

# WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration,  
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE  
National Agricultural Statistics Service and  
World Agricultural Outlook Board

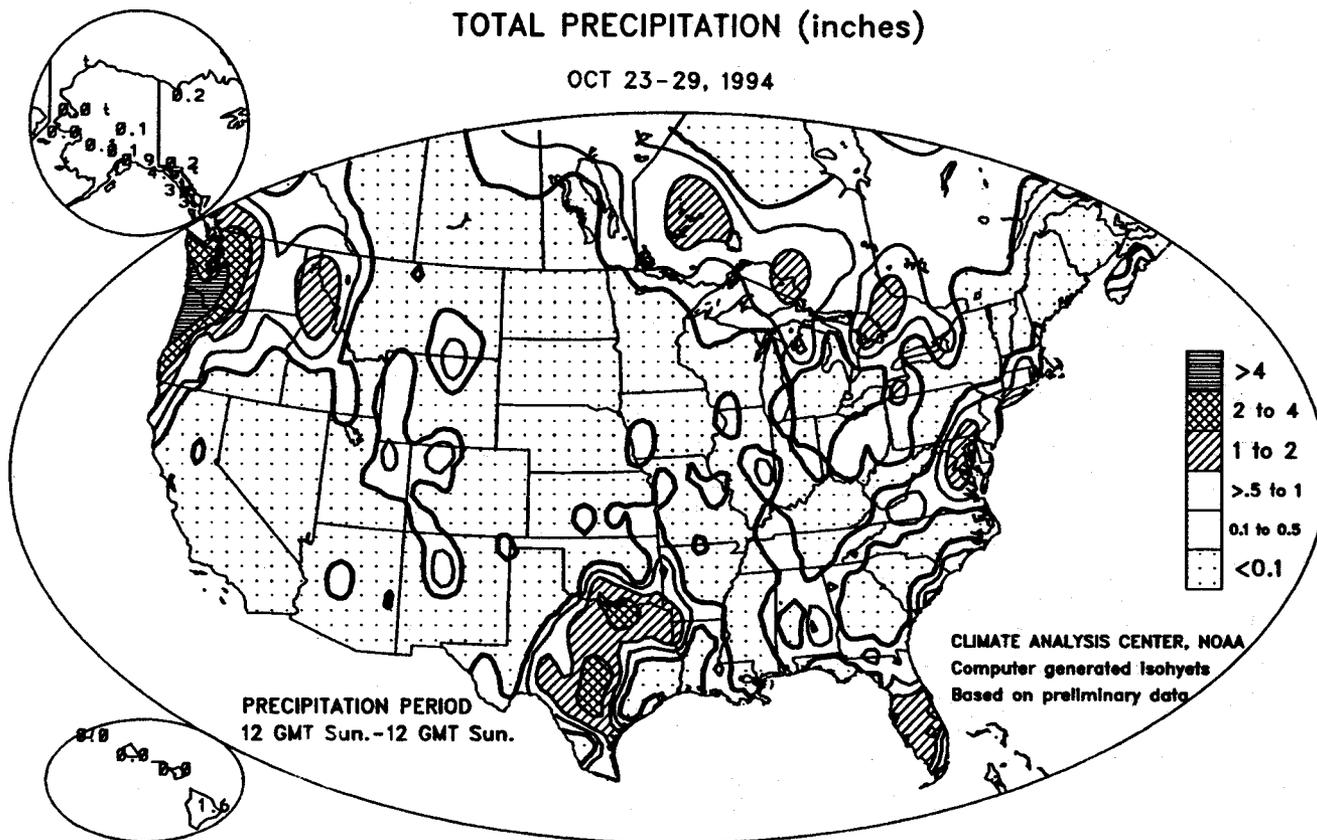
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November 1, 1994

## TOTAL PRECIPITATION (inches)

OCT 23-29, 1994



## HIGHLIGHTS

October 23 - 29, 1994

A powerful midweek surge of Pacific energy lashed the coastal Northwest and the northern Cascades with hurricane-force wind gusts and heavy precipitation. Much-needed showers dampened winter wheat areas of the interior Northwest. In central and northeastern Texas, heavy rain caused localized flooding, but spared previously hard-hit areas farther to the southeast. To the north, sub-freezing morning temperatures spread eastward from the northern and central Plains, across the Corn Belt, and into the Ohio Valley between Monday and Thursday, ending the growing season. In many locations, the date of the first freeze was 10 days or more later than normal.

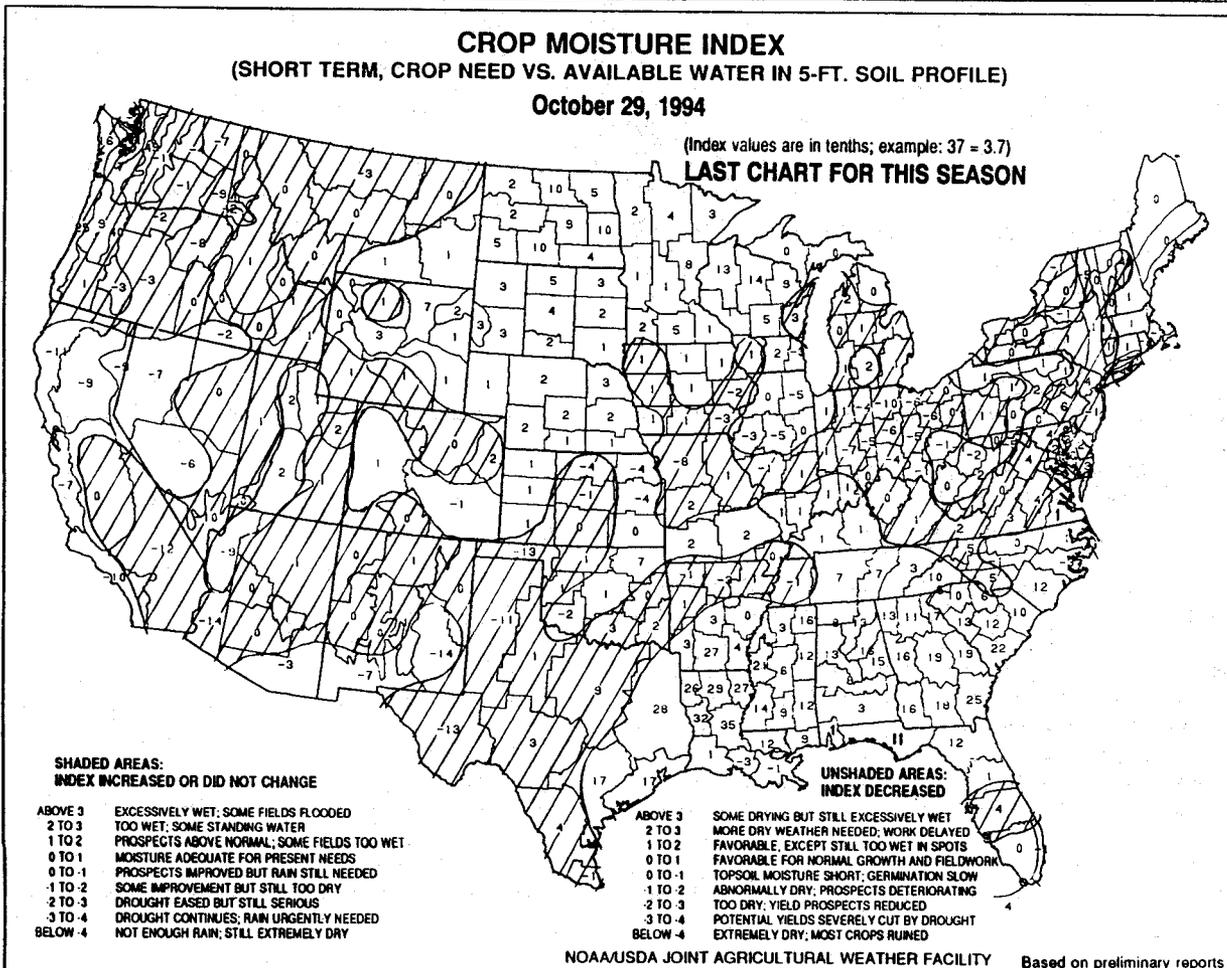
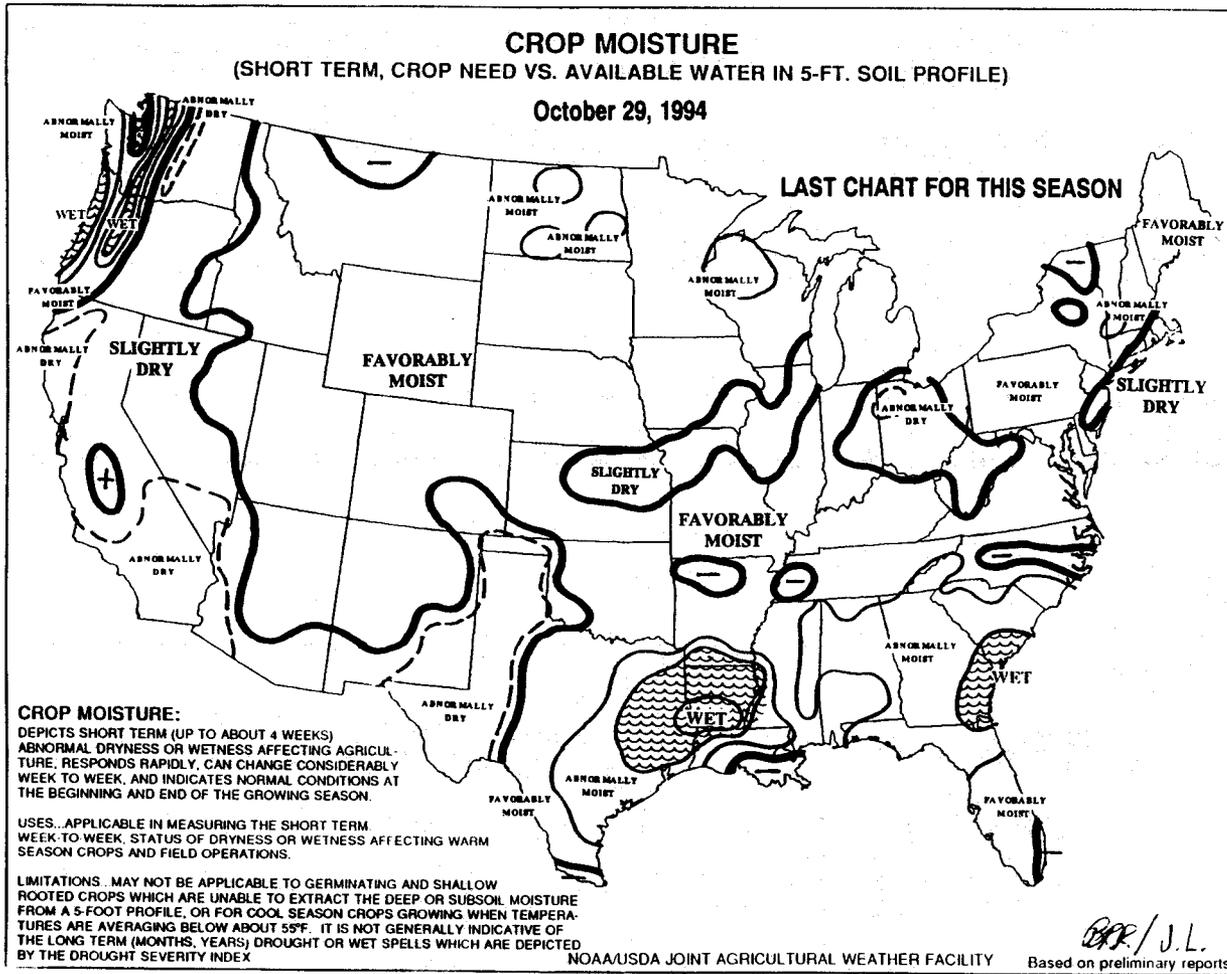
In fact, when the mercury dipped to 32°F on October 24 in Fargo, ND, it marked their latest first freeze, previously set on October 11, 1911. The cool

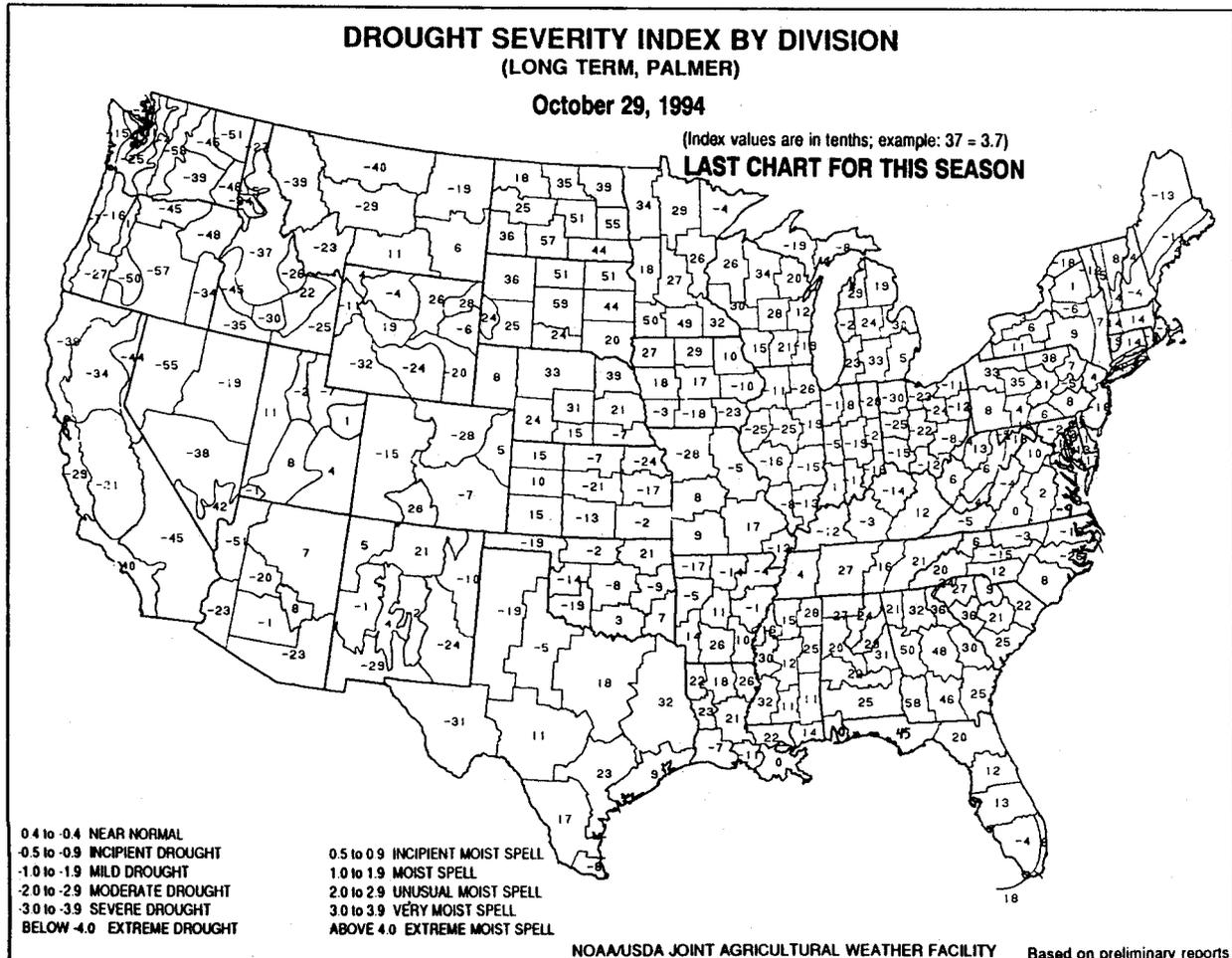
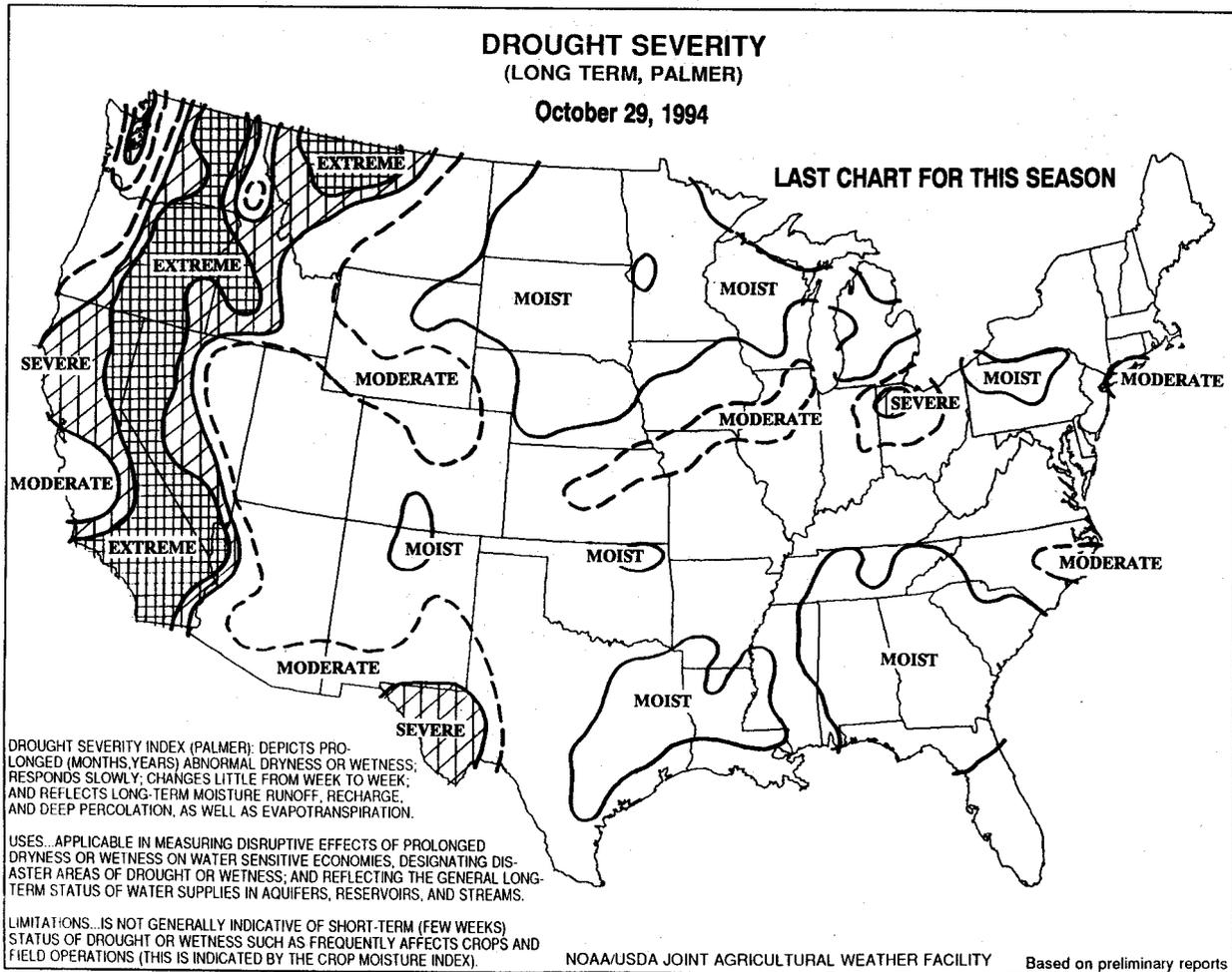
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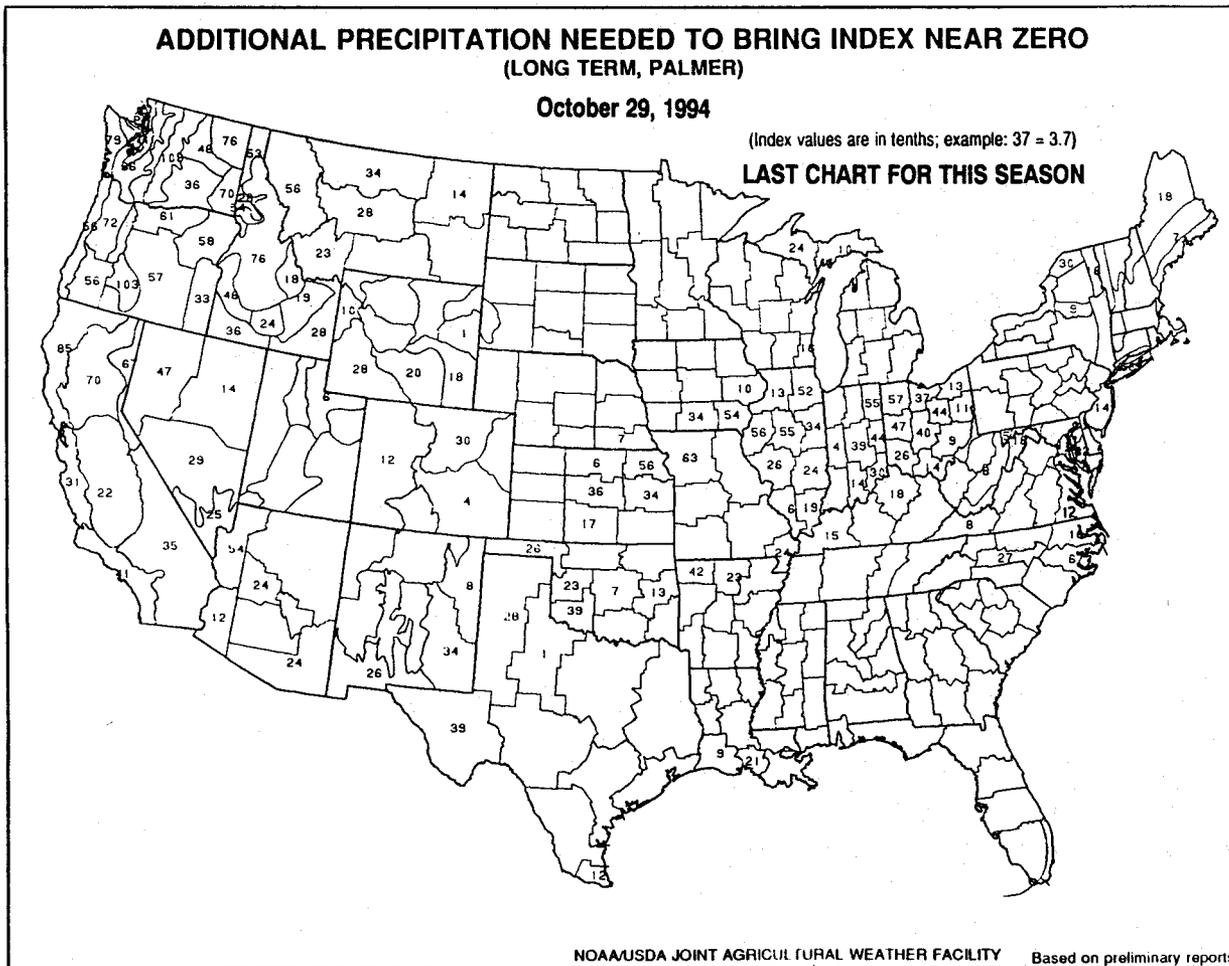
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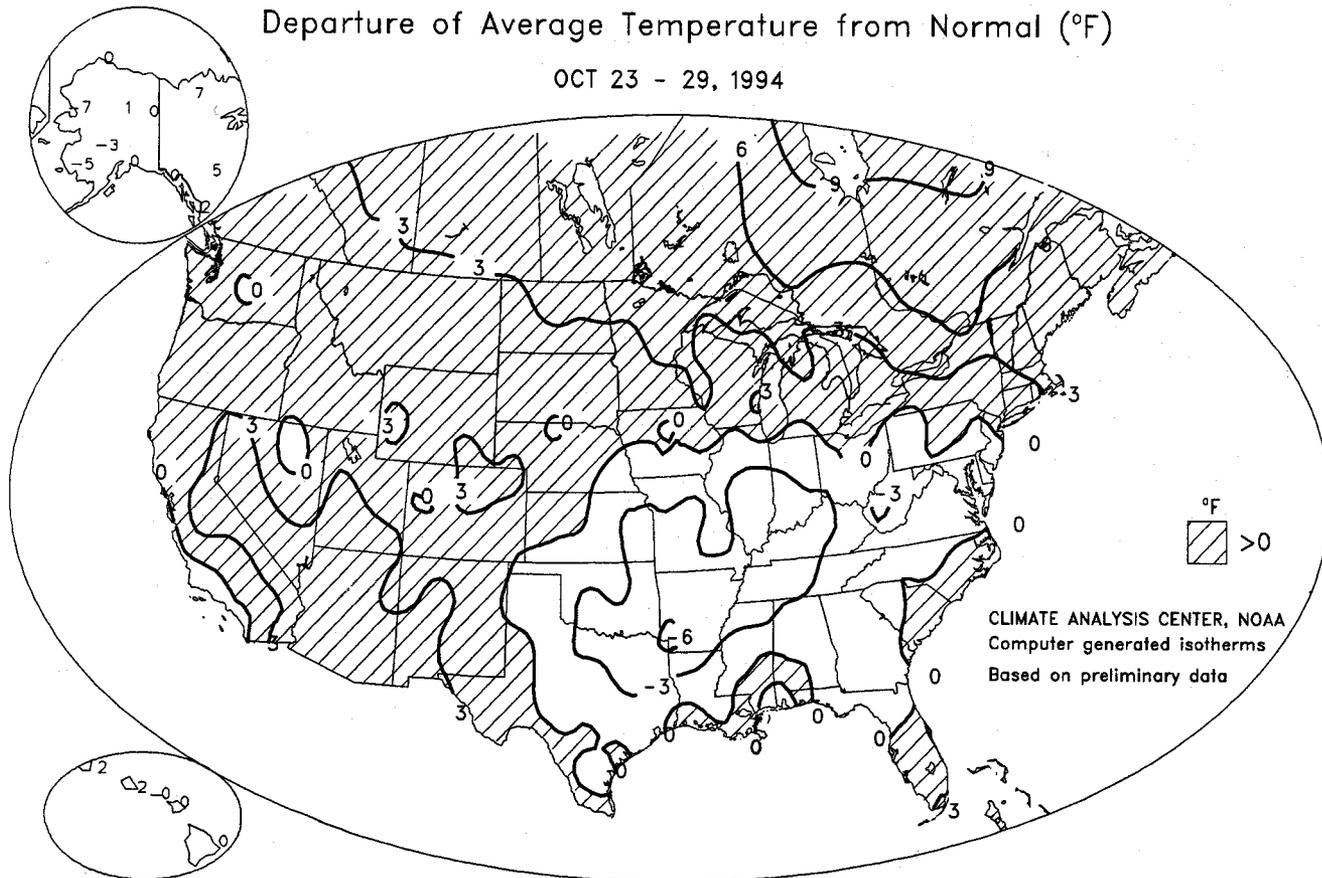






Departure of Average Temperature from Normal (°F)

OCT 23 - 29, 1994



# National Weather Data for Selected Cities

Weather Data for the Week Ending **October 29, 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	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	71	45	77	35	58	.1	0	0	10.8	165	53.1	118	94	46	0	0	0	0	0	0	
MOBILE	75	52	82	42	63	.2	0	0	7.9	90	47.9	88	90	44	0	0	0	1	1	0	
MONTGOMERY	74	49	81	42	61	.2	0	0	10.4	167	50.8	111	90	42	0	0	0	1	1	0	
AK ANCHORAGE	34	24	36	13	29	.3	0	0	2.9	62	9.1	67	80	73	0	0	0	2	2	0	
BARROW	12	4	17	-6	8	.1	0	0	1.8	76	4.0	102	90	85	0	0	7	7	0	0	
FAIRBANKS	22	2	32	-6	12	.1	0	0	1.4	80	7.6	82	91	79	0	0	7	7	1	0	
JUNEAU	44	38	48	36	41	1.5	0	0	16.3	116	42.8	96	88	79	0	0	0	6	3	1	
KODIAK	40	30	45	22	35	1.9	0	0	19.5	142	73.4	135	98	60	0	0	0	3	3	2	
ROME	25	9	29	4	17	.4	0	0	2.9	77	14.5	112	78	60	0	0	7	7	0	0	
AZ PHOENIX	87	62	88	60	74	.0	0	0	2.3	155	5.1	84	56	22	0	0	0	0	0	0	
PRESCOTT	72	41	75	39	57	.0	0	0	2.2	73	11.0	67	69	30	0	0	0	0	0	0	
TUCSON	87	57	91	54	72	.0	0	0	2.2	83	6.1	60	69	16	1	1	0	0	0	0	
YUMA	86	64	92	60	76	.0	0	0	1.4	257	2.1	87	50	21	2	2	0	0	0	0	
AR FORT SMITH	69	40	77	30	54	.0	0	0	3.2	49	42.3	126	88	33	0	0	2	2	0	0	
LITTLE ROCK	67	46	74	38	56	.3	0	0	4.7	58	45.3	114	78	37	0	0	0	0	0	0	
CA BAKERSFIELD	78	51	86	48	64	.0	0	0	.1	21	4.3	99	61	29	0	0	0	0	0	0	
FRESNO	62	47	69	40	55	.4	0	0	.7	20	20.1	81	92	41	0	0	2	2	0	0	
LOS ANGELES	75	58	72	55	64	-1	0	0	1.0	137	7.3	95	83	29	0	0	0	0	0	0	
REDDING	70	48	81	41	61	.2	0	0	.1	22	6.4	75	94	47	0	0	0	0	0	0	
SACRAMENTO	75	50	79	44	63	.2	0	0	.2	8	15.2	68	74	28	0	0	0	0	0	0	
SAN DIEGO	70	60	75	57	65	-1	0	0	.0	0	6.7	55	91	35	0	0	0	0	0	0	
SAN FRANCISCO	67	52	72	49	59	.0	0	0	.2	2	8.2	120	88	46	0	0	0	0	0	0	
CO DENVER	68	34	80	27	51	.3	0	0	.5	35	11.1	82	91	41	0	0	0	0	0	0	
GRAND JUNCTION	66	37	69	32	51	-1	0	0	1.9	86	9.3	67	88	27	0	4	0	0	0	0	
FUERO	68	33	85	24	51	.1	0	0	2.1	95	5.7	65	74	26	0	1	0	0	0	0	
CT BRIDGEPORT	62	45	66	37	54	.5	0	0	1.8	124	14.5	141	85	25	0	4	0	0	0	0	
HARTFORD	63	38	67	30	50	.2	0	0	5.5	93	34.1	100	89	46	0	0	1	1	1	1	
DC WASHINGTON	65	46	70	40	56	-1	0	0	6.8	95	42.9	119	94	40	0	0	1	1	1	1	
FL PANAMA CITY	75	56	80	50	66	0	0	0	4.0	65	33.7	105	89	44	0	0	2	2	1	1	
DAYTONA BEACH	80	65	86	60	73	.2	0	0	12.5	139	47.3	84	92	54	0	0	0	2	0	0	
JACKSONVILLE	77	57	85	50	67	-3	0	0	10.1	98	50.4	119	100	63	0	0	0	2	0	0	
KEY WEST	85	74	88	72	80	.1	0	0	19.4	183	59.2	134	99	63	0	0	0	2	0	0	
MIAMI	87	72	89	70	80	.3	0	0	17.4	173	39.1	113	87	67	0	0	0	2	0	0	
ORLANDO	82	66	87	64	74	1	0	0	18.6	143	61.3	120	89	55	0	0	0	2	1	1	
TALLAHASSEE	77	52	84	46	65	-1	0	0	12.4	148	56.9	131	96	60	0	0	0	5	1	0	
TAMPA	83	68	87	63	74	.2	0	0	21.5	258	82.7	146	94	48	0	0	0	0	0	0	
WEST PALM BEACH	83	68	86	66	75	-1	0	0	11.5	145	45.4	114	97	62	0	0	4	1	1	0	
GA ATLANTA	69	49	77	44	59	0	0	0	13.8	96	60.0	113	99	62	0	0	0	1	0	0	
AUGUSTA	72	46	81	37	59	-1	0	0	10.1	161	54.9	130	91	45	0	0	0	1	0	0	
MACON	71	46	80	37	59	-3	0	0	8.5	150	41.1	106	95	44	0	0	0	0	0	0	
SAVANNAH	75	55	81	47	65	0	0	0	8.4	174	54.4	145	96	45	0	0	0	1	0	0	
HI HILO	84	69	86	67	76	1	0	0	26.2	390	61.0	139	94	51	0	0	0	2	0	0	
HONOLULU	88	75	90	71	82	.3	0	0	31.0	178	138.8	136	92	65	0	0	0	5	1	1	
KAHULUI	86	70	89	65	78	1	0	0	1.1	40	13.1	87	75	51	1	0	0	0	0	0	
LIHUE	83	75	84	71	79	.2	0	0	1.1	76	10.6	71	77	54	0	0	0	0	0	0	
ID BOISE	62	37	70	26	50	.2	0	0	5.0	78	25.3	79	75	60	0	0	0	0	0	0	
LEWISTON	60	41	69	35	51	.2	0	0	.8	53	5.8	63	69	27	0	3	2	0	0	0	
POCATELLO	62	30	69	22	46	.2	0	0	.7	40	7.0	69	78	41	0	0	0	1	0	0	
IL CHICAGO	57	40	65	32	49	0	0	0	1.0	104	6.9	70	79	27	0	5	0	0	0	0	
MOLINE	58	39	66	31	49	0	0	0	2.0	33	22.3	74	81	46	0	2	0	0	0	0	
PEORIA	58	37	66	31	47	-3	0	0	1.9	28	24.5	72	82	43	0	1	0	0	0	0	
QUINCY	58	38	62	29	48	-3	0	0	2.8	43	17.8	57	83	42	0	2	0	0	0	0	
ROCKFORD	55	36	64	30	46	-1	0	0	1.9	24	16.1	47	75	36	0	1	1	0	0	0	
SPRINGFIELD	60	36	68	27	48	-3	0	0	6.5	99	30.3	96	89	49	0	2	0	0	0	0	
IN EVANSVILLE	64	38	72	31	51	-4	0	0	2.2	39	29.0	97	86	42	0	2	1	0	0	0	
FORT WAYNE	60	37	68	31	48	-2	0	0	5.0	85	27.4	73	90	36	0	1	0	0	0	0	
INDIANAPOLIS	58	36	69	28	47	-2	0	0	2.3	46	23.8	82	89	49	0	2	2	0	0	0	
SOUTH BEND	60	37	68	31	48	-2	0	0	3.0	56	26.5	80	87	39	0	2	1	0	0	0	
IA DES MOINES	55	39	66	29	47	-1	0	0	6.5	100	29.2	90	85	53	0	1	1	3	0	0	
SIOUX CITY	59	38	68	26	49	0	0	0	4.1	64	24.1	78	83	39	0	2	0	0	0	0	
WATERLOO	61	35	75	22	48	1	0	0	6.6	140	22.9	96	85	38	0	3	0	0	0	0	
KS CONCORDIA	63	37	71	27	50	-2	0	0	5.6	94	31.6	104	79	40	0	1	0	0	0	0	
DODGE CITY	65	39	74	32	52	-1	0	0	2.1	43	15.3	57	87	37	0	2	0	0	0	0	
GOODLAND	66	31	81	24	49	1	0	0	2.3	74	16.0	80	84	36	0	2	0	0	0	0	
TORREA	63	37	68	25	50	-2	0	0	2.1	86	13.4	79	87	28	0	6	0	0	0	0	
WICHITA	63	42	69	33	53	-3	0	0	2.0	30	21.5	68	91	38	0	2	0	0	0	0	
KY BOWLING GREEN	65	36	74	28	51	-3	0	0	3.5	53	19.3	62	87	40	0	1	0	0	0	0	
LEXINGTON	62	37	69	30	50	-3	0	0	3.3	50	45.3	110	97	41	0	2	0	0	0	0	
LOUISVILLE	63	39	69	32	51	-3	0	0	3.2	57	38.8	105	88	39	0	1	0	0	0	0	
LA BATON ROUGE	75	53	82	43	64	-2	0	0	4.8	85	28.9	78	87	36	0	1	0	0	0	0	
LAKE CHARLES	78	56	86	47	67	1	0	0	9.2	113	55.0	108	96	50	0	0	0	0	0	0	
NEW ORLEANS	76	57	83	47	66	0	0	0	6.6	71	35.6	79	91	42	0	0	0	0	0	0	
SHREVEPORT	73	46	83	39	60	-2	0	0	7.9	95	46.0	89	91	41	0	0	0	0	0	0	
									9.0	122	43.9	109	97	41	0	0	1	0	0	0	

Based on 1961-90 normals.

Weather Data for the Week Ending October 29, 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					.01 INCH OR MORE
ME CARIBOU	55	36	60	27	46	6	.1	-.6	.1	4.0	64	31.6	107	93	44	0	3	2	0
PORTLAND	61	37	67	29	49	4	.1	-.9	.1	7.2	108	34.2	100	96	51	0	1	1	0
MD BALTIMORE	64	42	70	36	53	0	1.9	.3	.9	5.2	83	38.8	115	91	44	0	0	1	1
SALISBURY	65	40	72	31	52	0	1.0	.2	.8	4.6	67	34.4	90	98	49	0	1	2	1
MA BOSTON	64	47	71	43	56	4	.2	-.6	.2	5.0	81	37.9	115	84	36	0	0	2	2
CHATHAM	60	49	64	42	54	4	.2	-.9	.2	2.5	33	35.1	97	89	58	0	0	1	1
MI ALPENA	54	36	59	26	45	2	.2	-.3	.1	2.9	58	26.4	108	88	50	0	2	2	0
DETROIT	58	40	69	35	49	1	.2	-.5	.1	3.4	69	25.5	95	86	48	0	0	2	2
FLINT	56	38	63	35	47	1	.1	-.4	.1	4.6	81	27.5	108	88	54	0	0	1	1
GRAND RAPIDS	54	40	61	36	47	1	.3	-.3	.2	4.4	64	38.8	130	86	55	0	0	3	3
HOOHETON LAKE	53	42	58	39	48	4	.4	-.3	.1	2.7	50	24.4	102	89	55	0	0	5	5
LANSING	54	39	60	35	46	1	.1	-.5	.1	4.4	69	28.8	108	95	59	0	0	2	2
MARQUETTE	49	36	60	32	42	3	.3	-.5	.1	4.6	61	21.7	73	94	48	0	2	4	4
MUSKOGON	53	45	59	38	49	2	.1	-.5	.1	4.1	63	27.1	103	87	56	0	0	2	2
SAULT ST. MARIE	51	35	57	28	43	2	.5	-.2	.2	3.7	55	24.4	88	93	52	0	2	5	0
MN ALEXANDRIA	50	36	62	26	43	2	.1	-.4	.1	6.0	124	18.0	76	87	55	0	2	1	0
DULUTH	50	36	63	27	43	3	.1	-.4	.0	7.9	127	27.7	103	85	46	0	2	4	0
INT'L FALLS	50	34	62	27	42	4	.2	-.2	.1	5.6	112	21.5	96	89	53	0	3	4	0
MINNEAPOLIS	54	39	68	28	46	2	.1	-.4	.1	9.3	194	27.7	108	78	44	0	2	1	0
ROCHESTER	52	36	64	27	44	0	.1	-.5	.1	5.2	92	28.9	107	86	51	0	1	0	0
MS GREENWOOD	72	46	81	38	59	-2	.1	-.8	.1	7.1	106	39.9	92	96	40	0	0	1	0
JACKSON	72	47	81	38	59	-1	.1	-.8	.1	6.4	106	49.8	114	94	43	0	0	1	0
MERIDIAN	75	48	83	40	62	1	.0	-.7	.0	7.0	111	55.7	121	91	41	0	0	0	0
MO CAPE GIRARDEAU	65	38	73	32	52	-3	.1	-.7	.1	6.4	100	35.4	94	94	37	0	2	0	0
COLUMBIA	60	36	66	28	48	-4	.2	-.6	.1	3.8	54	30.6	94	87	40	0	3	2	0
KANSAS CITY	61	38	67	28	49	-3	.1	-.5	.1	3.3	41	22.8	67	83	35	0	2	1	0
SAINT LOUIS	63	43	73	36	53	-1	.1	-.5	.1	3.5	61	27.7	89	81	38	0	0	2	0
SPRINGFIELD	63	37	70	28	50	-3	.1	-.7	.1	6.3	77	40.2	109	86	34	0	3	1	0
MT BILLINGS	59	37	68	29	48	3	.1	-.2	.1	3.4	138	12.3	91	65	28	0	3	0	0
GLASGOW	54	30	72	22	42	1	.1	-.1	.1	1.9	122	9.4	92	87	45	0	4	1	0
GREAT FALLS	56	34	66	25	45	1	.0	-.2	.0	1.5	75	9.3	68	71	31	0	4	0	0
HAVRE	58	29	70	19	43	2	.1	-.1	.1	.9	55	6.6	65	86	32	0	4	0	0
HELENA	57	28	69	22	43	2	.1	-.1	.1	1.3	73	6.9	66	86	40	0	6	1	0
KALISPELL	47	30	58	24	39	1	.4	-.2	.2	1.7	83	8.8	66	95	56	0	5	3	0
MILES CITY	59	32	72	25	46	2	.1	-.0	.1	2.9	134	9.1	71	87	29	0	4	1	0
MISSOULA	52	31	65	24	42	1	.4	-.2	.3	1.5	80	10.2	89	92	51	0	4	4	0
NE GRAND ISLAND	63	34	74	22	48	0	.1	-.2	.1	2.9	71	20.2	87	86	35	0	4	1	0
LINCOLN	60	32	69	20	46	-3	.1	-.4	.1	1.3	24	17.3	66	91	37	0	4	0	0
NORFOLK	62	36	75	26	49	2	.0	-.3	.0	3.7	92	26.4	113	83	33	0	3	0	0
NORTH PLATTE	66	28	83	21	47	2	.0	-.2	.0	3.2	128	17.5	96	85	24	0	6	0	0
OMAHA	61	35	71	25	48	-1	.1	-.4	.1	6.3	107	27.2	100	88	40	0	3	0	0
SCOTTSBLUFF	64	29	76	23	47	1	.0	-.2	.0	3.2	175	14.2	101	88	25	0	5	0	0
VALENTINE	63	29	75	17	46	-1	.0	-.2	.0	.7	20	16.5	79	74	24	0	5	0	0
NV ELY	64	26	67	16	45	3	.0	-.2	.0	1.4	77	7.5	85	78	22	0	7	0	0
LAS VEGAS	81	54	83	50	68	4	.0	-.1	.0	.4	74	1.2	37	41	17	0	0	0	0
RENO	70	37	76	31	54	6	.0	-.1	.0	.4	54	3.6	63	74	22	0	1	0	0
WINNEMCCA	66	30	72	21	48	3	.1	-.2	.1	.6	65	5.4	84	70	19	0	5	1	0
NE CONCORD	62	32	69	26	47	3	.1	-.7	.1	4.5	77	29.3	100	97	33	0	4	1	0
NJ ATLANTIC CITY	64	38	70	29	51	-1	.7	.0	.7	4.6	82	37.2	112	98	47	0	2	1	1
NM ALBUQUERQUE	70	44	74	43	57	4	.4	-.2	.4	2.7	148	9.1	116	69	29	0	0	1	0
CLOVIS	68	42	84	38	55	0	.0	-.3	.0	1.1	32	9.7	60	78	30	0	0	0	0
ROSWELL	71	47	86	43	59	1	.1	-.2	.1	1.7	58	7.2	62	77	36	0	0	0	0
NY ALBANY	60	34	65	30	47	0	.1	-.7	.1	2.9	51	30.5	102	94	45	0	2	0	0
BINGHAMTON	54	40	60	34	47	2	.1	-.7	.1	3.3	54	36.3	119	84	55	0	0	1	0
BUFFALO	57	44	66	38	50	3	.8	.0	.6	4.7	73	29.7	96	83	47	0	0	3	1
NEW YORK	63	50	69	43	56	2	.8	.1	.8	4.1	66	37.2	107	78	40	0	0	1	1
ROCHESTER	60	42	69	35	51	3	.1	-.6	.1	3.3	62	23.3	89	84	43	0	0	0	0
SYRACUSE	59	40	67	34	50	2	.1	-.7	.1	3.2	47	32.2	101	84	51	0	0	1	0
NC ASHEVILLE	64	37	71	29	51	-2	.1	-.9	.1	9.6	111	51.3	109	96	44	0	3	2	0
CHARLOTTE	69	47	80	38	58	0	.1	-.7	.1	4.6	69	32.4	90	81	39	0	0	1	0
GREENSBORO	67	40	77	32	54	-2	.3	-.4	.3	2.6	38	31.2	87	97	39	0	1	2	0
HATTERAS	72	58	77	53	65	2	.1	-.1	.1	18.9	190	58.1	126	90	49	0	0	0	0
NEW BERN	74	52	81	42	63	2	.1	-.6	.1	6.1	76	32.3	68	94	52	0	0	0	0
RALEIGH	68	43	79	34	56	-1	.1	-.6	.1	6.5	112	33.8	96	92	39	0	0	1	0
WILMINGTON	73	51	80	41	62	2	.2	-.4	.2	15.5	155	51.1	103	97	52	0	0	1	0
ND BISMARCK	56	30	70	20	43	2	.1	-.2	.1	8.4	357	17.1	119	83	48	0	6	0	0
FARGO	53	35	64	26	44	3	.1	-.3	.1	5.2	145	22.0	122	85	51	0	3	0	0
GRAND FORKS	53	35	70	26	44	4	.1	-.2	.1	4.6	132	21.0	123	85	48	0	3	0	0
WILLISTON	56	28	68	20	42	2	.1	-.1	.1	2.4	116	14.6	116	85	40	0	5	1	0
OH AKRON-CANTON	57	39	65	34	48	-1	.1	-.4	.1	2.5	44	34.0	111	86	43	0	0	1	0
CINCINNATI	61	37	67	30	49	-2	.1	-.7	.1	2.0	37	32.5	94	87	40	0	2	0	0
CLEVELAND	59	40	68	35	50	1	.1	-.5	.1	2.7	47	24.0	79	90	41	0	0	2	0
COLUMBUS	61	36	69	31	49	0	.1	-.5	.1	2.4	44	26.2	84	88	38	0	1	1	0
DAYTON	60	38	68	33	49	-1	.1	-.5	.1	1.7	36	28.3	93	89	39	0	0	1	0

Based on 1961-90 normals.

Weather Data for the Week Ending October 29, 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	TEMP. °F		PRECIP.	
																				.01 INCH OR MORE	.50 INCH OR MORE		
TOLEDO	60	39	70	30	50	2	.1	-.4	.1	1.5	31	23.0	85	88	43	0	0	0	1	1	0	0	
YOUNGSTOWN	56	38	65	35	47	1	.1	-.1	.1	4.7	80	32.0	103	90	49	0	0	0	0	1	2	0	0
OK OKLAHOMA CITY	66	44	76	35	55	3	.1	-.1	.1	3.7	54	20.5	69	85	40	0	0	0	0	0	0	0	0
TULSA	58	41	75	34	56	2	.1	-.1	.1	7.0	86	40.8	116	87	38	0	0	0	0	0	0	0	0
OK ASTORIA	58	44	61	33	49	1	4.5	2.9	2.2	9.0	110	45.1	100	97	68	0	0	0	0	0	4	2	2
BURNS	59	28	71	19	44	2	.2	-.0	.0	.5	39	3.4	45	80	28	0	0	0	0	0	0	0	0
MEMPHIS	67	38	74	28	53	2	.3	-.2	.2	1.3	59	6.4	53	90	30	0	0	0	1	1	2	2	0
MEMPHIS	60	35	71	34	49	0	.2	-.0	.0	1.0	70	9.0	102	84	32	0	0	0	0	0	1	1	0
PORTLAND	62	45	70	39	53	2	5.1	4.3	2.9	6.6	159	21.3	86	94	43	0	0	0	0	0	4	1	2
SALEM	61	42	69	35	51	1	4.3	3.5	2.8	6.6	156	22.7	88	94	42	0	0	0	0	0	4	1	2
PA ALLENTOWN	61	38	67	31	49	0	.6	-.1	.6	3.8	57	41.3	115	96	44	0	0	0	0	0	1	1	1
ERIE	56	44	66	40	50	0	.5	-.4	.2	5.3	67	33.8	100	82	47	0	0	0	0	0	5	0	0
HARRISBURG	62	40	67	34	51	0	.2	-.4	.2	3.1	50	38.7	116	90	43	0	0	0	0	0	0	0	0
PHILADELPHIA	63	46	70	41	54	3	.8	-.1	.8	2.6	36	39.8	105	89	42	0	0	0	0	0	1	1	1
PITTSBURGH	58	38	67	33	48	-1	.1	-.4	.1	4.3	82	35.5	115	82	41	0	0	0	0	0	2	0	0
SCRANTON	59	37	65	31	48	0	.7	-.6	.7	5.9	100	35.3	116	92	44	0	0	0	1	1	0	0	0
RI PROVIDENCE	65	41	70	36	53	3	.3	-.6	.3	4.5	66	34.8	96	90	35	0	0	0	0	0	1	1	0
SC CHARLESTON	75	54	81	45	65	1	1.0	-.5	.9	20.2	271	61.2	134	93	52	0	0	0	0	0	2	2	1
COLOMBIA	72	46	81	33	59	-1	.7	-.7	.7	7.0	107	42.1	97	92	40	0	0	0	0	0	0	0	0
FLORENCE	75	49	81	40	62	1	.0	-.6	.0	6.8	116	35.7	94	93	41	0	0	0	0	0	0	0	0
GREENVILLE	68	42	80	34	55	-2	.2	-.9	.2	5.9	76	44.6	103	90	42	0	0	0	0	0	0	0	0
SD ABERDEEN	55	32	63	25	44	2	.7	-.2	.7	4.9	148	19.5	99	85	45	0	0	0	0	0	4	1	0
HURON	58	32	71	23	45	1	.7	-.3	.7	3.8	121	19.5	103	84	36	0	0	0	0	0	0	0	0
RAPID CITY	61	30	75	26	46	1	.7	-.2	.7	3.1	136	9.5	61	77	28	0	0	0	0	0	1	0	0
SIOUX FALLS	59	34	72	23	46	2	.0	-.3	.0	4.7	100	21.5	98	87	38	0	0	0	0	3	0	0	0
TX CHATTANOOGA	68	40	73	33	54	-3	.7	-.7	.7	7.9	111	66.0	152	98	41	0	0	0	0	0	2	0	0
KNOXVILLE	66	39	73	33	53	-2	.2	-.5	.1	3.6	63	58.3	151	98	40	0	0	0	0	0	2	0	0
MEMPHIS	68	44	75	37	56	-4	.7	-.8	.7	4.1	65	39.0	95	82	38	0	0	0	0	0	0	0	0
NASHVILLE	65	40	73	33	52	-4	.0	-.6	.0	7.4	125	53.3	139	87	38	0	0	0	0	0	0	0	0
TX ABILENE	68	52	80	41	60	-3	.5	-.0	.4	6.1	110	23.3	107	88	55	0	0	0	0	2	0	0	0
AMARILLO	65	40	78	32	53	-2	.0	-.3	.0	2.5	76	16.5	90	86	38	0	1	0	0	0	0	0	0
AUSTIN	74	58	85	51	66	-2	1.7	-.9	1.4	13.5	207	33.7	123	90	56	0	0	0	0	3	1	0	0
BEADWORTH	78	56	86	45	67	0	.0	-.9	.0	18.0	175	62.9	133	99	43	0	0	0	0	0	0	0	0
BROWNSVILLE	82	65	89	61	74	0	.6	-.2	.4	7.6	88	20.7	87	100	55	0	0	0	0	3	0	0	0
CORPUS CHRISTI	79	63	88	56	71	0	1.4	-.9	1.2	13.9	165	30.5	112	92	42	0	0	0	0	2	1	0	0
DEL RIO	74	60	88	54	67	0	.4	-.2	.4	2.9	53	18.2	82	86	56	0	0	0	0	2	0	0	0
EL PASO	80	49	86	45	65	5	.7	-.1	.7	.4	16	3.3	42	60	22	0	0	0	0	0	0	0	0
FORT WORTH	71	49	82	41	60	-1	1.4	-.6	.8	9.6	112	35.0	108	93	54	0	0	0	0	2	2	0	0
GALVESTON	75	64	82	58	70	0	.7	-.5	.7	6.3	73	22.8	65	88	50	0	0	0	0	1	0	0	0
HOUSTON	77	56	86	48	67	0	.0	-1.0	.0	11.7	119	36.6	84	93	44	0	0	0	0	0	0	0	0
LUBBOCK	69	47	81	38	58	0	.7	-.3	.7	1.8	40	12.3	71	94	44	0	0	0	0	0	0	0	0
MIDLAND	73	50	85	46	62	0	.7	-.2	.7	.8	18	8.4	60	91	48	0	0	0	0	0	0	0	0
SAN ANGELO	69	53	79	45	61	-2	.5	-.1	.2	7.3	128	16.2	88	91	59	0	0	0	0	4	0	0	0
SAN ANTONIO	77	59	88	52	68	1	1.9	1.2	1.7	14.5	225	35.6	134	89	50	0	0	0	0	3	1	0	0
VICTORIA	79	61	88	53	70	1	.1	-.8	.1	13.4	128	38.4	100	91	51	0	0	0	0	0	0	0	0
WACO	73	52	84	45	62	-3	1.6	-.9	1.6	5.2	77	25.0	91	92	53	0	0	0	0	2	1	0	0
WICHITA FALLS	67	49	81	38	58	-2	.2	-.4	.2	4.7	66	11.3	40	89	40	0	0	0	0	0	1	0	0
UT CEDAR CITY	68	35	72	31	52	4	.0	-.2	.0	2.3	123	7.0	72	77	22	0	1	0	0	0	0	0	0
SALT LAKE CITY	64	38	70	30	51	1	.0	-.3	.0	2.6	97	10.9	81	85	29	0	1	0	0	0	0	0	0
VT BURLINGTON	59	40	64	33	50	5	.7	-.7	.7	2.5	41	30.2	105	86	47	0	0	0	0	1	0	0	0
VA NORFOLK	68	50	76	43	59	1	.7	-.0	.7	4.5	65	45.9	120	90	51	0	0	0	0	0	1	1	0
RICHMOND	66	42	74	35	54	-1	.9	-.1	.8	6.1	92	38.4	105	94	35	0	0	0	0	2	1	0	0
ROANOKE	66	38	74	30	52	-1	.7	-.1	.4	2.4	33	38.5	111	93	35	0	3	2	0	0	0	0	0
WA QUILLAYUTE	56	42	60	37	49	1	4.2	1.4	1.4	11.8	81	67.7	91	99	67	0	0	0	0	6	3	0	0
SEATTLE-TACOMA	57	46	64	43	52	2	1.9	1.0	1.1	4.2	88	19.9	79	89	59	0	0	0	0	4	2	0	0
SPOKANE	53	36	58	30	44	1	1.3	1.0	.9	2.6	162	8.9	75	93	58	0	2	2	1	0	0	0	0
YAKIMA	58	33	63	25	46	0	.4	-.3	.3	.5	59	4.8	86	90	50	0	5	2	0	0	0	0	0
WV BECKLEY	58	35	69	28	47	-2	.3	-.3	.3	2.7	44	43.9	127	85	41	0	2	1	0	0	0	0	0
CHARLESTON	62	34	71	28	48	-4	.7	-.7	.7	3.1	53	44.9	127	98	36	0	3	0	0	0	0	0	0
HUNTINGTON	63	35	70	28	49	-2	.7	-.7	.7	3.4	56	40.6	113	94	31	0	0	0	0	0	0	0	0
PARKERSBURG	62	35	69	30	49	-3	.7	-.6	.7	2.7	49	42.1	121	89	35	0	2	0	0	0	0	0	0
WI GREEN BAY	54	37	63	31	46	2	.7	-.4	.7	3.2	57	26.0	104	86	58	0	1	1	0	0	0	0	0
LACROSSE	57	43	71	40	50	4	1	-.4	.7	6.5	111	30.4	111	73	41	0	0	0	0	0	0	0	0
MADISON	55	39	64	34	47	1	.7	-.5	.7	6.8	113	29.7	105	81	48	0	0	0	0	0	0	0	0
MILWAUKEE	58	42	67	34	50	4	.7	-.5	.7	2.3	40	22.7	81	81	46	0	0	0	0	1	0	0	0
WAUSAU	52	39	61	31	45	2	.7	-.5	.7	5.1	75	19.8	68	83	47	0	1	1	0	0	0	0	0
WI CASPER	59	30	67	24	45	3	.0	-.2	.0	4.7	254	11.3	103	85	27	0	5	0	0	0	0	0	0
CHEYENNE	60	31	69	25	46	2	.0	-.1	.0	2.0	99	12.6	94	82	24	0	5	0	0	0	0	0	0
LANDER	58	30	68	26	44	2	.0	-.2	.0	5.4	248	10.6	91	70	24	0	6	0	0	0	0	0	0
SHERIDAN	59	30	74	23	45	2	.3	-.1	.3	4.2	170	14.1	109	77	33	0	5	0	0	0	0	0	0

# National Agricultural Summary

October 24 - 30, 1994

**HIGHLIGHTS:** Continued dry, autumn weather allowed field-work and harvest activity to make good progress across most of the Nation. The soybean harvest approached completion in the Midwest where the dry, warm weather left some soybeans at 11% moisture. Favorable weather and a late freeze helped the corn crop dry-down in the Corn Belt and Central Plains, and encouraged farmers to harvest rapidly. The freeze helped spur the corn harvest in the Great Lakes States, where combines were running from dawn to dusk. With higher-than-normal yields for corn, storage problems continue to be reported. Dry conditions in the central Great Plains raised concern for the development of some emerged winter wheat fields. Precipitation in the Pacific Northwest enhanced the winter wheat germination prospects and improved newly emerged fields. Since most of the rain was confined to the western slopes, soil moisture shortages persisted east of the Cascades. The cotton harvest progressed quickly in California, followed by shredding and discing to control pink bollworm. Wet fields in central and eastern Texas slowed harvest activity and winter wheat planting.

Winter wheat planted at 89 percent (%) was up 5 percentage points from the previous week, and was 1 point behind the 5-year average. Winter wheat planted in Oregon was up 13 points from the previous week but was 21 points behind the average, while wheat planted in Washington was up 3 points from last week but was 6 points behind the average. Winter wheat for the 19 major producing States was 76% emerged, 2 points ahead of the average, while wheat emerged in Oregon was 33 points behind the average. Dry conditions in Kansas raised concern for the newly emerged wheat, where wheat emerged was at 90%, up 10 points from last

week. Winter wheat condition rated good to excellent at 66%, compared to 73% a year ago.

Corn harvest for the 17 major producing States advanced 18 points from last week to 70%, and was 3 points ahead of the average. Dry weather spurred the corn harvest in the Midwest and the Great Lakes States, where some harvested corn was reported in the 13% moisture range. Corn harvested in Illinois was up 19 points from the previous week, while Indiana increased corn harvested by 23 points from last week.

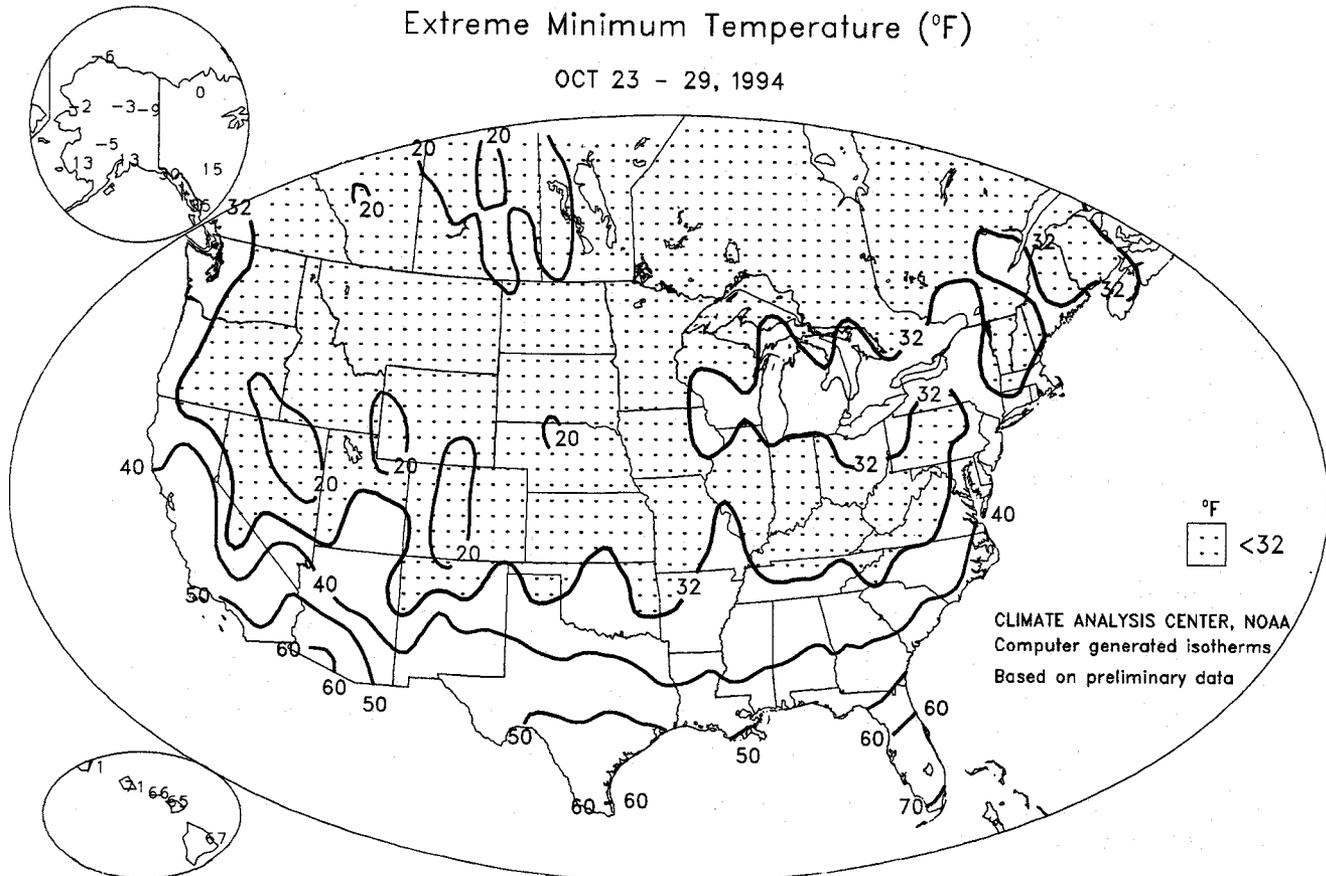
Cotton condition was up sharply from last week for the 14 major producing States, with 64% of the cotton crop rated as good to excellent, compared to 55% last week. Cotton harvested in the 14 major producing States at 58% was up 10 points from last week and 2 points ahead of the average. In California, the cotton harvest increased 20 points from last week to 65% harvested, while Texas cotton harvested at 52% was 15 points ahead of the average.

Sorghum harvested at 84% was up 7 points from last week and 11 points ahead of the average. Sorghum harvested in Kansas increased 5 points from last week and reached 85% harvested, 20 points ahead of the average.

Soybeans harvested at 83% was up 9 points from a week ago and 2 points ahead of the average for the 19 major producing States. Missouri soybean producers harvested 70% of the crop, up 17 points from last week, but 5 points behind the average. Harvest was up 5 points from last week in Iowa at 98% complete and was equal to the average.

## Extreme Minimum Temperature (°F)

OCT 23 - 29, 1994



### Crop Progress

for the Week Ending October 30, 1994

#### COTTON HARVESTED

	Current	Last Wk	1993	Avg.
AL	42	33	68	72
AZ	77	67	74	65
AR	67	60	66	71
CA	65	45	75	63
GA	32	18	74	58
LA	72	64	86	90
MS	66	51	74	79
MO	82	63	79	79
NM	36	33	24	13
NC	57	44	60	52
OK	59	51	34	21
SC	41	29	67	56
TN	64	53	80	72
TX	52	46	53	37
14 States	58	48	64	56

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

#### GRAIN SORGHUM HARVESTED

	Current	Last Wk	1993	Avg.
AR	99	97	95	97
CO	52	38	25	43
IL	78	62	54	67
KS	85	80	55	65
LA	100	99	99	98
MS	100	99	98	98
MO	80	68	67	77
NE	87	67	49	73
NM	42	39	39	44
OK	43	38	39	37
SD	62	45	66	85
TX	90	88	90	82
12 States	84	77	68	73

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

### Crop Condition

for the Week Ending Oct. 30, 1994

#### WINTER WHEAT PLANTED

	Current	Last Wk	1993	Avg.
AR	56	39	35	45
CA	10	5	15	13
CO	100	100	100	100
GA	9	9	12	10
ID	94	83	93	96
IL	93	84	73	87
IN	95	82	87	87
KS	98	95	96	97
MI	95	90	95	95
MO	77	59	61	72
MT	89	79	85	96
NE	100	100	100	100
NC	45	40	37	34
OH	98	88	93	85
OK	95	91	97	94
OR	69	56	93	90
SD	100	100	100	100
TX	79	74	84	84
WA	91	88	98	97
19 States	89	84	89	90

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

#### WINTER WHEAT EMERGED

	Current	Last Wk	1993	Avg.
AR	38	25	27	29
CA	1	0	5	3
CO	96	92	96	95
GA	7	5	7	7
ID	61	47	63	73
IL	79	61	49	62
IN	78	58	63	64
KS	90	80	85	85
MI	80	65	70	75
MO	58	42	36	49
MT	67	46	52	73
NE	100	99	100	100
NC	20	12	21	22
OH	71	50	68	60
OK	81	68	81	70
OR	30	22	68	63
SD	99	94	98	96
TX	68	60	71	65
WA	63	58	84	87
19 States	76	66	74	74

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

#### COTTON

State	VP	P	F	G	EX
AL	0	0	25	73	2
AZ	0	0	10	80	10
AR	0	0	14	69	17
CA	0	0	10	75	15
GA	0	0	16	75	9
LA	0	0	23	77	0
MS	0	0	12	86	2
MO	0	0	20	70	10
NM	0	0	40	50	10
NC	0	0	11	74	15
OK	0	5	59	26	10
SC	0	0	13	79	8
TN	0	0	1	99	0
TX	0	15	50	30	5
14 State	0	6	30	57	7
Prev Week	0	8	37	49	6
Prev Year	NA	NA	NA	NA	NA

#### WINTER WHEAT

State	VP	P	F	G	EX
AR	0	1	0	92	7
CA	NA	NA	NA	NA	NA
CO	2	4	16	63	15
GA	0	0	24	75	1
ID	0	3	30	59	8
IL	0	0	8	60	32
IN	0	1	25	64	10
KS	2	7	24	64	3
MI	1	4	20	50	25
MO	0	1	29	62	8
MT	3	10	32	50	5
NE	0	0	11	80	9
NC	0	0	25	73	2
OH	1	6	42	42	9
OK	0	0	16	84	0
OR	0	9	28	57	6
SD	0	0	12	64	24
TX	0	9	61	26	4
WA	3	32	43	19	3
19 State	1	6	27	60	6
Prev Week	1	6	29	59	5
Prev Year	0	2	25	58	15

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

#### CORN HARVESTED

	Current	Last Wk	1993	Avg.
CO	86	65	37	49
GA	97	97	99	99
IL	79	60	63	76
IN	63	40	53	58
IA	74	57	43	69
KS	96	95	80	85
KY	83	75	83	79
MI	35	20	20	40
MN	57	29	29	64
MO	81	70	64	79
NE	78	56	44	68
NC	95	88	94	93
OH	52	32	49	45
PA	33	26	36	33
SD	53	35	28	66
TX	100	98	100	99
WI	49	29	24	42
17 States	70	52	50	67

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

#### SOYBEANS HARVESTED

	Current	Last Wk	1993	Avg.
AL	24	15	51	48
AR	52	41	38	46
GA	16	11	22	24
IL	95	90	90	94
IN	97	90	89	87
IA	98	93	94	98
KS	80	65	75	85
KY	54	27	51	51
LA	63	49	79	74
MI	85	70	80	75
MN	95	80	95	98
MS	60	50	56	58
MO	70	53	63	75
NE	97	90	95	97
NC	19	12	14	18
OH	97	95	92	82
SC	14	3	11	13
SD	88	77	97	98
TN	40	24	43	41
19 States	83	74	79	81

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 0.06 to 0.93 in. north; 0.01 to 1.17 in. central; 0.02 to 1.03 in. south. Temperatures 5° below normal to 2° above normal. Lows 31 to 39° north; 32 to 43° central; 35 to 45° south. Highs 73 to 79° north; 72 to 80° central; 76 to 83° south.

Days suitable for fieldwork 4.9. Soil moisture 5% short, 75% adequate, 20% surplus. Corn harvested 94%, 97% 1993, 97% avg. Sorghum harvested 54%, 60% 1993, 84% avg. Peanuts dug 95%, 94% 1993, 98% avg.; combined 91%, 91% 1993, 96% avg. Wheat planted 43%, 43% 1993, 43% avg. Pasture feed 9% poor, 22% fair, 66% good, 3% excellent. Livestock 16% fair, 80% good, 4% excellent. Seasonal activities: Harvesting row crops, vegetables, defoliating cotton fields, seeding small grains, ground preparation for fall planting.

**ARIZONA:** Temperatures 1 to 8° above normal. Extremes 26°; 87° higher elevations; 41°; 94° deserts. No precipitation.

Cotton harvest continues active; condition remains mostly good; harvested acreage 77%, 74% 1993, 65% avg. Weed infestations light, insect, disease infestations light to moderate. Alfalfa condition mostly good. Harvest moderate. Weed, insect, disease infestations light to moderate. Lemon, grapefruit harvest increased western, central areas. Apple harvest continues eastern groves. Raisin grape harvest virtually complete central, western vineyards. Cantaloupe, honeydew harvested central, western areas. Watermelons available from all areas. Head lettuce, squash available eastern areas. Cabbage, green onion, mixed green, sweet corn available central areas. Range, pasture condition declined from last month. Range feed 71% normal, 7 points lower than September. Cattle, calves remained fair to good condition. Stock water, soil moisture supplies were short to adequate. Feed supplies average to below average. Light insect damage statewide.

**ARKANSAS:** Temperatures below normal with light showers in the southern region. Extremes 21°; 83°. Rainfall none to 0.52 in.

Days suitable for fieldwork 5. Soil moisture 9% short, 73% adequate, 18% surplus. Rice, grain sorghum, soybean, cotton harvests in progress. Producers fertilizing, liming pastures. Pecans in good condition with 5% harvested in Hempstead county. Peanuts 100% harvested. Izard County reported dry conditions have caused stock ponds to dry up. Pasture feed 4% very poor, 13% poor, 46% fair, 33% good, 4% excellent. Livestock good condition.

**CALIFORNIA:** Weather generally warmer than normal, a weak system passed through central areas bringing light showers. Occasional systems far north, light precipitation.

Good progress field activities, open weather. Rice harvest winding down; stubble burned where conditions, air quality regulations permitted. Some stubble chopped, disced. Cotton harvest progressed rapidly, followed by shredding, discing for pink bollworm control. Defoliation virtually complete. Grain corn, silage corn, dry beans, sugarbeets harvested. Planting new crop sugarbeets. Alfalfa cut hay, treated insects. Many areas completed final cutting. Ground preparation fall planted small grains active most areas. Seeding winter forages, new alfalfa gained momentum. Small grain seeding slowly increased, many growers awaiting rainfall before seeding. Table grape harvest nearly complete. Dehydrators recondition rain damaged raisins. Persimmons, pomegranates, kiwi, apples, date harvest continued. Walnut harvest winding down. Almond orchards irrigated, pruned, others continued harvested. Pruning stone fruit trees began, less desirable varieties pushed out. Olive harvest continued. Valencia harvest winding down. Harvest navel oranges beginning. Lemon, tangerine, grapefruit, harvested. Avocado harvest slowing. Broccoli harvest continued San Joaquin Valley, Riverside County, while San Benito County harvest tapered off. Fall Broccoli, cauliflower progressed under ideal growing conditions Tulare County. Cabbage harvested

Riverside County. Carrots Kern County harvested. Celery, sweet corn harvested Coachella Valley. Fall head, leaf lettuce fields harvested San Joaquin Valley. Melons harvested Coachella Valley. Pepper harvest continued San Joaquin Valley. Fall potato harvest Tulelake-Butte Valley finished. Yields above average, quality good. Harvest sweet potatoes Merced, Stanislaus Counties continued. Spinach planting Tulare County almost completed. Fresh market tomatoes harvested San Joaquin Valley. Processing tomato canners receiving their last shipments season. Other crops harvested: squash, cucumbers, green beans, green onions, okra, eggplant, gourds, pumpkins, herbs and spices, oriental vegetables. Rangeland grasses growing where mid October rains received. New growth started, some areas drying, lack of rain. Rain needed soon to sustain growth. Feed supplies limited, supplemental feeding moderate, most areas. Livestock movement to lower elevations about complete, some areas, beginning others. Cattle, sheep in good condition.

**COLORADO:** Temperatures normal or slightly above normal with record high temperatures on the 28th. An upper atmosphere low pressure area moved through the State on the 30th dropping temperatures 15 to 20° below normal. Also, a mixture of snow flurries, rain fell over most the east, across the mountains.

Days suitable for fieldwork 6.2. Soil moisture 8% very short, 42% short, 49% adequate, 1% surplus. Sugarbeets 95% harvested, 90% 1993, 82% avg. Winter wheat 4% very poor, 7% poor, 46% fair, 33% good, 10% excellent. Harvest activities progressed well with dry weather. Livestock mostly good. Pasture, range feed poor to fair.

**FLORIDA:** Temperature normal north, 1 to 3° above Peninsula. Highs; 80 to 85° north, low 90s central, south. Lows; low 40s Panhandle, mid 40s Big Bend, low 50s northeast, upper 50s central, near 70° southeast. Rainfall 0.50 to 2.00 in., with 3.00 to 5.00 Peninsula. Little rain in Panhandle.

Soil moisture adequate to surplus throughout State. With dry weather farmers were able to resume harvest in most Panhandle areas. Peanut harvest winding down. Cotton, soybean harvests active. Sugarcane harvest increasing. Sugarcane planting active. Starting last cutting of hay. Small grain planting for forage active. Scattered showers over most of southern Peninsula provided ample moisture to fall vegetable crops. Dade County snap bean harvest started. Sumter County tomato picking getting underway. Citrus groves very good condition, moisture adequate. Tree fruit color very good. Some light irrigation. Harvest active for all early types of fruit. Most caretakers cutting cover crops, few still spraying. Pasture feed 5% poor, 25% fair, 65% good, 5% excellent. Cattle mostly good.

**GEORGIA:** Cool week. Temperatures mostly 1 or 2° below normal. Highs lower 70s north to lower 80s south. Lows upper 20s mountains to lower 40s south, around 50° along coast. Rain on one to four days over the State. Most places under 0.33 in. but local areas south over 1.00 in. of rain.

Days suitable for fieldwork 5.0. Soil moisture 1% very short, 1% short, 76% adequate, 22% surplus. Sorghum 29% fair, 71% good; 80% harvested for grain, 89% 1993, 83% avg. Peanuts 4% very poor, 10% poor, 34% fair, 47% good, 5% excellent; 99% dug, 98% 1993, 99% avg.; 94% threshed, 93% 1993, 95% avg. Soybeans 24% fair, 74% good, 2% excellent; 97% dropping leaves, 98% 1993, 98% avg. Rye 71% planted, 56% 1993, 59% avg. Other small grains 3% poor, 20% fair, 76% good, 1% excellent; 49% planted, 38% 1993, 38% avg. Onions 0% transplanted, NA 1993, NA avg. Vegetables 4% very poor, 14% poor, 34% fair, 44% good, 4% excellent. Apples 99% harvested, 84% 1993, 91% avg. Pecans 22% poor, 40% fair, 38% good; 20% harvested, 12% 1993, 18% avg. Hay 4% poor, 35% fair, 58% good, 3% excellent. Pasture feed 3% poor, 25% fair, 67% good, 5% excellent. Cattle, hogs good.

**HAWAII:** High pressure system north of State resulted in mostly sunny, dry weather, with light to moderate trade winds. Some showers windward areas. Days still relative hot, but evening temperatures cooler. Temperatures high 60s to mid 80s. Winds 10 to 20 mph. Rainfall none to 2.90 in.

Weather generally benefited crop progress. Cooler nighttime temperatures aided vegetable crops. Most orchard crops fair to good condition. Sugarcane harvesting winding down most areas. Sugar yields expected slightly less than earlier anticipated.

**IDAHO:** Temperatures 1° below to 4° above normal. Precipitation 0.23 to 2.10 in. north, 0.05 to 0.30 southwest, none to 0.02 in. south central, none to 0.43 in. southeast. Extremes 14°; 80°.

Days suitable for fieldwork 6. Potatoes harvested 98%, 97% 1993, 99% avg.; 2% poor, 13% fair, 68% good, 17% excellent. Soil moisture 13% very short, 33% short, 53% adequate, 1% surplus. Range, pasture feed 63%. Sugarbeets harvested 74%, 71% 1993, 76% avg. Alfalfa hay harvested (3rd cutting) 97%, 97% 1993, 99% avg. Apples harvested 97%, 87% 1993, 84% avg. Field corn for grain harvested 47%, 53% 1993, 43% avg. Field corn for silage harvested 95%, 97% 1993, 99% avg. Irrigation water supplies 39% very poor, 16% poor, 18% fair, 25% good, 2% excellent. Activities: Harvesting potatoes, sugarbeets, moving livestock, weaning calves, planting winter wheat, preparing irrigation equipment for the winter.

**ILLINOIS:** Drier, warmer than normal weather occurred the past 7 days across much of State. High temperatures mid to upper 50s in the north to the low to mid 60s in the south. Lows in the 30s to around 40° across much of State. Rainfall 0.10 in. or less in the south to 0.20 to 0.75 in. in the north, central.

Days suitable for fieldwork 6.75. Soil moisture 46% short, 54% adequate. Pasture feed 83% of normal. Farm activities included corn, soybean, sorghum harvest, seeding winter wheat, fall tillage, applying fertilizer, hauling grain, tending livestock.

**INDIANA:** Dry weather allowed fieldwork to make good progress. Temperatures initially were quite cool but soon warmed to well above normal levels. Temperatures mid 40s to low 50s. This was 2 to 3° below normal south, around normal to 2° above normal north. Mean highs varied from the mid 50s to mid 60s with average lows from the mid 30s to around 40°. Precipitation was minimal with most amounts at 0.10 in. or less. Slightly heavier 0.10 to 0.25 in. amounts were scattered about west-central into north-central, east-central areas.

Days suitable for fieldwork 6.4. Corn harvest advanced rapidly. Soybean harvest nearing completion. Other activities; Fall tillage, chopping stalks, spreading fertilizer, lime, seeding winter wheat, processing tobacco, machinery repair, care of livestock. Pasture feed 73% of normal, 73% last week. Topsoil 46% short, 54% adequate. Subsoil moisture 60% short, 40% adequate. Tobacco processed for sale 10%.

**IOWA:** Temperatures 2° above normal north to 2° below normal south central. Extremes 20° (northwest, 26th); 75° (west central 28th). Hard freeze west two-thirds on 25th, 26th mornings. Dry until late weekend. No measurable precipitation northwest two-thirds with up to 0.95 in. southeast; State average 0.15 in. normal 0.48 in.

Days suitable for fieldwork 6.8. Topsoil 26% short, 71% adequate, 3% surplus. Subsoil 25% short, 73% adequate, 2% surplus. Winter wheat acreage seeded 96%, 91% 1993, 98% avg. 1995 row crop acreage fall tilled 20%, 19% 1993, 25% avg. 1995 row crop acreage fall fertilizer applied 11%, 14% 1993, 19% avg. Percent moisture of field corn 19%. Percent moisture harvested corn 17%. Pasture feed 1% very poor, 11% poor, 27% fair, 51% good, 10% excellent. Grain storage availability 27% adequate, 73% shortage. Grain movement 2% none, 46% light, 34% moderate, 18% heavy.

**KANSAS:** Temperatures mostly normal to 2° above normal over the State. Extremes 3° below normal in the southeast to 3° above normal in the northwest. Precipitation across the State was light. Southeastern areas had the highest average at 0.37 in.

Days suitable for fieldwork 6.0. Surface soil moisture 50% short to very short, 49% adequate, 1% surplus. Subsurface moisture 46% short to very short, 54% adequate. Wheat seeding is virtually complete. Wheat emergence has been good across the State. However, dry conditions in many areas may hamper the development of strong stands. Fall harvest made good progress last week. Corn harvest has progressed rapidly, nearing completion. Sorghum harvest continues well ahead of normal progress. Soybean harvest is complete all but the eastern districts. Fall crop harvest, seeding wheat major activities. Farmers are moving cattle to stubble fields in many areas.

**KENTUCKY:** Highest temperatures 70s late week, lowest 20s to lower 30s. Temperatures around 50°, 1 to 2° below normal. No reporting stations received rainfall.

Days suitable for fieldwork 5.3. Soil moisture 9% very short, 36% short, 53% adequate, 2% surplus. Crop reached maturity before first widespread frost. Burley 20% stripped, equal 1993, 21% avg. Stripped tobacco 12 fair, 82% good, 6% excellent. Winter wheat 71% seeded, 64% 1993, 66% avg. Emerged wheat mostly good. Pastures short some areas, produces feeding hay.

**LOUISIANA:** Weather data not available.

Days suitable for fieldwork 4.3. Soil moisture 57% adequate, 43% surplus. Cotton, harvest continued but quality discounts plagued growers. Hay 98% final cutting, 97% 1993, 98% avg. Pecans 13% harvested, 19% 1993, 22% avg. Rice 99% harvested, 98% 1993, 99% avg. Second crop harvest was active. Soybeans 23% poor, 56% fair, 21% good; 100% turning color, 99% 1993, 99% avg.; 98% shedding leaves, 97% 1993, 93% avg. Sugarcane 26% fair, 74% good; 100% planted, 100% 1993, 99% avg.; 28% harvested, 27% 1993, 24% avg. Harvest gained momentum, a few fields were readied for succession planting. Sweetpotatoes 73% harvested, 82% 1993, 82% avg. Harvest continued. Wheat 18% planted, 27% 1993, 23% avg.; 14% emerged, 18% 1993, 12% avg. Livestock 2% very poor, 21% poor, 39% fair, 36% good, 2% excellent. Pasture feed 11% poor, 10% fair, 76% good, 3% excellent. Rye grass planting continued. Vegetables 2% poor, 37% fair, 57% good, 4% excellent.

**MARYLAND & DELAWARE:** **MARYLAND:** Rainfall 0.65 in., normal 0.71 in. Temperature 54.1°, normal 54.9°. Extremes 26°; 79°.

Days suitable for fieldwork 6.1. Topsoil 31% short, 69% adequate. Subsoil moisture 20% short, 80% adequate. Pasture feed good. Wheat fair to good; 63% planted, 67% 1993, 60% avg. Barley fair to mostly good; 87% planted, 96% 1993, 89% avg. Rye good; 67% planted, 80% 1993, 71% avg. Corn 100% mature, 100% 1993, 90% avg.; 72% grain harvested, 84% 1993, 75% avg. 99% silage harvested, 99% 1993, 98% avg. Soybeans 100% turned, 99% 1993, 99% avg.; 99% shedding leaves, 96% 1993, 95% avg.; 52% harvested, 41% 1993, 44% avg. Sorghum 100% turned, 100% 1993, 80% avg.; 100% mature, 97% 1993, 94% avg.; 62% harvested, 34% 1993, 73% avg. Tobacco 11% stripped, 6% 1993, 9% avg. Other hay 97% third cut, 93% 1993, 89% avg.; 68% fourth cut, 67% 1993, 50% avg. Alfalfa hay 76% fifth cutting, 51% 1993, 41% avg. Hay supplies adequate. Apples 97% harvested, 91% 1993, 92% avg.

**DELAWARE:** Precipitation 0.43 in., normal 0.77 in. Temperature 54.8°, normal 56.4°. Extremes 30°; 70°.

Days suitable for fieldwork 6.8. Topsoil 33% short, 67% adequate. Subsoil moisture 33% short, 67% adequate. Wheat good; 41% planted, 52% 1993, 50% avg. Barley good; 83% planted, 89% 1993, 76% avg. Corn 86% grain harvested, 93% 1993, 90% avg.; Soybeans 98% turned, 99% 1993, 100% avg.; 93% shedding leaves, 89% 1993, 95% avg.; 46% harvested, 31% 1993, 38% avg. Sorghum 100% turned, 100% 1993, 80% avg.; 92% mature, 92% 1993, 98% avg.; 31% harvested. Other hay 95% fourth cutting, 1% 1993, 38% avg. Alfalfa hay 70% fifth cutting, 43% 1993, 56% avg. Hay supplies adequate to surplus; pasture feed good. Apples 99% harvested, 97% 1993, 95% avg.

**MICHIGAN:** Extremes 23°; 69°. Precipitation none to 0.69 in. across the State.

Days suitable for fieldwork 6.0. Soil moisture 5% short, 90% adequate, 5% surplus. Dry beans 97% harvested, 98% 1993, 98% avg.

Corn for grain 100% mature; 100% 1993, 95% avg.; 35% harvested, 20% 1993, 40% avg. Corn silage 97% harvested, 95% 1993, 95% avg. Potatoes 97% harvested, 95% 1993, 97% avg. Soybeans 100% mature, 100% 1993, 99% avg.; 85% harvested, 80% 1993, 75% avg. Hay 75% fourth cutting, 70% 1993; 1% very poor, 9% poor, 20% fair, 50% good, 20% excellent. Pasture feed 85% of normal. Major activities included: Cutting hay, harvesting corn, soybeans, digging sugarbeets.

**MINNESOTA:** Temperatures 1 to 4° above normal for the State. Extremes 21°; 71°. Precipitation less than 0.10 in. northern part of the State, no precipitation elsewhere. Greatest weekly total was 0.13 in.

Days suitable for fieldwork 5.6. Topsoil 71% adequate, 29% surplus. Corn 57% harvested, 27% 1993, 64% avg.; moisture content 20%, 23% 1993, 23% avg.; stalks worked 23%, 21% 1993, 35% avg. Soybeans 95% harvested, 95% 1993, 98% avg.; moisture content 13%, 13% 1993, 11% avg.; stubble worked 45%, 58% 1993, 61% avg. Sugarbeets 96% harvested, 99% 1993, 98% avg. Sunflowers 85% harvested, 69% 1993, 88% avg.

**MISSISSIPPI:** Weather data not available.

Days suitable for fieldwork 4.7. Soil moisture 2% short, 73% adequate, 25% surplus. Corn 98% harvested, 96% 1993, 95% avg. Cotton 66% harvested, 74% 1993, 79% avg.; 12% fair, 86% good, 2% excellent. Rice 98% harvested, 93% 1993, 96% avg. Soybeans 98% shedding leaves, 92% 1993, 96% avg.; 60% harvested, 56% 1993, 58% avg.; 34% fair, 51% good, 15% excellent. Wheat 49% planted, 49% 1993, 54% avg.; 41% emerged, 29% 1993, 32% avg.; 22% fair, 52% good, 26% excellent. Sweet potatoes 89% harvested, 84% 1993, 88% avg. Pecans 30% harvested, 19% 1993, 18% avg.; 5% very poor, 27% poor, 50% fair, 14% good, 4% excellent. Livestock 9% fair, 79% good, 12% excellent. Pasture feed 87% of normal. Activities: Harvesting cotton, soybeans, planting for winter pastures.

**MISSOURI** Temperatures mostly below normal, ranging from normal, St. Louis to 5° below normal Nevada. Rainfall 0.27 in., ranging from virtually none south-central, southeastern districts to 0.64 in., west-central district.

Days suitable for fieldwork 5.7. Topsoil 26% short, 73% adequate, 1% surplus. Corn harvest virtually complete southern third of State, other districts range from 75% central, northeastern, to 83% north-central. Some farmers waiting for further moisture reduction in corn to avoid drying charges. Soybean harvest ranges 42% southeastern district, 52% southwest, to about 90% north-central, northeast. Sorghum harvest ranges 57% central district to 98% southeast. Wheat seeding varies 54% west-central to 94% northeast. Wheat crop getting good start in most areas. Pasture feed 1% very poor, 6% poor, 38% fair, 49% good, 6% excellent.

**MONTANA:** Temperatures normal to slightly above normal to precipitation light to moderate west, none to light east.

Days suitable for fieldwork 5.7. Topsoil 25% short, 74% adequate, 1% surplus. Subsoil 64% short, 36% adequate. Potatoes 94% harvested, 90% 1993, 95% avg. Sugarbeets 79% harvested, 70% 1993, 89% avg. Pasture, range feed condition 80% of normal. Cattle, calves moved from summer ranges, 75%. Sheep, lambs moved from summer ranges, 85%.

**NEBRASKA:** Temperatures 2° below normal east central to 4° above normal northeast. Precipitation limited to a few locations averaging less than a 0.10 in.

Days suitable for fieldwork 6.9. Topsoil 16% short, 83% adequate, 1% surplus. Subsoil 18% short, 80% adequate, 2% surplus. Corn 78% harvested, 44% 1993, 68% avg. Sorghum 87% harvested, 49% 1993, 73% avg. Soybeans 97% harvested, 95% 1993, 97% avg. Winter wheat 11% fair, 80% good, 9% excellent. Pasture, range feed 89% of normal.

**NEVADA:** High pressure dominated the weather early in the week, fostering warm, dry weather. A weak cold front arrived

toward the end of the week, bringing cloudy skies, isolated showers. Precipitation was light with Mountain City receiving the most at 0.19 in. Temperatures 2 to 5° above normal at most climatic divisions. Extremes 10°; 93°.

Hay harvest winding down. Potato harvest well along. Fall grain planting continued. Garlic planting well along. Movement of livestock to pastures, market very active. Main farm, ranch activities; Marketing, feeding, moving livestock, fall planting, late harvests.

**NEW ENGLAND:** Precipitation none to 1.30 in. regionwide. Temperatures 44 to 50° north; 44 to 53° south. Maximum temperatures 60 to 72° north; 57 to 72° south. Minimum temperatures 23 to 38° north; 23 to 37° south.

Cranberries 99% harvested; excellent, size large; field corn 95% harvested; good; third cut hay 95% harvested; good. Major farm activities: Cutting corn for grain, harvesting cranberries, harvesting hay when possible, cleaning, lime testing harvested fields, planting cover crops.

**NEW JERSEY:** Temperatures near normal. Extremes 27°; 79°. Rainfall 0.08 in. south. Heaviest 24 hour total 0.05 in. on 26th, 27th. Estimated soil moisture, in percent field capacity, averaged 89% north, 85% central, 65% south. Four inch soil temperatures averaged 50° north, 53° central, 54° south.

Moderate, declining supply of cabbage, endive, escarole, lettuce (all types), turnips, parsley, radish, herbs, spinach. Light, declining supply of eggplant, peppers, squash. Harvesting of field corn, soybeans continues. Seeding of winter wheat, rye as cover crops. Cranberry harvest continues. Apple harvest nearing completion.

**NEW MEXICO:** Temperatures over the State above normal. Fall storm moved across State 25th, 26th cooling the northern portions of the State. Precipitation fell mainly during midweek with totals ranging from a trace at Gallup to 0.40 at Albuquerque.

Days suitable for fieldwork 6.6. Soil moisture is 78% short, 22% adequate. Cropland conditions: Alfalfa 26% fair, 70% good, 4% excellent. Chile 33% fair, 60% good, 7% excellent. Corn 6% poor, 25% fair, 69% good. Irrigated sorghum 27% fair, 64% good, 9% excellent. Dryland sorghum 25% very poor, 75% poor. Cotton 40% fair, 50% good, 10% excellent. Pecan 10% poor, 40% fair, 50% good. Apple 100% good. Cattle conditions ranged from poor to good, sheep conditions varied across the State from fair to good. Range feed 57% of normal.

**NEW YORK:** Week was mild, dry. Early week disturbances brought 0.50 to 0.75 in. of rain to extreme west, Long Island. Otherwise fair weather dominated rest of week. Most of State had less than 0.10 in. of rain. Afternoon temperatures frequently in 60s. Overnight minimums in 30s to 40s.

Major activities: Tending, caring for livestock; packing, grading apples; finishing up apple harvest; harvesting corn for grain; harvesting potatoes, dry beans; moving onions into storage.

**NORTH CAROLINA:** Mean temperature 51° at Greensboro to 65° at Cape Hatteras. Rainfall departure from normal: -0.37 in. at Wilmington to -1.14 in. at Cape Hatteras.

Days suitable for fieldwork 5.3. Soil 19% short, 72% adequate, 9% surplus. Crop conditions: Wheat 25% fair, 73% good, 2% excellent; pasture feed 2% poor, 25% fair, 57% good, 16% excellent; corn 21% poor, 26% fair, 50% good, 3% excellent; cotton 11% fair, 74% good, 15% excellent; peanuts 17% fair, 68% good, 15% excellent; soybeans 16% fair, 81% good, 3% excellent; sweet potatoes 30% fair, 65% good, 5% excellent; sorghum 2% poor, 7% fair, 90% good, 1% excellent; hay, roughage supplies 10% short, 77% adequate, 13% surplus; corn for grain harvested 95%, 94% 1993, 93% avg.; sorghum 91%, 83% 1993, 74% avg.; sweet potatoes harvested 84%, 75% 1993, 79% avg.; cotton harvested 57%, 60% 1993, 52% avg.; peanuts dug 95%, 83% 1993, 92% avg.; peanuts threshed 86%, 68% 1993, 82% avg.; soybeans harvested 19%, 14% 1993, 18% avg.; wheat planted 45%, 37% 1993, 34% avg.; oats planted 59%, 58% 1993, 54% avg.; barley planted 65%, 63% 1993, 60% avg.; rye planted 68%, 60% 1993, 52% avg.; soybeans leaf drop 87%, 83% 1993, 89% avg.; wheat

emerged 20%, 21% 1993, 22% avg.; Activities included: Harvesting sweet potatoes, corn, cotton, peanuts, soybeans; marketing tobacco; planting small grain, preparing land. Other activities included: Tending livestock; equipment repair, general farm maintenance.

**NORTH DAKOTA:** Precipitation none south central to 0.12 in. north central. Temperatures 5° above normal across State. Extremes 13° south central; 75° south central.

Days suitable for fieldwork 6.4. Soil moisture above average. Topsoil 2% short, 84% adequate, 14% surplus. Subsoil 8% short, 78% adequate, 14% surplus. Saturated field conditions continued to make harvest difficult. Flaxseed 97% combined, 98% 1993, 100% avg.; corn for grain 57% harvested, 57% 1993, 80% avg.; corn for silage 98% cut, 100% 1993, 100% avg.; dry edible beans 94% combined, 98% 1993, 100% avg.; soybeans 90% combined, 99% 1993, 100% avg.; sunflower 51% harvested, 57% 1993, 84% avg.; sugarbeets 96% lifted, 100% 1993, 100% avg. Range, pasture feed 84% of normal. Stockwater supplies mostly adequate.

**OHIO:** It was generally a pleasant week, good for outdoor activities. Low pressure dragged a cold front across State on 24th night, 25th triggering about the only precipitation of significance. High pressure dominated the last half of the week. Temperatures were close to normal across northern, central areas. Temperatures averaged a little warmer near the lakeshore. Southern areas were the coolest with weekly average temperatures 1 to 3° below normal. Highs between 55 to 65° with average lows in the mid 30s to low 40s. Jackson reported the coldest temperature with a low of 24°. Much of the State experienced freezing temperatures. Most of Ohio received precipitation, just not a lot. Weekly totals were generally under 0.25 in. with many areas getting 0.10 in. or less.

Days suitable for fieldwork 6.5. Pastures, fall seeded crops need rain soon as soils are becoming dry. Soybean harvest is nearly complete. Corn harvest is well underway. Soil moisture 72% short, 28% adequate. Corn moisture 20%. Soybean moisture 11%. Sugarbeet harvest 31% complete. Pasture feed 4% very poor, 21% poor, 41% fair, 31% good, 3% excellent.

**OKLAHOMA:** Temperatures 1.3° below normal northeast to 4.7° below normal south central. Precipitation 0.01 in. Panhandle district to 0.96 in. south central.

Days suitable for fieldwork 5.1. Topsoil 12% short, 81% adequate, 7% surplus. Subsoil 32% short, 68% adequate. Soybeans 87% mature, 88% 1993, 77% avg.; 63% harvested, 41% 1993, 40% avg. Peanuts 7% fair, 72% good, 21% excellent; 95% mature, 83% 1993, 95% avg.; 71% dug, 38% 1993, 61% avg.; 55% combined, NA 1993, NA avg. Cotton 5% poor, 59% fair, 26% good, 10% excellent; 59% harvested, 34% 1993, 21% avg. Wheat 16% fair, 84% good; 95% planted, 97% 1993, 94% avg.; 81% up-to-stand, 81% 1993, 70% avg. Pasture feed 90% normal. Cattle marketings up, feeder prices \$5 per cwt. above previous week.

**OREGON:** Early winter storms hit coastal, Willamette Valley locations, causing record rainfall of 1.50 to 5.00 in. Flooding occurred along streams from northern coast to the Willamette Valley. Northern Cascades received heavy snowfall. Elsewhere 0.10 to 1.00 in. Temperatures 3 to 4° above normal statewide, except coast near normal.

Soil moisture 79% short, 20% adequate, 1% surplus. 1995 winter wheat crop 69% planted, 30% emerged; 9% poor, 28% fair, 57% good, 6% excellent. Fall herbicide, fertilizer applications underway western grass seed fields, needed precipitation to enhance germination, emergence on newly seeded fields. Klamath Basin potato harvest finished. Columbia Basin of State: Onion, carrot, lima bean harvest nearly completed. Willamette Valley: Cauliflower 70% harvested, squash, pumpkin, cole crops harvest continued, hazelnut, walnut harvest nearly finished, new strawberry plantings looked good, late apple, grape harvest winding down. The first Autumn sprays on pear orchards, Rogue Valley. Hood River Valley orchard activity mostly complete, post-harvest sprays underway. Southern coast: cranberry harvest 90% completed. Livestock good. Western pastures received good rainfall, except

southwestern section. Eastern rangelands still extremely dry. Supplemental feeding continued statewide, some hay supplies getting low. Eastern cattle weaning weights average 25 pounds below average. Range, pasture feed statewide 59% of normal.

**PENNSYLVANIA:** Scattered showers early in week followed by pleasant fall conditions. Temperature 50°, 1° above normal. Extremes 18°; 71°. Precipitation 0.21 in., 0.45 in. below normal.

Days suitable for fieldwork 6. Soil moisture 16% short, 82% adequate, 2% surplus. Ensilage corn harvested 96% complete, 95% 1993. Soybean harvest 56% complete, 38% 1993. Potato harvest 96% complete, 95% 1993. Fall plowing 90% complete, 85% 1993. Wheat planted 96% complete, 92% 1993. Barley planted 99% complete, 98% 1993. Fourth cutting alfalfa 81% complete, 75% 1993. Quality of hay made 15% poor, 55% fair, 30% good. Feed from pastures good to excellent. Apple harvest 92% complete, 87% 1993. Grapes harvest 88% complete, 99% 1993. Activities: Making hay; harvesting potatoes, soybeans, corn grain, corn silage; plowing; planting winter small grains; cleaning, repairing equipment; fixing fences; hauling manure; caring for livestock.

**PUERTO RICO:** Rainfall 2.57 in. was 0.83 in. above normal. Highest total rainfall 6.05 in. at Coamo, 5.66 in. at Guayama, 5.60 in. at Central Aguirre. Island temperatures 79° on the coasts, 75 to 76° interior with mean station temperature 82.6° at San Juan WSFO to 64.7° at Cerro Maravilla. Extremes 59°; 95°.

**SOUTH CAROLINA:** Rainfall none. Temperatures 2° below normal in Upstate, 2° above normal in Lowcountry.

Days suitable for fieldwork 5.7. Soil moisture 11% short, 84% adequate, 5% surplus. Tobacco 97% stalks destroyed, 95% 1993, 94% avg. Corn fair to good; 98% harvested, 100% 1993, 99% avg. Cotton 13% fair, 79% good, 8% excellent; 98% open bolls, 100% 1993, 99% avg.; 41% harvested, 67% 1993, 56% avg. Soybeans 15% fair, 79% good, 6% excellent; 93% leaves turning, 95% 1993, 95% avg.; 64% dropping leaves, 74% 1993, 73% avg.; 45% mature, 57% 1993, 58% avg. Apples good; 95% harvested, 94% 1993, 95% avg. Barley 35% planted, 56% 1993, 38% avg.; 22% emerged, 33% 1993, 25% avg. Oats 45% planted, 60% 1993, 46% avg.; 29% emerged, 43% 1993, 29% avg. Peanuts 76% harvested, 73% 1993, 79% avg. Rye 38% planted, 65% 1993, 49% avg. Rye 28% emerged, 48% 1993, 35% avg. Sweet potatoes 51% harvested, 71% 1993, 73% avg. Winter Wheat 20% planted, 12% 1993, 9% avg.; 8% emerged, 7% 1993, 5% avg. Sorghum fair to good; 56% harvested, 69% 1993, 72% avg. Fall hay good; 92% harvested, 90% 1993, 90% avg. Pasture feed 3% poor, 22% fair, 66% good, 9% excellent.

**SOUTH DAKOTA:** Mostly dry, first widespread hard frost of the season. Temperatures near to slightly above normal, except southwest. Extremes 17°; 77°. Precipitation light, heaviest 0.14 in. northwest.

Days suitable for fieldwork 5.8. Topsoil 18% short, 74% adequate, 8% surplus. Subsoil 3% very short, 30% short, 59% adequate, 8% surplus. Winter rye 1% fair, 66% good, 33% excellent. Livestock 2% fair, 78% good, 20% excellent. Feed supply 10% short, 79% adequate, 11% surplus. Pasture feed 81% of normal. Stockwater supply 2% short, 84% adequate, 14% surplus.

**TENNESSEE:** Temperatures between 2 to 6° below normal Statewide. Bristol dropped down to 29° on 27th, while Memphis recorded a low of 37° on 26th. Warmest reading 75° at Memphis on 24th. Precipitation 0.03 to 0.15 in., which occurred mainly in eastern areas. Normal rainfall for the period is around six tenths of an inch.

Days suitable for fieldwork 5.1. Soil moisture 6% short, 88% adequate, 6% surplus. Corn 90% grain harvested, 90% 1993, 88% avg.; cotton 64% harvested, 80% 1993, 72% avg. Burley 40% stripped, 39% 1993, 39% avg. Soybeans 98% shedding, 98% 1993, 98% avg.; 81% mature, 91% 1993, 83% avg.; 40% harvested, 43% 1993, 41% avg. Wheat 51% seeded, 56% 1993, 52% avg.

**TEXAS:** A slow moving cold front through State last week. It moved through High Plains without producing much rainfall. The

front slowed down further in Central Texas. Front combined with a couple upper level disturbances produce moderate amounts rainfall across central, southern, 24th, 25th. Rain showers continued central, south as front gradually moved into Mexico. Showers ended 29th. Many stations south, central, east recorded over an inch of rainfall. As expected all central regions recorded above normal rainfall. The departures ranged from +0.19 in. south central area to +0.48 in. north central area. The below normal departures ranged from -0.14 in. Trans Pecos to -0.77 in. Upper Coast. East Texas also recorded below average departure greater than -0.50 in., at -0.58 in. below normal. All districts recorded below normal temperatures last week, except Trans Pecos which was 1° above normal. The below average departures ranged from -2° Lower Valley, Edwards Plateau, Southern Texas to -7° Low Rolling Plains. Average soil temperatures ranged 54° at Bushland to 71° at Beeville, Eagle Lake. Extremes 43°; 87°.

**Crops:** Corn: early week humid conditions High Plains slowed final harvest operations; however, harvest virtually completed late week. Cotton harvest operations slowed by damp conditions early week; however late week some producers able get back into fields. Cotton 66% normal compared 70% 1993; 94% bolls open; 95% 1993. Peanuts: harvest gained momentum many South Central Texas fields where rainfall widely scattered. Yields, grades continued look good. Harvest slowed in Cross Timbers, Low Plains. Peanut 75% normal compared 70% 1993. Sorghum: harvest activities in Plains dealt setback by damp, humid conditions early week, 97% mature; 99% 1993. Soybeans: many fields remained too wet harvest along Upper Coast. Harvest also slowed many other areas; 78% harvested; 82% 1993. Small grains: planted fields across State continued benefit from additional moisture. Many parts of State need sunny weather to go along with beneficial rainfall. Planting operations slowed by wet conditions. Wheat 67% normal compared 70% 1993. Other crops: Oats 64% planted; 57% 1993. Pecans 19% harvested; 21% 1993. Sugarbeets 14% harvested; 41% 1993. Sunflowers 67% harvested; 70% 1993.

**Commercial Vegetables:** Rio Grande Valley, harvest cucumbers, citrus continued until midweek rainfall halted progress. Some scattered heavy rain may have caused some problems carrot, cabbage fields. Onions continued make good progress. San Antonio-Winter Garden, onion planting continued between showers. Spinach harvest slowed some scattered showers. East Texas, fall harvest operations continued limited basis. Winter vegetables off fair start. Pecan harvest continued across State where conditions allowed. Much state seeing smaller crop than 1993. Some nuts still in shuck continued drop some areas.

**Range and Livestock:** Livestock remained fair to good condition over State. Fall calving well underway. Producers Trans Pecos were selling off some cattle because of short grazing. Fall, winter pastures responded favorably to recent rainfall.

**UTAH:** Temperature 4° above normal; minimums 2° above normal. Out of 40 stations reporting, none reported any precipitation.

Days suitable for fieldwork 6.4. Soil moisture 11% short, 89% adequate. Winter wheat planted for 1995 crop 96%; emerged for 1995 crop 72%, 94% 1993. Corn harvested for grain 72% completed, 39% 1993. Apples harvested 86%, 93% 1993. Pasture, range poor to fair. Major farm activities: Fall tillage, plowing, planting winter wheat, harvesting grain corn, apples, weaning, shipping calves.

**VIRGINIA:** Temperatures near normal. Extremes 24°; 80°. Precipitation near normal.

Days suitable for fieldwork 5.0. Topsoil 45% short, 50% adequate, 5% surplus. Pasture feed 19% poor, 51% fair, 29% good, 1% excellent. Corn for grain harvest 83%, 87% 1993, 84% avg. Corn for silage harvested 100%, NA 1993, NA avg. Soybean 41% fair, 59% good. Soybeans harvested 30%, 28% 1993, 33% avg. Cotton harvested 40%, 62% 1993, 42% avg. Fall apples harvested 100%, 98% 1993, NA avg. Winter apples harvested 98%, 70% 1993, 81% avg. Wheat seeded 45%, 42% 1993, 48% avg. Oats seeded 95%, 88% 1993, 87% avg. Barley seeded 84%, 81% 1993, 84% avg.

Sweet potato harvest 84% completed. Producers continued corn, soybean harvesting. Calf weaning, vaccinations began. Dampness is limiting soybean harvest.

**WASHINGTON:** Temperatures 1° below normal to 2° above normal west; 4° below normal to normal east. Precipitation 1.29 to 4.00 in. west; 0.01 to 2.66 in. east. Precipitation heavy in the west, varied widely in the east.

Days suitable for fieldwork 4.2. Soil moisture 79% short, 21% adequate. Hay, other roughage supplies 2% very short, 10% short, 88% adequate. Range, pasture feed 28% very poor, 54% poor, 10% fair, 8% good. Winter wheat, dryland 3% very poor, 36% poor, 46% fair, 15% good; irrigated, 16% fair, 51% good, 33% excellent. Potatoes 20% fair, 80% good. Corn 25% fair, 75% good. Winter wheat 91% planted, 98% 1993, 97% avg; 63% emerged, 84% 1993, 87% avg. Potatoes 96% harvested, 90% 1993, 92% avg. Corn silage 100% harvested, 98% 1993, average not available. Corn grain 65% harvested, 37% 1993, 41% avg. Winter wheat seeding nearly finished. Apple harvest finished except for Fuji variety. Record cranberry harvest reported. Pastures improved with recent rains, but still of little grazing value. Supplemental feeding of livestock continued.

**WEST VIRGINIA:** Temperature 48°. Extremes 20°; 78°. Precipitation 0.01 in.

Days suitable for fieldwork 6.3. Soil moisture 8% very short, 84% short, 8% adequate. Hay third cutting 100%, 100% 1993, 93% avg. Corn harvested 70%, 80% 1993, 64% avg. Soybeans dropping leaves 100%, 100% 1993; harvested 65%, 55% 1993. Wheat sown 68%, 55% 1993, 57% avg. Barley sown 73%, 100% 1993. Apples 100% good. Pasture feed 90% fair, 10% good; 87% of normal. Cattle 13% fair, 87% good. Sheep 6% fair, 94% good. Farm activities: Sowing barley, wheat, harvesting corn, silage, soybeans, apples, equipment maintenance.

**WISCONSIN:** Temperature 45°, 1° above normal. Extremes 21°; 73°. Precipitation trace to 0.10 in.

Days suitable for fieldwork 6.0. Soil moisture 7% short, 75% adequate, 18% surplus. Pasture feed 81%, 77% 1993, 74% avg. Corn harvested for grain 49%, 24% 1993, 42% avg. Corn silage harvested 93%, 88% 1993, 92% avg. Soybeans harvested 80%, 88% 1993, 80% avg. Fall tillage 33%, 40% 1993, 37% avg. Hay, roughage supplies 1% short, 82% adequate, 17% surplus. Continued good weather from last week into this week has been great for harvesting. Both corn, soybeans have dried down enough for combining in most areas of the State. The crops are coming off as fast as the machines can go. The only thing slowing harvesting down is the wet soil in low lying areas. Corn harvesting is going into full swing with a lot of farmers finishing up on their soybeans. With some corn moisture reported at 13%, combines are going form early in the morning to late at night in most parts of the State. Higher than average corn yields are starting to cause storage problems for a lot of farmers. Soybean harvest is starting to wind down with 80% combined. The remaining acres are going slow due to excessive moisture in the fields. Yields have been reported as average to good. Hay harvest is winding down with most farmers focusing on getting their good corn crops off. Of the hay being put up, the quality ranged from average to good. Fall tillage jumped nine percentage points this week. Christmas tree harvest has begun this week in Wood county.

**WYOMING:** Temperatures above normal but precipitation was below normal. Afton, Moran, Thermopolis were the warm spots averaging 5° above normal. Precipitation was sparse last week with most areas receiving less than a tenth of an inch. The exceptions were a few areas in the Northwest receiving one half to over three quarters of an inch. Diversion Dam received the largest amount of precipitation at 0.84 in.

Days suitable for fieldwork 5.3. Topsoil 20% short, 80% adequate. Subsoil 56% short, 44% adequate. Sugarbeets 93% harvested, 85% 1993, 90% avg. Corn 61% harvested, 46% 1993, 41% avg. Cattle, calves moved from summer ranges 96%, 87% 1993. Sheep, lambs moved from summer ranges 98%, 85% 1993. Percent of livestock feed now obtained from pastures, ranges 78%.

# International Weather and Crop Summary

## HIGHLIGHTS

October 23 - 29, 1994

**NORTHWESTERN AFRICA:** Preparations for winter grain planting remained in the early stages.

**SOUTH AFRICA:** Rain in eastern crop areas improved prospects for corn and sugarcane.

**SOUTH ASIA:** Rain in southern India benefited rabi grains, oilseeds, and cotton.

**SOUTHEAST ASIA:** More heavy rain and flooding hit rice areas of southern Vietnam.

**EASTERN ASIA:** Dry weather across most of China allowed summer crop harvesting to progress rapidly.

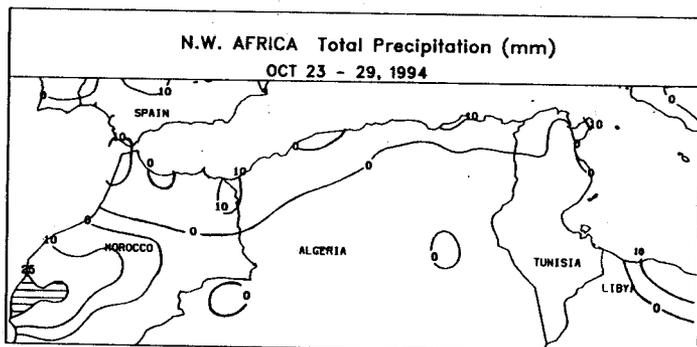
**AUSTRALIA:** Rain boosted soil moisture for eastern summer crop planting and establishment, but arrived too late to benefit wheat.

**SOUTH AMERICA:** Rain benefited crops in southern Brazil, while freezing temperatures possibly damaged winter wheat in south-central Argentina.

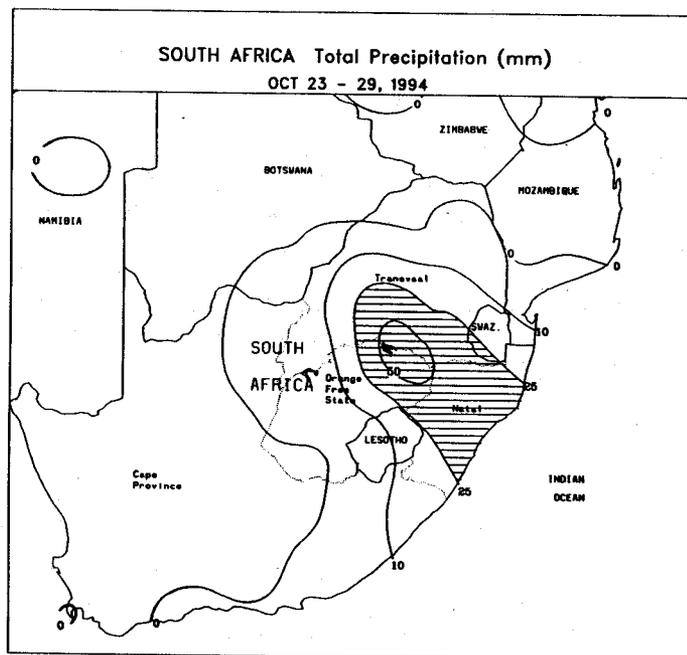
**MEXICO:** Drier weather prevailed across the main corn belt, favoring summer crop harvesting.

**EUROPE:** Wet weather slowed harvest progress.

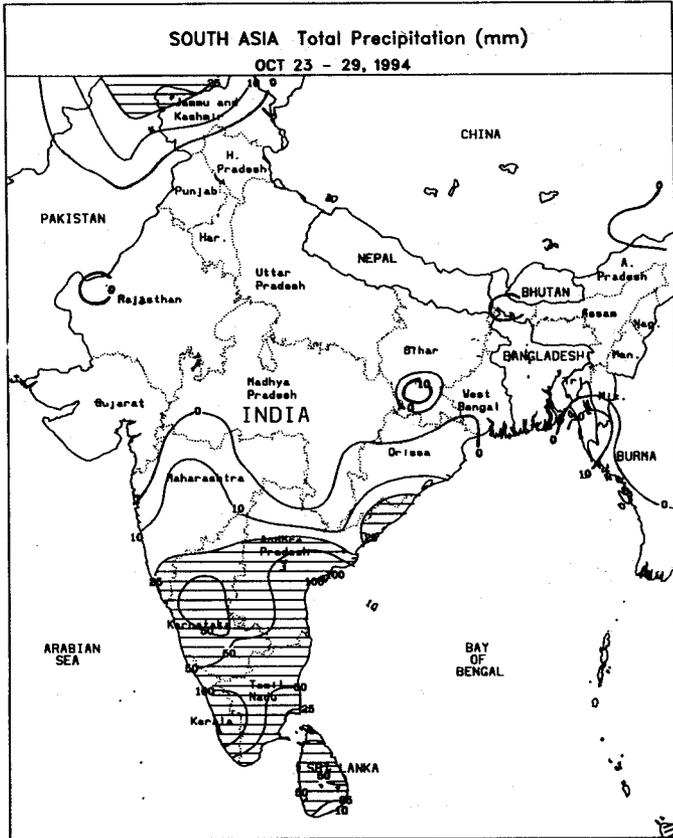
**FSU-WESTERN:** The first significant rain since mid-June in eastern Ukraine improved moisture for winter wheat development, but adverse dryness continued over southern Russia.



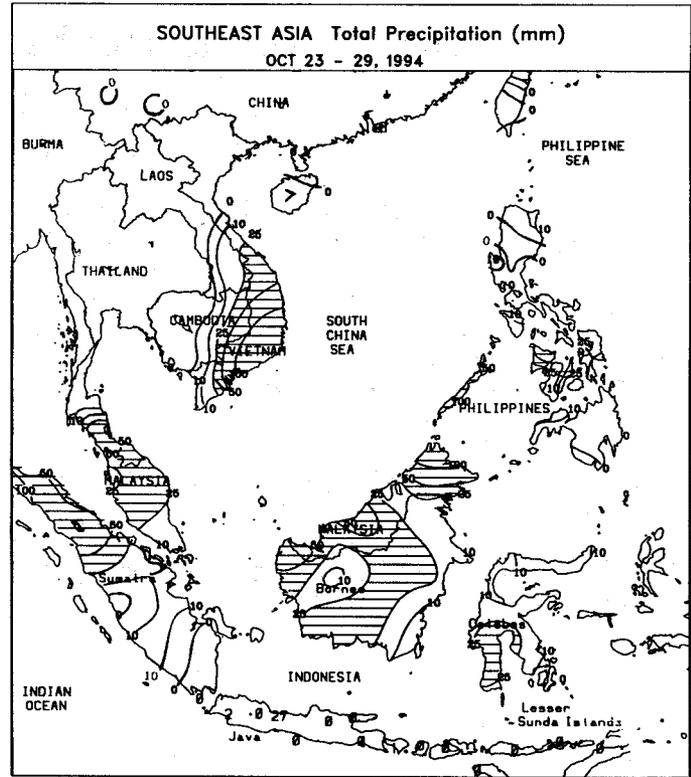
**NORTHWESTERN AFRICA:** Preparations for winter grain planting remained in the early stages over most of the region. Light to moderate showers (10-49 mm) over southern Morocco helped to moisten topsoils prior to winter grain planting. Little, if any, precipitation covered northern Morocco, Algeria, and Tunisia. Weekly average temperatures were 2-5 degrees C above normal over the region.



**SOUTH AFRICA:** Moderate to heavy showers (15-77 mm) in eastern crop areas boosted topsoil moisture for corn germination and establishment. The rain also benefited sugarcane areas of Natal-Kwazulu. Farther west, mostly dry, warm weather favored winter wheat harvesting but further reduced soil moisture for summer crop germination. November is the optimal period for corn planting.

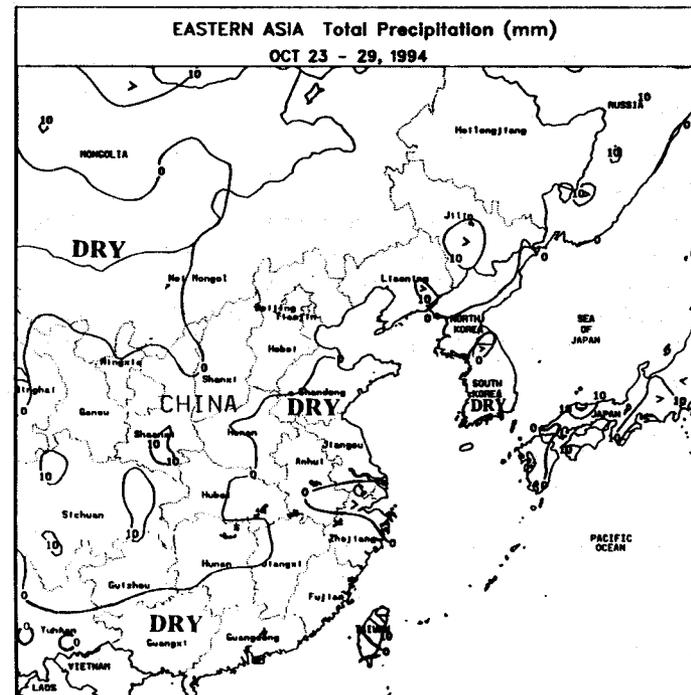


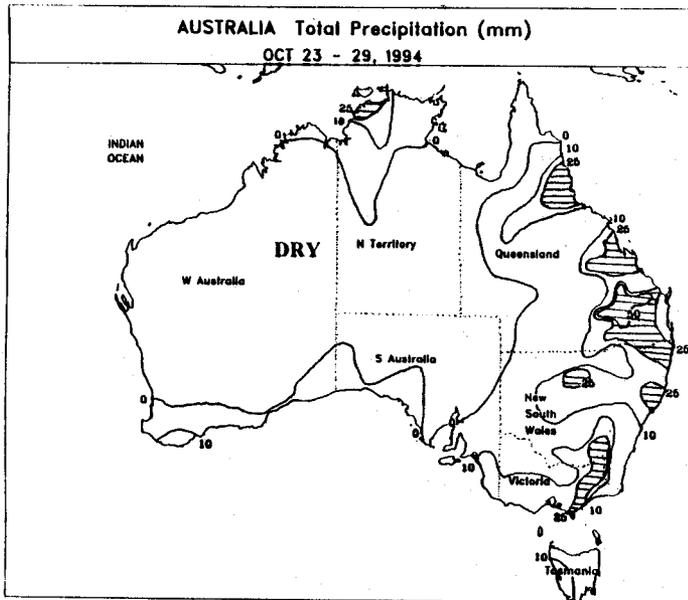
**SOUTH ASIA:** Moderate to heavy showers (25-50 mm or more, with a few locations receiving 100-210 mm) over southern India maintained favorable conditions for immature grains, oilseeds, and cotton. Seasonably dry, warm weather elsewhere in India favored summer crop harvesting, and in the east, benefited rice planting. In Pakistan, rain (1-23 mm) boosted moisture reserves for northern winter grains and oilseeds. Dry, warm weather in Pakistan's central and southern crop areas favored maturing grains and cotton.



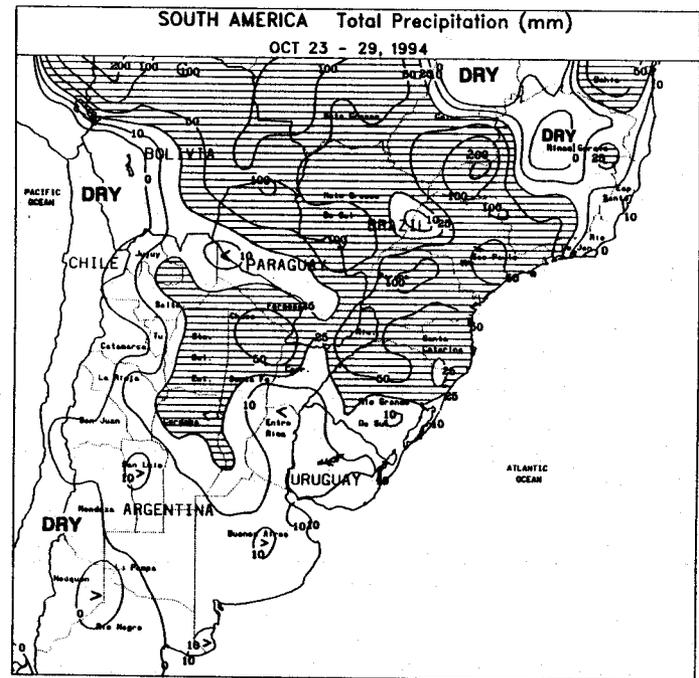
**SOUTHEAST ASIA:** More heavy rain (50-185 mm) hit southern Vietnam, partly caused by the remnants of Typhoon Teresa as it approached the Mekong Delta before dissipating. The rain caused additional flooding and damage to rice. Seasonably dry weather elsewhere in Indochina favored drydown of grains and sugarcane prior to harvest. Farther south, widespread rain (25-50 mm or more) covered Malaysia and northern Sumatra, Indonesia, but rainfall was mostly light and scattered elsewhere. In Java, a few locations received more than 25 mm, but overall conditions were favorable for widespread rice planting. In the Philippines, light rain (25 mm or less) covered most crop areas.

**EASTERN ASIA:** Mostly dry weather prevailed across eastern Asia (China, South Korea, and Japan), allowing summer crop harvesting to progress rapidly. Temperatures averaged near normal across the North China Plain and southeast China.

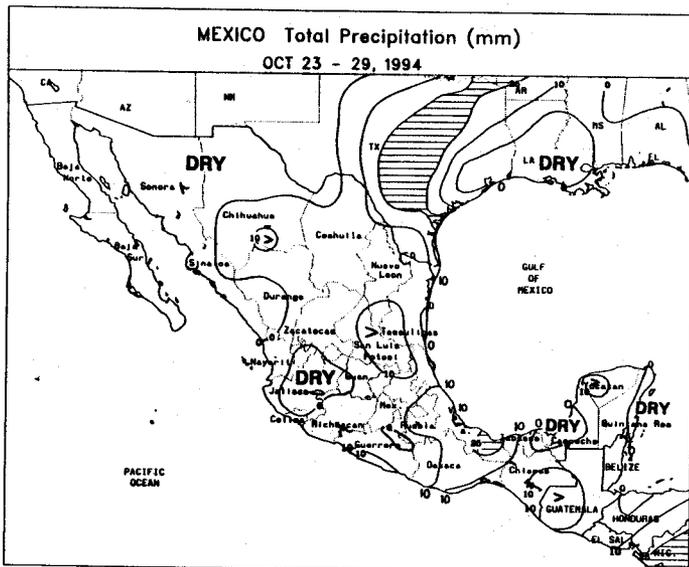




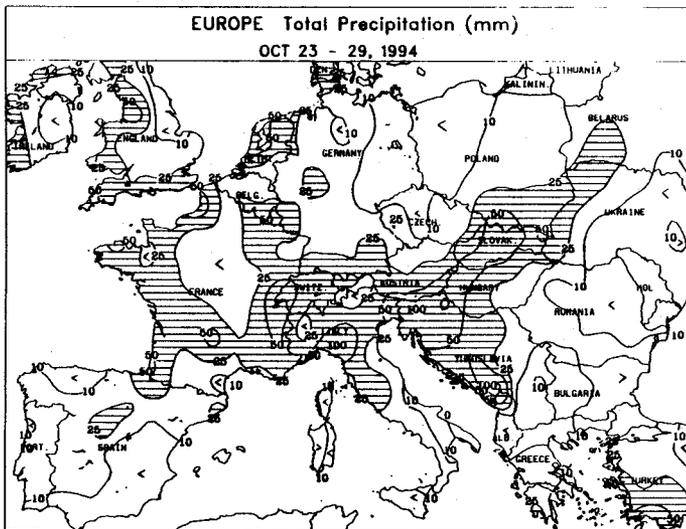
**AUSTRALIA:** Widespread light to moderate rain (8-40 mm, with scattered amounts greater than 50 mm) fell across southern Queensland, boosting soil moisture and reservoir levels for summer crop planting. New South Wales and Victoria received lighter amounts (5-20 mm). The rains came too late to benefit wheat in southern Queensland and northern New South Wales, where wheat is ready to be harvested. Due to the severity of the drought, additional rain is still needed across the east and south. Little or no rain fell across the southern and western wheat areas, stressing filling wheat. Temperatures averaged near normal in the west and 2-3 degrees C above normal in the southeast.



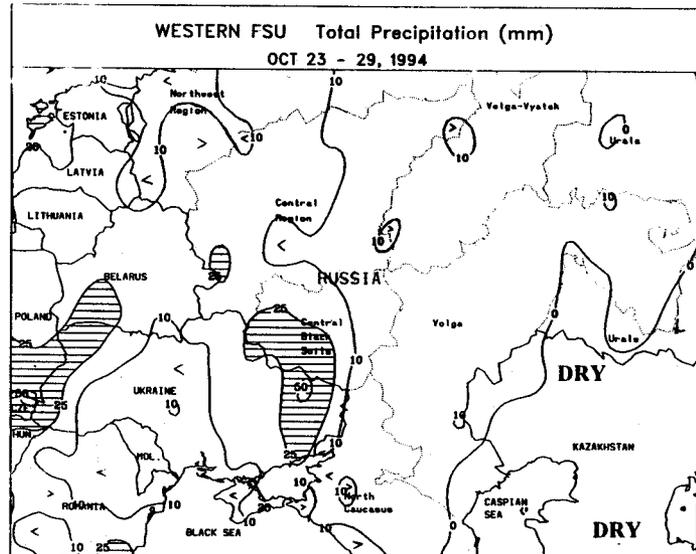
**SOUTH AMERICA:** Widespread showers (15-50 mm) continued to fall across the major crop areas of southern Brazil, increasing soil moisture for corn and soybean planting. Heavy showers (80-130 mm) greatly benefited coffee and citrus in Sao Paulo and southern Minas Gerais, but possibly caused flooding across northern Parana and southern Mato Grosso do Sul. Temperatures still averaged 2-4 degrees C above normal in that region. In Argentina, freezing temperatures (-1 to -3 degrees C) were reported across southwestern Buenos Aires, possibly damaging reproductive winter wheat. Moderate rain (15-30 mm) fell across northern Buenos Aires, southern Santa Fe, and central Cordoba, aiding filling wheat and germinating corn. The rest of Buenos Aires and La Pampa received only light rain (less than 5 mm). Moderate to heavy rain (30-80 mm) slowed cotton planting across northern Argentina. Temperatures averaged 2-4 degrees C below normal across central Argentina.



**MEXICO:** Mostly dry weather prevailed across the main corn belt, aiding summer crop maturation and harvesting. The rainy season typically ends by late October. Light to moderate rain (10-35 mm) fell across east-central Mexico, benefiting sugarcane and coffee. Scattered rain (10-25 mm) fell across the Yucatan Peninsula, keeping soils moist for reproductive to filling corn. Temperatures averaged 2-4 degrees C above normal across the main corn belt, aiding maturing summer crops.



**EUROPE:** Wet weather covered a large portion of Europe extending from extreme southern England to northern Spain, across northern Italy to northern Hungary and southern Poland. Rainfall averaged 20-75 mm, with 75-120 mm in northwestern Italy and scattered areas of former Yugoslavia. The wetness continued to interfere with corn and sugarbeet harvesting. Beneficial rain (10-20 mm) fell over western Germany and eastern Poland, boosting topsoil moisture for winter crops. Light showers (1-10 mm) dampened topsoils in western Poland, Romania and Bulgaria, and southern Spain. Lingering wetness (20-50 mm) from the previous week's inundating rainfall covered southern Greece. Weekly temperatures averaged near to slightly above normal across Europe, with lowest minimum temperatures barely reaching the freezing level in most crop areas.



**FSU-WESTERN:** A warming trend followed last week's unseasonable cold, allowing further establishment of winter grains over northern Russia (Central Region, upper Volga Valley, and Volga Vyatsk), Belarus, and the Baltic States. Winter grains in these areas usually enter dormancy in early November. The first significant rain since mid-June covered the eastern Ukraine, where rainfall ranged from 12 to 60 mm. While the rain improved topsoil moisture levels, the period of time for sufficient crop establishment prior to dormancy is diminishing. Winter wheat in Ukraine typically enters dormancy in mid-November. Elsewhere, mostly dry weather over southwestern Ukraine and southern Russia (North Caucasus and lower Volga Valley) continued to adversely affect winter wheat development, but the dryness favored corn and sunflower harvesting.

## Planting Prospects Mixed for FSU Winter Grains

Weather conditions for planting and establishment of 1995 winter grain crops in the former Soviet Union (FSU) have been mixed. In winter grain areas from the Baltic States and Belarus eastward through northern Russia (Northwest Region, Central Region, Volga Vyatsk, and the upper Volga Valley), timely planting rains followed by mild September weather favored emergence and crop establishment. The winter grain crop is now hardening prior to entering dormancy, usually in early November.

In contrast, weather conditions have been unfavorable for winter wheat in traditional growing areas of Ukraine and southern Russia (North Caucasus, lower Volga Valley, and the eastern portion of the Central Black Soils Region) where a drought began in early summer and has persisted into this Fall's planting season. In addition, the warmest September in at least the last 44 years further exacerbated the dry conditions, delaying winter wheat planting beyond optimum dates as producers waited for rain.

In figure 1, the optimal winter grain planting dates are overlaid on a map showing concentrations of historical winter wheat pro-

duction. The areas receiving less than 50 percent of normal rainfall during this Fall's planting season are shaded. Figure 2 shows the average cumulative precipitation during September 1 - October 30, 1994 of a representative group of weather stations in the North Caucasus region of Russia. The long-term normal (30 years) is also shown. Since September 1, about 31 mm (56 percent of normal) of total precipitation fell over the region, most of which fell after October 18. This compares with the normal cumulative precipitation of 55 mm.

The dryness in the North Caucasus was accompanied by unusually warm weather (see figure 3) which began around September 5 and lasted until October 13. Similar weather conditions covered the lower Volga Valley region of Russia as well as the southern and eastern Ukraine. Since October 22, although light to moderate showers have improved topsoil moisture levels, especially in Ukraine, dryness still remains a concern as winter approaches.

Last year, conditions were unfavorably wet for planting in the northern tip of the North Caucasus and Volga Valley, while winter wheat areas in the central North Caucasus were

unfavorably dry. In Ukraine, adequate planting moisture favored winter wheat in northern and eastern areas, but dryness in the southern Ukraine limited plant establishment. Severe cold in early November in the Ukraine and southern Russia resulted in the highest winterkill since 1987.

The dryness in Ukraine and southern Russia has created serious concern about prospects for the 1995 winter grain crop, especially winter wheat. Time is diminishing for sufficient

early establishment since winter grains typically enter dormancy by mid-November. If early growth is stunted or crops are minimally established as they are now, the crop's ability to withstand low temperatures are reduced, and vulnerability to potential winterkill conditions increases. Thus, the weather during the remainder of the fall and over the winter will play a major role in determining potential winterkill and prospects for next year's crop.

--Tom Puterbaugh and Dave Secora

## FORMER SOVIET UNION (WESTERN) Drought Area and Optimum Winter Grain Planting Dates

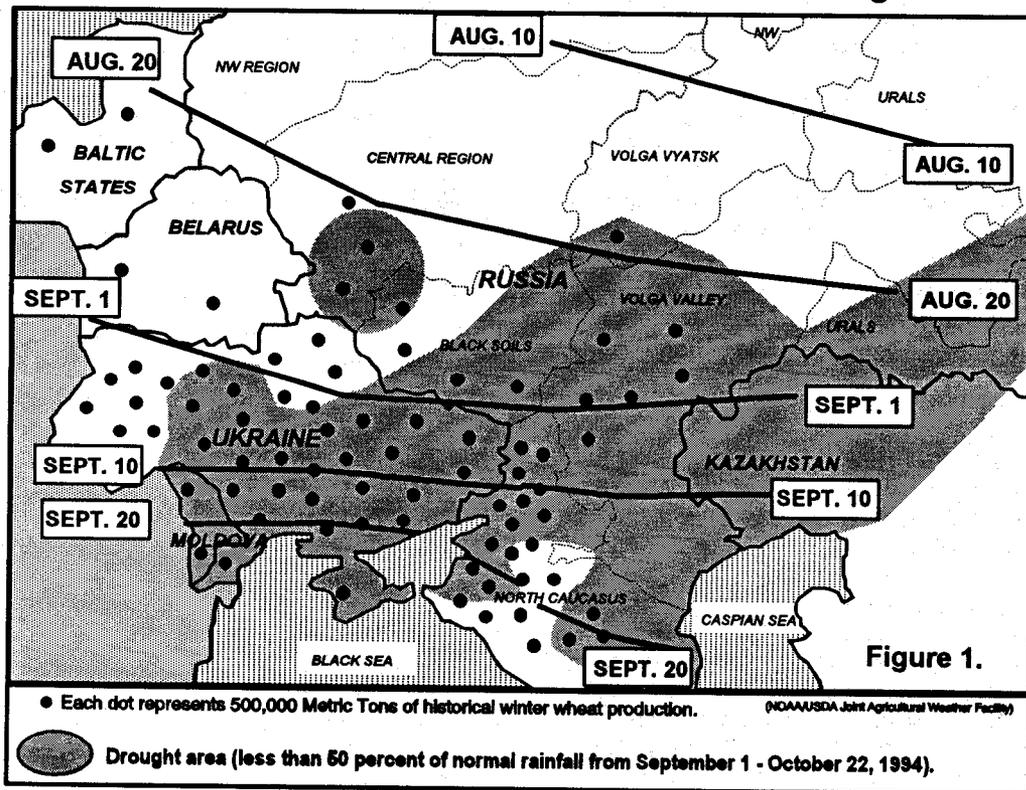


Figure 1.

### NORTH CAUCASUS, RUSSIA

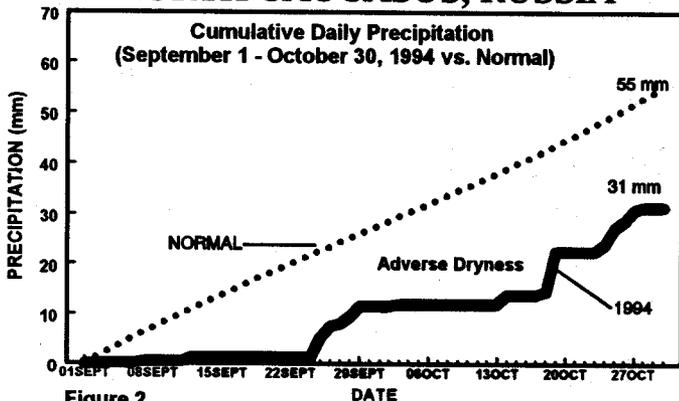


Figure 2.

### NORTH CAUCASUS, RUSSIA

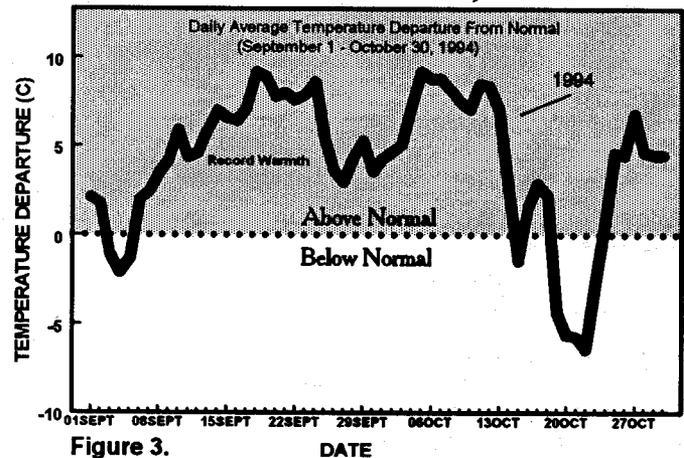


Figure 3.

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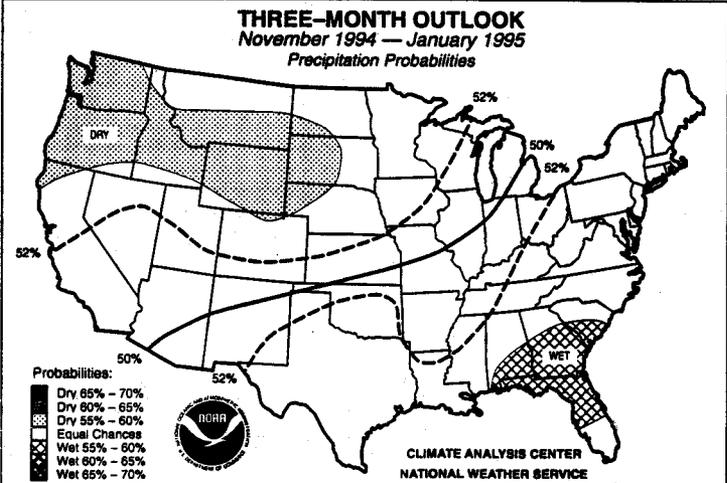
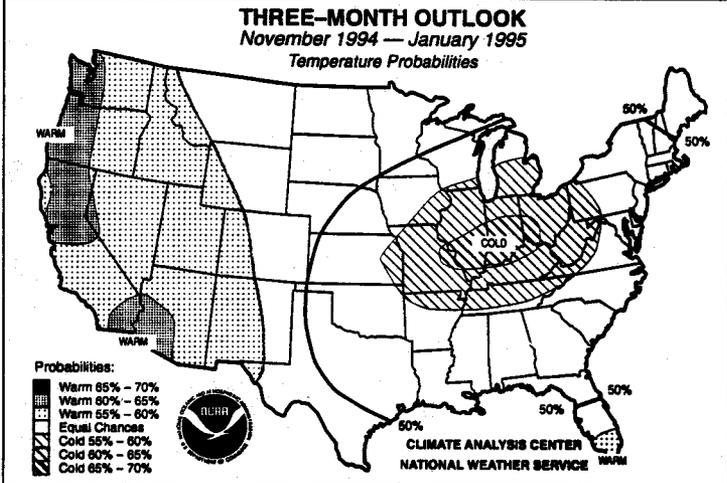
(Continued from front cover)

air arrived forcefully, however, breaking daily records in several locations, including Kansas City, MO (28°F on Tuesday), Lincoln, NE (20°F on Wednesday), and Fort Smith, AR (30°F on Wednesday). But by week's end, warmth returned to the Nation's mid-section, a combination of downslope winds and warm-air advection in advance of a dynamic storm system. On Friday, daily-record highs included 85°F in Pueblo, CO and 83°F in North Platte, NE. A day later, El Paso, TX attained 86°F, the 28th time this year a daily-record high has been tied or broken.

Windy weather whipped the Pacific Northwest at midweek, with wind gusts topping 75 mph along the Oregon coast and in the Oregon Cascades above 7,000 feet. Tillamook, OR clocked a gust to 93 mph on Wednesday afternoon. High winds spread into the chinook zones of the northern and central Plains by Thursday, where winds gusted to 62 mph at Livingston, MT, and to 75 mph at Bordeaux, WY.

Portland, OR endured storm-total rainfall of more than 5 inches, 4.44 inches of which fell during a 24-hour period on October 26-27, obliterating their all-time 1-day record of 2.62 inches, set during November 1973. Other 1-day totals in Oregon included 2.53 inches on Thursday in Salem (an October record), 2.41 inches on Wednesday in Astoria, and 2.22 inches on Thursday in Eugene. Due to previously dry conditions, flooding was confined to small streams and urban areas. East of the Cascades, 1.29 inches of rain fell in Spokane, WA, but only 0.21 inches dampened Pendleton, OR.

Elsewhere, early-week showers in Texas deposited local totals in excess of 2 inches near Dallas and San Antonio. Houston received no precipitation, permitting recovery from last week's flooding. Damp weather returned to Peninsular Florida late in the week after a 10-day respite.



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