7.6	64	82	42	0	0	1	0	0	0	0		
NY ALBANY	55	37	65	23	46	3	.2	-.7	.2	3.4	47	31.0	99	81	45	0	2	1	0	0	0	0		
BINGHAMTON	51	35	64	23	43	2	.2	-.6	.1	4.7	62	37.7	118	80	46	0	2	3	0	0	0	0		
BUFFALO	54	37	65	28	45	2	.6	-.3	.3	7.9	97	32.8	101	81	53	0	3	2	0	0	0	0		
NEW YORK	61	46	70	37	54	4	.5	-.4	.4	5.5	70	38.5	106	67	37	0	0	2	0	0	0	0		
ROCHESTER	56	38	69	26	47	4	.5	-.2	.3	6.3	95	26.2	95	82	44	0	2	3	0	0	0	0		
SYRACUSE	55	36	70	25	46	2	.3	-.6	.2	6.2	73	35.2	105	86	47	0	2	2	0	0	0	0		
NC ASHEVILLE	67	40	75	32	53	4	.7	-.3	.7	10.5	99	52.2	106	93	40	0	2	2	1	0	0	0		
CHARLOTTE	68	47	79	38	58	3	.4	-.3	.3	5.0	61	32.8	87	81	40	0	0	3	0	0	0	0		
GREENSBORO	65	40	75	29	53	1	.4	-.3	.4	3.2	39	31.8	85	82	44	0	1	1	0	0	0	0		
HATTERAS	71	59	79	55	65	6	.0	-.2	.0	19.4	157	58.6	120	83	40	0	0	0	0	0	0	0		
NEW BERN	73	50	81	42	62	5	.0	-.7	.0	6.1	65	32.3	66	89	45	0	0	0	0	0	0	0		
RALEIGH	67	43	76	32	55	2	.2	-.7	.2	6.7	93	33.9	93	84	33	0	1	1	0	0	0	0		
WILMINGTON	75	50	84	42	62	5	.1	-.7	.1	15.8	139	51.3	101	95	48	0	0	1	0	0	0	0		
ND BISMARCK	53	24	58	15	39	6	.2	-.1	.2	8.4	323	17.2	117	90	44	0	6	1	0	0	0	0		
FARGO	51	32	53	20	42	9	.4	-.2	.4	5.6	137	22.4	121	79	38	0	3	1	0	0	0	0		
GRAND FORKS	52	27	57	20	39	9	.4	-.3	.4	5.1	132	21.4	124	84	37	0	5	1	0	0	0	0		
WILLISTON	50	23	54	16	37	6	.2	-.1	.2	2.5	107	14.7	114	86	45	0	7	0	0	0	0	1		
OH AKRON-CANTON	58	36	68	30	47	2	1.2	-.5	1.0	4.9	72	36.5	114	85	51	0	3	2	1	0	0	0		
CINCINNATI	62	40	69	36	51	5	1.0	-.2	.9	3.3	47	33.8	94	85	48	0	0	2	1	0	0	0		
CLEVELAND	59	38	68	32	49	4	1.0	-.3	1.0	4.5	63	25.8	82	85	54	0	1	2	1	0	0	0		
COLUMBUS	60	37	69	29	48	5	.9	-.2	.9	4.0	59	27.9	85	88	4									

Weather Data for the Week Ending November 12, 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	TEMP. °F		PRECIP.
													90 AND ABOVE				32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	58	35	65	28	47	4	.9	.3	.9	3.7	61	25.2	89	92	59	0	3	2	1
YOUNGSTOWN	56	35	66	26	46	2	.9	.3	.7	6.7	91	33.9	104	86	55	0	0	0	0
OK OKLAHOMA CITY	62	41	78	35	52	-1	.3	.3	.3	6.6	83	23.4	76	93	63	0	4	0	1
TULSA	64	45	76	39	54	2	.4	.4	.4	12.4	128	46.2	126	91	62	0	0	0	0
OR ASTORIA	50	36	51	32	43	-5	2.5	.3	.6	16.1	131	52.2	106	99	70	0	1	1	0
BURNS	37	22	42	10	30	-6	.5	.2	.2	1.5	83	4.4	55	92	61	0	0	0	0
MEDFORD	47	32	51	29	40	-6	1.0	.3	.9	3.9	111	9.0	67	99	63	0	5	5	4
PENDLETON	47	36	52	31	42	-3	.5	.3	.3	3.0	150	11.0	117	87	50	0	0	0	0
PORTLAND	49	38	56	35	44	-4	1.1	.0	.3	12.0	190	26.6	99	93	55	0	0	0	0
SALEM	50	35	54	30	43	-4	.9	.5	.4	12.2	181	28.3	100	95	55	0	0	0	0
PA ALLENTOWN	60	38	73	26	49	3	.7	.2	.3	4.8	57	42.2	112	89	41	0	2	2	2
ERIE	56	41	66	33	48	3	1.2	.2	.8	8.2	84	36.7	103	81	47	0	0	0	0
HARRISBURG	61	41	76	27	51	4	.7	.1	.3	5.3	68	40.8	116	83	37	0	1	1	1
PHILADELPHIA	62	44	73	36	53	5	.6	.3	.5	3.4	39	40.7	102	72	42	0	0	0	0
PITTSBURGH	60	37	68	27	49	4	.8	.1	.6	6.3	98	37.6	117	81	42	0	0	0	0
SCRANTON	58	38	73	29	48	4	.5	.3	.3	7.7	105	37.1	116	81	46	0	0	0	0
RI PROVIDENCE	60	40	72	28	50	3	.5	.5	.4	5.2	59	35.3	92	72	37	0	2	2	3
SC CHARLESTON	75	55	84	48	65	5	.4	.2	.4	20.6	240	61.5	131	92	56	0	0	0	0
COLUMBIA	73	47	82	38	60	3	.3	.3	.3	8.5	109	43.7	98	92	43	0	0	0	0
FLORENCE	76	48	84	39	62	5	.4	.1	.4	7.6	109	36.5	93	94	42	0	0	0	0
GREENVILLE	68	44	77	37	56	2	.2	.7	.1	6.5	69	45.2	101	84	45	0	0	0	0
SD ABERDEEN	53	30	59	19	41	-8	.8	.2	.2	5.0	134	19.6	97	84	48	0	0	0	0
BURON	55	32	67	22	44	-8	.8	.2	.2	4.0	112	19.6	102	85	44	0	0	0	0
RAPID CITY	53	32	60	28	43	-8	.1	.1	.1	3.5	133	9.9	62	86	48	0	0	0	0
SIOUX FALLS	53	35	67	27	44	-8	.8	.2	.2	4.3	59	59.1	147	94	50	0	0	0	0
TX CHATTANOOGA	71	47	77	41	59	6	.6	.4	.4	9.0	99	67.1	148	93	44	0	0	0	0
KNOXVILLE	70	46	76	40	58	6	.6	.2	.2	6.2	59	41.1	95	89	62	0	0	0	0
MEMPHIS	67	51	76	46	59	4	1.1	.1	.5	8.7	114	54.6	136	85	58	0	0	0	0
NASHVILLE	68	50	74	44	59	7	.2	.2	.2	8.3	129	25.4	112	94	58	0	0	0	0
TX ABILENE	68	47	80	35	57	0	.5	.4	.5	2.9	79	16.9	90	91	47	0	2	0	0
AMARILLO	65	36	74	27	51	-2	.2	.2	.2	14.9	191	35.1	122	87	57	0	0	0	0
AUSTIN	72	52	83	46	62	2	.2	.2	.2	18.2	146	63.1	128	98	60	0	0	0	0
BEADWONT	75	54	85	45	65	2	.2	.2	.2	9.1	96	22.1	90	94	68	0	0	0	0
BROWNSVILLE	82	67	87	58	75	4	.1	.2	.1	14.2	153	30.9	110	88	56	0	0	0	0
CORPUS CHRISTI	79	60	89	51	70	2	.1	.3	.1	3.0	47	18.3	80	91	55	0	0	0	0
DEL RIO	74	53	82	45	64	1	.2	.4	.2	.9	35	3.9	48	76	33	0	0	0	0
EL PASO	73	46	82	38	59	5	.4	.3	.3	13.0	132	38.4	113	91	63	0	0	0	0
FORT WORTH	68	49	79	45	59	2	.7	.1	.7	6.4	64	22.9	62	88	66	0	0	0	0
GALVESTON	73	63	84	56	68	2	.1	.7	.1	13.3	109	38.2	83	94	59	0	0	0	0
HOUSTON	76	54	86	46	68	2	.6	.6	.6	2.3	48	12.9	73	95	50	0	1	1	0
LUBBOCK	69	43	79	32	56	4	.2	.2	.2	1.1	22	8.7	61	93	44	0	0	0	0
MIDLAND	72	44	83	36	58	2	.1	.2	.1	7.7	122	16.7	87	95	57	0	0	0	0
SAN ANGELO	70	46	80	37	58	0	.1	.2	.1	15.5	200	36.7	131	86	52	0	0	0	0
SAN ANTONIO	75	53	86	46	64	1	.1	.6	.1	13.5	110	38.5	96	91	53	0	0	0	0
VICTORIA	77	55	88	47	66	1	.0	.9	.0	7.4	92	27.1	94	92	65	0	0	0	0
WACO	69	49	82	45	59	-1	.5	.1	.5	5.7	70	12.2	42	93	60	0	0	0	0
WICHITA FALLS	67	43	83	39	55	0	.2	.4	.2	3.5	149	8.2	81	82	40	0	3	2	0
UT CEDAR CITY	54	34	62	30	44	2	.3	.1	.3	4.0	123	12.4	88	88	52	0	1	3	1
SALT LAKE CITY	54	36	64	24	43	4	.1	.7	.1	4.4	59	32.2	107	75	49	0	2	1	0
VT BURLINGTON	51	36	64	24	43	4	.3	.4	.3	4.8	58	46.2	117	82	46	0	0	0	0
VA NORFOLK	68	49	81	41	58	4	.2	.5	.1	7.0	86	39.3	103	85	37	0	2	2	0
RICHMOND	66	40	78	32	53	1	.3	.5	.3	3.0	35	39.2	108	83	34	0	2	1	0
ROANOKE	68	37	79	26	53	3	.3	.5	.3	17.8	85	73.7	91	98	55	0	1	6	3
WA QUILLAYUTE	49	36	52	32	43	-3	2.4	.9	.7	6.9	96	22.6	82	88	51	0	0	0	0
SEATTLE-TACOMA	49	41	50	37	45	-2	1.1	.2	.3	4.1	167	10.3	81	95	63	0	4	4	0
SPOKANE	41	31	47	27	36	-1	.4	.1	.2	.5	44	4.8	81	93	47	0	6	1	0
YAKIMA	46	27	55	21	37	-4	.2	.2	.2	3.3	45	44.5	124	75	38	0	1	1	0
WV BECKLEY	64	40	72	27	52	7	.3	.4	.3	4.1	54	45.9	124	91	40	0	3	2	0
CHARLESTON	67	37	76	26	52	3	.4	.4	.3	3.8	50	41.0	109	79	37	0	1	3	0
HUNTINGTON	66	42	76	30	54	7	.2	.6	.1	4.1	61	43.5	121	85	39	0	2	2	1
PARKERSBURG	63	38	70	28	51	4	.8	.2	.7	3.5	53	26.3	101	94	61	0	5	1	0
WI GREEN BAY	54	32	58	28	43	5	.1	.4	.1	8.5	126	32.4	114	80	38	0	2	0	0
LACROSSE	55	37	66	26	46	7	.2	.4	.2	7.8	111	30.7	105	90	51	0	4	3	0
MADISON	54	32	59	24	43	3	.3	.3	.1	4.7	69	25.1	86	90	53	0	0	0	0
MILWAUKEE	54	39	60	35	46	5	.5	.0	.3	5.2	66	19.8	66	85	36	0	4	0	0
WAUSAU	52	32	55	24	42	6	.2	.5	.2	6.2	278	12.9	113	91	52	0	4	1	0
WY CASPER	57	29	62	22	42	6	.2	.0	.2	2.3	100	12.9	95	85	48	0	6	2	0
CHEYENNE	50	29	57	19	39	5	.2	.0	.2	6.1	236	11.3	94	85	38	0	5	1	0
LANDER	49	26	60	18	38	2	.1	.2	.1	4.6	156	14.4	108	88	38	0	7	1	0
SHERIDAN	49	26	60	18	38	2	.1	.2	.1	12.7	95	33.5	76	90	70	1	0	5	4
PR SAN JUAN	86	74	90	72	80	0	3.0	1.6	1.1										

Based on 1961-90 normals.

# October Weather in Historical Perspective

Warm weather in the East North Central region was offset by cool conditions in the three westernmost regions, resulting in the 50th coolest October during the 100-year period of record (table 1). The Nation's average temperature of 54.7°F was 0.3°F above the 1961-1990 normal (fig. 1).

Heavy precipitation in the South, Southeast, and West North Central regions propelled the Nation to its 21st wettest October since 1895, despite dryness in the Northeast and West regions. The Nation's average precipitation of 2.56 inches was 0.40 inches above normal (fig. 2). State rankings appear in figure 3.

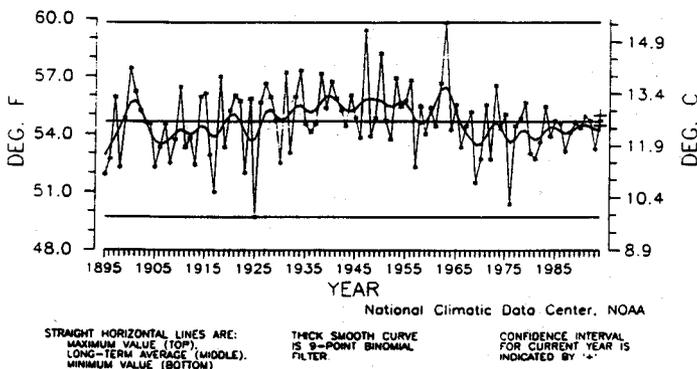
**Table 1**

Temperature and precipitation rankings for October 1994, based on the period 1895-1994. 1 = Driest/Colest, 100 = Wettest/Hottest.

Region	Precipitation	Temperature
Northeast	3	50
East North Central	47	82
Central	43	63
Southeast	92	47
West North Central	97	48
South	87	60
Southwest	53	27
Northwest	65	29
West	25	33
National	80	50

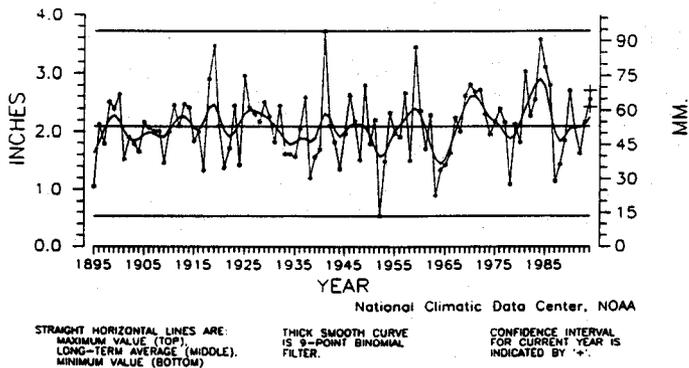
**Figure 1**

U.S. NATIONAL TEMPERATURE  
OCTOBER, 1895-1994



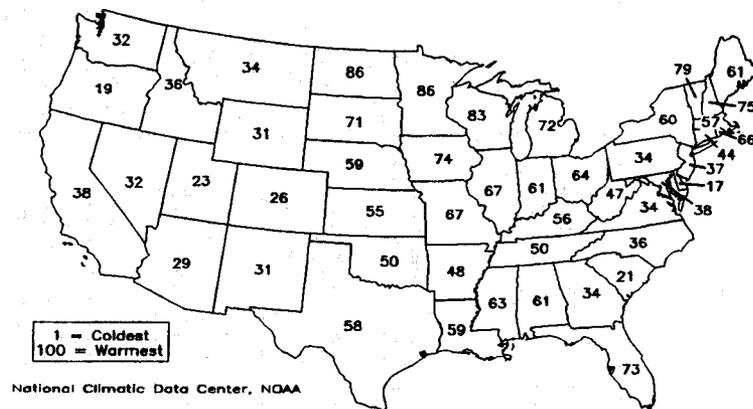
**Figure 2**

U.S. NATIONAL PRECIPITATION  
OCTOBER, 1895-1994



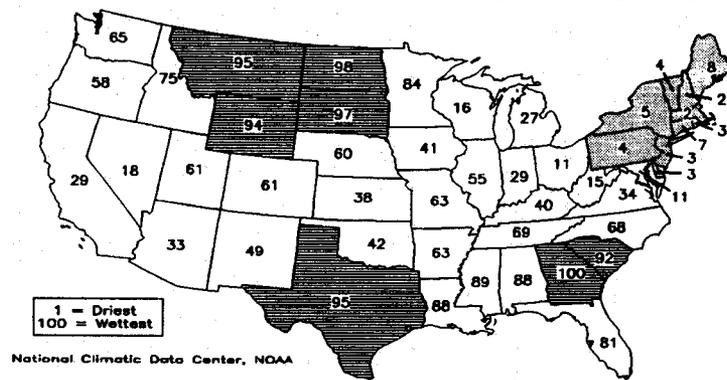
**Figure 3**

OCTOBER 1994 STATEWIDE TEMPERATURE RANKS



Temperature Ranks for the contiguous United States. Each state is ranked based on its data from 1895-1994. States having a rank of top ten coldest (rank 1-10) or top ten warmest (rank 91-100) are shaded.

OCTOBER 1994 STATEWIDE PRECIPITATION RANKS



Precipitation Ranks for the contiguous United States. Each state is ranked based on its data from 1895-1994. States having a rank of top ten driest (rank 1-10) or top ten wettest (rank 91-100) are shaded.

# National Agricultural Summary

November 7 - 13, 1994

**HIGHLIGHTS:** Warm, rainy weather slowed fieldwork across the Nation, but harvest activity remained ahead of normal for all row crops. With most storage bins full in the Corn Belt, some producers were forced to store corn on the ground or leave it in the field until space becomes available. Wet fields in southeastern Kansas hampered wheat planting, while the rest of the State reported good wheat emergence, despite dry soil conditions. Rain and snow stopped field activity, in the Northern Pacific Coast, where wheat remaining to be planted needed dry weather. Wet fields slowed wheat planting in parts of Texas, where problems with greenbugs and armyworms were reported. The cotton harvest was winding-down along the southern Pacific Coast as widespread rains slowed harvesting. The soybean and cotton harvest was slowed in the lower Mississippi River Valley, where saturated soil conditions left some fields flooded. The cotton harvest continued between rains in the Southeastern States, where many States remained behind the 5-year average.

Winter wheat planted at 94 percent (%) was up 2 percentage points from the previous week, but was 1 point behind the 5-year average. Winter wheat planted in both Texas and Washington was 4 points behind the average. Winter wheat for the 19 major producing States was 87% emerged, 4 points ahead of the average, while wheat emerged in Washington 21 points behind the average. Winter wheat condition rated good to excellent at 70%, compared with 68% a year ago.

(Continued from front cover)

unseasonably mild weather covered the eastern two-thirds of the U.S. while the Far West recorded subnormal temperatures. At week's end, Tropical Storm Gordon, a rare November tropical system in the northern Caribbean, was taking aim on southern Florida.

Meanwhile, light precipitation spread through the West, reaching the central High Plains by Tuesday. Midweek snow depths included 5 inches in Nebraska at Mullen and Alliance, and 1 inch in Wyoming at Casper, Cheyenne, Laramie, and Lander. Cold air overspread the West Coast States, with daily records for November 8 reported in Klamath Falls, OR (15°F) and downtown San Francisco, CA (46°F). Heavy rain, with totals of 1 to 2 inches, developed on Wednesday along a cold front from northeastern Texas to the eastern Corn Belt, causing additional minor flooding in the wake of last week's deluge. Farther south and east, a final day of record warmth preceded the front, resulting in more than a dozen daily record highs on Wednesday. The temperature in Victoria, TX soared to 88°F, while Baltimore, MD and Roanoke, VA registered 78°F. After midweek, the warm air was replaced by more seasonable readings as a strong high pressure system moved into the East. However, before the passage of the cold front, a few more daily records were set or tied on Thursday in the Southeast, including Charleston, SC (84°F) and Daytona Beach, FL (86°F).

A major storm overspread the West during the latter half of the week. Effects were felt as early as Tuesday in the coastal Northwest, with 1- to 2-inch rainfall and gale-force winds. At midweek, winds gusted to 100 mph along the Oregon coast at Cape Blanco and near Lake Tahoe atop Slide Mountain in Nevada. By Thursday morning, precipitation totals of 2 to 4 inches covered the Sierra Nevada, with 15 inches of new snow at Mammoth Mountain, CA. As the storm system slid southward, southern California received its first heavy rainfall of the 1994-95 season. Along the coast, 1.30 inches fell on Santa Barbara, and 0.40 inches were measured in Los Angeles. Bakersfield, CA broke their Nov. 10 rainfall record with 0.58 inches. Heavier totals occurred at mountain locations, with 1.54 inches at Lake Arrowhead and 1.37 inches at Mt. Wilson. By Friday, a large fetch of Pacific moisture fed into the storm system now located off the Baja Peninsula, bringing heavy precipitation to the Four Corner states. Nearly 5 inches of rain soaked parts of southeastern Arizona's Huachuca Mountains, 3.72 inches inundated Gila Hot Springs, NM, 2.83 inches were measured in Douglas, AZ, and 1.83 inches fell on Durango, CO. As the system tracked northeastward, 1 to 3 feet of snow buried the San Juan Mountains of Colorado on Saturday, and heavy snow began blanketing the mountains of Utah. Ahead of the system, strong southerly winds gusted to 60 mph at Beulah, CO and 56 mph at Goodland, KS.

Corn harvest for the 17 major producing States at 91% complete, was up from last week and ahead of the average by 8 points. Excellent spring-like weather allowed the corn harvest in the Corn Belt to make good progress, but with most storage bins full, farmers are storing corn on the ground. Corn harvested in Indiana increased 11 points from last week to 88% complete, 14 points ahead of the average.

Cotton harvested in the 14 major producing States at 77% was up 7 points from last week and 6 points ahead of the average. In Alabama and Georgia, the cotton harvest was 21 points behind the average, while cotton harvested in Oklahoma increased 8 points to 77% complete, 40 points ahead of the average.

Sorghum harvested at 94% was up 3 points from last week and 5 points ahead of the average. Sorghum harvested in Kansas increased 2 points from last week and reached 97% harvested, 12 points ahead of the average.

Soybeans harvested at 93% was up 4 points from a week ago and 1 point ahead of the average for the 19 major producing States. Illinois soybean producers harvested 98% of the crop, up 1 point from last week, but 1 point behind the average.

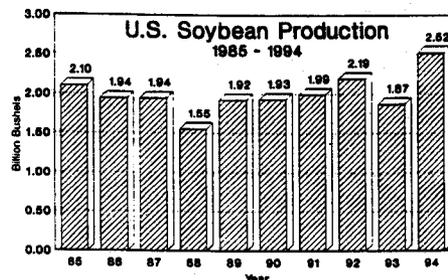
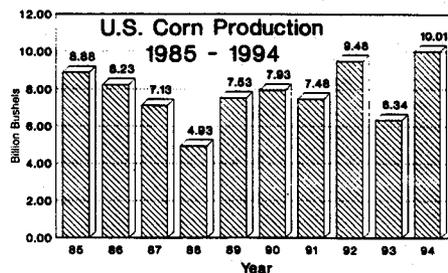
## U.S. Crop Production Highlights

The following information was released by USDA's Agricultural Statistics Board on Nov. 9, 1994. Forecasts refer to Nov. 1, 1994.

Corn production is forecast at a record high 10.0 billion bushels, up 4 percent from the October 1 forecast and 58 percent above the 1993 crop. Yields are expected to average a record high 138.4 bushels per acre, up 4.6 bushels from last month and 7.0 bushels above the previous record yield set in 1992.

Soybean production is forecast at a record high 2.52 billion bushels, up 3 percent from the October 1 forecast and 35 percent above 1993. Yield is forecast at a record high 41.5 bushels per acre, 1.0 bushel above October 1 and 8.9 bushels above 1993. The previous record high yield of 37.6 bushels per acre was set in 1992.

All cotton production for-1994 remains a record high at 19.5 million bales, up 1 percent from October 1 and 21 percent larger than 1993. Yields are expected to average 695 pounds per harvested acre, up 5 pounds from last month and up 89 pounds from last year.



## Crop Progress

for the Week Ending November 13, 1994

## COTTON HARVESTED

	Current	Last Wk	1993	Avg.
AL	65	54	86	86
AZ	92	86	90	84
AR	90	83	88	90
CA	90	85	95	93
GA	55	42	85	76
LA	93	88	95	96
MS	91	82	89	92
MO	95	92	93	91
NM	67	63	58	37
NC	75	63	80	70
OK	77	69	64	37
SC	69	51	86	78
TN	85	76	91	87
TX	65	60	69	49
14 States	77	70	81	71

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

## WINTER WHEAT EMERGED

	Current	Last Wk	1993	Avg.
AR	67	53	56	63
CA	10	5	15	12
CO	100	98	99	99
GA	13	10	18	15
ID	76	68	89	89
IL	92	90	71	87
IN	98	90	85	82
KS	96	95	96	90
MI	95	90	85	90
MO	79	71	63	76
MP	80	77	74	87
NE	100	100	100	100
NC	45	34	41	39
OH	93	88	92	85
OK	93	88	92	83
OR	73	53	94	90
SD	100	100	100	100
TX	79	75	79	76
WA	73	67	92	94
19 States	87	83	86	85

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

## GRAIN SORGHUM HARVESTED

	Current	Last Wk	1993	Avg.
AR	100	100	100	99
CO	85	76	75	77
IL	94	90	88	90
KS	97	95	90	85
LA	100	100	100	100
MS	100	100	100	100
MO	88	84	91	91
NE	99	97	93	92
NM	77	61	60	60
OK	56	49	68	76
SD	96	89	96	96
TX	95	93	97	92
12 States	94	91	92	89

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

## WINTER WHEAT PLANTED

	Current	Last Wk	1993	Avg.
AR	81	72	68	74
CA	30	20	35	38
CO	100	100	100	100
GA	19	13	25	21
ID	98	97	98	99
IL	98	96	92	97
IN	100	98	98	96
KS	99	98	99	99
MI	100	98	100	98
MO	88	83	88	90
MT	97	94	96	99
NE	100	100	100	100
NC	62	51	54	53
OH	100	100	100	97
OK	98	97	99	98
OR	89	85	98	97
SD	100	100	100	100
TX	87	83	92	91
WA	95	93	100	99
19 States	94	92	95	95

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

## SOYBEANS HARVESTED

	Current	Last Wk	1993	Avg.
AL	57	41	71	71
AR	85	74	72	78
GA	43	28	57	59
IL	98	97	98	99
IN	100	99	96	95
IA	100	100	100	100
KS	90	85	96	95
KY	85	71	79	78
LA	93	81	90	91
MI	97	95	95	95
MN	99	99	99	99
MS	84	75	79	81
MO	85	82	91	92
NE	100	100	100	100
NC	32	23	25	35
OH	100	100	99	96
SC	33	22	26	32
SD	100	99	100	100
TN	70	56	74	73
19 States	93	89	92	92

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

## CORN HARVESTED

	Current	Last Wk	1993	Avg.
CO	95	88	81	80
GA	99	98	100	100
IL	90	87	93	90
IN	88	77	85	74
IA	95	89	91	87
KS	100	99	95	95
KY	94	90	92	92
MI	60	45	65	65
MN	95	83	79	84
MO	88	85	91	90
NE	97	91	78	85
NC	100	100	100	100
OH	81	67	79	68
PA	66	55	58	57
SD	91	77	78	82
TX	100	100	100	100
WI	83	70	68	64
17 States	91	83	85	83

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

## Crop Condition

for the Week Ending Nov. 13, 1994

## WINTER WHEAT

State	VP	P	F	G	EX
AR	0	0	1	89	10
CA	0	0	5	85	10
CO	2	3	20	68	7
GA	0	0	13	85	2
ID	0	10	26	61	3
IL	0	0	2	56	42
IN	0	1	16	70	13
KS	1	4	25	65	5
MI	1	4	20	50	25
MO	0	2	36	57	5
MT	3	12	40	44	1
NE	0	0	17	77	6
NC	0	4	11	83	2
OH	1	6	33	48	12
OK	0	0	10	83	7
OR	0	0	33	61	6
SD	0	0	3	74	23
TX	0	5	50	36	9
WA	1	23	55	20	1
19 State	1	4	25	62	8
Prev Week	1	5	22	63	9
Prev Year	0	3	29	52	16

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

## State 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 0.42 to 1.91 in. north; 0.25 to 1.55 in. central; 0.01 to 0.75 in. south. Temperatures 4 to 10° above normal statewide. Lows 39 to 49° north; 40 to 52° central; 43 to 55° south. Highs 73 to 79° north; 72 to 84° central; 78 to 83° south.

Days suitable for fieldwork 5.0. Soil moisture 5% short, 75% adequate, 20% surplus. Sorghum harvested 70%, 84% 1993, 94% avg. Wheat planted 67%, 60% 1993, 59% avg. Pasture feed 10% poor, 25% fair, 56% good, 9% excellent. Livestock 19% fair, 73% good, 8% excellent. Seasonal activities: Harvesting row crops, vegetables, defoliating cotton fields, seeding small grains, ground preparation for fall planting.

**ARIZONA:** Temperatures 3° below to 5° above normal. Extremes 21°, 82° higher elevations; 31°, 86° deserts. Precipitation all stations; trace to 3.48 in.

Cotton harvest ahead of normal, despite wet week; harvested acreage 92%, 90% 1993, 84% avg. Stalk shredding, plowdown active central, eastern areas, light western 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 slowed eastern groves. Cantaloupe, honeydew, head lettuce harvested central, western areas. Bok choy, broccoli, cabbage, green onion, kale, mixed green, radishes, rappini, spinach, sweet corn, swiss chard available central areas.

**ARKANSAS:** Temperatures above normal statewide, rainfall midweek. Extremes 37°; 87°. Precipitation 0.48 to 2.41 in.

Days suitable for fieldwork 4. Soil moisture 48% adequate, 52% surplus. Soybean, cotton harvests slowed by rain. Wheat, soybean fields flooded in several areas. Pecans very poor to fair; 15% harvested in Little River county. Pasture feed 2% very poor, 3% poor, 53% fair, 40% good, 2% excellent. Livestock good.

**CALIFORNIA:** Storm path over much of State through week. Weak system 13th. Much stronger storm brought moderately heavy precipitation 9th. Another weak weather system passed northern portion on 12th. Some snow occurred mountains. Snow depth (in.): Mt. Shasta City-5; Hat Creek-0; Lake Almanor-Missing; Blue Canyon AP-8; Soda Springs-Missing; Echo Summit-Missing; Salt Springs-Missing; Yosemite Valley-Trace; Badger Pass-18; Lodgepole-6; Mt. Wilson-0; Lake Arrowhead-Trace; Big Bear Lake-1.

Midweek rains halted progress field activities central, north. Elsewhere fieldwork normal pace. Rice harvest virtually complete. Stubble burning, chopping, discing delayed wet conditions. Cotton harvest winding down followed by shredding, discing, pink bollworm control. Grain corn, silage corn, dry beans, grain sorghum, sugarbeets harvested. New crop sugarbeets emerging some areas. Alfalfa cut hay, greenchopped. Ground preparation, seeding small grains, new alfalfa, winter forages ongoing where soil moisture conditions allowed. Fertilizer, herbicide applications underway. Rain slowed orchard activities. Table grape harvest near end. Vineyards disced, ripped. Pruning active in orchards. Pomegranate, persimmon, apple, kiwi, Navel orange, lemon, grapefruit, tangerine, date, avocado harvests continued. Asparagus harvested Imperial Valley. Broccoli, cauliflower harvested Salinas-Watsonville, Santa Maria areas, San Joaquin Valley. Cabbage growing well Fresno County. Carrots harvested Kern County. Celery harvested Oxnard area, San Joaquin Valley. Sweet corn harvested Imperial, San Joaquin valleys. Fall head, leaf lettuce fields harvested San Joaquin Valley, Salinas-Watsonville, Santa Maria areas. Melon harvest continued Imperial Valley. Pepper harvest continued San Joaquin Valley. Harvest sweet potatoes Merced, Stanislaus counties continued. Spinach planted Stanislaus County, completed Tulare County. Fresh market tomatoes harvested San Joaquin Valley. Processing tomato canners received last shipments for season. Other crops harvested: Squash, cucumbers, green beans, green onions, eggplant, pumpkins, herbs, spices, oriental vegetables. Rangeland, pasture conditions rated mostly fair. Winter pasture, water supplies improved some areas. Foothill pastures greening most areas. Warmer weather needed sustain growth. Heavy livestock movement lower elevations, snowfall higher elevations. Supplemental feeding heavy. Fall calving, lambing continued. Sheep shipped into Imperial Valley from mountain states. Sheep grazing alfalfa fields. Cattle, sheep good condition.

**COLORADO:** Week started out with near record highs, 80° temperatures. Cold front moved in the 8th, cooled temperatures to seasonal normals rest of the week. Moisture came in the form of snow on the 8th, only affected the front range; rest of the State was dry.

Days suitable for fieldwork 5.3. Soil moisture 15% very short, 32% short, 52% adequate, 1% surplus. Sugarbeet harvest nearly complete. Winter wheat emergence complete. Livestock fair to good. Pasture, range feed conditions rated poor to fair.

**FLORIDA:** Temperatures upper 40s to upper 80s. Highs; low 80s west, upper 80s north, Peninsula. Lows; upper 40s west, north, lower 50s central, south. Rainfall for week; less than 0.50 in. most locations, 1.00 to 2.00 in. several locations. Several south locations received over 3.00 in.

Soil moisture adequate throughout State with scattered areas of short or surplus. Peanut harvest virtually complete. Cotton, soybean harvest active. Sugarcane harvest, planting active. Last hay cutting active. Small grain planting for forage active. Making preparations for planting winter wheat for grain. Citrus groves very good condition. Warm, dry weather first of week replaced by cool, cloudy, damp conditions at weekend. Moisture adequate. Good on-tree fruit color. Harvest increasing as many processors now open. Early orange movement very active all areas. Grapefruit harvest from the lower East Coast strong for the fresh markets. Tangelo harvest increasing. Caretakers cutting cover crops, herbiciding, few sprays being applied. Warm temperatures, scattered showers during most of week boosted vegetable development, southern Peninsula. Volume of vegetable harvest increased for holiday market. Most northern harvest completed. Strong winds from Tropical Storm Gordon tossed vines, blew some blooms off plants along southeastern coast, Dade County during weekend. Vegetables available: Round tomatoes, cucumbers, peppers, squash, sweet corn, snap beans, eggplant, watermelons, radishes, strawberries, escarole, Romaine lettuce, cherry tomatoes, plum tomatoes, okra. Pasture feed very poor 5%, poor 5%, fair 25%, good 60%, excellent 5%. Cattle herds in mostly good condition.

**GEORGIA:** Warm week across State, temperatures 3 to 8° above normal. Warmest temperatures mid 70s northeast mountains to low to mid 80s extreme south. Coldest temperatures near 30° colder northeast mountains to 50° or above extreme south and coast. Rain 0.25 to 0.75 in. range, local totals 1.00 to 3.00 in. southeast. Rain on 1 or 2 days most of State.

Days suitable for fieldwork 4.8. Soil moisture 3% short, 70% adequate, 27% surplus. Corn 99% harvested for grain, 100% 1993, 100% avg. Cotton 16% fair, 64% good, 20% excellent; 97% bolls open, 99% 1993, 98% avg.; 55% harvested, 85% 1993, 76% avg. Sorghum 26% fair, 74% good; 94% harvested for grain, 93% 1993, 92% avg. Peanuts 99% threshed, 98% 1993, 99% avg. Soybeans 2% poor, 19% fair, 71% good, 8% excellent; 43% harvested, 57% 1993, 59% avg. Wheat 13% fair, 85% good, 2% excellent; 19% planted, 25% 1993, 21% avg.; 13% emerged, 18% 1993, 15% avg. Rye 82% planted, 87% 1993, 80% avg. Other small grains 17% fair, 82% good, 1% excellent; 62% planted, 67% 1993, 57% avg. Onions 16% transplanted, 10% 1993, NA avg. Other vegetables 4% very poor, 8% poor, 50% fair, 38% good. Pecans 12% very poor, 7% poor, 49% fair, 31% good, 1% excellent; 47% harvested, 30% 1993, 40% avg. Pasture feed 2% poor, 31% fair, 63% good, 4% excellent. Cattle 7% fair, 93% good. Hogs 2% very poor, 2% poor, 6% fair, 90% good. Cotton harvest active as weather permitted. Peanut harvest near completion. Soybean, pecan harvest continuing. Planting small grain, overseeding pastures as weather permitted, routine care of livestock, poultry.

**HAWAII:** Mostly sunny days, windward showers evenings, early mornings. Brisk trade winds 15 to 25 mph. Increased showers, locally heavy, Hawaii, Maui islands at weekend. Snow covered mountain peaks, Hawaii Island. Overnight, morning temperatures cooler. Temperatures high 60s to mid 80s. Rainfall none to 12.00 in.

Weather generally aided crop progress. Lower temperatures benefitted cool season crops. Brisk trade winds caused light damage to some vine, orchard crops.

**IDAHO:** Temperatures 4° below to 2° above normal. Precipitation 0.33 to 0.97 in. north, 0.45 to 0.98 in. southwest, 0.01 to 1.03 in. south-central, none to 1.67 in. southeast. Extreme 4°; 62°. Snowcover in many areas.

Potato harvest complete. Hay, roughage supply 1% very short, 8% short, 88% adequate, 3% surplus. Sugarbeets harvested 99%, 99% 1993, 99%

avg. Corn for grain harvested 78%. Activities: Fall fieldwork, marketing livestock, preparing machinery, irrigation equipment for winter.

**ILLINOIS:** Pattern of a few dry days, then a chance of rain continued for State as a series of weather systems moved across the country. The week averaged 5 to 10° warmer than normal. Average highs 55 to 65° with average lows mostly in the 40s. Precipitation generally averaged above normal across northern areas, below normal in the south. Rainfall mostly 0.50 to 1.25 in.

Days suitable for fieldwork 2.75. Soil moisture 12% short, 64% adequate, 24% surplus. Pasture feed 90% of normal. Farm activities: corn, sorghum harvest; fall tillage; applying fertilizer; tending livestock.

**INDIANA:** Weather averaged warmer, wetter than normal across State the past seven days. Spring like warmth on 12th followed by rain on 13th night, 7th ahead of a cold front. High temperatures the mid 50s to around 60° in the north to the low to mid 60s in the south. This was 4 to 9° above normal across the State. Lows averaged in the upper 30s to mid 40s, 3 to 12° above normal. Coldest readings were in the upper 20s to 30s most areas. Precipitation totals mostly in the range of 0.60 to 1.50 in. across State. This was above normal by around 0.15 to 0.70 in.

Days suitable for fieldwork 3.0. Rain over most of State slowed harvest, other field activities. Grain movement slow, elevators at full capacity. Soybean harvest, winter wheat seeding virtually complete. Other activities: moving grain, hauling manure, chopping stalks, fall tillage, spreading fertilizer, lime, processing tobacco, winterizing machinery, mending fence, sorting calves, care of livestock. Pastures feed 78% of normal, 72% last week. Topsoil rated 4% short, 68% adequate, 28% surplus. Subsoil moisture 32% short, 60% adequate, 8% surplus. Hay, roughage supplies mostly adequate. Tobacco processed for sale 25%.

**IOWA:** Temperatures 6 to 9° above normal. Extremes 17° (northeast, 10th); 72° (southwest, 7th). Light to moderate rain at mid week, again late weekend. Rain totals only sprinkles far northwest to 1.16 in. southeast; average 0.39 in. (normal 0.43 in.).

Days suitable for fieldwork 5.6. Topsoil 26% short, 70% adequate, 4% surplus. Subsoil 29% short, 64% adequate, 7% surplus. 1995 row crop acreage fall tilled 38%, 38% 1993, 36% avg. 1995 row crop acreage fall fertilizer applied 33%, 28% 1993, 28% avg. Grain storage availability 32% adequate, 68% short. Grain movement 3% none, 60% light, 34% moderate, 3% heavy. Utilization of stubble fields for grazing 1% none, 50% limited, 44% moderate, 5% extensive. States livestock herds will be going into winter in good to excellent condition primarily due to the excellent fall weather Iowa has received this year. Reporters indicated that many small hog producers appear to be culling back to a limited breeding herd, significant number of sows are moving to market.

**KANSAS:** Temperatures 8° above normal in the northwest, 4 to 5° above normal over the remainder of the State. Precipitation was received in all districts. The heaviest amounts fell in the southeastern district where amounts from 0.50 to over 3.00 in. were common.

Days suitable for fieldwork 5.5. Surface soil moisture 47% short to very short, 45% adequate, 8% surplus. Subsurface moisture 43% short to very short, 53% adequate, 4% surplus. Wheat seeding virtually complete. Only fields in the east central, southeastern districts remain to be seeded. Wet fields hampered activity in these areas the past week. Wheat emergence has been good across the State. Ten percent of acreage is being pastured, on par with last year but ahead of the average of 5%. Fall harvest made a little progress last week. Corn harvest complete. Sorghum harvest continues ahead of normal progress. Soybean harvest complete all but the east central, southeastern district where rains slowed progress. Fall crop harvest and tillage are farmers major cropping activities. Farmers moving cattle to crop stubble fields and wheat pasture in many areas.

**KENTUCKY:** Mild weather, highest readings mid 70s; lowest overnight temperatures in 30s. Temperatures between 55 to 60°, 6 to 9° above normal. All areas received rain with amounts from 0.11 in. at Cumberland Gap to 2.00 in. Uniontown.

Days suitable for fieldwork 4.3. Soil moisture 8% very short, 41% short, 46% adequate, 5% surplus. Burley 34% stripped, 36% 1993, 36% avg. Quality stripped tobacco 10% fair, 83% good, 7% excellent. Hanging burley needs to go in and out of case to improve quality. Wheat 92% seeded, emerged wheat mostly good condition. Pastures benefitted from warm temperatures, showers. Pasture feed short north central areas. Ponds also low these areas.

**LOUISIANA:** Temperatures 6 to 5.0° above normal. Extremes 41°; 86°. Rainfall 0.05 southeast, 0.89 west central in.

Days suitable for fieldwork 4.9. Soil moisture 7% short, 68% adequate, 25% surplus. Cotton harvest slowed by rain in north, active in south. Some modules damaged to varying degrees by water seepage up through module. Hay 100% final cutting, 99% 1993, 99% avg. Pecans 35% harvested, 43% 1993, 46% avg. Rice, second crop harvest continued active in south. Soybean harvest nearly complete. Sugarcane 17% fair, 74% good, 9% excellent; 47% harvested, 46% 1993, 43% avg. Harvest active, yields improved as farmers move into younger plant cane. Sweet potatoes 88% harvested, 91% 1993, 91% avg. Wheat 60% planted, 50% 1993, 55% avg.; 45% emerged, 39% 1993, 39% avg. Planting made good progress. Livestock 29% fair, 69% good, 2% excellent. Pasture feed 10% poor, 11% fair, 72% good, 7% excellent. Vegetables 15% poor, 38% fair, 47% good.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 0.37 in., normal 0.75 in. Temperature 56.2°, normal 49.6°. Extremes 19°; 83°.

Days suitable for fieldwork 5.8. Topsoil 20% short, 80% adequate. Subsoil 5% very short, 40% short, 55% adequate. Pasture feed excellent. Wheat good; 87% planted, 89% 1993, 85% avg. Barley good; 97% planted, 100% 1993, 97% avg. Rye good; 93% planted, 92% 1993, 89% avg. Corn 89% grain harvested, 91% 1993, 88% avg. Soybeans 78% harvested, 62% 1993, 67% avg. Sorghum 83% harvested, 51% 1993, 79% avg. Tobacco 20% stripped, 13% 1993, 19% avg. Other hay 77% fourth cut, 86% 1993, 76% avg. Alfalfa hay 80% fifth cutting, 65% 1993, 61% avg. Hay supplies adequate.

**DELAWARE:** Precipitation 0.47 in., normal 0.76 in. Temperature 54.7°, normal 50.3°. Extremes 30°; 78°.

Days suitable for fieldwork 5.9. Topsoil 40% short, 60% adequate. Subsoil 33% short, 67% adequate. Wheat good; 84% planted, 82% 1993, 81% avg. Barley good; 99% planted, 99% 1993, 96% avg. Corn 95% grain harvested, 99% 1993, 97% avg.; soybeans 67% harvested, 53% 1993, 66% avg. Sorghum 64% harvested, 47% 1993, 81% avg. Other hay 80% fourth cutting, 86% 1993, 95% avg. Alfalfa hay 79% fifth cutting, 85% 1993, 87% avg. Hay supplies adequate; pasture feed excellent.

**MICHIGAN:** Extremes 19°; 62°. Precipitation none to 0.49 in.

Days suitable for fieldwork 4.0. Soil moisture 45% adequate, 55% surplus. Corn for grain 60% harvested, 65% 1993, 65% avg. Soybeans 97% harvested, 95% 1993, 95% avg. Sugarbeets 100% harvested, 100% 1993, 100% avg. Pasture feed 80% of normal. Major activities included: Harvesting corn, repairing equipment, hauling manure, cutting wood, harvesting Christmas trees, making cider.

**MINNESOTA:** Temperatures 7 to 12° above normal. Extremes 17°; 66°. Precipitation 0.70 in. above normal northwest, below normal elsewhere. Greatest weekly total was 1.10 in.

Days suitable for fieldwork 6.5. Topsoil 4% short, 87% adequate, 9% surplus. Corn 95% harvested, 79% 1993, 84% avg.; moisture content 17%, 28% 1993, 22% avg.; stalks worked 70%, 57% 1993, 68% avg. Soybean stubble worked 85%, 88% 1993, 83% avg.

**MISSISSIPPI:** Weather data not available.

Days suitable for fieldwork 3.3. Soil moisture 2% short, 50% adequate, 48% surplus. Cotton 91% harvested, 89% 1993, 92% avg.; 6% poor, 26% fair, 67% good, 1% excellent. Soybeans 84% harvested, 79% 1993, 81% avg.; 2% poor, 13% fair, 77% good, 8% excellent. Wheat 82% planted, 85% 1993, 77% avg.; 68% emerged, 69% 1993, 56% avg.; 20% fair, 61% good, 19% excellent. Sweet potatoes 96% harvested, 97% 1993, 95% avg. Pecans 58% harvested, 36% 1993, 35% avg.; 4% very poor, 20% poor, 44% fair, 28% good, 4% excellent. Livestock 10% fair, 86% good, 4% excellent. Pasture feed 82% of normal. Activities: Finishing cotton, soybean harvests in between rains.

**MISSOURI:** Temperatures 2° above normal State to 6° above normal St. Louis, Springfield. Rainfall 0.79 in., ranging from 0.45 in. northwestern district to over 1.00 in. southwest, south central.

Days suitable for fieldwork 2.3. Topsoil 3% short, 64% adequate, 33% surplus. Subsoil 20% short, 68% adequate, 12% surplus. Corn harvest virtually complete southern third of State, other districts range from 78% central district to 89% east central. Soybean harvest least advanced southwestern district 61%, southeast 77%, most advanced north central 94%, northeast 96%. Sorghum harvest least advanced central district 70%, west central 75%, most advanced southeast 99%. Wheat seeding least advanced west central, southwestern districts 74% virtually complete northeast. Above normal temperature, plentiful moisture beneficial to wheat, pasture. Pasture feed 6% poor, 33% fair, 53% good, 8% excellent.

**MONTANA:** Above normal temperatures beginning of week turning to below normal by weekend. Above normal precipitation west of divide, little to no precipitation east of divide.

Days suitable for fieldwork 6. Topsoil 46% short, 54% adequate. Subsoil 75% short, 25% adequate. Potato, sugarbeet harvest finished. Cattle moved from summer ranges, 85%. Sheep, lambs moved from summer ranges, 93%. Pasture, range feed condition, 74% of normal.

**NEBRASKA:** Temperatures 2° above normals west, 6 to 9° above normals elsewhere. Precipitation was scattered, varied from none central to 0.55 in. northwest.

Days suitable for fieldwork 6.0. Topsoil 17% short, 73% adequate, 10% surplus. Subsoil 19% short, 80% adequate, 1% surplus. Corn 97% harvested, 78% 1993, 85% avg. Winter wheat 17% fair, 77% good, 6% excellent. Pasture, range feed 91% of normal. Fall tillage, fertilizer applications active.

**NEVADA:** Last week was wet, windy, cool across most of the State. Week began with a moist southwest flow aloft that brought significant precipitation to the northern portion of the State. Valley floors received up to an inch of precipitation, while the northern, central Sierras received up to a foot of snow. Morning of 9th strong winds (exceeding 70 MPH, gusts to 100 MPH in the mountains) accompanied a cold front into the State, leaving precipitation in much of State. Reno-Sparks area received from 2 to 6 in. of snow, with up to half-inch of moisture. The front exited the State by 11th, another moved in on 12th morning bringing more unsettled weather across the State, scattered, heavy, brief showers in the northern half of the State. Heaviest precipitation was in the north with Glenbrook reporting 2.92 in., Tahoe City reporting 2.91 in., Pyramid Lake with 1.78 in., northwest 0.80 in., northeast 0.70 in., while the central, south both averaged 0.25 in. precipitation for the week. South 3° below normal, while the northeast averaged 1° below and the most variable ranging from 8° below at Austin to 5° above at Mountain City. Extremes -5°; 78°.

Cold, wet weather forced most fieldwork to a halt. Main farm, ranch activities: Marketing, feeding, moving livestock; Grading, sorting, marketing crops.

**NEW ENGLAND:** Precipitation none to 0.63 in. regionwide. Temperatures 37 to 46° north; 40 to 49° south. Maximum temperatures 48 to 72° north; 59 to 72° south. Minimum temperatures 19 to 30° north; 20 to 37° south.

Field corn 100% harvested, good to excellent; third cut hay 100% harvested, good. Major farm activities: Cleaning up after harvest, lime testing, preparing for winter.

**NEW JERSEY:** Temperatures near normal. Temperatures 46° north, 49° south, 51° coastal. Extremes 22°; 79°. Rainfall 0.62 in. north, 0.46 in. south, 0.33 in. coastal. Heaviest 24 hour total 0.74 in. on 9th, 10th.

Harvesting of lettuce, spinach, herbs occurring in southern areas. Harvesting of field corn, soybeans continues with planting of small grains following harvest. Cranberry harvest complete.

**NEW MEXICO:** Two early winter storms moved across the State during the week with the latter one producing some heavy precipitation. Higher totals included 3.07 in. at Silver City, 2.25 in. at Animas, 2.19 in. at T or C, 2.10 in. at Ruidoso.

Days suitable for fieldwork 6.3. Soil moisture 68% short, 32% adequate. Cropland conditions: Alfalfa 40%, 53% good, 7% excellent. Chile 11% fair, 89% good. Corn 10% poor, 30% fair, 60% good. Irrigated sorghum 38% fair, 62% good. Dryland sorghum was 67% very poor, 33% poor. Cotton 38% fair, 49% good, 13% excellent. Pecans 33% poor, 50% fair, 17% good. Cattle, sheep ranged from poor to good across the State. Range feed 54% of normal.

**NEW YORK:** Continued unseasonably mild. Daily highs up to 10° above normal, lows close to 10° below normal resulting in nearly normal readings. Extremes 18°; 73°. Precipitation near normal in north with 0.50 in. to 0.75 in. falling, below normal elsewhere. Some locations reported less than 0.10 in. of rain.

Major activities: Caring for livestock, harvesting corn, preparing for winter. Apple picking, packing continued. Cider making in full swing. Potato growers grading, packing this year's crop. Onions being moved into storage. Grading, packing continued. Cabbage harvest still active.

**NORTH CAROLINA:** Mean temperature at the seven reporting stations for the week averaged from 53° at Greensboro to 65° at Cape Hatteras. Rainfall ranged from no rainfall at Cape Hatteras, New Bern to 0.74 in. at Asheville.

Days suitable for fieldwork 5.8. Soil 2% very short, 32% short, 63% adequate, 3% surplus. Crop conditions: Wheat 4% poor, 11% fair, 83% good, 2% excellent; oats 16% fair, 81% good, 3% excellent; barley 14%

fair, 86% good; rye 17% fair, 81% good, 2% excellent; pasture feed 4% poor, 38% fair, 56% good 2% excellent; cotton 3% fair, 70% good, 27% excellent; soybeans 3% poor, 13% fair, 73% good, 11% excellent; hay, roughage supplies 8% short, 79% adequate, 13% surplus; feed grains supplies 3% short, 76% adequate, 21% surplus; sweet potatoes harvested 95%, 87% 1993, 92% avg.; cotton harvested 75%, 80% 1993, 70% avg.; peanuts threshed 95%, 89% 1993, 94% avg.; soybeans harvested 32%, 25% 1993, 35% avg.; wheat planted 62%, 54% 1993, 53% avg.; oats planted 81%, 74% 1993, 76% avg.; barley planted 85%, 79% 1993, 80% avg.; rye planted 82%, 77% 1993, 73% avg.; soybeans leaf drop 95%, 93% 1993, 99% avg.; wheat emerged 45%, 41% 1993, 39% avg. Activities included: Harvesting sweet potatoes, cotton, peanuts, soybeans, planting small grain. Other activities included: Preparing land; tending livestock; equipment repair, general farm maintenance.

**NORTH DAKOTA:** Mild, dry with a little snow 13th night in the very northern part of State. Precipitation none southwest to 0.05 in. northwest, east central. Temperatures 8° above normal west central, southwest to 11° above normal eastern third. Extremes 12° northeast; 62° south central.

Corn, sunflower nearly complete, remaining crop unattainable due to the wet field conditions. Fertilization, fall tillage work continued. Livestock was still grazing. Ranchers were busy weaning calves.

**OHIO:** High temperatures upper 50s to around 60° this week. That is 6 to 9° above normal. Lows in the upper 30s to around 40°, generally above normal, by a margin of only 3 to 6° in most cases. Bare soil temperatures at 4 in. ranged from the upper 40s to around 50°. Sod soil temperatures averaged under 50° in all but parts of the south. Precipitation totals exceeded a 0.50 in. over nearly all of the State. Most of that fell around the middle of the week. Those values represent from 1.00 to more than 3 tenths of an in. more than normal. Seven day totals climbed to over 1.00 in. at Celina, Mansfield, Akron-Canton, Dayton.

Days suitable for fieldwork 4.7. Corn harvest continued as evidenced by long lines at the grain elevators. Pastures, fall seeded crops need rain. Soil moisture 39% short, 57% adequate, 4% surplus. Corn moisture 19%. Sugarbeet harvest 98% complete. Pasture feed 5% very poor, 18% poor, 40% fair, 34% good, 3% excellent.

**OKLAHOMA:** Temperatures 2° below normal north central, west central to 2° above normal east central, southwest. Precipitation 0.04 in. Panhandle district to 3.93 in. southeast.

Days suitable for fieldwork 4.2. Topsoil 4% short, 56% adequate, 40% surplus. Subsoil 24% short, 76% adequate. Soybeans 93% mature, 100% 1993, 93% avg.; 73% harvested, 68% 1993, 70% avg. Peanuts 99% mature, 99% 1993, 100% avg.; 88% dug, 66% 1993, 84% avg.; 76% combined, NA 1993, NA avg. Cotton 77% harvested, 64% 1993, 37% avg. Wheat 10% fair, 83% good, 7% excellent; 98% planted, 99% 1993, 98% avg.; 93% up to stand, 92% 1993, 83% avg.; 8% grazed, 15% 1993, 12% avg. Pasture feed 91% normal. Prices for feeder steers, heifers were steady.

**OREGON:** Precipitation Coast 3.00 in., Willamette Valley 1.00 in., northern Cascades 1.60 in., southwest valleys 1.20 in., central sections 0.30 in., southeast 0.60 in., elsewhere 0.10 in. Cascade snowfall level 400 feet. Temperatures 5 to 7° below normal high plateau areas, 2 to 4° below normal elsewhere. Soil moisture short to adequate. 1995 winter wheat crop 89% planted, 73% emerged. Winter wheat 33% fair, 61% good, 6% excellent. Fall herbicide, fertilizer applications slowed due to heavy precipitation. Willamette Valley: Squash, pumpkin, cole crops harvest continued, apple, grape harvest nearly complete, foreign Christmas tree harvest full swing, domestic Christmas tree harvest underway. Dormant spraying underway pear, apple orchards, Willamette, Rogue, Hood River valleys. Livestock good. Range, pastures received good rainfall. Supplemental feeding continued statewide, some hay supplies getting low. Fall cattle work continued. Range, pastures feed poor to good.

**PENNSYLVANIA:** Warm early in week, cold weekend. Many areas reported coldest overnight minima of season. Temperature 50°, 6° above normal. Extremes 15°; 77°. Precipitation 0.71 in., 0.02 in. above normal.

Days suitable for fieldwork 5. Soil moisture 17% short, 81% adequate, 2% surplus. Soybean harvest 83% complete, 69% 1993. Fall plowing 95% complete, 90% 1993. Fourth cutting alfalfa 91% complete, 85% 1993. Quality of hay made 33% poor, 56% fair, 11% good. Activities: Making hay; harvesting soybeans, corn grain; plowing; cleaning, repairing, storing equipment; fixing fences; hauling manure; caring for livestock.

**PUERTO RICO:** Average rainfall at 2.39 in. was 0.85 in. above normal. Highest weekly rainfall was 6.40 in. at Pico del Este, with highest 24 hour rainfall 2.44 in. at Maunabo on 11th. Island temperatures from 77° to 78° on coasts, 72° to 76° interior. Extremes 59°; 93°.

**SOUTH CAROLINA:** Rainfall 0.50 in. Temperatures 1° above normal in Upstate, 6° above normal in Lowcountry.

Days suitable for fieldwork 5.7. Soil moisture 19% short, 81% adequate. Cotton 3% fair, 87% good, 10% excellent; 69% harvested, 86% 1993, 78% avg. Soybeans 25% fair, 71% good, 4% excellent; 98% leaves turning, 100% 1993, 100% avg.; 89% dropping leaves, 95% 1993, 93% avg.; 82% mature, 82% 1993, 86% avg.; apples good; 98% harvested, 98% 1993, 99% avg. Barley 62% planted, 69% 1993, 65% avg.; 53% emerged, 58% 1993, 53% avg. Oats 64% planted, 74% 1993, 66% avg.; 49% emerged, 61% 1993, 50% avg. Peanuts 94% harvested, 95% 1993, 95% avg. Rye 57% planted, 78% 1993, 68% avg.; 42% emerged, 65% 1993, 55% avg. Sweet potatoes 60% harvested, 82% 1993, 82% avg. Winter wheat 38% planted, 25% 1993, 24% avg.; 18% emerged, 15% 1993, 13% avg. Sorghum good; 74% harvested, 77% 1993, 80% avg. Fall hay good; 95% harvested, 96% 1993, 95% avg. Pasture feed 4% poor, 18% fair, 71% good, 7% excellent.

**SOUTH DAKOTA:** Temperatures normal to 5° above normal, west; 4 to 8° above normal, east. Extremes 14°; 71°. Light precipitation west, north. Heaviest 0.62 in. west central.

Days suitable for fieldwork 6.1. Topsoil 1% very short, 19% short, 78% adequate, 2% surplus. Subsoil 2% very short, 27% short, 64% adequate, 7% surplus. Winter rye 1% fair, 74% good, 25% excellent. Livestock 2% fair, 76% good, 22% excellent. Feed supply 4% short, 83% adequate, 13% surplus. Pastures fed 81% of normal. Stockwater supply 3% short, 84% adequate, 13% surplus. Farm activities: Preparing equipment for winter storage, hauling hay, fall tillage.

**TENNESSEE:** Temperatures 6 to 8° above normal except about 3° above normal northeast. Highs were around 70° with average lows ranging from the lower 50s southwest to upper 30s northeast. Only the extreme southwest received above normal rainfall with 1.05 in. of rain falling in Memphis 9th night into 10th. Elsewhere amounts were well below normal ranging from 0.06 in. at Jackson to 0.53 in. Knoxville.

Days suitable for fieldwork 4.4. Soil moisture 8% short, 82% adequate, 10% surplus. Cotton 85% harvested, 91% 1993, 87% avg. Burley 61% stripped, 60% 1993, 56% avg.; soybeans 96% mature, 97% 1993, 100% avg.; 70% harvested, 74% 1993, 73% avg.; wheat 80% seeded, 79% 1993, 80% avg. Wheat 20% fair, 67% good, 13% excellent. Cattle 12% fair, 83% good, 5% excellent.

**TEXAS:** A front passed through Texas last week, bringing scattered, light rainfall. The front entered 8th along the Panhandle, continued to progress through central Texas 9th. Moderate rainfall amounts were received in north central Texas. Front exited 10th, bringing light rainfall to much of south Texas. A cold front, bringing light rain, entered the High Plains late 13th, should progress through the State by 9th. All districts recorded below average rainfall amounts, except the north central district which was +0.13 in. above normal. No stations recorded more than an inch. Highest total was recorded at Longview at 0.99 in., numerous locations did not receive any rainfall. Below normal departures -0.02 in. in Trans-Pecos to -0.56 in. in Upper Coast. East Texas recorded below average departure at -0.53 in. All districts recorded at or above normal temperatures, except the Low Plains district which was -4° below average. Above normal departures ranged from +1° in Upper Coast to +2° in remainder of districts except North Central, High Plains which recorded normal temperatures. Soil temperatures 55° at Bushland to 72° at Beeville, Beaumont. Highest maximum soil temperature was 87° at Beaumont, lowest minimum soil temperature was 41° at Bushland.

**Crops:** Cotton: harvest continued across the Plains. Cooler temperatures, frosts should aid in harvest, damp conditions caused some delays; 100% bolls opening, 100% 1993. Cotton 62% normal, 73% 1993. Peanuts: light rain, cool temperatures across Plains continued to cause minor delays to harvest. In Cross Timbers, Blacklands, harvest also slowed by weather conditions. Mild weather conditions in South Central Texas allowed harvest to make good progress, begin to wind down. Peanut 75% normal, 60% 1993. Sorghum: harvest continued to wind down in Plains, some areas were still delayed due to wet fields, 100% mature, 100% 1993. Soybeans: harvest proceeded in areas where weather conditions allowed. However, most areas were delayed due to wet conditions. Small grains: wet fields caused further delays to completion of small grain planting in Blacklands. Most planted fields continued to make excellent progress, benefit from moisture. Greenbugs, army worms were beginning to cause problems in some fields. Producers were busy applying fertilizer, herbicides in South Texas. Wheat 74% normal, 68% 1993. Oats 79% planted, 73% 1993.

**Commercial Vegetables:** Rio Grande Valley: warm weather conditions early in week allowed citrus harvest to push forward. Minimal delays

occurred during end of week as cooler temperatures prevailed. Cucumber harvest continued, onions made good progress. San Antonio Winter Garden: cabbage, spinach harvest continued. Trans Pecos: fall onion planting nearly completed. Remaining bell peppers harvested. East Texas: sweet potato harvest ended due to wet weather conditions. Cole crops made good progress. Pecans: harvest continued as weather conditions allowed, with fair yields being reported. Some areas in Blacklands, Cross Timbers were experiencing mildew problems due to excessive wet weather conditions. Peaches: producers were busy applying fungicide sprays to orchards in East Texas, were preparing to prune trees.

**Range and Livestock:** Cooler temperatures caused delays in growth of winter pasture, ranges. In Trans Pecos, pasture, ranges remained short, dry causing producers to continue to sell cattle because of limited amounts of grass. Stocker movement continued on limited basis in areas where fields were dry enough. Livestock were in fair to good condition.

**UTAH:** Temperature 1° below normal; minimums 3° above normal. Precipitation moderate in the north central, northern mountain divisions, light across western, south central divisions, zero for the rest of the State.

Major farm, ranch activities: fall plowing, harvesting corn grain, harvesting pecans (Washington county), shipping onions, feeding, branding, vaccinating, shipping cattle. Many farm activities slowed due to snowfall.

**VIRGINIA:** No weather data available.

Days suitable for fieldwork 5.8. Topsoil 64% short, 36% adequate. Pasture feed 36% poor, 42% fair, 19% good, 3% excellent. Corn for grain harvest 92%, 96% 1993, 94% avg. Soybeans harvest 48%, 51% 1993, 59% avg. Small grain, grazing crop 8% poor, 36% fair, 53% good, 3% excellent. Cotton harvested 75%, 81% 1993, 61% avg. Winter apples harvested 100%, 97% 1993, 97% avg. Wheat seeded 74%, 74% 1993, 73% avg. Oats seeded 100%, 99% 1993, 97% avg. Barley seeded 97%, 96% 1993, 93% avg. Sweet potato harvest 100% completed. Forage from pastures, winter grazing crops dairy cattle 14%, beef cattle 81%, sheep 83%. Feeder cattle sales continued with crop harvesting. Some counties reported extremely dry conditions.

**WASHINGTON:** Temperatures 2 to 7° below normal west; 5 to 10° below normal east. Precipitation 0.32 to 1.89 in. west; 0.02 to 2.07 in. east.

Days suitable for fieldwork 3.7. Soil moisture 56% short, 38% adequate, 6% surplus. Hay, other roughage supplies 2% very short, 11% short, 85% adequate, 2% surplus. Range, pasture feed 27% very poor, 60% poor, 12% fair, 1% good. Winter wheat, dryland 1% very poor, 26% poor, 59% fair, 14% good; irrigated, 16% fair, 72% good, 12% excellent. Corn 10% fair, 90% good. Winter wheat 95% planted, 100% 1993, 99% avg.; 73% emerged, 92% 1993, 94% avg. Potatoes 100% harvested, 99% 1993, 98% avg. Corn grain 87% harvested, 65% 1993, 61% avg. Rain, snow curtailed field activities. Winter wheat planned to be planted cannot occur without break in weather. Pastures were becoming dormant. Most cattle were on full or supplemental feed. Christmas tree harvest continued.

**WEST VIRGINIA:** Temperature 50°. Extremes 19°; 79°. Precipitation 0.45 in.

Farm activities: Sowing barley, wheat, harvesting corn, soybeans, chopping silage, marketing of calves, moving of cattle, equipment maintenance.

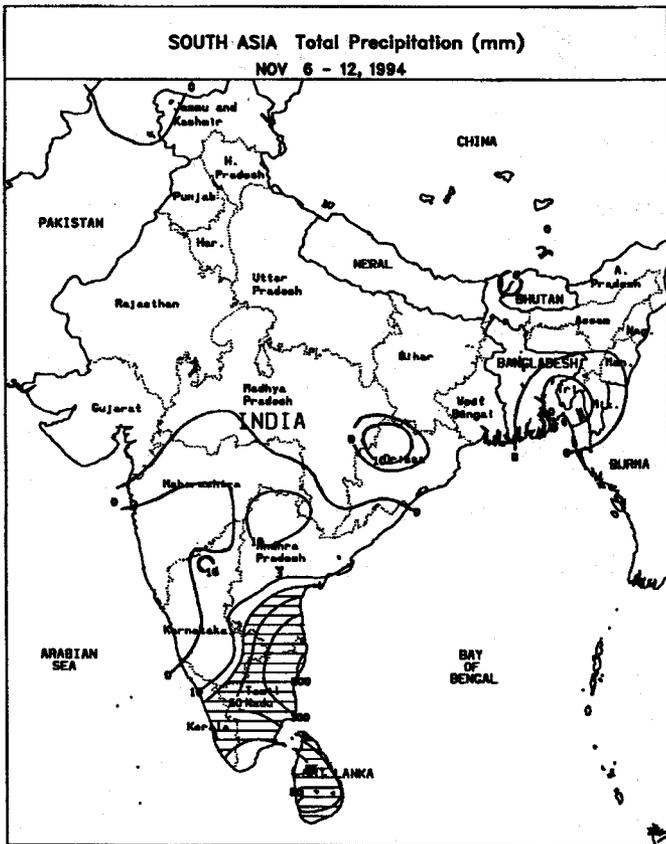
**WISCONSIN:** Temperature 43°, 8° above normal. Extremes 15°; 66°. Precipitation trace to 0.30 in.

Days suitable for fieldwork 6.0. Soil moisture 12% short, 83% adequate, 5% surplus. Corn harvested for grain 83%, 68% 1993, 69% avg. Soybeans harvested 98%, 99% 1993, 95% avg. Fall tillage 61%, 61% 1993, 53% avg. Hay, roughage supplies 1% short, 75% adequate, 24% surplus. Excellent fall weather has enabled farmers to complete fieldwork ahead of usual. Fall tillage, soybean harvested, corn harvested for grain are ahead of their five year averages. Southeastern corner of the State received much needed rain over the past year. Harvesting of corn moved closer to completion during past week. Reporters said that 83% of corn was harvested, 14 points high than 5-year average. High yields are causing storage problems across the State. Farmers waiting in long lines at the elevators since most of the bins in the State are full. Some farmers are putting corn on the ground, others are storing the corn right on the stalks. Soybean harvest is complete with reports of above normal yields.

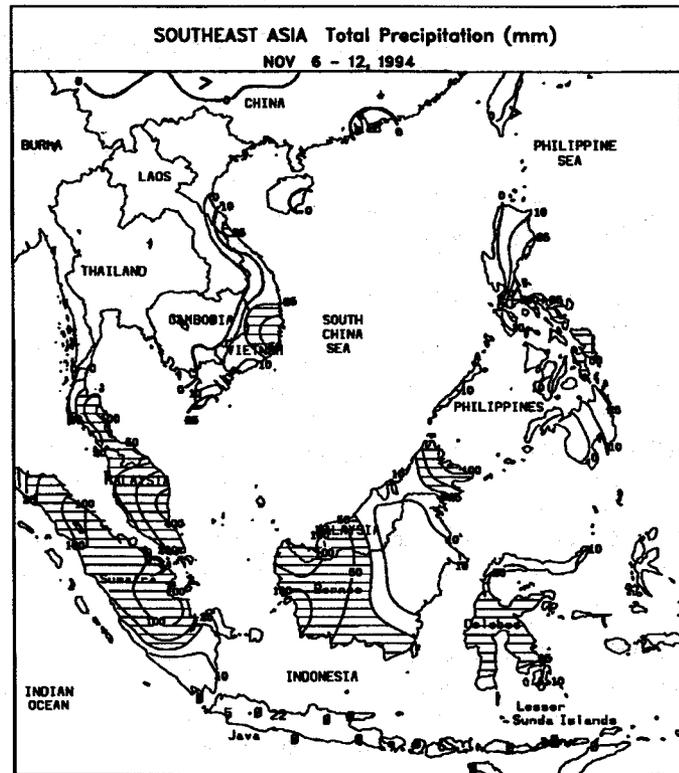
**WYOMING:** Temperatures slightly above normal. Most areas 1 to 3° above normal. Warmest south central 4 to 6° above normal. Precipitation near normal. Most in northwest which received 0.50 to 1.00 in. Other areas received 0.10 to 0.20 in.

Sugarbeet harvest wrapped up. Corn harvest made progress. Livestock feeding helped by warm weather in most areas.



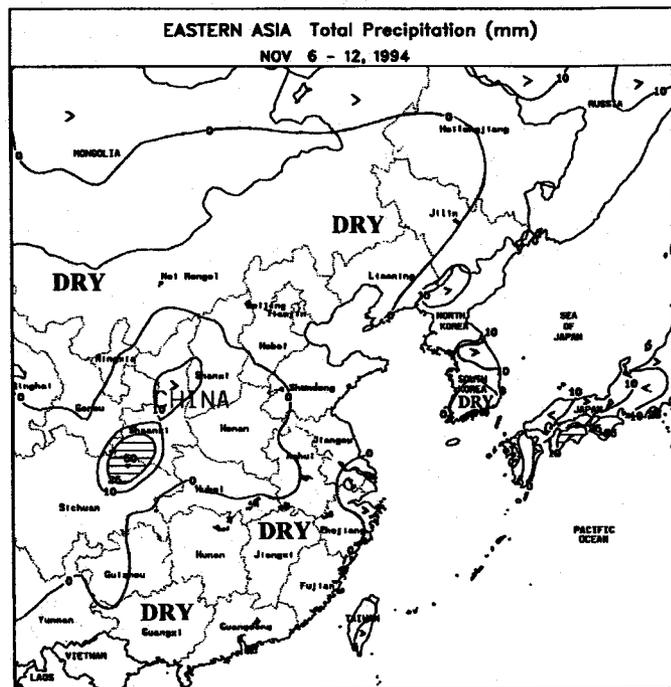


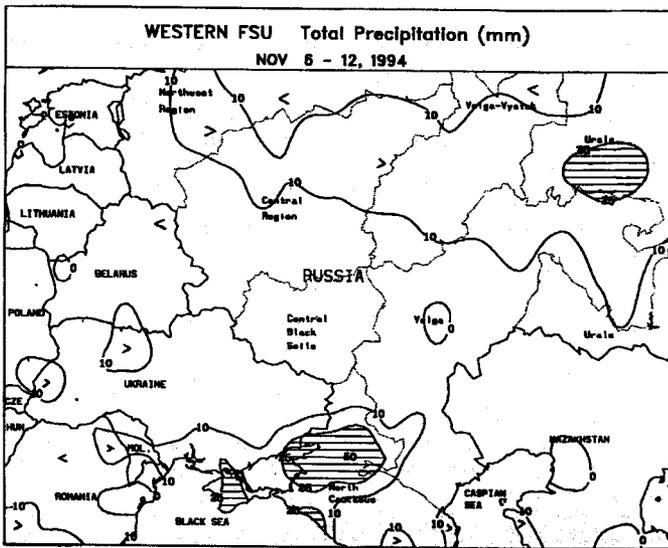
**SOUTH ASIA:** Inundating rain (100-202 mm) persisted over a small section of India's southeast coast (Tamil Nadu and southern Andhra Pradesh). The heavy rain caused additional local flooding to rice. Farther inland, scattered, light rain (5-25 mm) benefited immature grains, oilseeds, and cotton. Dry, warm weather elsewhere promoted main season crop harvesting across northern growing areas. Winter wheat and oilseed planting progressed across northern growing areas.



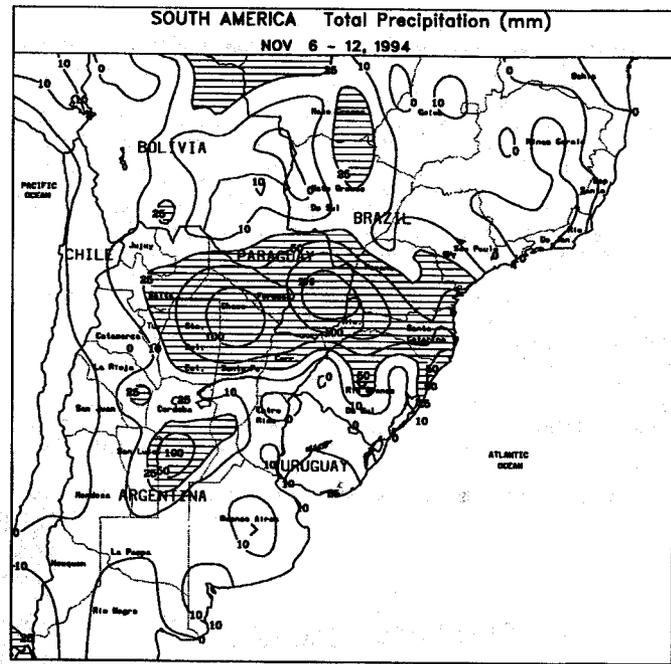
**SOUTHEAST ASIA:** Rainfall tapered off over Java, with only a few locations receiving more than 25 mm. Following last week's rain, planting activities were likely underway. However, due to the lateness in planting and limited moisture reserves (from the protracted drought), additional rain in upcoming weeks will be crucial for normal crop development. In contrast, heavy rain (50-100 mm or more) covered Malaysia and northern Indonesia. Inundating showers (200-500 mm or more) caused some flooding and possible crop damage in sections of western Malaysia's oil palm region. Elsewhere in Indochina, moderate to heavy rains (25-100 mm) were limited to peninsular Thailand and local areas of Vietnam. In the Philippines, mostly moderate showers (25-94 mm) benefited secondary grains over southern Luzon and the central islands.

**EASTERN ASIA:** Dry weather continued across the primary summer crop areas of China and South Korea, as harvesting progressed. Scattered light to moderate rain (10-50 mm) caused only minor rice harvesting delays across Japan. Temperatures averaged 3-6 degrees C above normal across northern and central China, promoting vegetative winter wheat growth.

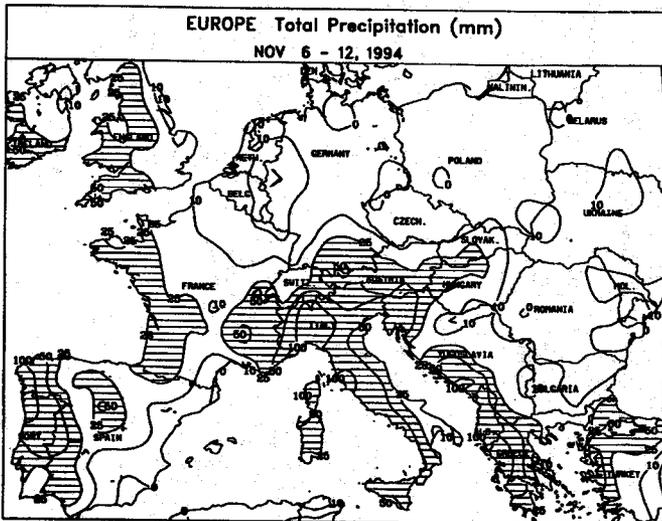




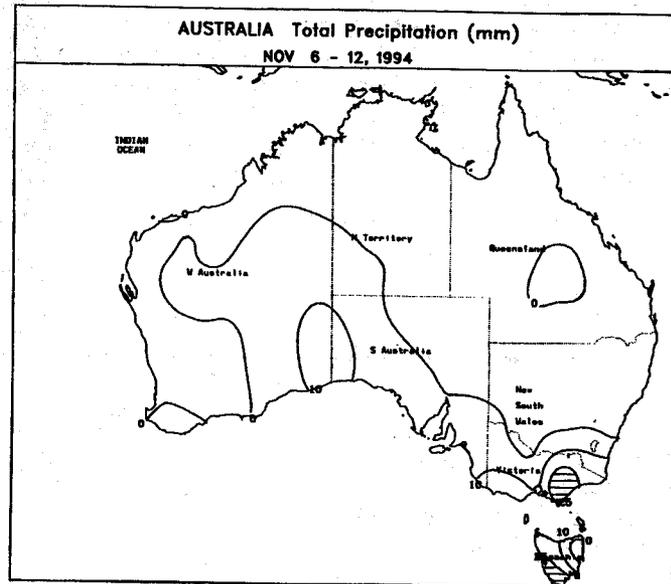
**FSU-WESTERN:** Unseasonably cold weather continued over the region, inducing dormancy in winter grains over the Baltic States, Belarus, northern Ukraine and most of Russia (Northwest Region, Central Region, Volga Vyatsk, Central Black Soils Region, and the Volga Valley). Weekly average temperatures were 2 to 4 degrees Celsius (C) below-normal over the region. Lowest temperatures occurred during a cold snap early in the week, ranging from -5 to -11 degrees C over Ukraine, Belarus, and the Baltic States, and -8 to -17 degrees C over Russia. Light to moderate precipitation (10-25 mm, with local amounts in excess of 30 mm), falling mainly as rain, provided much-needed moisture for drought-stricken winter wheat in southern Ukraine and the North Caucasus region in Russia. However, the weather remained too cool to allow further establishment of poorly developed crops. In cotton growing areas of Central Asia, light to moderate showers (9-15 mm, with local amounts in excess of 30 mm) slowed cotton harvesting.



**SOUTH AMERICA:** Light to moderate showers (10-35 mm) covered the primary soybean areas of southern Brazil, keeping soils moist for planting. Heavy rain (70-100 mm), however, fell across western Parana, Santa Catarina, and southern Paraguay, slowing summer crop planting, as isolated torrential rains (200-350 mm) caused flooding. In southern Minas Gerais and Sao Paulo, scattered light rain (4-18 mm) continued to bring relief to citrus and coffee. More rain is still needed in this region as warm weather (temperatures averaging 3-6 degrees C above normal) increased evaporation rates. Temperatures averaged 2-4 degrees C above normal across the center-west states of Mato Grosso and Mato Grosso do Sul and near normal across Rio Grande do Sul. In Argentina, scattered showers (5-25 mm) benefited filling wheat and germinating corn across southern Santa Fe and Buenos Aires. More widespread showers (10-30 mm, with an isolated amount greater than 100 mm) fell in southern Cordoba. Heavy showers (70-150 mm) slowed cotton planting across portions of northern Argentina. Temperatures averaged 1-2 degrees C above normal across the crop areas of central Argentina.



**EUROPE:** Stormy weather soaked Europe's Atlantic coast from western England (20-57 mm) to western Spain and Portugal (25-149 mm). Storms reintensified in the Mediterranean, producing widespread heavy rain (100-185 mm) in northwestern Italy and western Greece, and moderate rain (25-75 mm) from southern Italy to northwestern Hungary. Excessive wetness and flooding hit major agricultural areas of northwestern Italy. In France, showers (20-40 mm) in the southwest slowed late harvesting, while periodic rain (30-78 mm) kept the Rhone River Valley very wet. Light precipitation (less than 10 mm) caused few delays in sugar beet harvesting from northeastern France to Poland. Precipitation was also light (1-7 mm) in Romania and Bulgaria, allowing late season fieldwork to progress. Minimum temperatures generally remained above freezing, except in extreme eastern Europe, where they fell slightly below freezing. Average temperatures generally ranged from 2 to 4 degrees C above normal everywhere except in the extreme east, where temperatures averaged near to slightly below normal.



**AUSTRALIA:** Light to moderate rain (5-15 mm) favored late-filling wheat across South Australia and Victoria. Mostly dry weather elsewhere aided maturing winter grains. While rain is still needed across southern Queensland and northern New South Wales for summer crops, the growing season for winter wheat is over. Temperatures averaged 1-3 degrees C above normal in the west and east and 1-2 degrees C below normal across the south.

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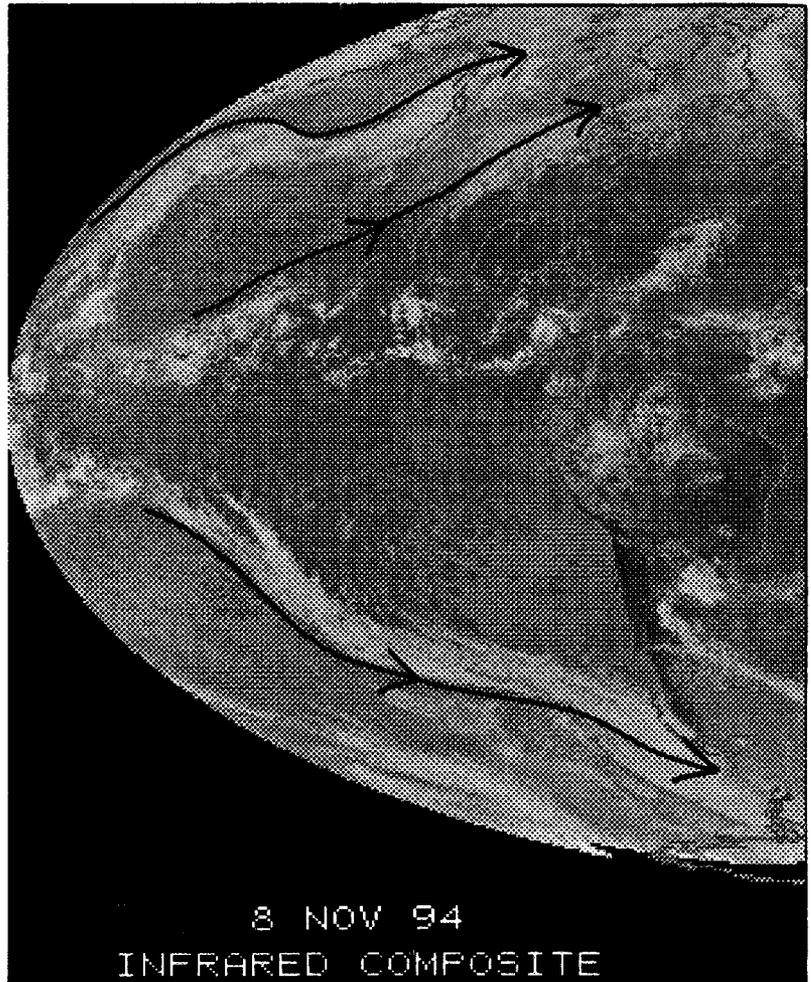
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## A Tropical Link to the Americas' Moisture

In the satellite photo on the right, taken on November 8, 1994, jet stream energy is affecting both North and South America. Approximate jet stream (upper atmospheric wind maxima) positions are denoted by black arrows. Recent heavy precipitation events in the United States (Pacific Northwest and Texas) and South America (southern Brazil) have exhibited a tropical connection.

Statistical studies have shown that during the development phase of a warm episode (El Niño), heavier-than-normal rainfall typically begins to occur in the southern United States, northern Mexico, and east-central South America. The moisture originates in the central or eastern equatorial Pacific, where warmer-than-normal water induces enhanced convection, and is transported to the Americas by the sub-tropical jet stream. Precipitation enhancement along the west coast of North America, including California, though dependent upon other factors, sometimes materializes, with the most recent occurrence in 1992-93.



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