

# 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

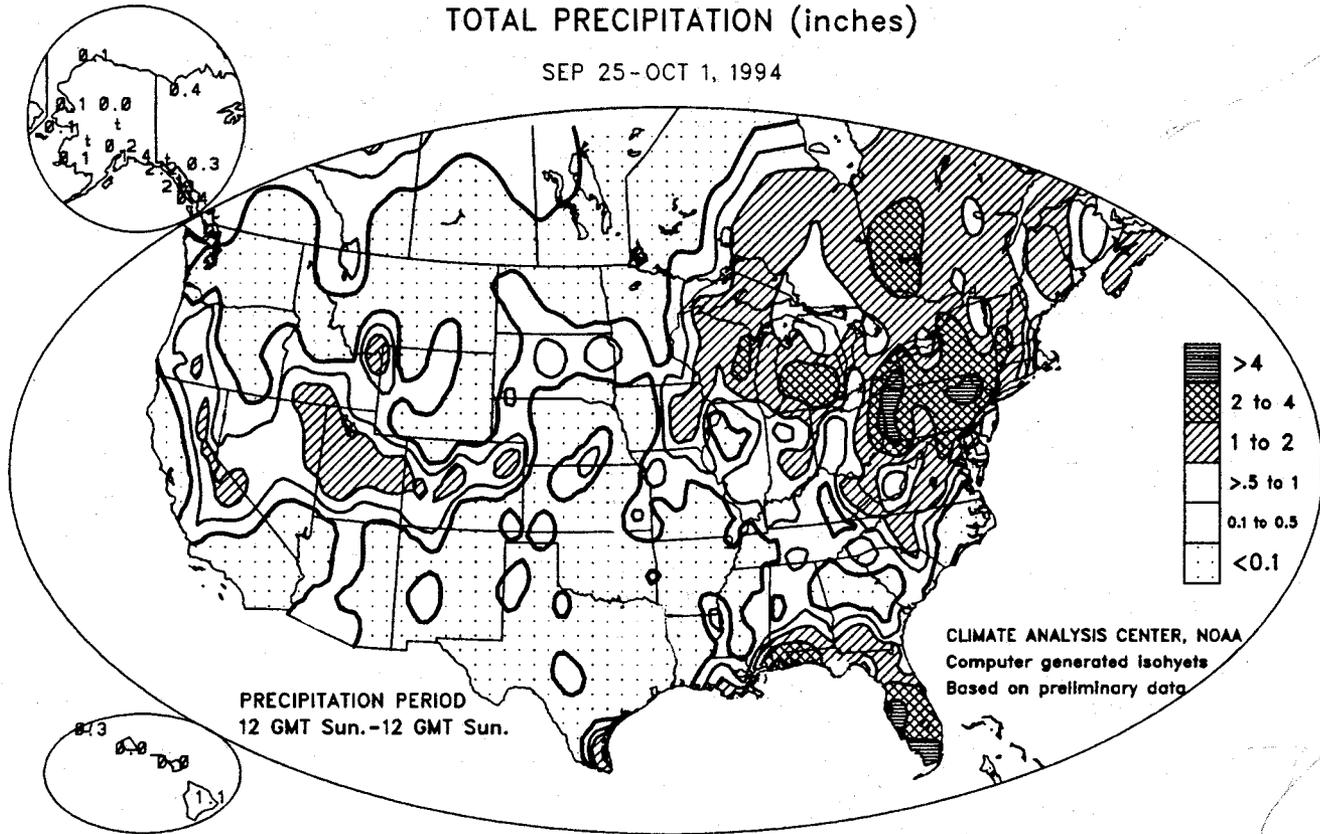
Volume 81, No. 40

Washington, D.C.

October 4, 1994

## TOTAL PRECIPITATION (inches)

SEP 25 - OCT 1, 1994



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

PRECIPITATION PERIOD  
12 GMT Sun. - 12 GMT Sun.

## HIGHLIGHTS

September 25 - October 1, 1994

A pesky area of low pressure moved slowly northward through the **Great Lakes States** during the first half of the week, keeping cool, wet weather across the region. At midweek, a storm system moved ashore into **California**, delivering the first substantial precipitation of the season from the **Sierra Nevada** eastward to **Utah's Wasatch Range**. However, little or no rain fell in the **Northwest**, where temperatures again averaged up to 10°F above normal. Warm, dry conditions also covered the **Southwest** and the **High Plains**. Late in the week, a tropical disturbance approached the **Southeast** bearing heavy rainfall and blustery winds.

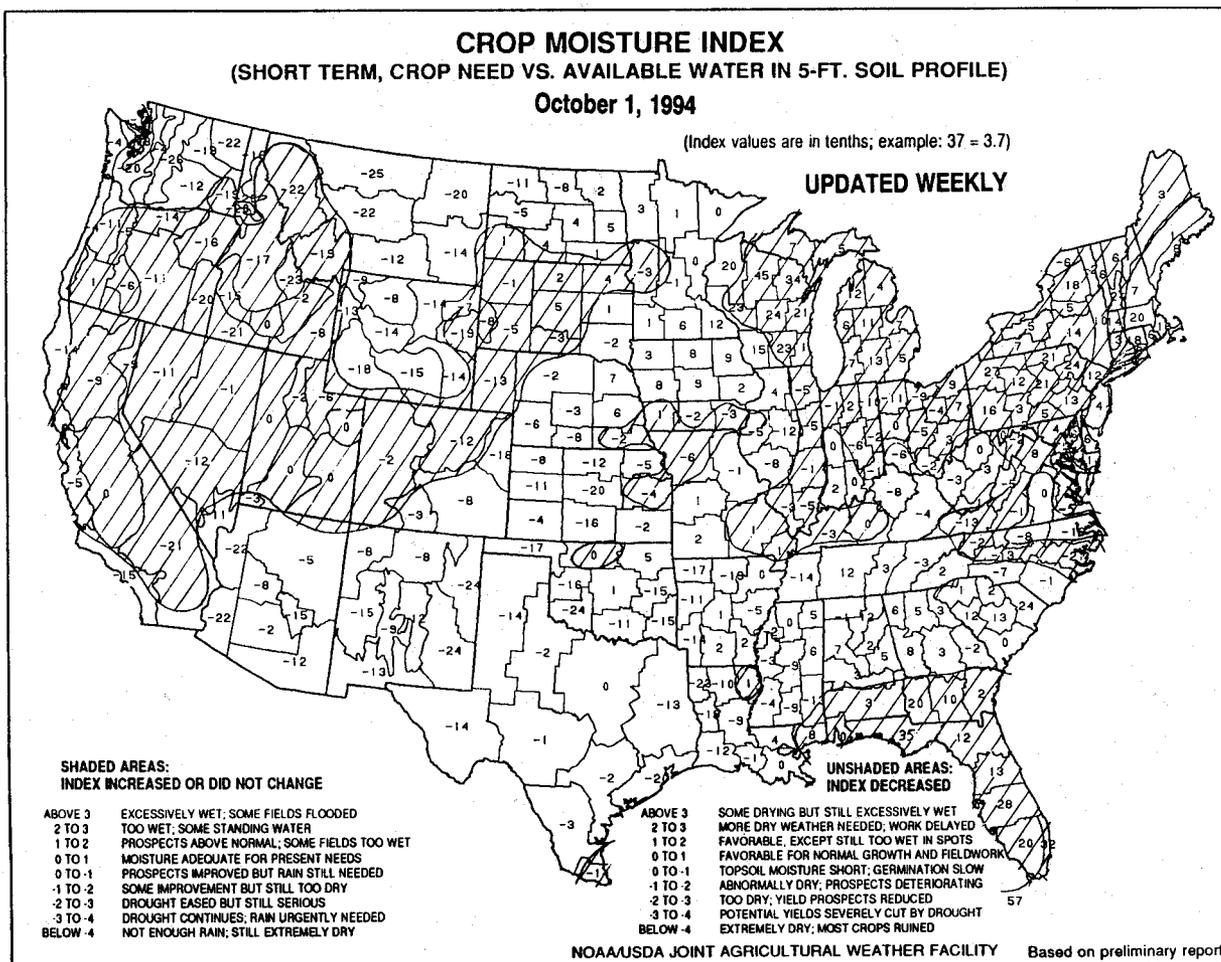
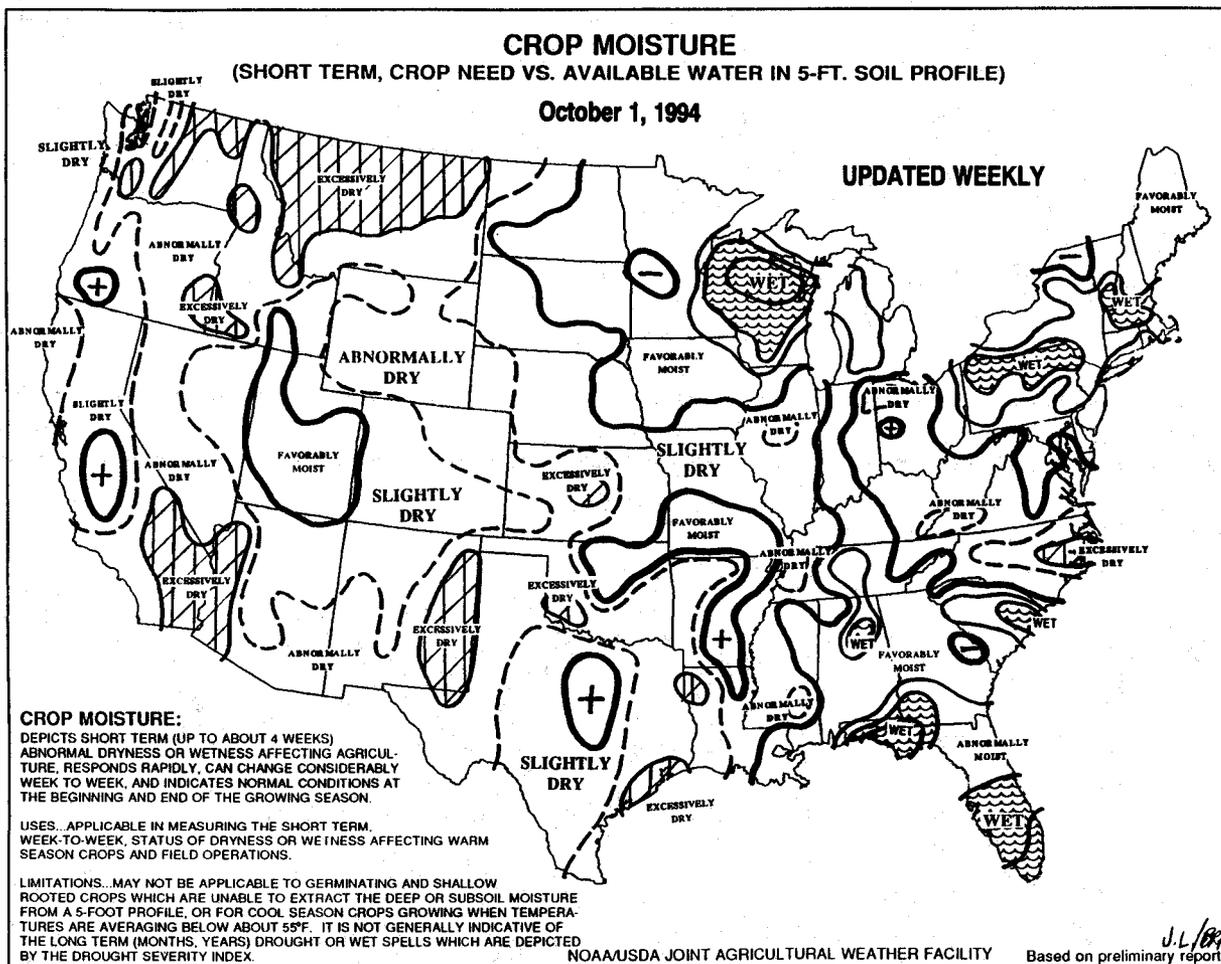
Rainfall departed the **Corn Belt** early in the week, allowing dry-down and harvest activities to resume. However, very heavy rain plagued the eastern

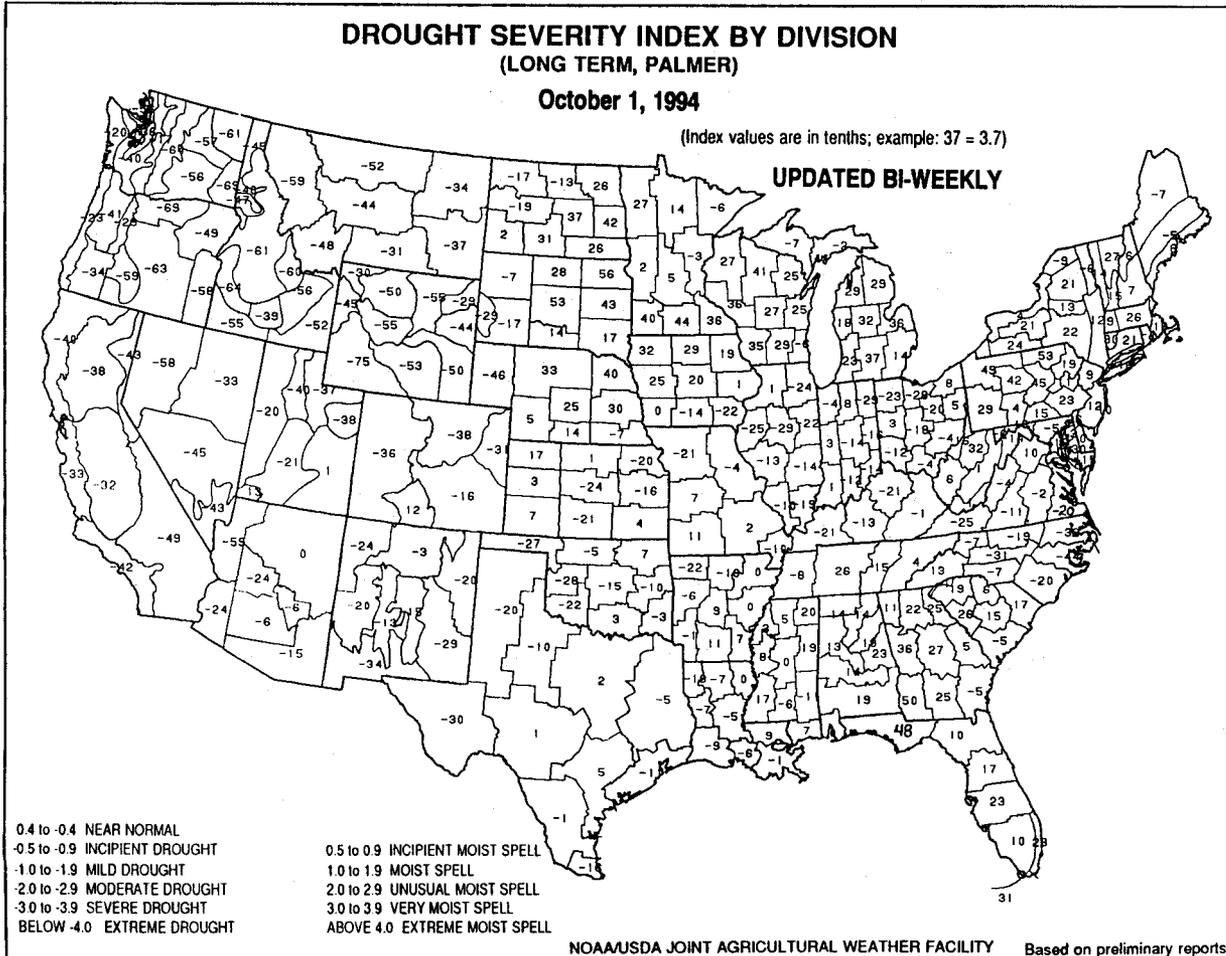
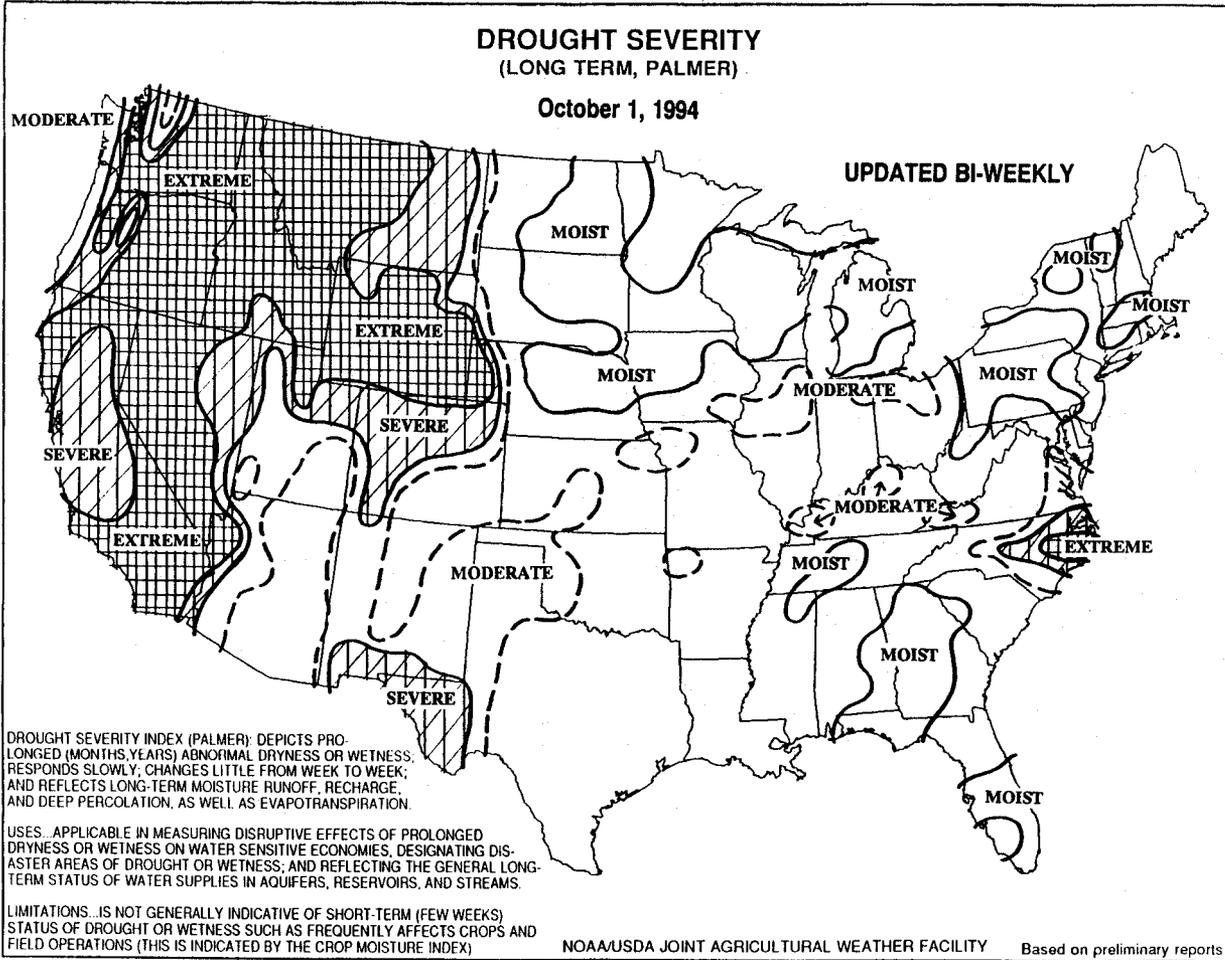
(Continued to p. 8)

## Contents

Page

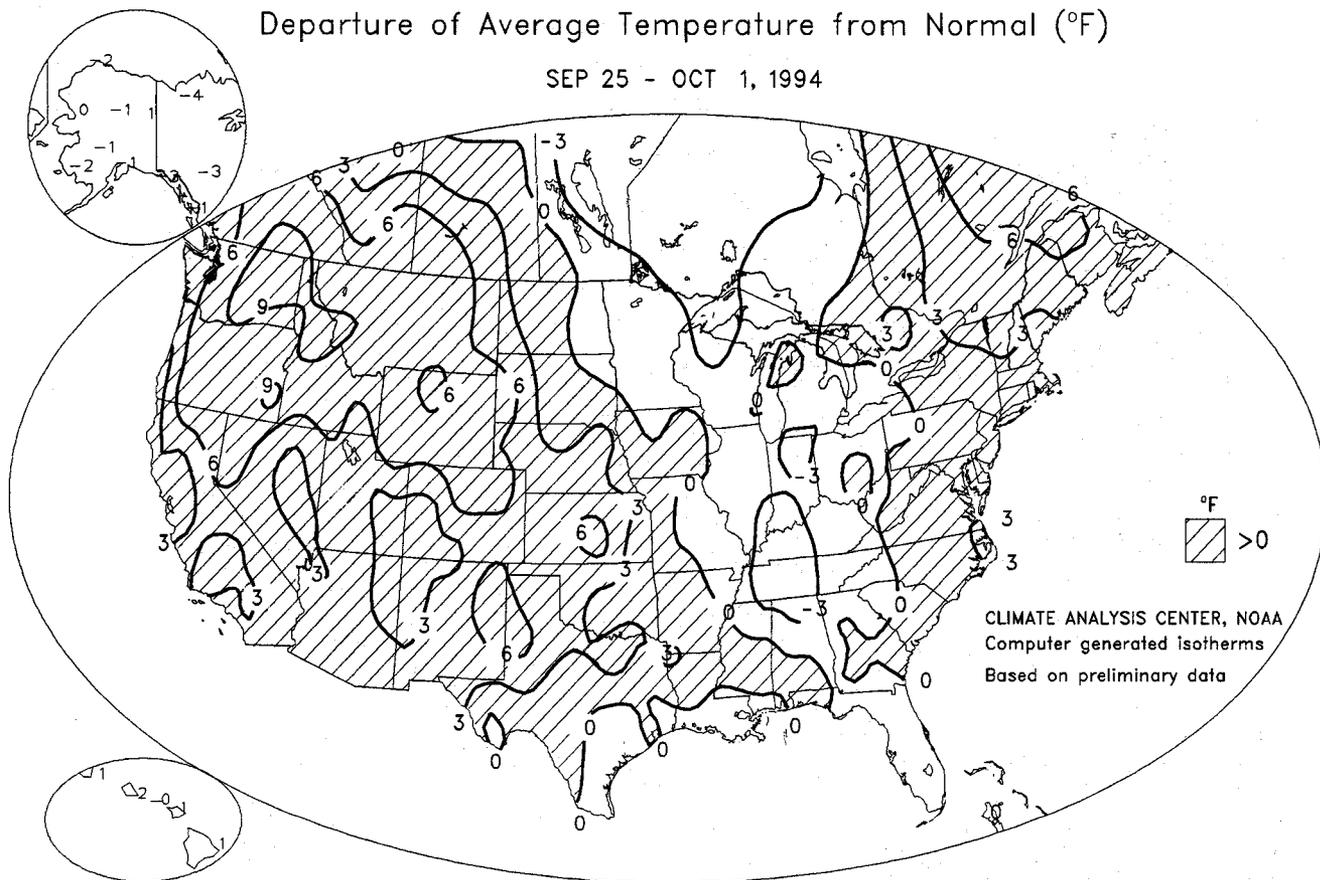
Highlights & Total Precipitation Map .....	1
Crop Moisture Maps .....	2
Drought Severity Maps .....	3
Temperature Departure & Extreme Minimum Temperature Maps .....	4
National Weather Data for Selected Cities .....	5
September Weather Summary .....	8
September Precipitation & Temperature Maps .....	9
September Weather for Selected Cities .....	10
National Agricultural Summary & Extreme Maximum Temperature Map .....	11
Crop Progress and Condition Tables .....	12
State Summaries of Weather and Agriculture .....	14
International Weather and Crop Summary & September Temperature/Precipitation Table ..	19
Subscription and Mailing Permit Information & 90-Day Weather Outlook .....	24





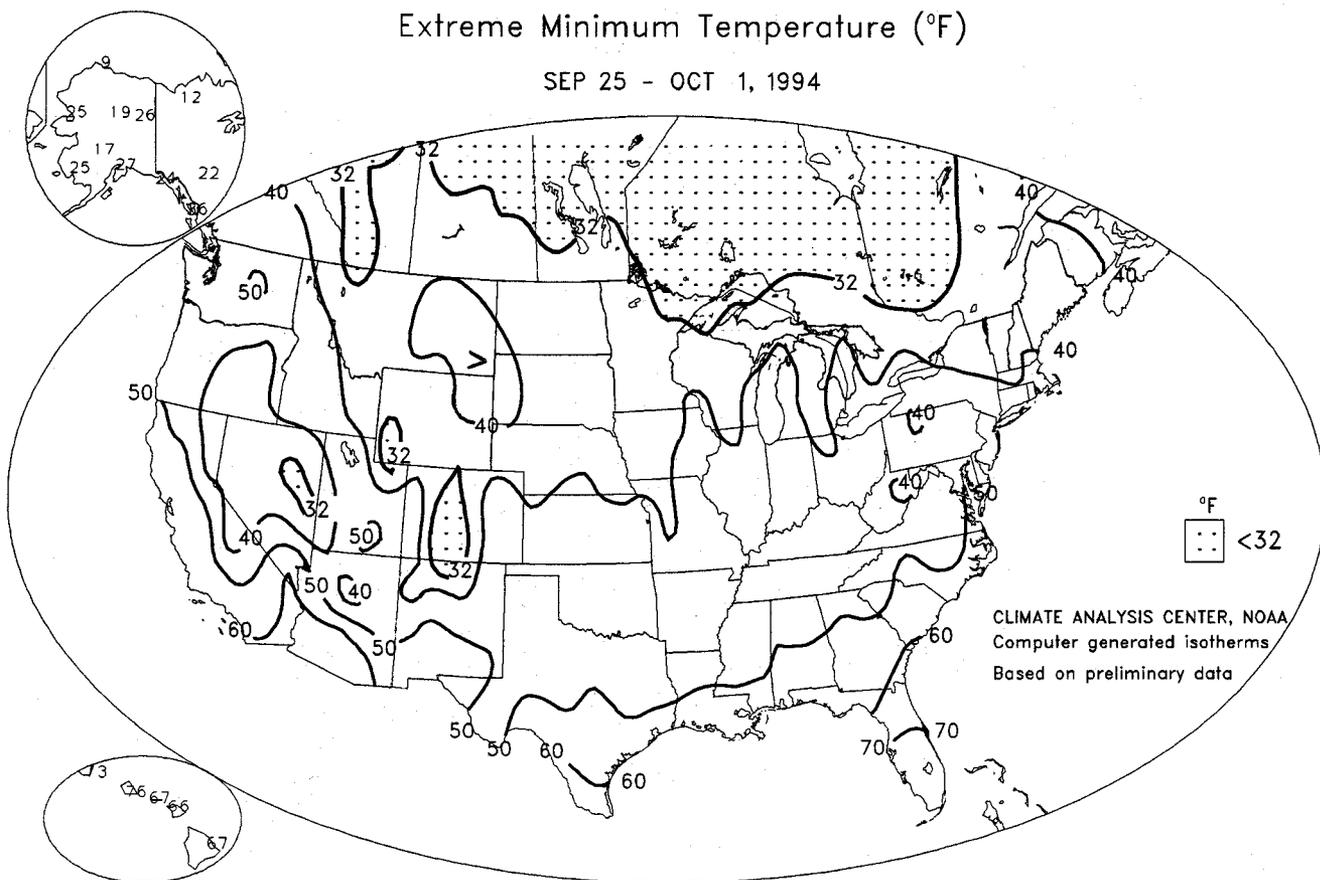
Departure of Average Temperature from Normal (°F)

SEP 25 - OCT 1, 1994



Extreme Minimum Temperature (°F)

SEP 25 - OCT 1, 1994



# National Weather Data for Selected Cities

Weather Data for the Week Ending **October 1, 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
AL BIRMINGHAM	81	54	86	49	67	-3	.0	-.8	.0	4.7	116	47.0	111	92	42	0	0	0	0	
MOBILE	87	61	93	50	74	-1	3.0	1.9	3.0	4.8	79	44.9	87	94	42	3	0	1	1	
MONTGOMERY	87	58	92	50	72	1	.1	-.7	-.1	4.7	122	45.1	104	91	39	3	0	1	0	
AK ANCHORAGE	50	34	55	27	42	-1	.3	-.3	-.2	1.7	61	7.9	67	97	60	0	3	3	0	
BARROW	28	17	34	9	22	-2	.1	.0	.0	.5	74	3.7	105	92	81	0	7	4	0	
FAIRBANKS	46	25	50	17	35	-3	.8	.8	.8	.6	63	6.8	80	97	48	0	6	1	0	
JUNEAU	51	39	52	31	45	-2	.5	-1.3	-.4	8.2	117	34.6	93	97	75	0	2	3	0	
KODIAK	52	35	56	30	43	-3	2.9	1.2	2.9	9.5	131	63.4	132	97	63	0	1	2	1	
NOME	40	28	45	20	34	-3	.1	-.4	-.1	1.1	46	12.8	109	89	64	0	6	1	0	
AZ PHOENIX	97	74	103	68	86	4	.8	-.2	.8	1.7	196	4.5	83	43	15	7	0	1	0	
PRESCOTT	84	53	88	44	68	7	.3	-.0	.3	2.1	104	10.9	71	67	22	0	0	1	0	
TUCSON	98	69	103	66	83	6	.1	-.3	.1	1.5	85	5.3	58	53	15	6	0	0	0	
YUMA	99	77	106	68	88	6	.5	-.3	.5	1.4	434	2.1	96	46	15	6	0	0	0	
AR FORT SMITH	85	55	93	45	70	1	.1	-.1	.0	1.4	8	39.3	130	93	40	3	0	0	0	
LITTLE ROCK	83	58	89	49	71	1	.0	-.1	-.1	.3	8	42.4	117	81	43	0	0	0	0	
CA BAKERSFIELD	89	62	96	58	75	1	1	-.1	1	1.8	38	42.4	117	81	43	0	0	0	0	
BUREKA	64	54	67	52	59	2	.8	-.1	.8	.1	47	4.3	105	56	19	4	0	0	0	
FRESNO	86	61	97	56	74	3	3	-.1	3	.1	6	19.3	87	82	74	0	0	1	0	
LOS ANGELES	80	65	89	61	72	3	3	-.1	3	.2	80	6.3	90	83	24	2	0	1	0	
REDDING	88	59	98	53	73	3	3	-.1	3	.2	0	6.2	76	87	30	0	0	0	0	
SACRAMENTO	87	56	98	52	72	2	2	-.1	2	.2	21	15.2	75	81	28	3	0	2	0	
SAN DIEGO	82	67	93	64	74	4	4	-.1	4	.0	6.7	60	95	49	2	0	0	0	0	
SAN FRANCISCO	71	56	74	53	64	0	0	-.1	0	.1	0	8.2	125	86	30	1	0	0	0	
CO DENVER	82	49	91	42	66	8	.9	-.6	.8	1.1	48	10.8	86	93	54	0	0	0	0	
GRAND JUNCTION	78	51	87	48	65	1	.8	-.6	.6	1.6	150	5.2	69	74	27	1	0	2	1	
FURBIO	86	44	92	36	65	4	.2	.0	.2	.2	24	13.0	133	75	16	2	0	3	1	
CT BRIDGEPORT	67	57	73	47	62	0	2.0	1.2	1.2	4.8	150	33.3	106	92	61	0	0	4	1	
HARTFORD	67	54	75	42	61	2	1.1	-.3	1.0	5.6	143	41.6	127	96	58	0	0	4	1	
DC WASHINGTON	78	59	83	52	69	2	.8	-.1	.7	2.9	85	32.6	111	92	51	0	0	2	1	
FL PANAMA CITY	84	66	89	60	75	0	2.0	-.9	2.0	7.4	130	42.2	80	96	55	0	0	1	1	
DAYTONA BEACH	84	69	86	65	77	-1	.6	-.7	.5	6.0	92	46.3	120	100	68	0	0	3	0	
JACKSONVILLE	86	66	91	63	76	-1	.3	-1.1	.3	9.8	136	49.6	122	97	56	1	0	2	0	
KEY WEST	83	75	88	73	79	-3	10.4	9.1	5.7	13.3	220	35.0	115	90	76	0	0	6	4	
MIAMI	84	75	88	72	79	-1	2.0	-.4	1.1	14.6	186	57.3	125	92	69	0	0	6	1	
ORLANDO	83	71	87	70	77	-2	2.4	1.3	1.3	8.4	136	52.9	128	99	77	0	0	5	2	
TALLAHASSEE	87	62	91	53	75	-1	1.6	-.6	1.1	12.0	211	73.2	136	96	48	2	0	2	2	
TAMPA	83	72	89	71	78	-1	2.1	1.1	1.2	8.2	135	42.2	111	98	75	0	0	4	2	
WEST PALM BEACH	84	73	87	72	79	-2	3.4	1.6	1.0	11.7	157	57.8	126	96	71	0	0	7	4	
GA ATLANTA	82	58	84	53	70	1	.0	-.8	.0	5.9	166	50.7	128	92	43	0	0	0	0	
AUGUSTA	85	54	88	50	70	-1	.0	-.6	.0	.2	8	32.8	91	98	39	0	0	0	0	
MACON	86	58	88	51	72	1	.0	-.6	.0	1.7	59	47.7	134	98	40	0	0	0	0	
SAVANNAH	86	67	91	62	76	3	1.3	-.5	1.3	6.6	145	41.5	99	95	54	1	0	1	1	
HI HILO	86	70	87	67	78	2	1.1	-.9	.4	23.7	269	131.5	141	90	67	0	0	5	0	
HONOLULU	90	77	91	76	83	3	.8	-.3	.8	.2	28	12.2	94	77	4	0	0	0	0	
KAHULUI	89	69	92	66	80	1	.0	-.1	.0	1.1	300	10.5	76	77	53	4	0	0	0	
LIHUE	85	76	86	73	80	2	.3	-.5	.3	1.1	42	21.4	76	80	63	0	0	1	0	
ID BOISE	82	52	88	50	67	9	.8	-.2	.8	.1	12	5.1	60	70	25	0	0	1	0	
LEWISTON	81	54	88	50	67	8	.8	-.2	.8	.4	44	6.7	72	57	25	0	0	1	0	
POCATELLO	77	44	90	36	60	6	.4	-.2	.2	.4	44	5.5	61	89	31	1	0	2	0	
IL CHICAGO	67	50	83	45	59	-2	.2	-.6	-.1	1.0	27	21.3	76	95	61	0	0	3	0	
MOLINE	71	49	89	42	60	0	.3	-.6	.3	1.5	37	24.1	77	94	57	0	0	1	0	
PEORIA	73	50	89	44	61	0	.1	-.7	.1	1.3	32	16.3	57	91	55	0	0	2	0	
QUINCY	73	51	90	46	62	0	.1	-1.0	.1	.3	7	14.5	46	81	42	1	0	1	0	
ROCKFORD	65	47	82	38	56	-3	.4	-.4	.3	6.0	154	29.9	103	99	62	0	0	2	0	
SPRINGFIELD	74	51	90	43	62	-1	.1	-.6	.1	.9	27	27.7	101	87	52	1	0	2	0	
IN EVANSVILLE	75	51	88	46	63	-3	.5	-.2	.5	2.6	81	25.0	72	95	46	0	0	2	1	
FORT WAYNE	68	47	79	42	58	-3	.4	-.2	.2	1.3	46	22.7	85	95	60	0	0	3	0	
INDIANAPOLIS	70	51	86	45	60	-2	.3	-.3	.2	2.2	74	25.7	83	92	54	0	0	2	0	
SOUTH BEND	65	47	77	42	56	-4	1.9	1.1	1.6	4.7	126	27.4	93	96	62	0	0	4	1	
IA DES MOINES	73	49	90	38	61	1	.5	-.4	.5	3.1	80	23.1	82	89	53	1	0	1	0	
SIOUX CITY	75	49	85	39	62	3	.8	-.6	.7	4.6	155	20.9	95	95	48	0	0	0	0	
WATERLOO	70	48	87	38	59	2	.7	-.0	.7	3.7	102	25.7	106	89	51	0	0	2	1	
KS CONCORDIA	82	52	96	41	67	4	.0	-.6	.0	1.0	31	14.2	57	88	30	2	0	0	0	
DODGE CITY	88	53	99	44	70	6	.0	-.4	.0	.9	46	14.6	66	78	23	3	0	0	0	
GOODLAND	84	45	93	39	65	5	.8	-.3	.8	.3	19	11.6	72	80	23	2	0	0	0	
TOPEKA	81	52	91	39	67	3	.1	-.8	.1	1.5	38	20.9	72	87	39	1	0	1	0	
WICHITA	87	57	97	47	72	6	.0	-.8	.0	1.1	27	16.9	59	81	28	3	0	0	0	
KY BOWLING GREEN	75	49	85	43	62	-3	.5	-.3	.5	3.0	79	45.0	117	99	51	0	0	1	0	
LEXINGTON	74	49	85	44	61	-2	.2	-.5	.2	1.2	36	36.8	106	97	51	0	0	2	0	
LOUISVILLE	74	52	84	47	63	-2	.2	-.5	.1	2.9	90	27.0	78	96	51	0	0	1	0	
LA BATON ROUGE	85	62	91	55	73	-1	.4	-.6	.4	4.5	90	50.3	105	97	50	2	0	1	0	
LAKE CHARLES	87	62	93	54	75	0	.0	-1.2	.0	3.5	59	32.4	78	95	44	2	0	0	0	
NEW ORLEANS	86	61	91	54	74	-1	.5	-.6	.5	6.1	108	44.1	90	96	43	2	0	1	0	
SHREVEPORT	92	59	98	46	76	4	.0	-.9	.0	.1	2	34.9	95	87	29	6	0	0	0	

Based on 1961-90 normals.

Weather Data for the Week Ending October 1, 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
ME CARIBOU	64	49	75	42	57	7	1.4	.7	1.0	2.8	79	30.4	113	92	49	0	0	0	4	1
PORTLAND	62	50	67	33	56	1	1.1	.7	1.1	6.6	206	33.6	109	97	59	0	0	0	2	0
MD BALTIMORE	76	56	82	47	66	2	1.9	.3	1.1	4.1	117	37.8	121	94	54	0	0	0	1	1
SALISBURY	77	55	82	45	66	2	1.9	.1	1.1	3.5	93	33.3	95	95	50	0	0	0	2	1
MA BOSTON	66	56	75	48	61	0	1.3	.3	1.1	4.7	148	37.7	125	92	59	0	0	0	3	0
CHATHAM	64	56	69	49	60	1	1.1	.3	1.1	2.4	64	35.1	108	91	64	0	0	0	3	0
MI ALPENA	63	46	70	35	54	1	1.3	.3	1.1	1.6	50	25.1	111	97	59	0	0	0	3	0
DETROIT	66	51	76	42	58	0	1.7	1.1	1.1	2.7	91	24.9	99	94	60	0	0	0	1	1
FLINT	64	47	70	38	56	-1	3.3	2.6	1.1	3.5	97	26.4	113	98	62	0	0	0	6	3
GRAND RAPIDS	65	46	71	40	55	-1	2.1	1.2	1.2	2.4	56	36.8	135	98	61	0	0	0	1	1
Houghton Lake	63	50	70	46	57	3	1.0	.3	1.3	1.8	52	23.5	107	95	60	0	0	0	7	0
LANSING	65	47	74	37	56	-1	2.2	1.4	1.4	3.1	79	27.5	114	99	62	0	0	0	6	1
MARQUETTE	54	41	59	31	47	-3	1.9	1.0	.7	2.9	70	20.0	76	96	70	0	0	1	4	3
MUSKEGON	65	48	71	41	57	0	2.3	1.5	.7	3.3	82	26.3	111	98	59	0	0	0	4	1
SADLT ST. MARIE	55	43	60	34	49	-2	.7	.1	.4	1.5	39	22.3	90	95	66	0	0	0	4	0
MN ALEXANDRIA	62	42	73	38	52	-2	.3	.3	.3	2.3	82	14.3	66	95	52	0	0	0	1	0
DULUTH	56	40	65	35	48	-2	.3	.3	.3	5.6	142	25.4	103	89	66	0	0	0	3	0
INT'L FALLS	58	35	66	32	46	-3	1.1	.6	1.1	3.7	114	19.5	95	93	55	0	2	1	0	0
MINNEAPOLIS	65	46	75	43	55	0	.7	.5	.7	4.7	170	23.1	98	92	49	0	0	0	1	0
ROCHESTER	63	46	72	40	55	0	.2	.5	.2	3.6	102	27.3	110	95	61	0	0	0	1	0
MS GREENWOOD	87	57	93	46	72	1	1.0	.8	.8	1.8	52	34.5	86	92	37	3	0	0	0	0
JACKSON	86	57	91	46	71	0	1.0	.7	.6	1.8	59	45.2	111	92	38	2	0	0	0	0
MERIDIAN	88	57	93	50	73	1	1.1	.8	.8	2.3	63	51.0	118	92	37	4	0	0	0	0
MO CAPE GIRARDEAU	76	50	87	45	63	-3	1.1	.7	1.1	2.6	70	31.6	90	96	42	0	0	0	1	0
COLUMBIA	73	51	88	42	62	-1	.7	.7	.7	1.0	25	27.8	94	90	53	0	0	0	2	0
KANSAS CITY	78	53	89	41	65	2	1.2	.9	.2	2.7	53	22.1	71	87	44	0	0	0	1	0
SAINT LOUIS	76	56	92	50	66	0	1.4	.3	.3	1.2	37	25.4	89	83	49	1	0	0	2	0
SPRINGFIELD	77	52	88	41	65	0	.7	1.0	1.0	1.9	38	35.7	107	90	46	0	0	0	0	0
MT BILLINGS	75	50	84	47	63	8	.7	.3	.3	1.3	94	10.2	82	67	27	0	0	0	0	0
GLASGOW	73	46	83	43	60	7	.7	.2	.2	.2	17	7.7	79	83	31	0	0	0	1	0
GREAT FALLS	77	43	86	35	60	7	.7	.2	.2	.4	27	8.1	63	69	29	0	0	0	0	0
HAVRE	77	44	88	37	60	8	.7	.2	.2	1.1	9	5.8	60	78	25	0	0	0	0	0
HELENA	79	43	88	39	61	10	1.1	.2	.1	1.1	8	5.7	57	83	21	0	0	0	1	0
KALISPELL	76	35	82	32	55	7	.3	.0	.3	.8	58	7.8	62	93	40	0	1	1	0	0
MILES CITY	74	47	85	45	60	6	.7	.3	.7	1.3	96	7.5	62	81	31	0	0	0	1	0
MISSOULA	80	41	86	38	61	10	.7	.2	.7	.3	27	9.1	84	79	24	0	0	0	0	0
NH GRAND ISLAND	78	47	92	40	62	3	1.0	.6	.0	1.3	45	18.6	85	93	44	1	0	0	0	0
LINCOLN	77	48	93	36	63	2	1.0	.7	.5	.5	14	16.4	68	95	42	1	0	0	0	0
NORFOLK	77	48	88	40	62	4	.7	.5	.7	2.7	107	25.5	117	92	44	0	0	0	0	0
NORTH PLATTE	80	42	95	37	61	5	.7	.3	.7	.6	37	14.8	86	94	35	1	0	0	0	0
OMAHA	77	50	93	38	63	3	1.0	.8	.0	5.0	131	25.9	103	91	47	1	0	0	0	0
SCOTTSBLOFF	81	44	92	37	63	6	.3	.0	.3	.7	62	11.7	88	80	26	1	0	2	0	0
VALENTINE	76	43	84	35	59	0	.7	.5	.7	.7	1	15.8	80	81	35	0	0	0	0	0
NV ELY	72	39	83	33	56	4	1.0	.7	.9	1.0	90	7.0	88	88	34	0	0	0	2	1
LAS VEGAS	93	68	99	61	81	5	.7	1.1	.7	.4	121	1.2	39	36	14	5	0	0	0	0
RENO	79	47	91	40	63	7	1.1	.0	1.1	.2	42	3.3	63	86	25	1	0	1	0	0
WINNEMUCCA	81	41	92	35	61	6	.2	.1	.1	.2	52	5.0	85	80	22	3	0	2	0	0
NH CONCORD	64	51	71	41	57	3	.8	.2	.8	3.6	122	28.4	107	96	55	0	0	0	2	1
NJ ATLANTIC CITY	72	53	77	46	62	1	1.4	.2	.4	3.8	127	36.4	119	94	60	0	0	0	3	0
NM ALBUQUERQUE	84	54	89	52	69	5	.7	.2	.7	1.2	120	7.6	108	46	15	0	0	0	1	0
CLOVIS	91	57	95	50	74	9	.7	.4	.7	.2	9	8.8	59	47	11	5	0	0	0	0
ROSWELL	93	54	97	49	74	5	.0	.4	.0	.5	25	6.0	56	49	12	6	0	0	0	0
NY ALBANY	65	52	73	40	59	2	1.1	.5	.9	2.3	75	30.0	110	95	65	0	0	0	3	1
BINGHAMTON	61	50	73	43	56	0	1.8	1.0	.9	2.7	79	35.7	128	96	78	0	0	0	6	1
BUFFALO	66	51	77	45	58	0	3.1	2.4	1.3	3.5	97	28.4	101	94	63	0	0	0	6	2
NEW YORK	70	61	76	54	65	1	1.4	.3	.2	3.0	85	36.0	113	82	58	0	0	0	4	0
ROCHESTER	67	53	78	43	60	2	.9	.3	.3	2.8	93	22.8	95	95	65	0	0	0	6	0
SYRACUSE	65	52	77	45	59	1	1.8	1.0	.8	2.6	67	31.6	109	95	65	0	0	0	5	2
NC ASHEVILLE	76	48	81	43	62	0	.8	.2	.8	5.3	118	47.1	109	98	42	0	0	0	1	1
CHARLOTTE	80	57	84	51	69	1	.7	.8	.7	1.0	28	28.8	87	90	41	0	0	0	1	0
GREENSBORO	78	54	82	49	66	1	.3	.6	.3	1.6	44	30.3	92	96	53	0	0	0	1	0
HATTERAS	81	68	84	54	74	3	1.0	1.2	1.0	9.7	178	48.9	117	80	47	0	0	0	0	0
NEW BERN	83	61	85	53	72	2	1.0	1.0	1.0	5.2	98	31.3	70	93	43	0	0	0	0	0
RALEIGH	80	57	84	47	69	2	.7	.7	.7	2.0	61	29.2	90	93	38	0	0	0	1	0
WILMINGTON	83	62	84	53	72	2	1.1	1.1	1.1	7.1	102	42.7	92	95	46	0	0	0	2	0
ND BISMARCK	67	38	78	34	53	0	1.1	.2	1.1	5.1	351	13.8	101	90	44	0	0	0	2	0
FARGO	64	41	73	34	53	0	.7	.4	.7	2.1	100	18.9	115	88	45	0	0	0	0	0
GRAND FORKS	63	39	67	34	51	0	.7	.5	.7	1.4	60	17.7	112	92	43	0	0	0	0	0
WILLISTON	69	42	80	37	56	4	.7	.3	.7	.7	50	12.9	108	83	33	0	0	0	0	0
OH AKRON-CANTON	67	50	76	41	59	-1	.8	.1	.3	1.9	57	33.5	117	95	58	0	0	0	5	0
CINCINNATI	72	49	86	44	61	-2	1.3	.4	.2	.5	18	31.0	97	94	51	0	0	0	3	0
CLEVELAND	68	51	77	43	60	0	1.6	.9	.6	2.3	64	23.5	84	94	58	0	0	0	6	2
COLUMBUS	72	50	85	42	61	1	.9	.3	.9	1.7	53	25.6	88	94	48	0	0	0	3	1
DAYTON	70	49	86	43	60	-2	.2	.4	.2	1.0	37	27.5	98	93	50	0	0	0	2	0

Based on 1961-90 normals.

Weather Data for the Week Ending October 1, 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	.01 INCH OR MORE		.50 INCH OR MORE	
																		TEMP. °F	PRECIP.		
TOLEDO	65	48	74	37	57	-2	.5	-.1	.3	.9	32	22.5	89	98	63	0	0	4	0		
YOUNGSTOWN	66	48	80	39	57	-1	3.6	2.9	1.8	4.2	119	31.5	109	97	63	0	0	5	3		
OK OKLAHOMA CITY	87	55	93	45	71	2	.0	.0	.0	2.2	54	18.9	70	86	31	2	0	0	0		
TULSA	84	56	91	50	70	1	.0	-.1	.0	3.6	75	37.4	118	86	41	2	0	0	0		
OR ASTORIA	67	51	77	46	59	3	.1	-.1	.1	2.9	95	39.0	97	96	52	0	0	1	0		
BURNS	79	39	88	35	59	8	.2	-.1	.2	.3	39	3.2	46	61	22	0	0	0	0		
MEDFORD	86	53	97	49	69	8	.7	-.4	.6	.8	93	5.9	55	81	29	3	2	2	1		
PENDLETON	82	54	90	49	68	9	.2	-.1	.2	.4	58	8.4	104	64	25	1	1	0	0		
PORTLAND	77	57	87	53	67	7	.1	-.4	.1	1.1	62	15.8	71	86	38	0	0	1	0		
SALEM	76	54	85	48	65	7	.2	-.2	.2	1.6	102	17.7	76	92	38	0	0	1	0		
PA ALLENTOWN	70	56	80	49	63	2	1.3	.5	.6	2.9	73	40.4	121	99	67	0	0	4	1		
ERIE	66	54	78	51	60	0	3.6	2.6	1.4	4.1	90	32.5	107	91	61	0	0	4	3		
HARRISBURG	70	56	77	47	63	1	.9	-.1	.7	2.5	66	38.1	123	93	59	0	0	6	1		
PHILADELPHIA	73	57	80	46	65	3	.6	-.3	.2	1.7	41	39.0	111	91	58	0	0	4	0		
PITTSBURGH	69	52	82	44	61	1	1.7	1.1	1.0	3.9	128	35.2	122	88	56	0	0	5	1		
SCRANTON	65	52	76	47	59	0	2.4	1.7	1.4	7.2	212	36.7	131	99	69	0	0	4	1		
RI PROVIDENCE	66	55	76	44	61	1	.3	-.5	.3	4.2	117	34.5	104	94	61	0	0	2	0		
SC CHARLESTON	85	64	88	58	75	2	.2	-.7	.1	8.1	167	49.0	114	93	48	0	0	2	0		
COLUMBIA	84	57	86	52	70	0	.7	-.7	.7	3.3	87	38.4	95	95	40	0	0	0	0		
FLORENCE	84	59	86	52	72	1	1.1	-.6	.1	3.3	96	32.2	91	95	43	0	0	1	0		
GREENVILLE	79	54	83	47	67	-1	.7	-.9	.7	2.1	50	40.7	103	93	43	0	0	1	0		
SD ABERDEEN	67	39	75	32	53	-1	1.1	-.3	.1	1.6	81	16.2	88	94	42	0	2	2	0		
KYRON	71	43	76	34	57	1	.7	-.4	.7	1.9	109	17.6	101	90	40	0	0	1	0		
RAPID CITY	76	48	92	43	62	7	.2	-.1	.2	.5	39	6.9	48	73	30	1	0	1	0		
SIOUX FALLS	71	44	78	37	58	2	.7	-.6	.7	2.4	76	19.2	94	89	49	0	0	0	0		
TN CHATTANOOGA	79	51	85	48	65	-3	1.3	-.6	.2	2.9	69	61.0	150	99	44	0	0	2	0		
KNOXVILLE	77	52	82	49	65	-1	1.1	-.6	.0	1.2	38	56.0	155	96	44	0	0	2	0		
MEMPHIS	83	56	90	47	70	0	.0	-.8	.0	1.6	44	36.4	95	81	43	1	0	0	0		
NASHVILLE	77	51	85	48	64	-4	1.2	-.5	.2	4.2	118	50.2	139	93	45	0	0	1	0		
TX ABILENE	87	59	93	48	73	1	1.0	-.7	.0	3.8	115	20.9	107	70	31	3	0	0	0		
AMARILLO	88	52	95	45	70	5	1.1	-.3	.1	2.1	103	16.1	94	64	20	3	0	1	0		
AUSTIN	90	62	92	56	76	-1	1.0	-.8	.0	5.7	166	25.8	106	79	36	5	0	0	0		
BEAUMONT	87	61	92	51	74	-2	.7	-1.3	.7	5.4	83	50.2	116	97	42	3	0	0	0		
BROWNSVILLE	87	67	92	64	77	-3	2.0	.7	1.9	3.8	62	16.9	80	92	45	3	0	2	1		
CORPUS CHRISTI	89	65	92	59	77	-2	.7	-1.2	.7	6.7	119	23.4	96	84	39	3	0	0	0		
DEL RIO	91	64	95	60	78	2	.0	-.7	.0	1.2	43	16.5	85	76	34	5	0	0	0		
EL PASO	94	62	97	55	78	7	.7	-.3	.7	.7	2	3.0	42	38	14	6	0	0	0		
FORT WORTH	91	61	97	51	76	5	.0	-1.2	.0	1.4	28	26.8	93	74	33	5	0	0	0		
GALVESTON	85	72	88	65	79	1	.7	-.2	.7	4.4	73	20.9	64	79	50	0	0	0	0		
HOUSTON	90	61	94	50	76	1	.7	-1.3	.7	1.1	19	26.0	66	93	40	3	0	0	0		
LUBBOCK	92	56	98	47	74	7	.0	-.6	.0	1.1	41	11.6	75	75	21	4	0	0	0		
MIDLAND	92	55	97	48	74	3	.0	-.7	.0	.5	14	8.0	63	77	20	5	0	0	0		
SAN ANGELO	91	57	95	49	74	2	.7	-.8	.7	3.0	87	12.0	73	80	29	5	0	0	0		
SAN ANTONIO	93	59	96	52	76	0	.7	-.8	.7	5.5	156	26.7	112	83	30	7	0	0	0		
VICTORIA	90	63	93	54	76	0	.0	-1.4	.0	2.9	44	27.9	81	88	34	5	0	0	0		
WACO	93	58	97	45	75	1	.7	-.9	.7	.4	10	20.1	82	82	30	6	0	0	0		
WICHITA FALLS	93	58	98	48	75	4	.0	-1.0	.0	1.5	34	8.0	31	83	28	6	0	0	0		
UT CHADAR CITY	79	45	87	40	62	3	.9	.7	.9	1.1	110	5.8	65	68	22	0	0	1	1		
SALT LAKE CITY	79	52	91	49	66	5	.4	.0	.2	.3	24	8.7	72	78	26	1	0	2	0		
VT BURLINGTON	65	52	73	35	59	4	.4	-.3	.2	1.7	51	29.5	113	90	63	0	0	4	0		
VA NORFOLK	81	63	86	56	72	4	.0	-.8	.0	2.0	50	43.5	122	85	45	0	0	0	0		
RICHMOND	80	56	86	46	68	3	.8	.0	.8	4.0	116	36.3	109	92	23	0	0	1	1		
ROANOKE	77	52	86	45	65	1	1.1	-.7	.1	.8	21	36.9	118	91	46	0	0	2	0		
WA QUILLAYUTE	65	49	78	42	57	3	.4	-1.3	.2	4.4	86	60.3	93	98	55	0	0	2	0		
SEATTLE-TACOMA	72	56	78	52	64	6	.7	-.5	.7	1.7	87	17.4	78	87	47	0	0	1	0		
SPOKANE	79	49	86	47	64	10	.0	-.2	.0	.5	61	6.7	61	77	28	0	0	0	0		
YAKIMA	83	49	89	45	66	10	.7	-.1	.7	1.1	23	4.4	86	77	33	0	0	0	0		
WV BECKLEY	68	49	75	43	59	0	.2	-.6	.1	1.5	42	42.6	133	88	53	0	0	2	0		
CHARLESTON	74	51	81	42	62	-1	.7	.0	.6	2.0	59	43.8	134	97	51	0	0	2	1		
HUNTINGTON	73	52	84	44	63	1	.4	-.3	.4	1.5	45	38.7	116	95	50	0	0	1	0		
PARKERSBURG	72	51	82	41	61	-1	1.0	.4	1.0	1.8	59	41.2	127	95	48	0	0	3	1		
WI GREEN BAY	61	46	69	41	54	-1	1.7	1.0	1.4	2.2	63	25.0	109	94	68	0	0	5	1		
LACROSSE	64	49	72	45	56	-1	.8	.0	.5	.2	..	..	..	..	..	..	..	..	..		
MADISON	65	46	75	38	56	-1	.8	.0	.5	6.2	161	29.0	112	96	64	0	0	3	0		
MILWAUKEE	66	52	72	47	59	1	1.3	.6	.8	1.7	49	22.1	86	95	59	0	0	4	1		
WAUSAU	59	43	66	38	51	-3	1.5	.7	.9	3.4	77	18.1	67	95	60	0	0	6	1		
WY CASPER	78	45	87	40	62	9	.7	-.2	.7	.7	70	7.4	73	81	24	0	0	1	0		
CHEYENNE	77	46	87	42	62	8	.7	-.2	.7	.4	29	11.1	87	79	23	0	0	1	0		
LANDER	76	49	88	46	62	9	.3	.0	.2	.6	54	5.9	55	53	20	0	0	2	0		
SHERIDAN	75	45	87	41	60	8	.7	-.3	.7	.9	60	10.7	91	77	30	0	0	0	0		

Based on 1961-90 normals.

## September Weather Summary

In marked contrast to the 1992 and 1993 growing seasons, when late-September frosts nipped slow-maturing northern Corn Belt crops, freeze-free weather prevailed. Furthermore, generally dry weather covered the southern two-thirds of the Corn Belt until late in the month, when a storm brought cool, showery conditions during its week-long traversal of the Midwest. In the northern Corn Belt, heavy rain fell during a 4-day span at mid-month, and again for several days toward month's end.

With the exception of a week-long stretch before mid-month, the polar jet stream failed to make its normal seasonal dip southward along the west coast, resulting in a late-month heat wave and an intensification of drought in the Northwest. With an average temperature of 67.6°F, Portland, OR notched its warmest September on record. Areas from eastern Oregon to Montana measured monthly temperatures up to 6°F above normal and rainfall less than 25 percent of normal, adversely affecting winter wheat planting and emergence. Precipitation was also below normal throughout the Plains' winter wheat areas despite occasional light rain showers.

Tropical-origin moisture and storminess continued to frequent the Eastern States. On September 4 and 5, a storm lashed the Middle Atlantic and New England coastlines with gale-force winds. Then on September 16, a tropical disturbance made landfall in Louisiana before crossing the Southeast, dropping locally heavy rain. An early-season "nor'easter" rode up the east coast on September 21-24, producing high winds and leaving a swath of heavy rain from Florida to Maine. At

month's end, an approaching tropical disturbance spread heavy rain across the Florida Keys, where Key West totaled 8.88 inches on September 29-30. Monthly rainfall was above normal throughout the Florida Peninsula, which was frequently trapped underneath a rich fetch of tropical moisture. September totals included 13.50 inches in Miami (2-month total of 30.14 inches), 13.00 inches in Key West, and 9.79 inches in Jacksonville. Farther west, however, tropical moisture exerted no influence. In fact, Shreveport, LA experienced its driest September on record, with only 0.08 inches of rain.

Several impressive late-season heat waves affected the Northwestern and North-Central States. The first peaked in the northern Plains on September 9, as Minot, ND (102°F) registered its hottest day since September 1, 1991. Another heat episode pushed temperatures above 100°F as far north as Medford, OR on September 21. Simultaneously, the month's only significant snowfall affected the central High Plains. Casper, WY collected 4.9 inches of snow on September 21. Toward month's end, heat again enveloped the Nation's northwestern quadrant, as highs soared above 90°F as far north as eastern Washington (as late as September 27) and western South Dakota (on September 28).

In Hawaii, Hilo's September rainfall of 23.28 inches was nearly 15 inches above normal. More than half of the monthly total fell during a 3-day period (September 18-20).

**Note:** Greg Preston's "September Crop Summary" will appear in next week's *Bulletin*.

(Continued from front cover)

**Great Lakes region** until midweek, where rainfall totaled more than 3 inches at locations such as **Youngstown, OH, Buffalo, NY, and Erie, PA**. Heavy rainshowers also peppered the **Northeast**. Farther south, cool air lingered in the **Gulf Coast States**, where **Tupelo, MS** tied a daily-record low with 43°F on Sunday. In contrast, dry, very warm weather spread from the **West** into the **High Plains**, setting nearly three dozen daily-record highs between Tuesday and Thursday. On Tuesday, temperatures soared to 110°F in **California** at **Imperial and Thermal**. Heat and dryness continued to hinder winter wheat planting and emergence in the **Northwest**, where early-week highs climbed as high as the lower 90's.

On Wednesday, highs peaked above 90°F as far north as **Rapid City, SD** (92°F). **Laramie, WY** hit 80°F only 6 days after a low of 15°F, tying their record for the highest temperature so late in the year. Records of that variety were also tied or broken at **Rawlins, WY** (81°F) and **Cheyenne, WY** (87°F), and a day later in **Dodge City, KS** (99°F). **Tucson, AZ**, with 100°F on Thursday, notched its 99th triple-digit high this year. **El Paso, TX** (97°F on Friday) marked its 26th daily-record high (tied or broken) of the year. Heat spread into the **western Corn Belt** on the last day of September, pushing highs to 91°F in **Iowa** at **Burlington and Ottumwa**.

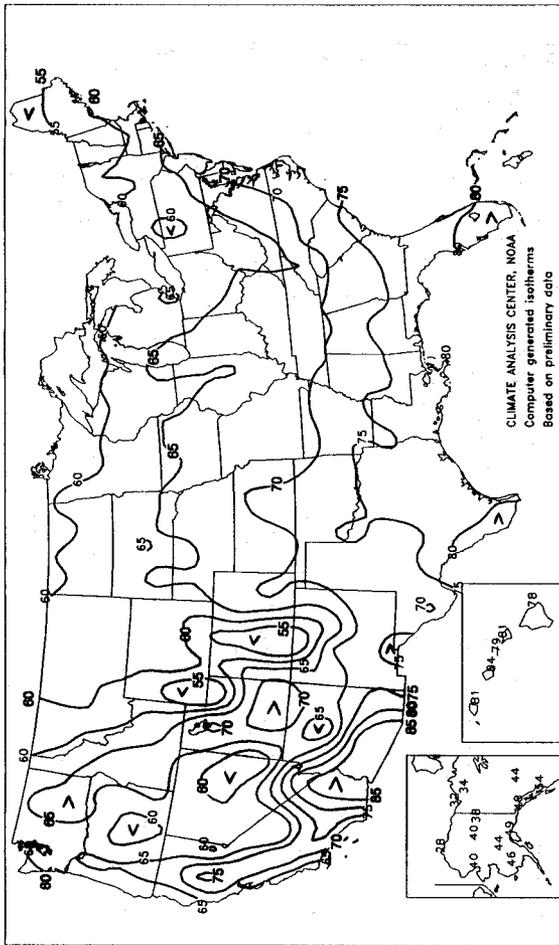
Meanwhile, storminess overspread the **West** and raced eastward along a developing warm front. On Wednesday, a thunderstorm

dumped 2.37 inches of rain at **Santa Margarita, CA**, near **San Luis Obispo**. **Eugene, OR** recorded 0.62 inches of rain on Thursday. Elsewhere across the **West**, rainfall included 0.95 inches in **Ely, NV**, 0.85 inches in **Cedar City, UT**, and 0.83 inches in **Grand Junction, CO**. By late in the week, light rain developed across the **North Central States**, and rain returned to the **Great Lakes States**. Local totals exceeded 1 inch from **central Wisconsin** to **western Pennsylvania**.

Tropical Depression #10 formed near the western tip of **Cuba** on Thursday and tracked north-northwestward. The system produced intense rainfall across **western Cuba** on September 29-30, with a total of 13.85 inches (352 millimeters) reported along the island's south coast at **Playa Giron**. The depression was downgraded on Friday when it interacted with another area of low pressure over the **central Gulf of Mexico**. The ensuing poorly organized tropical disturbance spread heavy rain and gale-force winds across the **Southeast** at week's end. Rainfall of 3.15 inches in **Key West, FL** on Thursday was followed by a 5.73-inch deluge on Friday. By Sunday morning, the center of the disturbance turned toward the northeast and passed near the **mouth of the Mississippi River**. Sustained winds of 30 to 40 mph, which veered from easterly to southerly as the storm approached, buffeted the **northeastern Gulf of Mexico** and adjacent coastal areas. A peak gust of 58 mph was clocked in **Tallahassee, FL**. During the 24-hour period ending at 8 a.m. EDT on Sunday, rainfall topped 4 inches in **Mobile, AL, Fort Walton Beach, FL, and Milton, FL**.

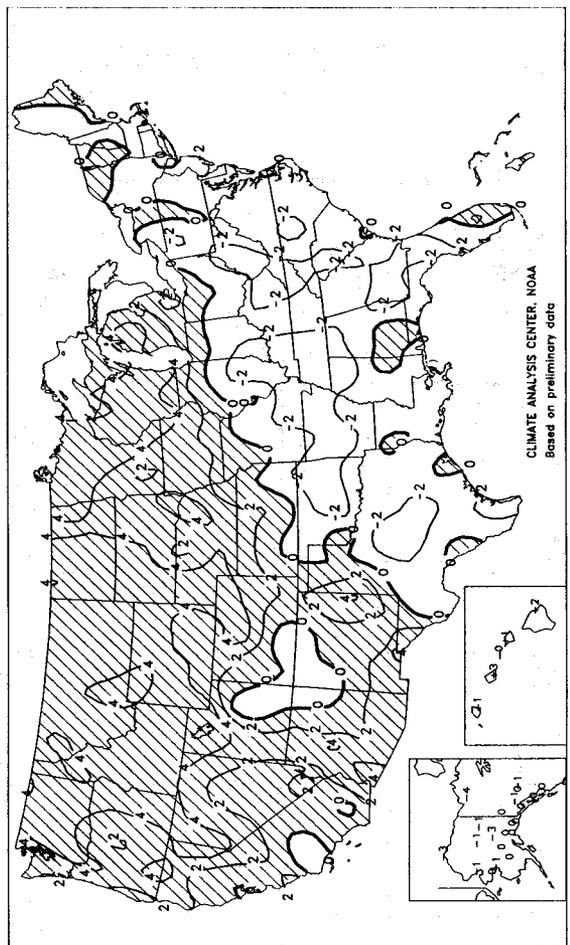
AVERAGE TEMPERATURE(°F)

SEP 1994



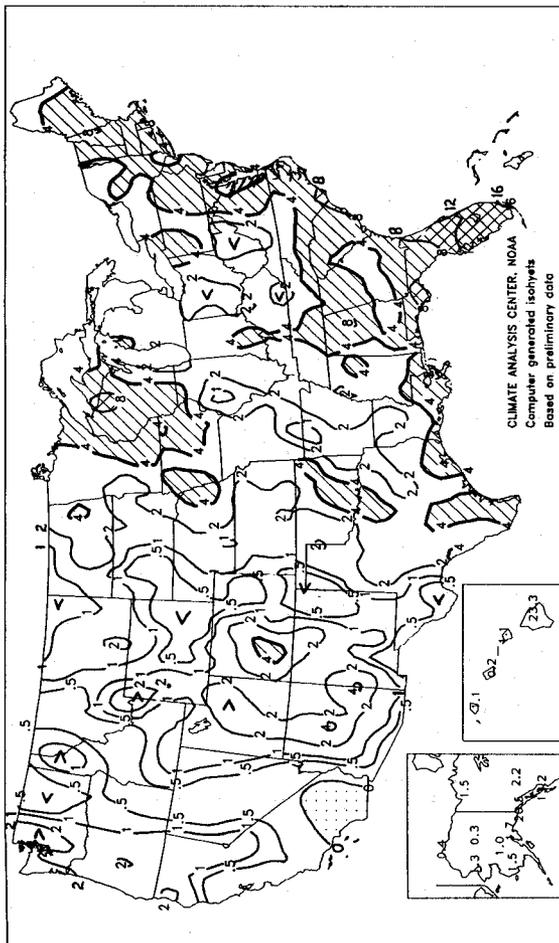
Departure of Average Temperature from Normal(°F)

SEP 1994



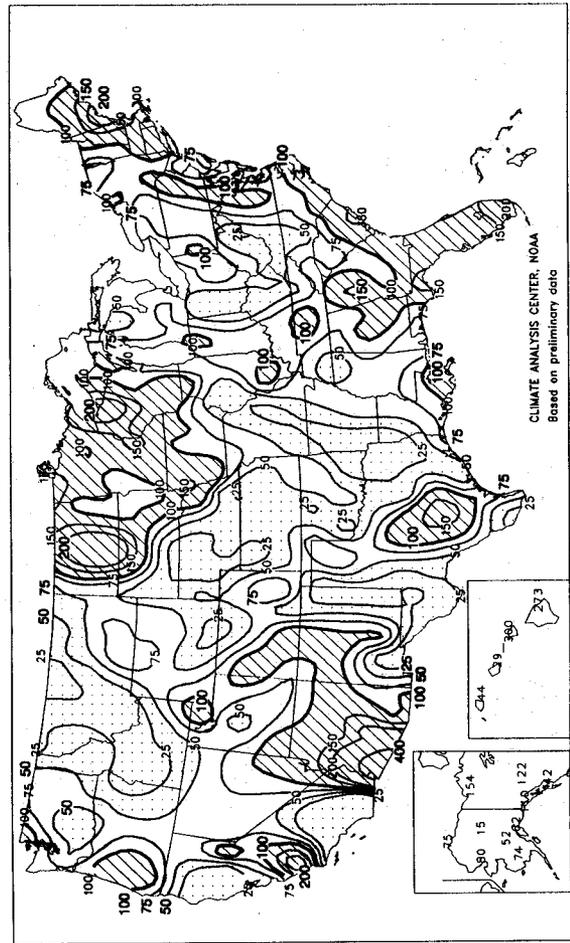
TOTAL PRECIPITATION (inches)

SEP 1994



PERCENT OF NORMAL PRECIPITATION

SEP 1994



# TEMPERATURE AND PRECIPITATION SUMMARY

## September 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	73	-1	4.7	0.7	LA BATON ROUGE	76	-2	4.1	-0.7	OK YOUNGSTOWN	61	-1	3.3	-0.2
AL HUNTSVILLE	70	-2	2.3	-1.8	LA LAKE CHARLES	78	0	3.5	-2.2	OK OKLAHOMA CITY	71	-2	2.2	-1.7
AL MOBILE	77	-1	1.8	-4.2	LA NEW ORLEANS	78	0	5.6	0.1	OK TULSA	71	-2	3.6	-1.1
AL MONTGOMERY	76	1	4.6	0.9	ME SHREVEPORT	76	1	0.1	-3.7	OR ASTORIA	60	2	2.8	-0.1
AK ANCHORAGE	49	1	1.7	-1.0	ME CARIBOU	54	0	2.8	-0.6	OR BURNS	59	4	0.2	-0.3
AK BARROW	28	-3	0.4	-0.2	ME PORTLAND	58	-1	6.6	3.5	OR MEDFORD	69	4	0.8	0.0
AK FAIRBANKS	44	-1	0.6	-0.3	MD BALTIMORE	68	-1	3.9	0.4	OR PENDLETON	67	4	0.4	-0.2
AK JUNEAU	50	1	8.2	1.4	MD SALISBURY	67	-1	3.5	-0.2	OR PORTLAND	68	4	1.1	-0.6
AK KODIAK	50	0	6.6	-0.4	MA BOSTON	64	-1	4.6	1.5	OR SALEM	65	4	1.6	0.1
AK NOME	42	0	1.9	-0.5	MA CHATHAM	62	0	2.4	-1.2	PA ALLENTOWN	65	0	2.6	-1.3
AZ FLAGSTAFF	58	1	2.7	0.7	MI ALPENA	60	3	1.6	-1.5	PA ERIE	63	-1	3.4	-1.0
AZ PHOENIX	87	1	1.7	0.9	MI DETROIT	66	3	2.4	-0.5	PA HARRISBURG	65	-1	0.0	-3.5
AZ PRESCOTT	69	5	2.1	0.1	MI FLINT	63	1	2.8	-0.8	PA PHILADELPHIA	68	0	1.6	-1.8
AZ TUCSON	84	4	1.5	-0.2	MI GRAND RAPIDS	64	3	2.4	-1.9	PA PITTSBURGH	64	0	3.6	0.6
AZ WINSLOW	69	1	1.6	0.7	MI HOUGHTON LAKE	62	5	1.6	-1.8	PA SCRANTON	61	-2	6.8	3.5
AZ YUMA	90	4	1.4	1.1	MI LANSING	62	2	3.0	-0.9	PA WILLIAMSPORT	63	-1	4.3	0.9
AR FORT SMITH	72	-2	0.3	-3.0	MI MARQUETTE	58	4	2.9	-1.2	RI PROVIDENCE	63	-1	4.1	0.6
AR LITTLE ROCK	72	-2	1.8	-2.7	MI MUSKEGON	64	2	3.0	-0.9	SC CHARLESTON	76	-1	8.1	3.4
CA BAKERSFIELD	77	0	0.1	-0.1	MI SAULT ST. MARIE	56	1	1.5	-2.2	SC COLUMBIA	73	-2	3.3	-0.4
CA BISHOP	66	-1	...	...	MI ALEXANDRIA	61	3	2.3	-0.4	SC FLORENCE	73	-1	3.3	0.0
CA BUREKA	60	2	0.1	-0.8	MI DULUTH	58	4	5.6	1.8	SC GREENVILLE	69	-2	2.1	-1.9
CA FRESNO	75	1	0.2	0.0	MI IOWA FALLS	59	4	3.7	0.5	SD ABERDEEN	62	3	1.6	-0.3
CA LOS ANGELES	71	1	0.0	-0.3	MI MINNEAPOLIS	64	4	4.7	2.0	SD BURON	64	3	1.9	0.2
CA REDDING	75	1	0.2	-0.7	MI ROCHESTER	63	4	3.6	0.2	SD RAPID CITY	65	6	0.3	-1.0
CA SACRAMENTO	72	1	0.0	-0.4	MI ST. CLOUD	61	4	3.1	0.0	SD SIOUX FALLS	65	4	2.4	-0.7
CA SAN DIEGO	73	1	T	-0.2	MS GREENWOOD	75	0	1.8	-1.5	TN BRISTOL	66	-2	1.3	-2.0
CA SAN FRANCISCO	64	0	0.1	-0.1	MS JACKSON	74	-1	1.8	-1.2	TN CHATTANOOGA	70	-2	2.9	-1.2
CA SANTA MARIA	63	-1	0.1	-0.2	MS MERIDIAN	76	0	2.3	-1.2	TN KNOXVILLE	69	-1	1.2	-1.9
CO ALAMOSA	54	-1	1.0	0.1	MO TUPELO	71	-3	1.3	-2.3	TN MEMPHIS	73	-2	1.6	-1.9
CO CO. SPRINGS	63	3	1.5	0.2	MO CAPE GIRARDEAU	67	-2	2.6	-1.0	TX NASHVILLE	69	-3	4.2	0.7
CO DENVER	67	5	0.4	-0.8	MO COLUMBIA	66	-1	1.0	-2.9	TX ABILENE	73	-3	3.8	0.6
CO GRAND JUNCTION	68	1	1.5	0.7	MO KANSAS CITY	68	0	2.6	-2.2	TX AMARILLO	69	0	2.0	0.0
CO PUEBLO	66	0	0.2	-0.7	MO SAINT LOUIS	70	0	1.2	-1.9	TX AUSTIN	78	-3	5.7	2.4
CT BRIDGEPORT	65	0	4.5	1.4	MO SPRINGFIELD	68	-1	1.9	-2.9	TX BEAUMONT	77	-1	5.4	-0.9
CT HARTFORD	64	0	5.5	1.7	MT BILLINGS	65	6	1.3	0.0	TX BROWNSVILLE	80	-2	3.8	-2.2
DC WASHINGTON	70	-1	2.8	-0.5	MT GLASGOW	63	5	0.3	-0.7	TX CORPUS CHRISTI	79	-2	6.7	1.2
FL PANAMA CITY	77	-1	5.4	-0.1	MT GREAT FALLS	60	4	0.4	-0.9	TX DEL RIO	79	0	1.2	-1.6
FL DAYTONA BEACH	78	-1	5.9	-0.4	MT HAVRE	62	5	0.1	-1.1	TX EL PASO	78	4	T	-1.7
FL FT. MYERS	82	0	6.0	-1.8	MT HELENA	62	7	0.1	-1.1	TX FORT WORTH	76	1	1.4	-3.4
FL JACKSONVILLE	77	-2	9.8	2.8	MT KALISPELL	56	3	0.5	-0.8	TX GALVESTON	81	0	4.4	-1.5
FL KEY WEST	83	-1	13.0	7.2	MT MILLS CITY	64	5	1.2	0.0	TX HOUSTON	78	0	1.1	-4.6
FL MIAMI	82	0	13.5	5.9	MT MISSOULA	60	5	0.3	-0.8	TX LAREDO	...	...	...	...
FL ORLANDO	79	-2	7.8	1.8	NE GRAND ISLAND	67	3	1.3	-1.5	TX LOBBOCK	73	2	1.1	-1.5
FL TALLAHASSEE	77	-2	10.9	5.3	NE LINCOLN	66	1	0.5	-3.0	TX MIDLAND	74	0	0.4	-2.8
FL TAMPA	80	-1	8.2	2.2	NE NORFOLK	67	4	2.7	0.2	TX SAN ANGELO	74	-1	3.0	-0.4
FL WEST PALM BEACH	81	-1	11.1	3.9	NE NORTH PLATTE	65	4	0.6	-1.0	TX SAN ANTONIO	78	-1	5.5	2.1
GA ATHENS	72	-1	4.3	0.9	NE OMAHA	67	2	5.0	1.3	TX VICTORIA	79	0	2.9	-3.5
GA ATLANTA	74	1	5.9	2.4	NE SCOTTSBLOFF	65	4	0.7	-0.4	TX WACO	77	-2	0.4	-3.2
GA AUGUSTA	72	-2	0.2	-2.8	NE VALENTINE	64	1	T	-2.3	TX WICHITA FALLS	75	0	1.5	-2.7
GA MACON	73	-2	1.7	-1.1	NV ELKO	58	-1	...	...	UT BLANDING	68	5	0.7	-0.6
GA SAVANNAH	77	0	6.6	2.1	NV ELY	58	2	1.0	0.0	UT CEDAR CITY	66	3	1.1	0.1
HI HILO	78	2	23.3	14.8	NE LAS VEGAS	83	3	0.4	0.1	UT SALT LAKE CITY	71	6	0.3	-1.0
HI HONOLULU	84	3	0.2	-0.6	NE RENO	65	5	0.2	-0.2	VT BURLINGTON	60	1	1.7	-1.6
HI KAHULUI	81	2	1.0	0.7	NE WINNEMUCCA	62	2	0.2	-0.2	VA LYNCHBURG	67	-1	2.4	-0.8
HI LIHUE	81	2	1.0	-1.3	NE CONCORD	58	-1	3.6	0.7	VA NORFOLK	72	0	2.0	-1.9
ID BOISE	67	4	0.1	-0.7	NJ ATLANTIC CITY	64	-2	3.8	0.8	VA RICHMOND	69	-1	4.0	0.6
ID LEWISTON	67	4	0.4	-0.4	NM ALBUQUERQUE	71	2	1.2	0.2	VA ROANOKE	67	-1	0.8	-2.7
ID POCAHONTO	62	3	0.4	-0.5	NM CLOVIS	72	4	0.2	-2.0	WA COLVILLE	...	...	...	...
IL CAIRO	...	...	...	...	NM ROSWELL	74	1	0.5	-1.5	WA QUILLAYUTE	59	-2	4.2	-0.7
IL CHICAGO	67	2	1.0	-2.8	NY ALBANY	61	0	2.2	-0.8	WA SEATTLE-TACOMA	64	4	1.7	-0.2
IL MOLINE	66	1	1.5	-2.5	NY BINGHAMTON	58	-1	2.5	-0.8	WA SPOKANE	63	5	0.4	-0.3
IL PEORIA	67	1	1.3	-2.6	NY BUFFALO	62	0	3.2	-0.3	WA WALLA WALLA	71	6	0.4	-0.6
IL QUINCY	66	-1	0.3	-4.4	NY NEW YORK	69	0	2.8	-0.6	WA YAKIMA	64	4	0.1	-0.3
IL ROCKFORD	65	1	6.0	2.2	NY ROCHESTER	62	1	2.7	-0.3	WV BECKLEY	61	-2	1.4	-1.9
IL SPRINGFIELD	67	-1	0.9	-2.4	NY SYRACUSE	61	-1	2.4	-1.4	WV CHARLESTON	65	-3	2.0	-1.3
IN EVANSVILLE	68	-2	2.6	-0.5	NC ASHEVILLE	65	-2	5.3	1.0	WV ELKINS	61	-1	1.1	-2.6
IN FORT WAYNE	66	0	1.3	-1.4	NC CHARLOTTE	71	-1	1.0	-2.5	WV HUNTINGTON	66	0	1.5	-1.8
IN INDIANAPOLIS	67	0	2.2	-0.7	NC GREENSBORO	67	-2	1.6	-1.9	WV PARKERSBURG	64	-3	1.8	-1.2
IN SOUTH BEND	65	1	4.7	1.1	NC HATTERAS	73	0	9.7	4.4	WI GREEN BAY	64	5	2.2	-1.3
IA DES MOINES	66	3	3.1	-0.7	NC NEW BERN	73	-1	5.2	0.0	WI LACROSSE	66	4	6.5	2.7
IA DOBUQUE	65	3	4.5	-0.2	NC RALEIGH	79	-2	2.0	-1.2	WI MADISON	65	4	6.2	2.4
IA SIOUX CITY	67	3	4.6	1.7	NC WILMINGTON	63	-1	7.1	0.3	WI MILWAUKEE	67	6	1.7	-1.7
IA WATERLOO	66	4	3.7	0.2	ND BISMARCK	62	5	5.0	3.5	WI WAUSAU	62	4	3.3	-1.0
KS CONCORDIA	69	1	1.0	-2.0	ND FARGO	62	4	2.1	0.1	WY CASPER	63	5	0.7	-0.3
KS DODGE CITY	69	0	0.9	-1.0	ND GRAND FORKS	61	5	1.4	-0.9	WY CHEYENNE	62	4	0.4	-0.9
KS GOODLAND	66	2	0.3	-1.3	ND WILLISTON	61	5	0.7	-0.6	WY LANDER	63	5	0.5	-0.6
KS TOPEKA	67	0	1.5	-2.3	OH AKRON-CANTON	63	-1	1.7	-1.6	WY SHERIDAN	62	5	0.8	-0.5
KS WICHITA	70	0	1.1	-2.8	OH CINCINNATI	66	-2	0.5	-2.4	PR SAN JUAN	83	1	5.2	-0.1
KY BOWLING GREEN	67	-3	3.0	-0.7	OH CLEVELAND	64	0	1.7	-1.7					
KY JACKSON	66	-2	2.5	-1.2	OH COLUMBUS	65	1	1.7	-1.4					
KY LEXINGTON	66	-2	1.2	-2.0	OH DAYTON	65	-1	1.0	-1.6					
KY LOUISVILLE	69	-1	2.9	-0.2	OH MANSFIELD	63	-1	2.0	-1.4					
KY PADUCAH	68	-3	3.4	-0.3	OH TOLEDO	64	1	0.9	-1.9					

Based on 1961-90 normals.

# National Agricultural Summary

September 26 - October 2, 1994

**HIGHLIGHTS:** The row-crop harvest was stalled early in the week by a slow-moving storm system that generated scattered showers in the middle Mississippi Valley. Heavy rainfall and cool weather in the Great Lakes States left many fields too soggy for harvest activity. Scattered morning frost in the Ohio Valley was reported but most soybeans were regarded as safe from the frost. Producers delayed harvesting their corn as they switched their attention to harvesting soybeans and, where possible, seeding small grain. Very warm, windy weather in the southern Great Plains prompted cotton bolls to open and allowed harvest activity to advance. Winter wheat seeding slowed as many producers in the Pacific Northwest and southern Great Plains continued to wait for rain. Warm, dry weather persisted in the Northwestern States, and soil moisture shortages caused small-grain seeding to fall behind the average. Flooding-rains in Florida left some citrus trees in standing water and delayed harvest activity.

Winter wheat planted at 54 percent(%) was up 12 percentage points from the previous week, equal to the 5-year average. Winter wheat planted in Kansas was up 15 points from the previous week, while Oregon and Washington were 28 and 23 points behind the average, respectively. Producers across the Nation were waiting for precipitation before seeding wheat. In western Kansas, grasshopper damage to some emerged fields was reported.

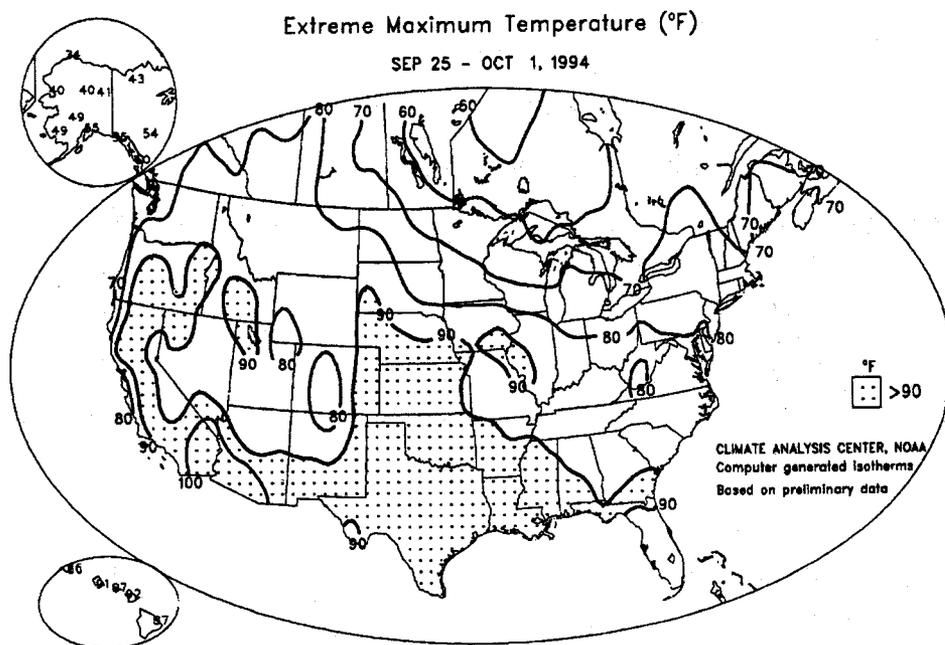
Corn development was prodded by dry-down weather in the Corn Belt late in the week and exceeded the average in the 17 major producing States. The corn crop was 90% mature, up 8 points from last week and 14 points ahead of the average. Illinois corn maturity was 14 points ahead of the average, and the percentage of corn harvested was 10 points behind of the average. Corn harvested for the 17 major producing States was up 7 points from last week but was 1 point behind the average. Many producers shifted their efforts from harvesting corn to harvesting soybeans. Iowa producers reported the moisture content of field corn being harvested was 22%. In the Great Lakes region, some producers remarked that a frost would help the corn to dry-down.

Cotton condition was down from last week for the 14 major producing States, with 57% of the cotton crop rated as good to excellent. The cotton condition for Texas was down from last week, with 22% of the Texas crop rated as good to excellent. Cotton bolls opening were 81% complete, up from last week and ahead of the average by 9 points. Texas reported bolls opening at 67%, up 11 points from last week and 16 points ahead of the average. Very warm weather advanced cotton maturity in Texas, while midweek rainfall slowed defoliation and harvest activity in California.

Sorghum condition in the 12 States was mostly fair to good, with 84% of the sorghum crop in the mature stage. Grain sorghum rated as mature was up 10 points from the previous week and 18 points ahead of the average. Grain sorghum harvested at 47% was up 9 points from last week and 11 points ahead of the average. Sorghum harvested in Kansas advanced by 10 points from last week and was 25 points ahead of the average.

Rice harvested was 80% complete, up 15 points from last week and 16 points ahead of the 5-year average for the five major producing States. Clear weather across the Southeastern States allowed rice harvesting to accelerate. Rice harvested in Arkansas was 82% complete, up 10 points from a week ago and 24 points ahead of the average. In Mississippi, rice harvested was 18 points ahead of the average.

Soybeans were rated fair to good with 84% of the acreage dropping leaves, up 8 points from last week and 12 points ahead of the average. The percentage of soybeans dropping leaves at 100% was 15 points ahead of the average in Iowa. Soybean harvest was at 27%, 8 points ahead of the average for the 19 major producing States. Illinois producers harvested 37% of the soybean acreage, 8 points ahead of the average. Rainy weather early in the week delayed the soybean harvest, but producers made good progress harvesting soybeans after the rains ended. The moisture content of soybeans harvested in Minnesota was reported at 15%. Lodging of some soybean fields was reported in Wisconsin, where heavy rains delayed the harvest.



## Crop Condition

for the Week Ending October 2, 1994

## SORGHUM

State	VP	P	F	G	EX
AR	0	0	27	56	17
CO	0	1	13	66	20
IL	0	0	23	74	3
KS	0	0	30	63	7
LA	0	9	38	53	0
MS	0	1	51	43	5
MO	0	3	48	45	4
NE	0	1	8	60	31
NM	0	56	28	16	0
OK	0	0	28	72	0
SD	0	4	10	70	16
TX	1	11	57	29	2
12 State	0	6	37	48	9
Prev Week	0	6	36	51	7
Prev Year	0	4	37	52	7

## CORN

State	VP	P	F	G	EX
CO	1	5	16	61	17
GA	0	0	12	76	12
IL	0	0	9	62	29
IN	0	2	21	70	7
IA	1	0	1	55	43
KS	0	1	17	71	11
KY	0	1	14	65	20
MI	2	8	20	45	25
MN	1	0	11	62	26
MO	1	2	43	51	3
NE	0	1	7	66	26
NC	4	7	30	56	3
OH	1	5	20	56	18
PA	0	2	15	47	36
SD	0	0	8	57	35
TX	0	0	31	60	9
WI	0	0	0	64	36
17 State	1	1	12	60	26
Prev Week	0	2	13	60	25
Prev Year	3	12	36	44	5

## COTTON

State	VP	P	F	G	EX
AL	0	0	30	70	0
AZ	0	0	10	80	10
AR	0	0	6	73	21
CA	0	0	0	75	25
GA	0	0	14	76	10
LA	0	0	9	91	0
MS	0	0	40	56	4
MO	0	0	36	64	0
NM	0	9	27	46	18
NC	0	0	9	85	6
OK	0	12	43	45	0
SC	0	0	36	47	17
TN	0	0	0	99	1
TX	0	18	60	20	2
14 State	0	8	35	51	6
Prev Week	1	7	32	54	6
Prev Year	0	11	41	44	4

## SOYBEANS

State	VP	P	F	G	EX
AL	0	0	16	77	7
AR	0	0	38	62	0
GA	0	2	14	76	8
IL	0	0	15	64	21
IN	0	2	20	73	5
IA	1	0	2	47	50
KS	0	3	20	68	9
KY	0	2	21	70	7
LA	0	4	33	63	0
MI	2	8	20	50	20
MN	0	1	27	59	13
MS	0	0	22	28	50
MO	0	3	54	40	3
NE	0	0	5	73	22
NC	0	0	13	85	2
OH	1	5	21	53	20
SC	0	0	23	70	7
SD	0	0	6	56	38
TN	0	0	13	82	5
19 State	0	1	20	59	20
Prev Week	0	2	20	61	17
Prev Year	3	11	40	41	5

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

## Crop Progress

for the Week Ending October 2, 1994

## GRAIN SORGHUM MATURE

	Current	Last Wk	1993	Avg.
AR	98	94	100	94
CO	34	20	41	45
IL	92	77	62	66
KS	85	70	45	45
LA	100	99	97	97
MS	100	99	96	94
MO	85	79	61	68
NE	97	90	43	68
NM	57	23	27	20
OK	30	27	31	41
SD	80	62	40	71
TX	85	80	86	85
12 States	84	74	61	66

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

## GRAIN SORGHUM HARVESTED

	Current	Last Wk	1993	Avg.
AR	87	80	66	71
CO	24	5	8	11
IL	15	10	2	16
KS	35	25	5	10
LA	90	54	88	90
MS	93	85	77	77
MO	35	27	23	29
NE	23	9	1	17
NM	9	8	10	8
OK	15	10	14	8
SD	13	4	2	24
TX	74	70	73	70
12 States	47	38	32	36

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

**COTTON BOLLS OPENING**

	Current	Last Wk	1993	Avg.
AL	70	52	78	79
AZ	100	99	100	99
AR	77	65	77	76
CA	100	100	100	100
GA	77	67	88	78
LA	98	97	94	94
MS	98	95	93	91
MO	85	61	85	78
NM	91	85	88	80
NC	100	83	100	100
OK	85	74	70	51
SC	77	63	94	88
TN	97	94*	99	86
TX	67	56	69	51
	(* Revised)			
14 States	81	72	82	72

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

**COTTON HARVESTED**

	Current	Last Wk	1993	Avg.
AL	7	NA	15	24
AZ	23	NA	28	20
AR	21	NA	14	14
CA	5	NA	5	5
GA	5	NA	26	17
LA	39	NA	36	35
MS	27	NA	14	23
MO	13	NA	16	14
NM	0	NA	0	0
NC	13	NA	14	10
OK	15	NA	5	1
SC	9	NA	21	15
TN	18	NA	23	19
TX	31	NA	31	22
14 States	23	NA	23	19

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

**WINTER WHEAT PLANTED**

	Current	Last Wk	1993	Avg.
AR	9	8	0	3
CA	0	0	2	0
CO	90	78	89	86
GA	2	0	5	4
ID	38	28	39	53
IL	10	3	5	11
IN	15	10	10	16
KS	60	45	55	60
MI	35	25	30	40
MO	14	10	7	13
MT	42	15	20	57
NE	94	82	86	89
NC	26	11	12	10
OH	19	7	14	18
OK	70	54	65	53
OR	14	11	63	42
SD	89	80	90	90
TX	50	40	54	54
WA	53	46	79	76
19 States	54	42	52	54

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

**CORN MATURE**

	Current	Last Wk	1993	Avg.
CO	87	62	48	61
GA	100	100	100	100
IL	97	93	77	83
IN	88	72	82	77
IA	100	98	100	85
KS	98	95	90	95
KY	90	80	88	85
MI	45	35	30	40
MN	95	86	14	63
MO	97	95	81	93
NE	98	92	70	85
NC	100	100	100	100
OH	55	38	66	51
PA	30	24	32	30
SD	96	87	36	71
TX	99	95	92	94
WI	73	47	30	53
17 States	90	82	68	76

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

**CORN HARVESTED**

	Current	Last Wk	1993	Avg.
CO	18	8	4	5
GA	92	90	92	90
IL	13	7	6	23
IN	11	6	7	16
IA	13	8	3	12
KS	60	40	35	45
KY	35	22	42	38
MI	10	10	2	5
MN	6	3	1	6
MO	41	27	19	36
NE	22	11	4	16
NC	65	53	73	62
OH	7	4	9	11
PA	3	1	3	5
SD	11	4	1	15
TX	84	76	80	80
WI	5	3	2	6
17 States	19	12	11	20

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

**RICE HARVESTED**

	Current	Last Wk	1993	Avg.
AR	82	72	47	58
CA	45	20	25	28
LA	96	71	90	92
MS	80	67	47	62
TX	96	93	83	96
5 States	80	65	56	64

These 5 States produced 96% of the 1993 rice crop.

**SOYBEANS DROPPING LEAVES**

	Current	Last Wk	1993	Avg.
AL	43	21	42	45
AR	33	18	24	21
GA	60	48	58	56
IL	96	87	76	82
IN	96	88	90	83
IA	100	100	63	85
KS	90	80	75	80
KY	50	35	48	44
LA	64	44	64	51
MI	60	50	95	80
MN	98	97	47	87
MS	73	57	43	46
MO	74	60	52	61
NE	99	96	87	90
NC	34	19	24	28
OH	99	92	98	83
SC	7	4	9	13
SD	99	92	66	90
TN	46	30	50	44
19 States	84	76	65	72

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

**SOYBEANS HARVESTED**

	Current	Last Wk	1993	Avg.
AL	3	1	6	7
AR	9	5	4	4
GA	6	2	4	2
IL	37	27	7	29
IN	23	14	8	18
IA	42	23	5	25
KS	35	15	10	20
KY	4	2	4	4
LA	25	12	26	19
MI	10	5	2	10
MN	21	10	13	28
MS	28	24	8	9
MO	14	7	3	9
NE	55	32	17	29
NC	0	0	0	0
OH	23	16	16	17
SC	0	0	10	0
SD	34	13	8	31
TN	5	2	4	3
19 States	27	16	8	19

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

## 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 0.48 to 2.83 in. north; 0.14 to 2.15 in. central; 0.75 to 5.59 in. south. Temperatures 3° below normal to 4° above normal statewide. Lows 42 to 55° north; 44 to 55° central; 45 to 62° south. Highs 82 to 87° north; 83 to 92° central; 90 to 95° south.

Days suitable for fieldwork 6.0. Soil moisture 25% short, 70% adequate, 5% surplus. Corn harvested 79%, 75% 1993, 81% avg. Sorghum harvested 35%, 39% 1993, 56% avg.; 37% fair, 58% good, 5% excellent. Peanuts dug 76%, 49% 1993, 72% avg.; combined 66%, 43% 1993, 62% avg. Wheat planted 14%, 13% 1993, 16% avg. Pasture feed 4% poor, 54% fair, 38% good, 4% excellent. Livestock 18% fair, 82% good. Seasonal activities: Harvesting row crops, vegetables, spraying fields for insects, weeds, defoliating cotton fields, seeding small grains, ground preparation for fall planting.

**ALASKA:** Temperatures normal to slightly above normal.

Days available for hay and grain harvest 3.5, 6 days suitable for digging potatoes. Second crop hay harvest 45%, 50% 1993. Commercial potato harvest 95%, 75% 1993. Oat harvest 100%, 5% ahead 1993. Silage harvest 100% complete, 95% 1993. Topsoil 45% short, 55% adequate. Subsoil 60% short, 40% adequate.

**ARIZONA:** Temperatures 1° above to 6° above normal. Extremes 29°; 96° higher elevations; 51°; 106° deserts. Precipitation reported northwest, diagonally across central areas to southwest; trace to 1.50 in.

Cotton condition continues mostly good; opening bolls 100%, 100% 1993, 99% avg. Weed infestations light to moderate; insect, disease infestations continue moderate. Field activities: Picking, defoliation, final irrigations, pesticide applications, pest monitoring. Alfalfa condition remains good. Harvest moderate to active. Weed, insect, disease infestations light to moderate. Lemon, grapefruit harvest gaining momentum. Apple harvest very active. Raisin grape harvest declining. Melon harvested included cantaloupe, watermelon. Chili peppers available eastern, central areas. Range, pasture feed 78% of normal, improving 10 points from last month. Cattle, calves fair to good condition. Stockwater supplies remained rated short to adequate. Feed supplies continued below average to average. Insect damage rated light.

**ARKANSAS:** Temperatures slightly above normal with light showers in the southeast region at the weekend. Extremes 38°; 98°. Precipitation none to 0.40 in.

Days suitable for fieldwork 7. Soil moisture 79% short, 21% adequate. Rice, grain sorghum, soybean, cotton, corn harvests in progress. Soybeans maturing rapidly. Producers fertilizing, liming pastures. Apples poor to good condition with harvest ongoing. Peanuts good condition with harvest ongoing. Alfalfa 14% poor, 78% fair, 8% good. Other hay 17% poor, 60% fair, 23% good. Pasture feed 11% poor, 65% fair, 24% good. Livestock good condition.

**CALIFORNIA:** Upper level low pressure during midweek brought below normal temperatures, widespread precipitation central northeastern portions State. High pressure dominated early week late week allowing sunny skies slightly above normal temperatures.

Midweek rainfall delayed progress field activities central coast, southern San Joaquin Valley. Elsewhere, fieldwork progressed normally. Rice harvest gained momentum; stubble burned where conditions, air quality regulations allowed. Cotton defoliation, harvest slowed rain San Joaquin Valley; desert harvest full swing. Grain corn, silage corn, dry beans, sugarbeets harvested. Safflower harvest virtually complete. Alfalfa, sudangrass cut, baled. Some new alfalfa planted, established fields sprayed worms. Ground preparation fall planted small grains ongoing. Few fields oats for hay seeded. Wine juice grape harvest continued. Table grape harvest continued. One fifth raisin vineyards had trays exposed rain one third rolled one half boxed. Stone fruit harvest winding down. Late varieties peaches harvested San Joaquin Valley. Plum harvest nearly complete. Apple harvest full swing Fuji Granny Smith main varieties. Pomegranate harvest continued. Recent rain Fresno County some crop loss due growth cracks splits Fuji apples pomegranates. Almond pistachio walnut harvest continued. Valencia orange harvest continued. Olive harvest gained momentum. Lemon grapefruit avocado harvest continued. Broccoli harvest central coast. Fall broccoli, cauliflower progressed normally San Joaquin Valley. Cabbage irrigated, treated for worms Fresno County. Planting winter carrots Kern County, while harvest continued. Celery harvested Oxnard area. Sweet corn harvested central valleys. Fall head, leaf lettuce fields irrigated San Joaquin Valley, lettuce harvested central

coast. Summer melon harvest central valley neared completion. Palo Verde Valley fall melons incurred damage whiteflies. Onion harvest wound down central coast. Pepper harvest San Joaquin Valley. Fall potatoes Tulelake-Butte Valley harvested. Harvest sweet potatoes Merced, Stanislaus Counties continued. Spinach planted Stanislaus, Tulare Counties. Harvest fresh market tomatoes continued San Joaquin Valley. Processing tomato harvest wound down central valleys. Growers treated tomato crops for mildew due recent rains. Vineseed harvested Sutter County with good quantity, quality. Other crops harvested: Squash, cucumbers, green beans, green onions, okra, eggplant, gourds, ornamental corn, herbs, spices, oriental vegetables. Rainfall, some areas, during week. Showers leached nutrients out rangeland grasses, deteriorating feed quality. Rangeland conditions generally poor. Supplemental feeding moderate. Livestock movement, lower elevations active. Sheep grazing tomato, melon fields. Cattle, sheep good condition. Calving, lambing reported.

**COLORADO:** Warm, dry first half of week temperatures in 80s, 90s, 2 to 7° above normal. Cooler later in week with moderate to heavy rains State wide on weekend.

Days suitable for fieldwork 6.5. Soil moisture 23% very short, 36% short, 41% adequate. Alfalfa third cutting 90% complete, 70% 1993, 71% avg.; 1% very poor, 5% poor, 26% fair, 56% good, 12% excellent. Fourth cutting 20% complete. Dry beans 95% cut, 78% 1993, 83% avg.; 88% harvested, 65% 1993, 64% avg. Oats 96% harvested, 97% 1993, 94% avg. Dry onions 92% harvested, 77% 1993, 78% avg. Sugarbeets 4% harvested, 9% 1993, 5% avg.; 4% poor, 20% fair, 67% good, 9% excellent. Corn silage harvest complete. Spring wheat 96% harvested, 94% 1993, 89% avg. Summer potatoes 95% harvested, 84% 1993, 81% avg. Fall potatoes 75% harvested, 72% 1993, 57% avg. Winter wheat 90% seeded, 89% 1993, 86% avg.; 62% emerged, 63% 1993, 64% avg. Livestock mostly good. Pasture, range feed very poor over most of the State, except San Luis valley, mostly good.

**FLORIDA:** Very wet weekend, central, south. Heavy rainfall previous weekend Panhandle, Big Bend areas which caused flooding. Rainfall 4.00 to 7.00 in. Temperatures 2 to 6° above normal north, 1° below normal elsewhere.

Soil moisture adequate in Panhandle. Northern Peninsula adequate with surplus along east coast. Central, Southern Peninsula surplus. Heavy rains delaying harvest of all crops. Tobacco marketing active. Corn harvest virtually complete. Dry weather in Panhandle helped peanut harvest. Cotton harvest starting. Preparations were underway to start sugarcane harvest. Haying active weather permitting. Soybean growers are making preparations for harvest. Excessive rain, some citrus trees standing in water for short durations. Lakes, ponds, streams highest levels in decades. Rainy weather slows harvesting. Early fruit movement slowed by rains. Nearly three-fourths of the packing houses open. Caretakers cutting cover crops, ditching to move excess water, fertilizing, spraying, resetting. Abundant rainfall slowed central, southern vegetable planting, harvesting. Dry weather north for most of week. Sweet corn picking begun. Northern tomato harvest to increase rapidly. Weekend showers flooded some northern tomato fields. Locally heavy downpours all areas caused some bloom drop, reduced yield prospects. Crops harvested: North, sweet corn, watermelons, tomatoes, snap beans, squash; west central, cucumbers, cherry tomatoes, squash; east coast, eggplant. Pasture feed 5% poor, 25% fair, 55% good, 15% excellent. Cattle herds mostly good.

**GEORGIA:** Tropical moisture through 2nd produced heavy rains across southern areas. Rainfall 4.00 to 8.00 in. common southern third of State, 1.00 to 3.00 in. common over remainder. Heaviest 9.16 in. near Eden in Byron County, 8.99 at Bainbridge. Temperatures near normal northeast to a couple degrees above normal elsewhere. Warmest temperatures low 80s mountains, upper 80s to low 90s central, south. Coolest temperatures low 40s northeast mountains to near 60° along Atlantic Coast.

Days suitable for fieldwork 5.9. Soil moisture 1% very short, 17% short, 80% adequate, 2% surplus. Sorghum 14% fair, 85% good, 1% excellent; 68% harvested for grain, 62% 1993, 58% avg. Peanuts 14% fair, 74% good, 12% excellent; 76% dug, 65% 1993, 72% avg.; 59% threshed, 44% 1993, 55% avg. Wheat 25% fair, 74% good, 1% excellent; 2% emerged, 1% 1993, 1% avg. Rye 19% planted, 17% 1993, 14% avg. Other small grains 27% fair, 73% good; 14% planted, 11% 1993, 8% avg. Other vegetables 3% poor, 38% fair, 56% good, 3% excellent. Apples 10% very poor, 10% fair, 80% good; 81% harvested, 65% 1993, 70% avg. Pecans 12% poor, 42% fair, 45% good, 1% excellent; 2% harvested, 0% 1993, 1% avg. Hay 2% poor, 15% fair, 78% good, 5% excellent. Pasture feed 2%

poor, 14% fair, 74% good, 10% excellent. Cattle 6% fair, 90% good, 4% excellent. Hogs 10% fair, 86% good, 4% excellent. Activities: Peanut, hay harvesting, cotton defoliation, harvest preparation in full swing, pasture planting, renovation, spraying cucumbers, cabbage, routine care of livestock, poultry.

**HAWAII:** Variable weather for the week. Mostly humid, light showers much of week. Heavier rains 2nd low pressure trough west of State. Temperatures high 60s to low 90s. Rainfall none to 2.20 in.

Damage to agriculture from previous weeks rain minor. Insect infestations variable for some fields. Spraying increased to control insects, diseases. Banana production heavy. Papaya production moderate. Macadamia nuts in active harvest. Coffee harvest gaining momentum. Sugarcane harvesting winding down some areas.

**IDAHO:** Temperatures 4 to 9° above normal. Precipitation none to 0.04 in. north, none to 0.14 in. southwest, 0.34 to 1.83 in. south central, none to 0.81 in. southeast. Extreme 33°; 94°.

Days suitable for fieldwork 6. Potatoes harvested 44%, 36% 1993, 43% avg.; 16% fair, 61% good, 23% excellent. Soil moisture 46% very short, 31% short, 23% adequate. Range, pasture feed 54%. Winter wheat emerged 15%, 12% 1993, 18% average. Sugarbeets harvested 14%, 12% 1993, 15% avg. Alfalfa hay harvested (3rd cutting) 88%, 61% 1993, 82% avg. Apples harvested 48%, 29% 1993, 39% avg. Field corn for grain harvested 2%, 3% 1993, 7% avg.; silage harvested 67%, 43% 1993, 57% avg. Plums, prunes harvested 99%, 98% 1993, 99% avg. Onions harvested 90%, 62% 1993, 72% avg. Hops harvested 99%, 98% 1993, 97% avg. Dry beans harvested 92%, 60% 1993, 80% avg. Irrigation water supplies 30% very poor, 15% poor, 29% fair, 26% good. Activities: Harvesting potatoes, moving livestock, harvesting apples, silage corn, planting winter wheat.

**ILLINOIS:** Generally dry week across State with most of the rain occurring early on. Highs averaged mid 60s to upper 70s far south. Lows averaged 40s to mid 50s. Rainfall was scattered, generally light. Most amounts 0.20 in. or less, although a few areas had about 0.40 in.

Days suitable for fieldwork 3.75. Soil moisture 28% short, 72% adequate. Winter wheat emerged 2%, less than 1% 1993, 2% avg. Pasture feed 81% of normal. Soil moisture supplies improved to mostly adequate. Crop conditions remained good throughout the State. Farm activities included corn, soybean harvest, chopping silage, seeding winter wheat, harvesting pumpkins, apples, popcorn, fall tillage, applying fertilizer, hauling grain, tending livestock.

**INDIANA:** Rain occurred early in the period. Dry weather prevailed last half of week with warm summer-like temperatures. Temperatures bit below normal, most areas. Deviations normal plus 1° to -3°. High temperatures in the 70s to 80s. Lows in the mid to upper 30s across State. Rainfall 0.10 to 1.00 in. over most of the State.

Days suitable for fieldwork 3.1. Recent precipitation has improved pastures, helped alleviate dry soil conditions. Corn, soybean harvest made good progress after mid week. Other activities: Plowing, spreading fertilizer, seeding winter wheat, harvesting seed corn, cutting corn silage, harvesting tobacco, machinery maintenance, preparing for fall harvest. Pasture feed 71% of normal, 64% last week. Topsoil 18% short, 77% adequate, 5% surplus. Subsoil 45% short, 53% adequate, 2% surplus. Soybeans mature 70%, 64% 1993, 59% avg. Tobacco harvested 93%, 92% 1993, 90% avg.

**IOWA:** Temperatures near normal. Extremes 33° (west, 27th); 93° (southwest, 30th). Precipitation trace southeast up to 2.28 in. north central; average 0.47" (normal 0.75 in.). Dry until 2nd.

Days suitable for fieldwork 3.9. Topsoil 14% short, 80% adequate, 6% surplus. Subsoil 20% short, 79% adequate, 1% surplus. Winter wheat acreage seeded 28%, 24% 1993, 43% avg. 1995 row crop acreage fall tilled 3%, 1% 1993, 1% avg. 1995 row crop acreage fall fertilizer applied 3%, 1% 1993, 1% avg. Percent moisture of field corn 26%. Percent moisture of field corn being harvested 22%. Grain storage availability 14% short, 84% adequate, 2% surplus. Pasture feed 14% poor, 51% fair, 27% good, 8% excellent.

**KANSAS:** Temperatures 2 to 5° above normal west, central; normal east. Little or no precipitation.

Days suitable for fieldwork 6.5. Surface soil moisture 75% short to very short, 25% adequate. Subsurface moisture 58% short to very short, 42% adequate. Clear, warm weather during the middle of the week allowed the fall crop harvest to make good progress. Corn harvest slowed slightly in northwest, southeast as farmers were planting wheat or harvesting other crops; harvest elsewhere continued at full speed. Sorghum harvest gaining momentum in most central, eastern areas. Soybean harvest progressed rapidly in western two-thirds of the State. Many central area farmers are still waiting for rain before planting winter wheat. Winter wheat emerged 35%, 30% 1993, 30% avg. West central counties along the State border report serious grasshopper

damage; a few fields were reported at treatment levels. Fall crop harvest, seeding wheat major activities. Pasture feed fair condition. Ranchers moving cattle to alternate pastures, supplementing feed in many areas.

**KENTUCKY:** Highest temperatures reached 80s, lowest readings low to mid 40s. Temperatures between 62 to 65°, about normal. Rain early in week, most reporting stations received between 0.10 to 0.50 in.

Days suitable for fieldwork 4.6. Soil moisture 11% very short, 34% short, 55% adequate. Tobacco 96% cut, most burley housed, curing well. Nearly 20% ready for stripping or already stripped. Houseburn minimal, quality expected good to excellent. Corn harvest active western half, beginning eastern half. Soybean condition improved by recent showers, harvest beginning. About 70% soybeans considered safe from frost. Late hay yields disappointing some areas. Pasture feed fair to good, very short some counties.

**LOUISIANA:** Temperatures 1.8° below to 1.0° above normal. Extremes 43°; 98°. Rainfall none some areas to 0.62 in. north east.

Days suitable for fieldwork 6.7. Soil moisture supplies: 13% very short, 55% short, 32% adequate. Cotton harvest was in full swing. Hay 92% final cutting, 89% 1993, 88% avg. Final harvest is coming to an end. Rice 100% ripe, 97% 1993, 98% avg. Sorghum harvest coming quickly to a close. Soybeans 87% turning color, 87% 1993, 77% avg. Harvest was active. Reported yields were above average on the early varieties. Sugarcane 28% fair, 72% good; 90% planted, 92% 1993, 79% avg.; 1% harvested, 1% 1993, 0% avg. Planting, harvesting activities were active. Sweet potatoes 15% fair, 71% good, 14% excellent; 65% harvested, 53% 1993, 57% avg. Increased problems with bruising from dry soils. Wheat 2% planted, 2% 1993, 2% avg.; 0% emerged, 0% 1993, 0% avg. Livestock 13% poor, 58% fair, 26% good, 3% excellent. Pasture feed 4% poor, 8% fair, 86% good, 2% excellent. Vegetables 38% fair, 60% good, 2% excellent.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 0.61 in., normal 0.77 in. Temperature 66.4°, normal 65.0°. Extremes 39°; 84°.

Days suitable for fieldwork 5.1. Topsoil 12% short, 76% adequate, 12% surplus. Subsoil 6% short, 94% adequate. Pasture feed excellent. Wheat good; 9% planted, 7% 1993, 4% avg. Barley good; 23% planted, 24% 1993, 25% avg. Rye good; 25% planted, 19% 1993, 23% avg. Corn 82% mature, 89% 1993, 80% avg.; 27% grain harvested, 45% 1993, 35% avg.; 65% silage harvested, 86% 1993, 79% avg. Soybeans good; 75% turned, 73% 1993, 67% avg.; 45% shedding leaves, 41% 1993, 39% avg. Sorghum 90% turned, 79% 1993, 95% avg.; 78% mature, 45% 1993, 79% avg.; 10% harvested, 11% 1993, 14% avg. Tobacco 96% harvested, 92% 1993, 97% avg. Other hay 85% third cut, 83% 1993, 65% avg.; 52% fourth cut, 34% 1993, 23% avg. Alfalfa hay 90% fourth cut, 81% 1993, 67% avg.; 17% fifth cutting, 17% 1993, 11% avg. Hay supplies adequate. Apples 60% harvested, 62% 1993, 59% avg.

**DELAWARE:** Precipitation 0.64 in., normal 0.84 in. Temperature 65.3°, normal 65.8°. Extremes 45°; 82°.

Days suitable for fieldwork 3.8. Topsoil 67% adequate, 33% surplus. Subsoil 14% short, 57% adequate, 29% surplus. Barley good; 10% planted, 38% 1993, 20% avg. Corn 88% mature, 92% 1993, 90% avg. 38% grain harvested, 49% 1993, 48% avg.; 92% silage harvested, 98% 1993, 93% avg. Soybeans fair; 46% turned, 61% 1993, 55% avg.; 18% shedding leaves, 38% 1993, 29% avg.; 5% harvested, 2% 1993, 3% avg. Sorghum fair to mostly good; 70% turned, 69% 1993, 82% avg.; 25% mature, 28% 1993, 51% avg. Other hay 100% third cut, 83% 1993, 91% avg.; 26% fourth cutting, 0% 1993, 19% avg. Alfalfa hay 92% fourth cut, 64% 1993, 78% avg.; 28% fifth cutting, 3% 1993, 4% avg. Hay supplies adequate; pasture feed good. Apples 76% harvested, 69% 1993, 63% avg.

**MICHIGAN:** Extremes 26°; 77°. Precipitation 0.55 to 3.26 in. across the State.

Days suitable for fieldwork 4.5. Soil moisture 5% short, 70% adequate, 25% surplus. Dry beans 80% mature, 90% 1993, 85% avg.; 65% harvested, 40% 1993, 55% avg.; 10% very poor, 15% poor, 40% fair, 30% good, 5% excellent. Corn silage 60% harvested, 35% 1993, 50% avg. Potatoes 75% harvested, 60% 1993, 65% avg. Hay 80% third cutting, 65% 1993, 80% avg.; 25% fourth cutting, 25% 1993; 1% very poor, 4% poor, 25% fair, 45% good, 25% excellent. Pasture feed 85% of normal. Major activities: Fruit harvest, cutting hay, planting wheat, corn silage harvest, corn grain, soybean harvest, potato harvest, dry bean harvest.

**MINNESOTA:** Temperatures normal to 5° below normal for the State. Extremes 29°; 80°. Precipitation 0.40 in. below normal. Greatest weekly total 0.78 in.

Days suitable for fieldwork 4.4. Topsoil 75% adequate, 25% surplus. Corn 95% mature, 14% 1993, 63% avg.; harvested 6%, 1% 1993, 6% avg.; cut for silage 65%, 24% 1993, 54% avg.; moisture content 27%, 30% 1993, 28% avg. Soybeans shedding leaves 98%, 47% 1993, 87% avg.; mature 80%, 12% 1993, 63% avg.; harvested 21%, 13% 1993, 28% avg.; moisture content 15%, 15% 1993, 13% avg. Potatoes 63% harvested, 57% 1993, 62% avg. Dry edible beans 72% harvested, 56% 1993, 80% avg. Flaxseed

67% harvested, 64% 1993, 72% avg. Sugarbeets 18% harvested, 15% 1993, 15% avg. Sunflowers 25% harvested, 4% 1993, 16% avg. Grain, hay stubble 95% worked, 53% 1993, 66% avg. Rye 95% seeded (fall), 76% 1993, 88% avg. Winter wheat 97% seeded (fall), 72% 1993, 89% avg. Corn 1% very poor, 11% fair, 62% good, 26% excellent. Soybeans 1% poor, 27% fair, 59% good, 13% excellent.

**MISSISSIPPI:** Temperatures 1.1° below normal. Extremes 39°;95°. Soil temperature 75°. Precipitation 0.35 in., 0.47 in. below normal. Rainfall across the State none in east coast district to 1.83 in. coastal district. Lack of moisture in the soil delayed some planting of winter pastures. Pastures in need of rain.

Days suitable for fieldwork 6.3. Soil moisture 60% short, 38% adequate, 2% surplus. Corn 86% harvested, 69% 1993, 71% avg.; 54% good, 46% excellent. Cotton 98% open bolls, 93% 1993, 91% avg.; 27% harvested, 14% 1993, 23% avg.; 40% fair, 56% good, 4% excellent. Rice 98% mature, 86% 1993, 92% avg.; 80% harvested, 47% 1993, 62% avg.; 70% good, 30% excellent. Sorghum 93% harvested, 77% 1993, 77% avg.; 99% silage harvested, 91% 1993, 93% avg.; 1% poor, 51% fair, 43% good, 5% excellent. Soybeans 92% turning color, 74% 1993, 75% avg.; 73% shedding leaves, 43% 1993, 46% avg.; 28% harvested, 8% 1993, 9% avg.; 22% fair, 28% good, 50% excellent. Wheat 10% planted, 7% 1993, 12% avg. Peanuts 52% harvested, 83% 1993, 83% avg. Sweet potatoes 65% harvested, 59% 1993, 59% avg. Pecans 4% very poor, 12% poor, 72% fair, 12% good. Livestock 23% fair, 70% good, 7% excellent. Pasture feed 75% of normal. Activities: Corn, cotton, rice, soybean harvest, planting for winter pasture planting.

**MISSOURI:** Temperatures above normal across the State, ranging 4° below normal at Caruthersville to 3° above normal at Kansas City. Rainfall averaged 0.23 in., varying from virtually none across southern half of State to 1.09 in. northwest.

Days suitable for fieldwork 5.1. Topsoil 37% short, 60% adequate, 3% short. Corn harvest by district ranges from 18% central to 93% southeast. Soybeans dropping leaves by district ranges from 40% southwest to 94% north central. Soybeans harvested by district ranges from 4% southwest to 24% north central. Sorghum mature by district ranges from 64% central to 100% southeast. Sorghum harvest by district ranges from 15% or less in northern two-thirds of state to 72% southeast. Pasture feed 1% very poor, 13% poor, 59% fair, 26% good, 1% excellent.

**MONTANA:** Temperatures above normal first half of week, slightly below normal mid week on. Light to moderate precipitation west, none to very light east.

Days suitable for fieldwork 6.9. Topsoil moisture 78% short, 22% adequate. Subsoil moisture 86% short, 14% adequate. Dry beans 98% harvested, 35% 1993, 74% avg. Corn for silage 89% harvested, 53% 1993, 68% avg. Potatoes 39% harvested, 10% 1993, 26% avg. Sugarbeets 15% harvested, 5% 1993, 8% avg. Pasture, range feed condition 70% of normal. Cattle, calves moved from summer ranges, 40%. Sheep, lambs moved from summer ranges, 46%.

**NEBRASKA:** Temperatures 2 to 6° above normals. Precipitation occurred at end of week varying from less than 0.10 to 0.50 in.

Days suitable for fieldwork 5.6. Topsoil 52% short, 45% adequate, 3% surplus. Subsoil 45% short, 55% adequate. Corn 1% poor, 7% fair, 66% good, 26% excellent; 98% mature, 70% 1993, 85% avg.; 22% harvested, 4% 1993, 16% avg. Soybeans 55% harvested, 17% 1993, 29% avg. Sorghum 1% poor, 8% fair, 60% good, 31% excellent; 97% mature, 43% 1993, 68% avg.; 23% harvested, 1% 1993, 17% avg. Dry beans 97% harvested, 70% 1993. Winter wheat 94% sown, 86% 1993, 89% avg.; 66% emerged, 54% 1993, 59% avg. Pasture, range feed 85% of normal.

**NEVADA:** High pressure exited the State early in week, replaced by a low pressure system accompanied by clouds, thundershowers. All agricultural reporting stations except Las Vegas reported at least some precipitation. Precipitation were greatest in northeast, east central areas. McGill received 1.43 in., Great Basin National Park 1.34 in., Jackpot 1.31 in. Precipitation 0.44 in. northeast division, 0.25 in. south central, northwest 0.13 in. Temperatures 4° above normal at all climatic divisions. Extremes 21°; 106°.

Alfalfa harvest continued; third cutting 85% complete compared with 80% 1993, 75% avg. Alfalfa was in the fifth cutting in the extreme South. Alfalfa seed harvest 95% complete. Onion harvest 60% complete, 65% 1993, 80% avg. Potato harvest 60% complete, 40% 1993, 55% avg. Movement of livestock to fall pastures continued; some livestock moved due to lack of water on range. Video marketing, contracting of livestock active. Main farm, ranch activities; haying, late season crop harvests, moving livestock.

**NEW ENGLAND:** Precipitation 0.15 to 2.56 in. regionwide. Temperatures 53 to 58° north; 54 to 61° south. Temperatures 1° below normal regionwide. Maximum temperatures 67 to 76° north; 61 to 77° south. Minimum temperatures 29 to 44° north; 31 to 55° south.

Days suitable for fieldwork 5. Soil moisture 3% short, 69% adequate, 28% surplus. Available grazing 12% short, 84% adequate, 4% surplus. Fieldwork one day behind schedule. Maine potatoes 60% harvested, 55% 1993, 60% avg.; good to fair. Rhode Island potatoes 70% harvested, 80% 1993, 70% avg.; good. Connecticut River Valley potatoes 80% harvested, 80% 1993, 80% avg.; good. Maine oats 90% harvested, 90% 1993, 90% avg.; good to fair. Field corn 50% harvested, 40% 1993, 40% avg.; good. Shade tobacco good. Outdoor tobacco good. Second crop hay 95% harvested, 90% 1993, 95% avg.; good. Third crop hay 80% harvested, 65% 1993, 70% avg.; good. Sweet corn 99% harvested, 99% 1993, 99% avg.; good. Apples 60% harvested, 50% 1993, 50% avg.; size medium, condition good, color good. Peaches size medium, 100% harvested, fair. Pears 95% harvested; size medium, good. Cranberries 40% harvested; size medium/large, good to excellent. Major farm activities: Chopping silage corn, harvesting fruits, vegetables, disking down harvested fields, planting cover crops.

**NEW JERSEY:** Temperatures near normal. Extremes 31°; 82°. Rainfall 1.78 in. north, 0.43 in. central, 0.72 in. south. Heaviest 24 hour total 2.38 in. on 26th, 27th. Estimated soil moisture, in percent field capacity, averaged 94% north, 88% central, 83% south. Four inch soil temperatures averaged 62° north, 62° central, 64° south.

Days suitable for fieldwork 5. Harvesting of fall vegetables was the major farming activity. Good supply of eggplants, cucumbers, green squash. Moderate, increasing supply of endive, escarole, herbs, parsley. Moderate volume of beans, pumpkins, turnips, leeks, lettuce (all types), spinach. Limited supply of okra, green onions. Harvesting of field corn has started in limited areas. Fall varieties of apples being harvested: Red Delicious, Macintosh, Macoun. Cranberry quality reported as good with early harvest beginning.

**NEW MEXICO:** Relatively dry, unseasonably warm weather prevailed over most of the State. Temperatures were above normal just about everywhere, averaging 6° above normal for the State. Eastern plains were especially warm with some anomalies as great as plus 12°. First "winter-type" storm of the season moved across the Rockies from Colorado northward, but left some precipitation at New Mexico locations toward week's end; Chama's 0.41 in. was the greatest reported.

Days suitable for fieldwork 6.6. Soil moisture 93% short, 7% adequate. Cropland conditions: Alfalfa 18% fair, 82% good. Chile was reported at 7% poor, 7% fair, 86% good. Corn 19% poor, 25% fair, 56% good. Irrigated sorghum 38% fair, 62% good. Dryland sorghum 75% poor, 25% fair. Cotton 9% poor, 27% fair, 46% good, 18% excellent. Pecan 13% poor, 25% fair, 62% good. Apple 13% fair, 87% good. Cattle, sheep conditions varied across the State from poor to excellent condition. Range feed 60% of normal.

**NEW YORK:** Began mild, lows in 50s, 60s with daytime temperatures reaching 70s. Rainfall began night of 25th, continued into mid week. Temperatures on 30th, 1st were close to seasonal nights, cool during days. Light rain also on 2nd. Overall weekly temperatures near normal. Precipitation above normal except below normal for Coastal Sections.

Days suitable for fieldwork 3.3. Soil moisture mostly surplus. Pasture feed 88% of normal. Corn mostly excellent. Silage 22% harvested, 33% 1993, 35% avg. Hay good condition. Alfalfa third cutting 93% harvested, 78% 1993, 77% avg. Dry bean harvest slowed by rains. Apple, grape harvests underway. Vegetable harvests rapidly winding down. Pumpkins moving to market. Onion harvest continued as weather permitted.

**NORTH CAROLINA:** Mean temperature at the seven reporting stations averaged 62° at Asheville to 74° at Cape Hatteras. Rainfall no precipitation at Cape Hatteras to 0.76 in. at Asheville.

Days suitable for fieldwork 5.8. Soil 17% short, 82% adequate, 1% surplus. Crop conditions: Pasture feed 18% fair, 71% good, 11% excellent; tobacco 7% poor, 17% fair, 64% good, 12% excellent; corn 4% very poor, 7% poor, 30% fair, 56% good, 3% excellent; cotton 9% fair, 85% good, 6% excellent; peanuts 14% fair, 85% good, 1% excellent; soybeans 13% fair, 85% good, 2% excellent; hay 21% fair, 72% good, 7% excellent; sweet potatoes 12% fair, 68% good, 20% excellent; apples 89% good, 11% excellent; sorghum 1% poor, 19% fair, 75% good, 5% excellent; hay, roughage supplies 10% short, 80% adequate, 10% surplus; corn for grain harvested 65%, 73% 1993, 62% avg.; corn for silage harvested 84%, 93% 1993, 88% avg.; burley tobacco harvested 87%, 85% 1993, 86% avg.; flue-cured tobacco harvested 93%, 80% 1993, 92% avg.; sorghum 45%, 31% 1993, 35% avg.; apples harvested 56%, 54% 1993, 68% avg.; sweet potatoes harvested 36%, 19% 1993, 23% avg.; cotton harvested 13%, 14% 1993, 10% avg.; peanuts dug 21%, 19% 1993, 20% avg.; peanuts threshed 14%, 9% 1993, 10% avg.; wheat planted 26%, 12% 1993, 10% avg.; oats planted 27%, 12% 1993, 15% avg.; barley planted 27%, 13% 1993, 15% avg.; rye planted 22%, 18% 1993, 19% avg.; cotton open bolls 94%, 97% 1993, 88% avg.; soybeans leaf drop 34%, 24% 1993, 28% avg.; second cutting of hay is 90% complete with the third cutting 59% complete. Activities included: Harvesting tobacco, corn. Other activities included: Marketing tobacco, harvesting hay, cotton, peanuts, sweet potatoes;

planting small grains; tending livestock; equipment repair, general farm maintenance.

**NORTH DAKOTA:** Weather throughout the State was warm, quite dry with much of State receiving little or no precipitation. Precipitation none east central to 0.20 in. southwest. Temperatures 1° above normal northeast, east central to 4° above normal northwest, west central, southwest. Extremes 31° north central; 84° southwest.

Days suitable for fieldwork 5.5. Topsoil 5% very short, 19% short, 67% adequate, 9% surplus. Subsoil 8% very short, 27% short, 57% adequate, 8% surplus. Small grain harvest virtually complete, well ahead of 1993, slightly ahead of average. Hard red spring wheat 98% combined, 90% 1993, 97% avg.; durum wheat 97% combined, 79% 1993, 94% avg. Harvest of corn, sunflower was just beginning in a few areas while progress continued on other late season crops. Flaxseed 67% combined, 49% 1993, 79% avg.; corn for grain 71% ripe and beyond, 4% harvested, 27%, 0% 1993, 60%, 14% avg.; corn for silage 68% cut, 69% 1993, 83% avg.; dry edible beans 67% combined, 43% 1993, 71% avg.; soybeans 42% combined, 14% 1993, 43% avg.; sunflower 72% bracts turned brown and beyond, 3% combined, 57%, 0% 1993, 81%, 12% avg.; sugarbeets 20% lifted, 14% 1993, 20% avg.; potatoes 80% dug, 78% 1993, 80% avg. Condition: Flaxseed 2% poor, 15% fair, 72% good, 11 excellent; corn for grain 1% poor, 9% fair, 68% good, 22% excellent; corn for silage 2% very poor, 5% poor, 20% fair, 65% good, 8% excellent; dry edible beans 1% very poor, 6% poor, 20% fair, 62% good, 11% excellent; soybeans 5% poor, 13% fair, 65% good, 17% excellent; sunflower 1% very poor, 2% poor, 8% fair, 70% good, 19% excellent; sugarbeets 2% poor, 5% fair, 79% good, 14% excellent; potatoes 2% poor, 5% fair, 78% good, 15% excellent. Indicated acres planted, winter wheat 64%, rye 66%. Range, pasture feed 81% of normal. Stockwater supplies 5% short, 93% adequate, 2% surplus.

**OHIO:** Two cold fronts swept through State, bringing varying amounts of rain to the Buckeye State. Temperatures cooled after the first front moved through early in the period, then moderated as the second system approached on 1st. This day also marked the occurrence of some mid to upper 30° readings in the northern third of the State. Some patchy frost formed that morning, notably in the Youngstown-Marion area. Mean temperatures mid 50s north to low 60s south. This was 2 to 4° below normal over the northern third of the State while central, southern areas were within 1° of normal. Maximum readings reached mid 60s to low 70s with average low temperatures 40s north to low 50s south. Precipitation heaviest in northeastern areas 1.00 to 1.70 in. Northern areas noted generally 0.25 to 0.50 in. Precipitation dwindled across central, southern sections with most amounts on the order of 0.10 in. or less. Only a couple of sites in central and southern Ohio noted heavier amounts than 0.50 in.

Days suitable for fieldwork 4.4. Rain slowed bean, corn harvest during the week, combines were in full operation over the weekend as conditions were ideal for harvest. Soil moisture 30% short, 68% adequate, 2% surplus. Soybeans mature 68%, 65% 1993, 54% avg. Corn mature 55%, 66% 1993, 51% avg. Tomato harvest 86% complete. Potato harvest 75% complete. Corn for silage harvest 69% complete. Hay 1% very poor, 4% poor, 31% fair, 54% good, 10% very good. Other hay third cutting 90% complete. Pasture feed 2% very poor, 14% poor, 30% fair, 47% good, 7% excellent.

**OKLAHOMA:** Temperatures 3° above normal in the central district to 6° above in the Panhandle, west central district. Precipitation none except for the north central, Panhandle districts.

Days suitable for fieldwork 6.4. Topsoil 53% short, 47% adequate. Subsoil 38% short, 62% adequate. Corn 99% mature, 99% 1993, 98% avg.; 90% harvested, 92% 1993, 79% avg. Soybeans 69% mature, 49% 1993, 37% avg.; 35% harvested, 15% 1993, 11% avg. Peanuts 11% fair, 89% good; 60% mature, 48% 1993, 69% avg.; 24% dug, 6% 1993, 9% avg. Cotton 12% poor, 43% fair, 45% good; 85% open bolls, 70% 1993, 51% avg.; 15% harvested, 5% 1993, 1% avg. Pasture feed 92% normal. Feeder steers, heifers were steady to firm.

**OREGON:** Temperatures coast 1 to 5° above normal, northern interior valley 8° above normal, southern interior valley 10° above normal, central sections 14° above normal, elsewhere 8 to 9° above normal. Precipitation coast 0.10 to 0.50 in., southern Willamette Valley, southern interior valley 0.75 to 1.25 in., northern Willamette Valley 0.10 in., elsewhere 0.10 to 0.40 in.

Soil moisture 84% short, 16% adequate. Barley 99% harvested, 10% planted. Winter wheat 14% planted, 3% emerged. Growers waiting for rain before proceeding with fall seeding. Alfalfa hay harvest continued statewide. Klamath Basin sugarbeet harvest to begin 5th. Fall seeding of grass seed continued. Field corn silage harvest winding down. Eastern onion, potato harvest continued, good yields. Carrot seed seeding continued, central sections. Willamette Valley: Cole crops, pumpkins, corn, snap beans, potatoes, onion harvest, wine grape harvest full swing, pruning, training canberries winding down, strawberry

fertilization underway, apple harvest continued, hazelnut orchards prepared harvest. Pear harvest continued, Hood River Valley, Rogue River Valley/Medford district. South coast, cranberry harvest underway. Livestock good. Rangeland, forest land continued extremely dry. Eastern pasture, stockwater conditions extremely poor. Early weaning of calves due to dry conditions continued. General fall livestock activities continued statewide. Range, pasture feed 58% of normal.

**PENNSYLVANIA:** Showers, thundershowers beginning, weekend. Temperature 63°, 3° above normal. Extremes 32°; 82°. Precipitation 2.06 in., 1.25 in. above normal.

Days suitable for fieldwork 4. Soil moisture 3% short, 68% adequate, 29% surplus. Ensilage corn harvested 51% complete, 52% 1993; 2% poor, 15% fair, 47% good, 36% excellent. Soybean harvest 2% complete, 5% 1993; 2% poor, 15% fair, 49% good, 34% excellent. Wheat planted 48% complete, 45% 1993. Barley planted 59% complete, 64% 1993. Potato harvest 66% complete, 69% 1993. Third cutting alfalfa 92% complete, 91% 1993. Fourth cutting alfalfa 62% complete, 57% 1993. Quality of hay made 34% poor, 36% fair, 30% good. Feed from pastures good to excellent. Apple harvest 59% complete, 62% 1993. Grapes harvest 44% complete, 54% 1993. Fall plowing 67% complete, 67% 1993. Activities: Making hay; harvesting potatoes, corn grain, corn silage; plowing; soybean harvest started; planting winter small grains; repairing equipment; fixing fences; hauling manure; caring for livestock.

**PUERTO RICO:** Rainfall 1.13 in. was 0.72 in. below normal. Highest total rainfall 3.80 in. at Corral Viejo, 3.26 in. at San Sebastian, 3.00 in. at Coloso. Island temperatures 80° on the Coasts, 75 to 77° Interior with Mean Station temperature 83.6° at San Juan WSFO to 72.3° at Arecibo Ionos. Extremes 58°; 94°.

**SOUTH CAROLINA:** Rainfall 0.30 in.; temperatures 1 to 2° below normal.

Days suitable for fieldwork 6.2. Soil moisture 36% short, 64% adequate. Tobacco 82% stalks destroyed, 63% 1993, 67% avg. Corn fair to good; 86% harvested, 86% 1993, 87% avg. Cotton 36% fair, 47% good, 17% excellent; 77% open bolls, 94% 1993, 88% avg.; 9% harvested, 21% 1993, 15% avg. Soybeans 23% fair, 70% good, 7% excellent; 28% leaves turning, 33% 1993, 40% avg.; 7% dropping leaves, 9% 1993, 13% avg.; 4% mature, 4% 1993, 6% avg.; apples good; 75% harvested, 68% 1993, 80% avg. Barley 2% planted, 4% 1993, 3% avg.; oats 5% planted, 13% 1993, 6% avg. Peanuts 40% harvested, 26% 1993, 32% avg. Rye 11% planted, 12% 1993, 11% avg.; 4% emerged, 3% 1993, 3% avg. Sweet potatoes 22% harvested, 31% 1993, 39% avg. Winter wheat 2% planted, 3% 1993, 0% avg. Sorghum fair to good; 43% harvested, 47% 1993, 50% avg. Fall hay good; 77% harvested, 59% 1993, 71% avg. Pasture feed 35% fair, 61% good, 4% excellent.

**SOUTH DAKOTA:** Temperatures 3° below normal to 10° above normal. Extremes 31°; 92°. Scattered precipitation received late, nearly all locations. Heaviest 1.26 in., south central.

Days suitable for fieldwork 6.0. Topsoil 28% very short, 38% short, 33% adequate, 1% surplus. Subsoil 24% very short, 32% short, 39% adequate, 5% surplus. Sunflower 10% fair, 61% good, 29% excellent; 21% harvested, 4% 1993, 21% avg. Livestock 7% fair, 75% good, 18% excellent. Feed supply 1% very short, 11% short, 77% adequate, 11% surplus. Pasture feed 77% of normal. Stockwater supply 2% very short, 10% short, 79% adequate, 9% surplus. Ranchers moved cattle to harvested fields, fall pastures, weaned calves, moved hay to winter headquarters.

**TENNESSEE:** Cold front moved across the State on 27th bringing showers, thundershowers to most locations. Rainfall 0.25 in. Heaviest rain of the week occurred on 2th. Heaviest rainfall fell at Chattanooga where 0.50 in. was received. Temperatures below normal over State, except for Memphis. Temperatures 7° below normal at Bristol to 1° below normal in Jackson. Highs were around 80° with average lows about 50°.

Days suitable for fieldwork 5.5. Soil moisture 12% short, 87% adequate, 1% surplus. Corn 93% mature, 95% 1993, 93% avg.; 53% grain harvest, 49% 1993, 48% avg.; 92% silage harvest, 94% 1993, 88% avg.; cotton 97% open bolls, 99% 1993, 86% avg.; 18% harvested, 23% 1993, 19% avg.; 99% good, 1% excellent. Burley 94% harvested, 91% 1993, 94% avg. 7% burley strip., 5% 1993, 4% avg.; dark fire cured 98% harvest, 94% 1993, 94% avg. Dark air cured 96% harvest, 93% 1993, 93% avg. Sorghum 99% mature, 99% 1993, 91% avg.; 75% grain harvest, 70% 1993, 52% avg.; soybeans 46% shedding, 50% 1993, 44% avg.; 23% mature, 21% 1993, 18% avg.; 5% harvested, 4% 1993, 3% avg.; 13% fair, 82% good, 5% excellent. Wheat 8% seeded, 8% 1993, 10% avg.; cattle, 4% fair, 92% good, 4% excellent.

**TEXAS:** High pressure provided clear skies, dry conditions last week. Only district to receive significant rainfall was Lower Rio Grande Valley, which reported an average weekly total of 0.63 in. All ten districts had rainfall departures 0.36 to 1.14 in. Clear skies, dry air produced mean temperatures above normal last week. Exceptions were the Lower Rio

Grande Valley and Southern Texas districts, 4°, 2° below normal respectively. Other divisions had departures +0° South Central Texas to +5° High Plains. Mean soil temperature upper 70s, low 80s last week. Highest weekly mean soil temperature was 85° in Uvalde, Beaumont, Beeville. Lowest weekly mean soil temperature was 71° in Bushland. Highest daily maximum soil temperature was 103° at Beaumont, while the lowest daily minimum soil temperature was 59° at Bushland.

**Crops:** Corn: open weather conditions allowed harvest to push forward in the Blacklands where activities were virtually completed. Harvest continued in full swing in the Plains. Corn 83% normal, 82% 1993. Cotton harvest activities continued in Blacklands, Trans-Pecos, Edwards Plateau, south Central Texas. Stalk destruction was nearing completion in Coastal Bend, Upper Coast. Hot, windy weather allowed cotton to continue to open in Plains where defoliation activities were underway, some early fields were harvested. Cotton 61% normal, 77% 1993. Peanuts: dry weather conditions allowed peanut harvest to progress at a good pace. Harvest got underway in Cross Timbers, Plains. Some producers were waiting for additional moisture before digging. Peanut 78% normal, 69% 1993; 12% harvested, 8% 1993. Rice harvest was nearly completed as open weather conditions dominated along Upper Coast. Sorghum harvest continued in the Plains, was completed in most areas of the Blacklands. Sorghum 65% normal, 80% 1993; 95% turning color, 97% 1993. Soybeans: harvest made good progress last week. Open weather conditions helped late maturing soybeans continue to make good progress, 37% harvested, 38% 1993. Small grains: planting of winter wheat continued across the Plains, Cross Timbers, Blacklands. In some areas, planting activities were delayed due to dry soil conditions. Earlier planted fields continued to emerge but need additional moisture. Oat planting activities proceeded in East Texas, Edwards Plateau, South Central Texas, and along the Upper Coast. Some fields in the Edwards Plateau were infested with army worms. Preparation for planting continued in parts of East Texas and in South Texas. Wheat 71% normal, 71% 1993; 29% emerged, 26% 1993; 29% oats planted, 26% 1993. Sugarbeets 0% harvested, 2% 1993. Sunflowers 38% harvested, 34% 1993.

**Commercial Vegetables:** Rio Grande Valley-harvest of early oranges continued on a limited basis. Cucumber harvest began late in the week. Onions, tomatoes, peppers, watermelons made good progress. San Antonio Winter Garden fall cabbage planting was completed. Trans Pecos spraying for sweet potato white fly was active. Harvest of chilies and peppers was active. East Texas fall vegetable planting preparations continued. Sweet potato harvest was winding down. High Plains carrot, pepper, pumpkin harvest continued. Pecans: harvest continued in South Texas, with most producers reporting a light crop. A few early developing native orchards in the Blacklands were also harvested. Isolated irrigation continued in some areas of the Trans Pecos.

**Range and Livestock:** Hot, drying weather caused range, pasture conditions to begin to decline once again. More rain is needed in order for conditions to improve. Hay harvest continued in most areas except for the Plains. Producers increased supplemental feeding, some were hauling water as stock tank levels continued to decrease. Most livestock remained in fair to good condition.

**UTAH:** Temperature 7° above normal; minimums 4° above normal. Precipitation light in the Dixie Division; heavy across the rest of the State.

Days suitable for fieldwork 5.9. Soil moisture 89% short, 9% adequate, 2% surplus. Winter wheat planted for 1995 crop 62%, 77% 1993, 87% avg.; emerged for 1995 crop 22%, 61% 1993, 38% avg. Corn matured 87%, 55% 1993, 69% avg.; harvested for silage 72% completed, 53% 1993, 73% avg.; harvested for grain 19% completed, 4% 1993, 15% avg. Alfalfa 4th cutting 52%, 30% 1993, 55% avg.; harvested for seed 82%, 80% 1993, 83% avg. Apples harvested 46%, 18% 1993, 53% avg. Onions harvested 75%, 59% 1993, 77% avg. Potatoes harvested 58%, 36% 1993, 55% avg. Dry beans harvested 28%. Cattle moved from summer range 63%, 43% 1993, 48% avg. Sheep moved from summer range 63%, 50% 1993, 57% avg. Pasture, range feed poor to fair. Major farm activities were: Harvesting alfalfa hay, apples, onions, potatoes, corn silage; planting winter wheat; irrigating harvested fields.

**VIRGINIA:** Temperatures above normal. Extremes 37°; 87°. Precipitation was variable.

Days suitable for fieldwork 5.5. Topsoil 32% short, 63% adequate, 5% surplus. Pasture feed 1% poor, 55% fair, 44% good. Livestock 15% fair, 85% good. Corn grain harvest 57%, 60% 1993, 57% avg.; silage harvested 75%, 85% 1993, 86% avg.; mature 94%, 98% 1993, 97% avg. Soybean 9% poor 62% fair, 29% good; harvested 7%, 3% 1993, 3% avg. Peanuts 50% fair, 50% good; dug 37%, 25% 1993, 44% avg.; combined 15%, 11% 1993, 29% avg. Cotton harvested 5%, 14% 1993, 14% avg. Flue tobacco harvested 90%, 84% 1993, 92% avg. Burley tobacco harvested 94%, 92% 1993, 97% avg. Fire tobacco harvested 100%, 98% 1993, 100% avg. Sun tobacco harvested 100%, 100% 1993, 100%

avg. Fall apples harvested 47%, 57% 1993, NA avg. Winter apples harvested 37%, NA 1993, NA avg. Wheat seeded 12%, 5% 1993, 7% avg. Oats seeded 50%, 17% 1993, 26% avg. Barley seeded 26%, 19% 1993, 19% avg. Sweet potato harvest nearly 60% completed. Liming pasture and hay fields, preparing land for small grain seeding. Harvesting snapbeans, cucumbers, squash, tomatoes. Irrigating fall vegetables. Apple color reported good due cool nights, sunny days. Vaccinating, marketing cattle.

**WASHINGTON:** Temperatures 2° above normal to 7° above normal west; 3° above normal to 10° above normal east. Precipitation none to 0.06 in. west; none to 0.27 in. east. Hot, dry conditions continued.

Days suitable for fieldwork 6.9. Soil moisture 92% short, 8% adequate. Hay, other roughage supplies 17% short, 79% adequate, 4% surplus. Range, pasture feed 35% very poor, 35% poor, 20% fair, 10% good. Potatoes 4% fair, 96% good. Dry edible beans 8% fair, 92% good. Corn 10% fair, 88% good, 2% excellent. Winter wheat 53% planted, 79% 1993, 76% avg.; 45% emerged, 61% 1993, 52% avg. Potatoes 60% harvested, 63% 1993, 54% avg. Corn silage 65% harvested, 61% 1993, 68% avg. Grain corn 6% harvested, 0% 1993, 5% avg. Dry beans 90% harvested, 65% 1993, 65% avg. Alfalfa, third cutting, 99% completed, 89% 1993, 95% avg. Winter wheat seeding over half complete. Producers continue to wait for precipitation prior to planting. Apple picking was active in the central growing areas. Red Delicious apple harvest was nearing the half way point in Chelan county. Grape harvest was active in Benton, Yakima counties. Cattle were being moved off of mountain pastures due to poor forage conditions.

**WEST VIRGINIA:** Temperature 60°. Extremes 35°; 85°. Precipitation 0.16 in.

Days suitable for fieldwork 5.7. Soil moisture 28% short, 72% adequate. Hay 21% fair, 69% good, 10% excellent; second cutting 90%, 100% 1993, 93% avg.; third cutting 80%, 90% 1993, 78% avg. Apples 90% fair, 10% good. Corn 24% fair, 73% good, 3% excellent; dough stage 95%, 100% 1993, 100% avg.; mature 65%, 100% 1993, 76% avg.; harvested 30%, 50% 1993, 35% avg. Tobacco 73% fair, 27% good; harvested 81%, 90% 1993, 91% avg. Soybeans 15% fair, 85% good; dropping leaves 56%, 61% 1993. Wheat sown 8%, 10% 1993, 9% avg. Barley sown 18%, 30% 1993. Pastures 16% fair, 75% good, 9% excellent; 90% of normal. Cattle 2% fair, 86% good, 12% excellent. Sheep 90% good, 10% excellent. Farm activities: Cutting hay, sowing barley, wheat, harvesting tobacco, corn, silage, apples, clipping pastures, selling yearlings, equipment maintenance.

**WISCONSIN:** Temperature 52°, 2° below normal. Extremes 25°; 81°. Precipitation 0.10 to 1.30 in.

Days suitable for fieldwork 3.6. Soil moisture 3% short, 43% adequate, 54% surplus. Pasture feed 84%, 84% 1993, 79% avg. General condition of crops: 84% good, 16% excellent. Corn mature 73%, 30% 1993, 53% avg. Corn harvested for grain 5%, 2% 1993, 6% avg. Corn silage harvested 45%, 14% 1993, 37% avg. Corn 64% good, 36% excellent. Soybean 1% poor, 2% fair, 76% good, 21% excellent. Soybeans leaves turned 91%, 79% 1993, N/A avg. Soybean leaves shedding 66%, 41% 1993, 58% avg. Soybeans harvested 4%, N/A 1993, N/A avg. Third cutting hay harvested 75%, 68% 1993, 72% avg. Fall tillage 9%, 9% 1993, 11% avg. Cool, damp weather slowed fieldwork for most of the State. Persistent rains and cloudy conditions left fields in soggy conditions. Harvesting of crops was very difficult to accomplish without getting stuck. Warm weather is needed to dry down the fields, corn. Some of the northern parts of the State had frost during the past week. Wet conditions is slowing harvest of corn for silage. High moisture corn is being harvested in several areas. Many farmers mentioned that a frost would be helpful to dry down the corn so it can be harvested for grain. Soybean harvest is slow, lodging has been reported as a problem. Hay harvesting has come to a standstill. If the ground doesn't dry out, the remaining crop will be left in the field. Kidney beans are in need of a few weeks of good harvesting conditions so growers can get the crop off before mold, sprouting problems claim the crop.

**WYOMING:** Temperatures above normal across State. Cheyenne, Lander were the hot spots averaging 9° above normal. Precipitation was below normal for the entire State.

Days suitable for fieldwork 5.9. Topsoil 53% short, 41% adequate, 6% surplus. Sugarbeets 9% harvested, 13% 1993, 20% avg. Dry beans 85% combined, 54% 1993, 71% avg. Corn 24% harvested, 20% 1993, 14% avg. Corn silage 97% harvested, 87% 1993, 84% avg. Third cutting of Alfalfa 92% complete, 100% 1993, 100% avg. Winter wheat seedings for 1995 99% planted, 96% 1993, 94% avg.; 77% emerged, 66% 1993, 63% avg. Sugarbeet 22% fair, 78% good. Corn 10% fair, 50% good, 40% excellent. Dry bean 100% good. Cattle 15% fair, 85% good. Calf 17% fair, 83% good. Sheep 16% fair, 84% good. Lamb 22% fair, 78% good. Cattle, calves moved from summer 64%, 47% 1993. Sheep, lambs moved from pastures, ranges 62%, 49% 1993. Livestock feed now obtained from pastures, ranges 86%.

**September 1994**  
**MONTHLY DATA FROM SELECTED FOREIGN CITIES**  
**CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA**  
 \*\*\* = DATA NOT AVAILABLE

**International Weather and Crop Summary**  
**HIGHLIGHTS**

**September 25 - October 1, 1994**

**FSU-WESTERN:** Favorable weather helped corn, sunflower, and sugarbeet harvesting. Moisture remained limited for winter wheat emergence in southern areas.

**FSU-NEW LANDS:** Unseasonable warm, dry weather favored rapid spring wheat harvesting.

**EUROPE:** Favorable autumn weather helped late summer crop harvesting and winter grain planting.

**SOUTH ASIA:** The monsoon continued its seasonal withdrawal, with the resulting dryness benefiting maturing summer crops.

**SOUTHEAST ASIA:** Rain over Indochina benefited secondary crops but slowed primary harvests.

**EASTERN ASIA:** Dry weather continued to favor summer crop harvesting across the North China Plain. Typhoon Orchid hit central Japan, slowing rice harvesting but increasing reservoirs.

**AUSTRALIA:** Variable showers helped reproductive wheat across the west and south, as the drought continued in the east.

**SOUTH AMERICA:** Rain boosted soil moisture for summer crop planting across most of southern Brazil and favored reproductive wheat in Argentina.

**MEXICO:** Drier weather aided early maturing summer crops, but additional rain is needed for immature crops.

**CANADA:** Prairie grain and oilseed harvesting made rapid progress.

**CUBA:** Heavy rains (100-300 mm) fell across portions of western Cuba, causing flooding and interrupting fieldwork.

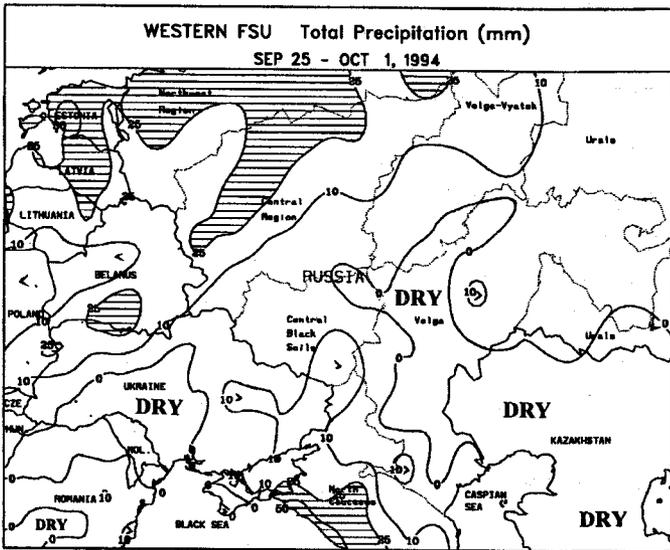
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG	AVG	HI	LO	DPART	TOTAL	DPART	
		MAX	MIN	MAX	MIN	AVG			F/NRM
NORWAY	OSLO	13	5	21	-3	9	0.0	70	-28
SWEDEN	STOCKHOLM	15	9	19	3	12	0.5	147	94
FINLAND	HELSINKI	15	8	19	0	11	1.2	140	66
U KING	GLASGOW	15	7	21	1	11	-1.6	49	-49
	EDINBURGH	16	8	21	3	12	-0.5	39	-28
	BIRMINGHAM	16	9	21	5	13	-0.7	119	64
	LONDON	17	10	21	5	14	-0.2	118	51
IRELAND	DUBLIN	15	9	20	5	12	-1.4	93	26
ICELAND	REYKJAVIK	10	5	14	-1	7	-0.1	56	-11
DENMRK	COPENHAGEN	16	11	19	5	14	-0.4	138	76
LUXEMB	LUXEMBOURG	17	10	23	5	13	-0.6	104	37
SWITZL	ZURICH	17	11	24	4	14	0.1	99	5
	GENEVA	19	12	28	4	15	0.4	213	131
FRANCE	PARIS/ORLY	19	11	25	4	15	***	86	**
	STRASBOURG	20	12	25	7	16	0.6	76	21
	BOURGES	19	11	27	3	15	-0.6	130	69
	BORDEAUX	21	13	31	7	17	-0.2	175	102
	TOULOUSE	22	13	33	5	18	-0.3	112	65
	MARSEILLE	24	16	29	8	20	0.2	142	95
SPAIN	VALLADOLID	22	10	33	3	16	-2.1	19	-14
	MADRID	25	12	33	5	18	-1.9	7	-27
	SEVILLE	31	17	38	12	24	-1.0	4	-17
PORTUG	LISBON	26	16	34	13	21	-0.3	0	-25
GERMNY	HAMBURG	17	11	22	6	14	0.2	92	22
	BERLIN	17	12	22	8	15	-0.1	63	18
	DUSSELDORF	18	11	23	7	15	-0.7	92	30
	LEIPZIG	18	11	23	4	14	0.4	92	47
	DRESDEN	18	12	24	6	15	0.6	60	12
	STUTTGART	19	11	24	3	15	0.3	101	41
	NURNBERG	19	11	25	3	15	0.8	47	-4
AUSTRI	VIENNA	23	13	29	8	18	2.4	55	3
	INNSBRUCK	21	10	28	4	16	1.3	65	-14
CZECH	PRAGUE	19	10	26	4	14	1.0	51	10
POLAND	WARSAW	19	11	24	5	15	1.6	62	21
	LODZ	19	11	25	5	15	1.8	36	-17
	KATOWICE	20	10	28	2	15	2.2	93	41
	PRZEMYSL	21	12	29	6	17	3.1	93	38
HUNGAR	BUDAPEST	25	14	31	6	19	3.0	27	-13
F YUGO	BELGRADE	28	17	36	11	23	5.1	30	-20
ROMANI	BUCHAREST	30	14	36	9	22	4.4	7	-31
BULGAR	SOFTA	29	14	36	10	22	5.2	11	-34
ITALY	MILAN	24	15	29	7	19	0.5	230	163
	VERONA	24	15	28	7	19	0.5	156	94
	VENICE	24	16	28	8	20	1.2	84	18
	GENOA	23	18	28	12	21	-1.2	186	71
	ROME	27	18	31	10	23	1.6	25	-46
	NAPLES	28	19	33	11	23	2.6	54	-31
GREECE	THESSALONIKA	31	18	34	13	25	2.8	0	-26
	LARISSA	33	16	37	13	24	2.3	0	-32
	ATHENS	32	22	36	18	27	2.5	0	-13
TURKEY	ISTANBUL	29	20	31	19	25	5.1	0	-41
	ANKARA	30	11	35	5	21	2.7	5	-32
CYPRUS	LARNACA	32	22	40	20	27	2.1	0	-5
ESTONI	TALLINN	15	9	20	2	12	1.2	68	-14
FSU	ST. PETERSBURG	16	10	21	5	13	1.9	156	91
LITHUA	KALNAS	18	11	27	5	15	2.5	51	-6
FSU	MINSK	19	11	27	5	15	3.2	71	15
	KAZAN	18	9	26	1	13	2.2	7	-38
	MOSCOW	19	10	27	2	14	3.1	45	-16
	YEKATERINBURG	16	7	26	0	11	1.9	33	-17
	OMSK	15	6	22	-1	11	0.0	33	2
	KUSTANAY	20	7	28	-2	14	1.6	10	-17
	KRASNOYARSK	**	**	22	1	**	***	35	-6
	NOVOSIBIRSK	14	6	23	1	10	-0.1	48	15
	BARNAUL	15	6	24	-1	11	-0.4	79	50
	KHABAROVSK	20	11	30	6	15	1.9	50	-40
	VLADIVOSTOK	20	14	30	9	17	1.8	354	224
	KIEV	23	13	29	7	18	4.4	18	-28
	LNOV	22	12	29	6	17	3.5	45	-10
	KIROVOGRAD	26	13	32	7	19	5.3	0	-36

Based on Preliminary Reports

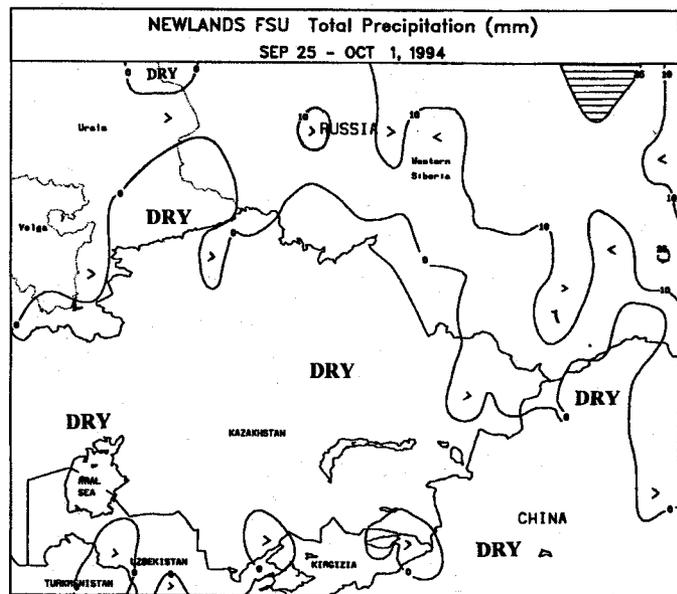
September 1994

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		AVG	AVG	HI	LO	DEPART	AVG	F/NRM	TOTAL			DEPART	F/NRM	AVG	AVG	HI	LO	DEPART	AVG	F/NRM	TOTAL	DEPART	F/NRM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
FSU	ODESSA	24	17	27	13	21	3.8	0	-36	KENYA	NAIROBI	26	12	29	7	19	0.5	0	-25	TANZAN	DAR ES SALAAM	31	19	32	18	25	0.8	9	-20	GABON	LIBREVILLE	28	23	30	22	26	0.2	61	-45	TOGO	LOME	29	24	31	23	26	1.0	11	-37	B FASO	OUAGADOUGOU	32	23	35	21	27	0.4	126	-13	IVRY C	ABIDJAN	29	23	30	22	26	1.4	8	-57	MOZAMB	MAPUTO	27	17	38	11	22	1.4	11	-31	ZAMBIA	LUSAKA	29	13	36	10	22	-0.7	4	3	ZIMBAB	HARARE	27	13	34	7	20	1.4	0	-9	S AFRI	PRETORIA	27	12	33	6	20	1.1	0	-21	JOHANNESBURG	25	8	30	3	17	0.6	4	-23	BETHAL	23	6	29	-2	**	***	18	-6	DURBAN	24	16	30	10	20	0.4	15	-58	CAPE TOWN	20	10	27	2	15	1.2	38	-1	CANADA	TORONTO	22	10	30	6	16	0.7	51	-23	MONTREAL	20	10	24	4	15	0.4	68	-19	WINNIPEG	21	7	30	1	14	1.9	120	69	REGINA	22	7	31	0	15	3.2	16	-18	SASKATOON	22	5	31	0	14	2.4	1	-31	LETHBRIDGE	25	5	32	-3	15	2.5	1	-44	CALGARY	21	5	29	-2	13	2.5	11	-37	EDMONTON	20	7	29	0	14	2.4	**	**	VANCOUVER	20	12	23	10	16	1.4	65	1	MEXICO	GUADALAJARA	27	16	29	12	21	0.6	150	-10	MEXICO CITY	23	12	26	9	17	1.1	104	-13	ACAPULCO	34	25	35	21	29	1.7	69	-307	BERMUD	ST. GEORGES	31	26	33	23	28	1.6	149	-13	BAHAMA	NASSAU	32	24	33	21	28	0.6	74	-93	CUBA	HAVANA	**	**	33	22	**	***	**	**	JAMAIC	KINGSTON	33	26	34	24	30	1.5	15	-100	P RICO	SAN JUAN	32	25	34	23	28	0.4	133	-2	GUADEL	RAIZET	31	24	33	22	27	0.4	98	-49	MARINQ	LAMENTIN	30	24	32	20	27	0.4	140	-75	BARBAD	BRIDGETOWN	30	25	32	22	27	-0.1	149	13	TRINID	PORT OF SPAIN	32	23	33	21	27	0.9	109	-94	COLOMB	BOGOTA	19	7	23	2	13	-0.1	21	-37	VENEZU	CARACAS	32	24	34	17	28	0.3	30	-17	F GUIA	CAYENNE	31	22	32	21	27	0.5	34	-41	BRAZIL	FORTALEZA	**	**	30	22	**	***	9	-17	RECIFE	**	22	28	20	**	***	119	6	BELO HORIZONTE	28	17	33	15	23	1.4	3	-38	CAMPO GRANDE	32	19	37	12	26	3.1	27	-59	FRANCA	31	18	34	14	24	5.2	1	-71	LONDRINA	**	16	36	11	**	***	27	-73	SANTA MARIA	24	13	37	2	19	2.6	100	-54	PORTO ALEGRE	25	13	38	6	19	2.2	34	-90	PERU	LIMA	21	16	23	15	18	1.5	1	0	BOLIVI	LA PAZ	16	0	19	-4	8	-0.5	23	-8	CHILE	SANTIAGO	20	7	30	0	13	2.3	7	-13	ARGENT	IGUAZU	27	16	37	6	21	***	216	**	FORMOSA	29	17	39	4	23	3.4	50	-43	CERES	25	12	39	1	18	1.9	5	-42	CORDOBA	24	10	40	0	17	2.1	6	-33	RIO CUARTO	21	10	32	0	15	1.8	35	-7	ROSARIO	22	10	37	-1	16	2.3	3	-59	BUENOS AIRES	19	10	28	0	14	1.4	56	-4	SANTA ROSA	21	7	26	-4	14	1.7	0	-39	TRES ARROYOS	18	7	23	0	12	1.5	18	-36	N CALD	NOUMEA	24	17	27	14	20	-0.5	4	-35	FIJI	NAUSORI	24	19	27	15	22	-1.2	101	-62	SAMOA	PAGO PAGO	29	25	30	21	27	0.2	295	132	TAHITI	PAPEETE	29	22	31	19	26	1.0	86	40	PA N G	PORT MORESBY	29	22	32	18	25	-1.4	0	-37	AUSTRL	DARWIN	31	23	33	21	27	-1.2	0	-18	MORE	23	6	28	2	15	-1.0	3	-30	BRISBANE	24	10	32	3	17	-1.5	28	-5	PERIH	20	11	30	5	15	0.9	57	-14	CEDUNA	20	6	31	0	13	-1.6	8	-20	ADELAIDE	16	8	25	5	12	-1.1	20	-36	MELBOURNE	15	5	21	0	10	-2.1	30	-18	WAGGA	17	3	27	-1	10	-1.1	16	-34	CANBERRA	16	2	23	-1	9	-0.5	3	-53	INDONE	DJAKARTA	**	**	35	19	**	***	**	**	PHILIP	MANILA	32	27	34	25	29	1.7	264	-79

Based on Preliminary Reports

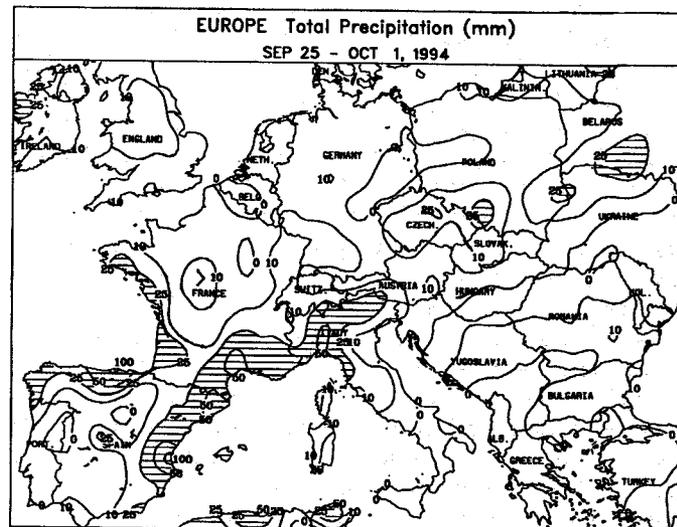


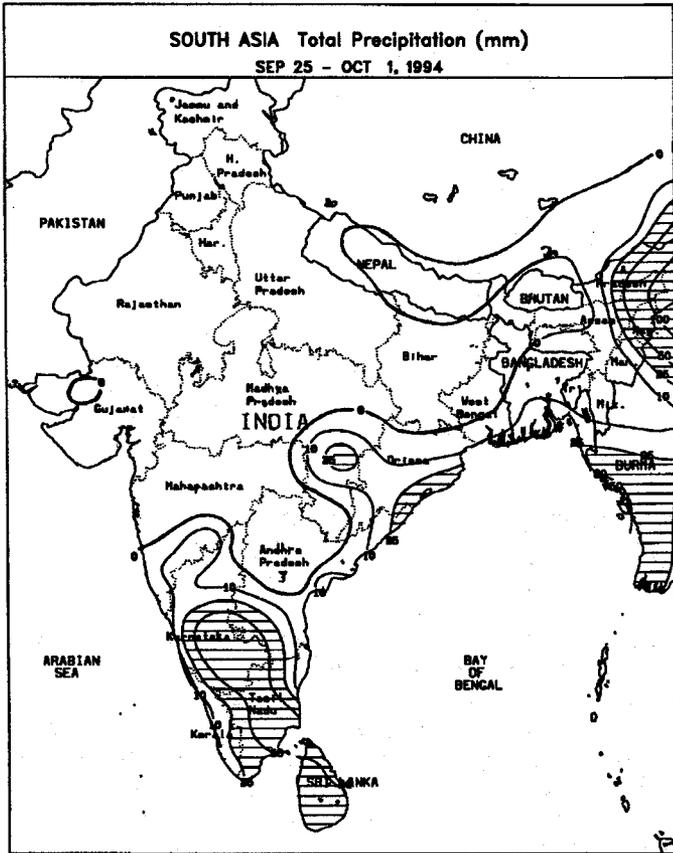
**FSU-WESTERN:** Scattered showers (4-25 mm, with local amounts in excess of 25 mm) fell early in the week over the eastern Ukraine and southern Russia (North Caucasus and lower Volga Valley), bringing only minor relief from drought. In most areas, rainfall was not enough to bring topsoil moisture to sufficient levels for winter wheat planting. While the optimum time for planting in these areas has passed, planting can occur as late as mid-October. For most years, planting after mid-October reduces the likelihood that winter wheat will become well established prior to entering dormancy, making the crop more susceptible to potential winterkill. Elsewhere, a drying trend continued over Moldova and southwestern Ukraine, where rain is needed for winter grain establishment. The dryness benefited corn, sunflower, and sugarbeet harvesting. Light to moderate showers (10-35 mm) over the Baltic States and Belarus kept soils favorably moist for winter grain establishment. Weekly average temperatures were 3-7 degrees Celsius (C) above normal over the region. While the mild weather over northern Russia spurred further vegetative growth in winter grains that were planted in August, cooler weather is needed so that crops can begin cold hardening prior to dormancy.



**FSU-NEW LANDS:** Unseasonably warm, dry weather over Russia (Urals and Siberia) and Kazakhstan favored rapid spring grain harvesting. The warm, dry weather was especially welcomed in northern Kazakhstan and Western Siberia in Russia, where previous wetness caused significant harvest delays. Weekly average temperatures were 3-7 degrees Celsius (C) above-normal over the region. In the Russian Federation, reports as of September 26 indicated spring grain harvesting, excluding corn, continued to progress slowly, reaching 77 percent completion. In cotton-growing areas of Central Asia, unseasonably warm, dry weather favored boll maturation and harvesting. The bulk of the cotton crop is usually harvested in October.

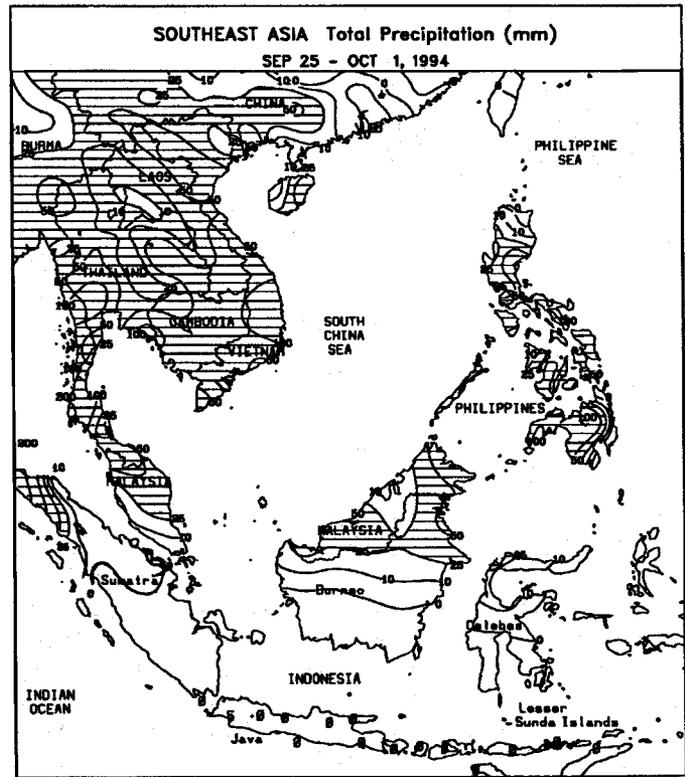
**EUROPE:** Mostly dry weather across northern Europe helped late harvesting and promoted winter crop planting. Corn harvesting advanced in northern France, with only light, scattered rain (1-9 mm) causing few delays. The corn harvest also advanced rapidly in eastern Europe, from Hungary to Bulgaria, with only isolated light showers (mostly 5 mm or less). Winter grain and oilseed planting progressed with favorable weather in most areas. Persistent showers (25-50 mm or more) were confined mostly to the western Mediterranean, from northern Italy to eastern Spain, and to the Bay of Biscay from extreme northern Spain to southwestern France. Corn and sunflowerseed harvests were hampered by wetness in these areas. Beneficial showers (10-30 mm) moistened topsoils for winter crop establishment in southern Poland, the Czech and Slovak Republics, and southern Germany. Temperatures averaged 3-8 degrees Celsius (C) above normal in the east and 1-2 degrees Celsius below normal in Spain.



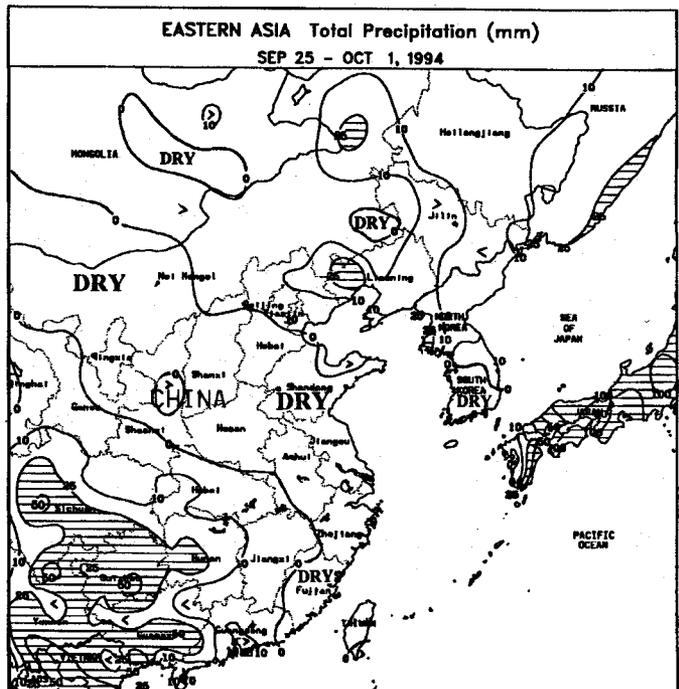


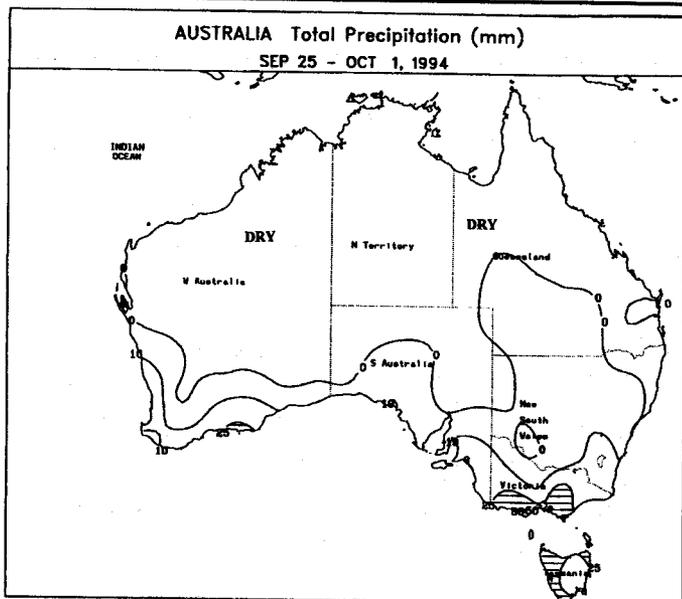
**SOUTH ASIA:** The monsoon continued its seasonal withdrawal. As a result, dry weather dominated the major summer crop areas, benefiting maturing grains, oilseeds, and cotton. Temperatures averaged near to slightly below normal over central and northern India and Pakistan, and about 1 degree C above normal in far eastern rice areas. In southern India, highly variable showers (10-105 mm) benefited autumn-planted (rabi) crops.

**EASTERN ASIA:** Dry weather again prevailed across the North China Plain, favoring early summer crop harvesting. However, rain is needed for winter wheat planting, which usually takes place from mid-September through most of October. Light showers (less than 10 mm) and mild weather (temperatures 2-4 degrees C above normal) favored filling summer crops across Manchuria. The first autumn frost typically occurs from late September to early October across northern and central Manchuria. Moderate showers (20-50 mm) fell across Sichuan and southwestern China, slowing summer crop harvesting and increasing soil moisture for winter grains. Elsewhere in southern China, mostly dry weather aided summer crop harvesting. Temperatures averaged 2-3 degrees C above normal across the North China Plain and 2-3 degrees C below normal across southwestern China. Mostly dry weather favored rice harvesting across South Korea. Typhoon Orchid hit south-central Japan (near Osaka) on September 29, with sustained winds of 75-85 knots (90-100 mph), producing moderate to heavy rains (80-175 mm). While the winds and rains may have caused local crop damage and slowed rice harvesting, the moisture was needed to replenish reservoirs after this summer's hot, dry weather. Remnants of Orchid then moved across Hokkaido, bringing widespread showers (50-120 mm) and slowing harvesting.

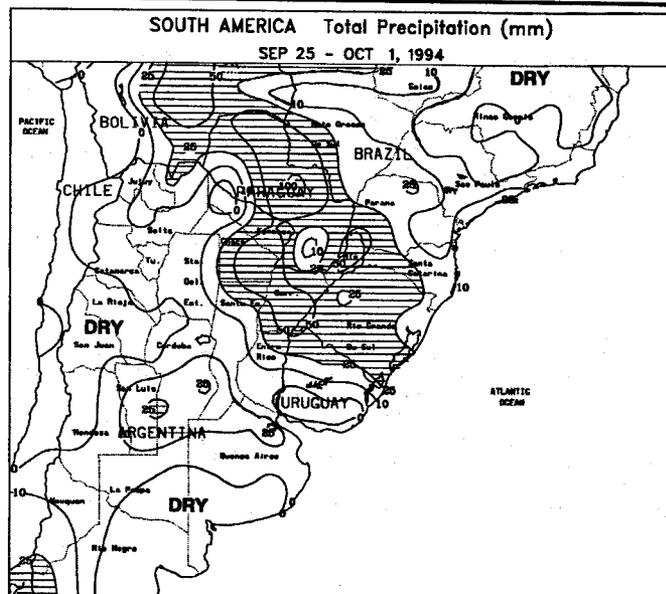


**SOUTHEAST ASIA:** Widespread, locally heavy showers (25-100 mm or more) covered Indochina, boosting moisture for sugarcane and secondary grains but slowing main-season harvesting. Heavy rain (63-141 mm) along Vietnam's coast was unfavorable for maturing rice. In the south, heavy rain (50-100 mm or more, with some amounts exceeding 200 mm) covered peninsular Thailand, but drier weather dominated western Malaysia's rice and oil palm areas, with many area receiving less than 25 mm. Drought continued over Indonesia. In the Philippines, heavy showers (100 mm or more) fell throughout a broad area from central Luzon to Mindanao, boosting moisture for sugarcane and secondary grains but likely resulting in some flooding.

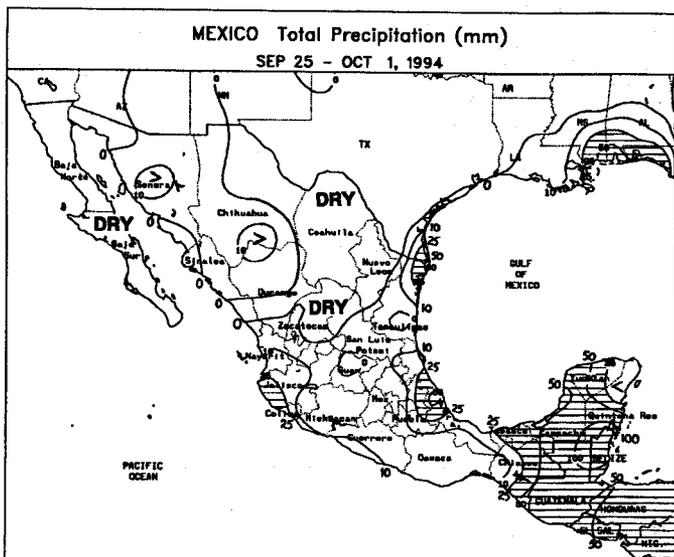




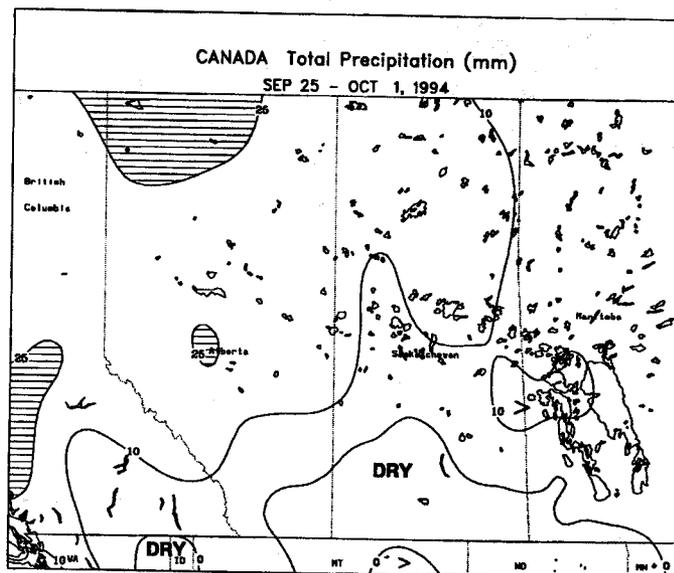
**AUSTRALIA:** Light rain (5-15 mm) fell across the wheat regions of South Australia, Victoria, and central and southern New South Wales, bringing some relief to reproductive winter wheat. However, additional rain is needed across these areas to stabilize wheat yields, especially in New South Wales. Only very light rain (less than 5 mm) fell across southern Queensland, which brought no relief to drought-stricken winter grains. Showers (5-15 mm) also benefited winter grains across Western Australia. Temperatures averaged 2-4 degrees below normal across the eastern wheat areas, slowing crop development.



**SOUTH AMERICA:** In southern Brazil, light to moderate showers (15-50 mm) fell across most major summer crop areas, boosting soil moisture for planting. The rains were especially beneficial in Mato Grosso, Goias, and Mato Grosso do Sul, where the rainy season has been slow to start. However, mostly dry, warm weather still prevailed across Sao Paulo and southern Minas Gerais, where rain is needed for coffee flowering. In Argentina, light to moderate rain (5-25 mm) fell across southern Cordoba, southern Santa Fe, and northern Buenos Aires, favoring reproductive wheat. Across northern Argentina, moderate showers (20-50 mm, with an isolated amount greater than 100 mm) boosted soil moisture for cotton planting. Temperatures averaged near to slightly below normal across most crop areas of Argentina and 2-4 degrees C above normal across southern Brazil.



**MEXICO:** Mostly light showers (less than 10 mm) prevailed across the Southern Plateau corn belt. Early summer crops were beginning to mature. However, additional rain is needed for immature crops. Widespread rain (40-100 mm) covered the Yucatan Peninsula, favoring vegetative corn. Moderate showers (15-60 mm) favored citrus and sugarcane across east-central Mexico (southern Tamaulipas and northern Veracruz).



**CANADA:** Dry, warm weather dominated the Prairies, favoring rapid grain and oilseed harvesting. Lowest minimum temperatures at most locations hovered near freezing as most crop areas continued to escape a hard freeze. However, harvesting is virtually complete, and a hard freeze at this point should have no major impact. In the east, light to moderate showers (25-46 mm) covered crop areas of Ontario and Quebec, slowing corn and soybean harvests but benefiting newly planted winter wheat.

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.

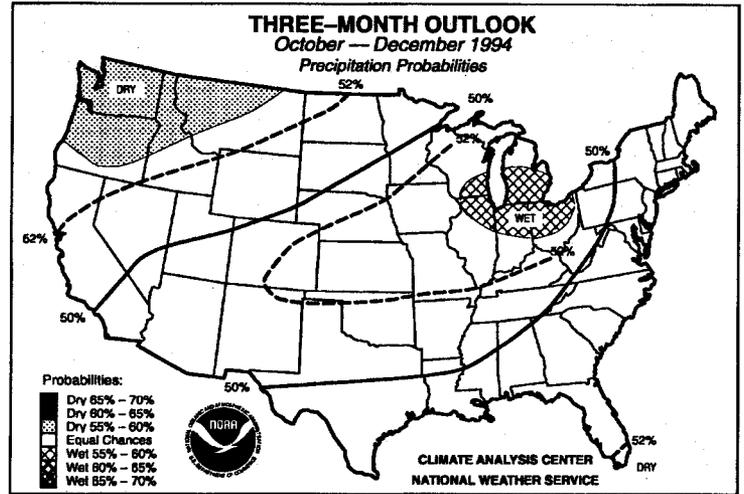
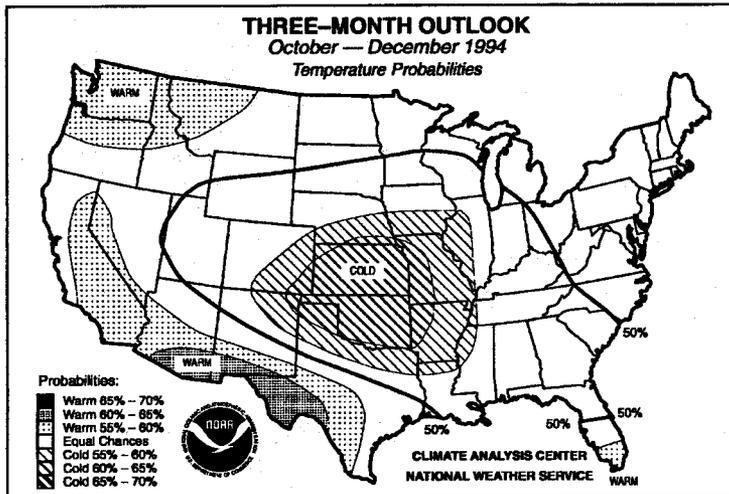
**U.S. DEPARTMENT OF COMMERCE**

National Oceanic and Atmospheric Administration  
National Weather Service/Climate Analysis Center  
Managing Editor (acting) . . . *David Miskus* (202) 720-7919  
Editor . . . . . *Brad Rippey* (202) 720-1444  
Meteorologists: *David Secora, Jeff Savadel, Jeff Linhardt*

Subscriptions . . . . . *Joyce Houston* (202) 720-7917

**U.S. DEPARTMENT OF AGRICULTURE**

Economics Management Staff  
E.M.S. Editor . . . . . *Sharon Lee*  
National Agricultural Statistics Service  
Agricultural Statistician . . . *Greg Preston* (202) 720-7621  
State Summaries Editor . . . *Klara Haskins* (202) 720-8033  
World Agricultural Outlook Board  
Agricultural Weather Analysts: *Ray Motha* (202) 720-9805  
*Tom Puterbaugh, Mark Brusberg, Bob Stefanski*



**WEEKLY NEWS BULLETIN  
FIRST CLASS**

NOAA/USDA Joint Agricultural  
Weather Facility  
USDA South Building, Room 5844  
Washington, DC 20250

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

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300