

# WEEKLY WEATHER AND CROP BULLETIN

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

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

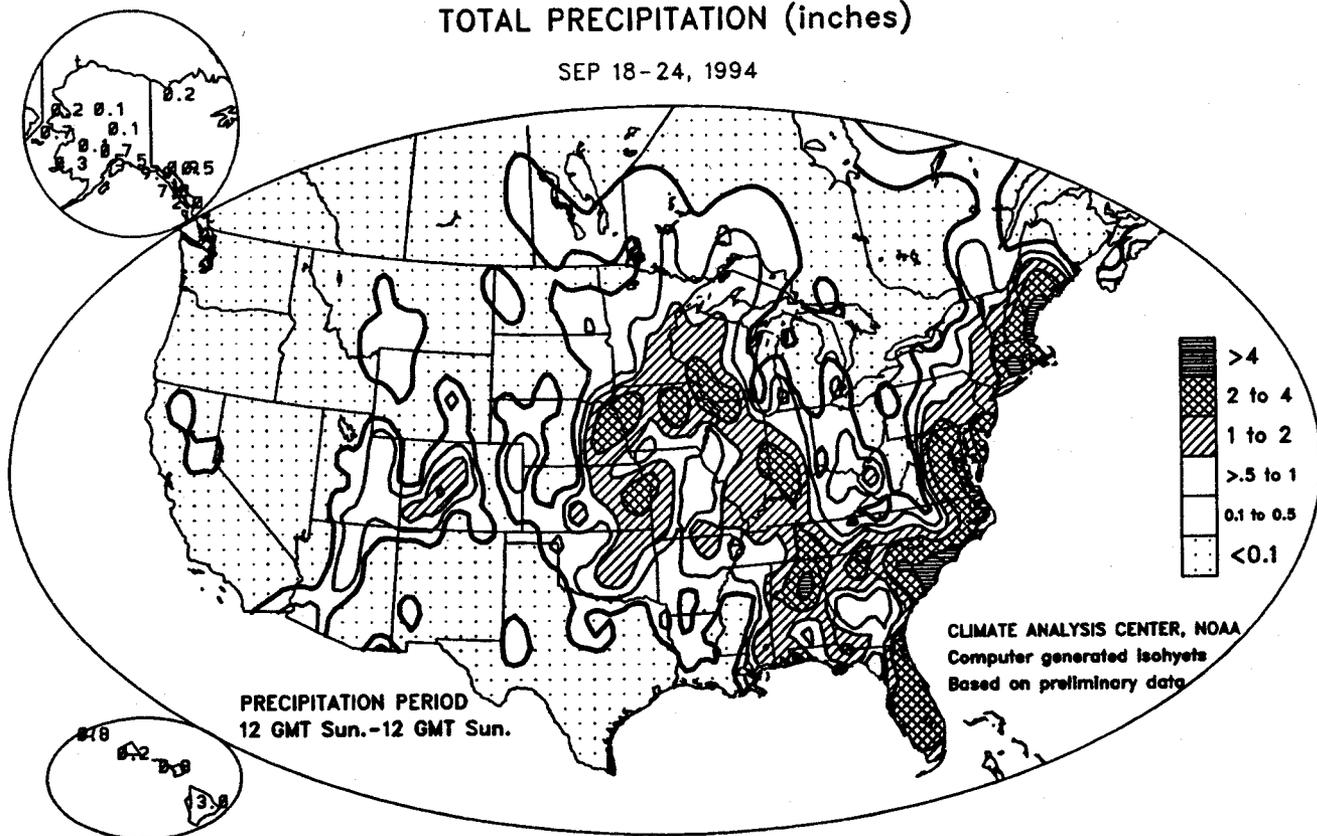
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Washington, D.C.

September 27, 1994

## TOTAL PRECIPITATION (inches)

SEP 18-24, 1994



## HIGHLIGHTS

September 18 - 24, 1994

Dryness intensified in the Northwest, and temperatures soared to as much as 10°F above normal. Farther east, a storm system plunged into the Plains, dragging cool, damp air southward and ending the Midwest's recent spell of warm, dry weather. Simultaneously, another storm surged northward along the east coast, lashing coastal regions with heavy rain, high winds, and rough surf.

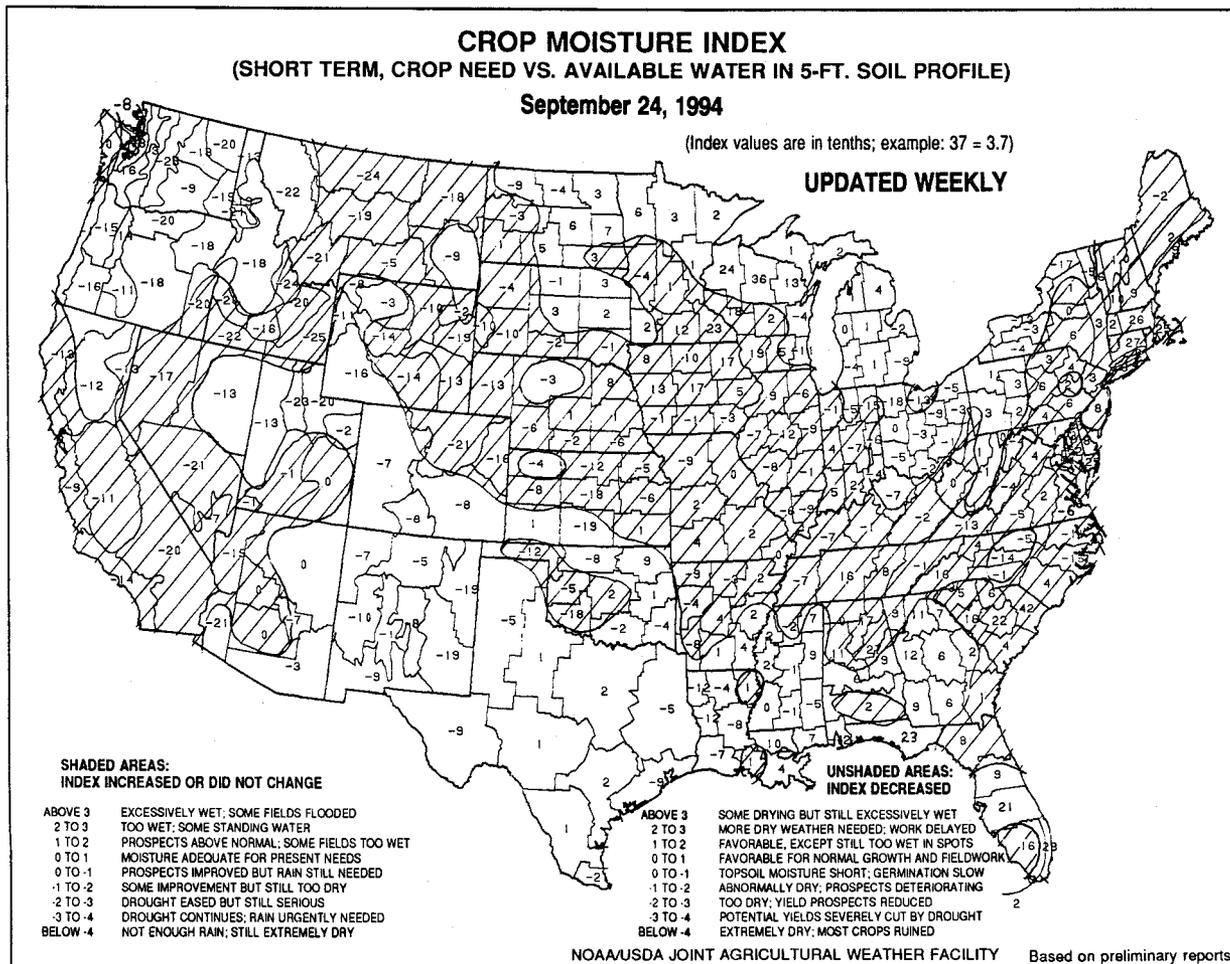
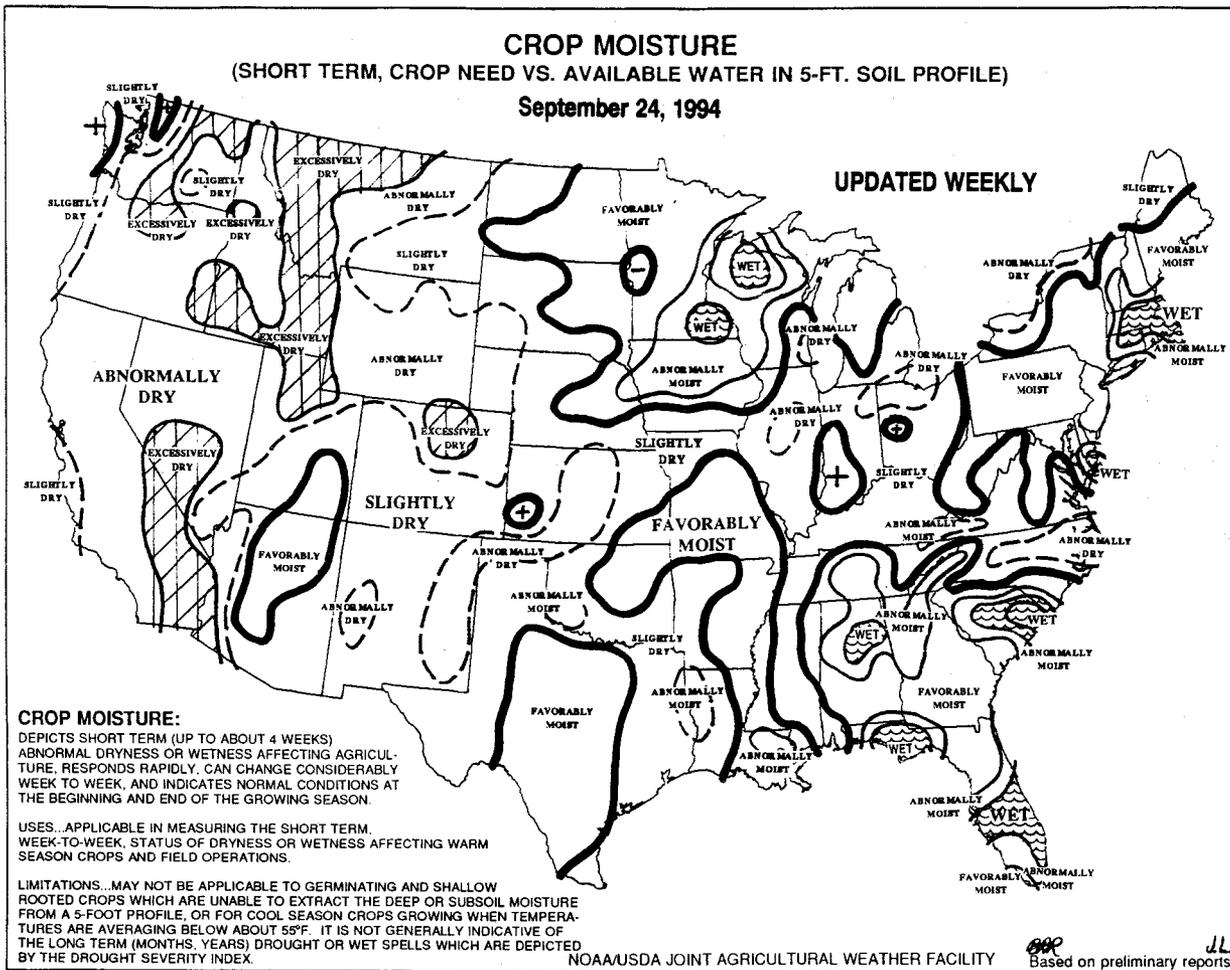
Early in the week, dry weather covered much of the Nation, except the eastern Carolinas and Hawaii. In Wilmington, NC, 4.46 inches of rain fell in 24 hours on Sunday and Monday. Florence, SC recorded 2.45 inches during the same period. Hilo, HI amassed 9.43 inches on Monday en route to a 3-day (Sunday to Tuesday) total of 12.61 inches.

(Continued to p. 7)

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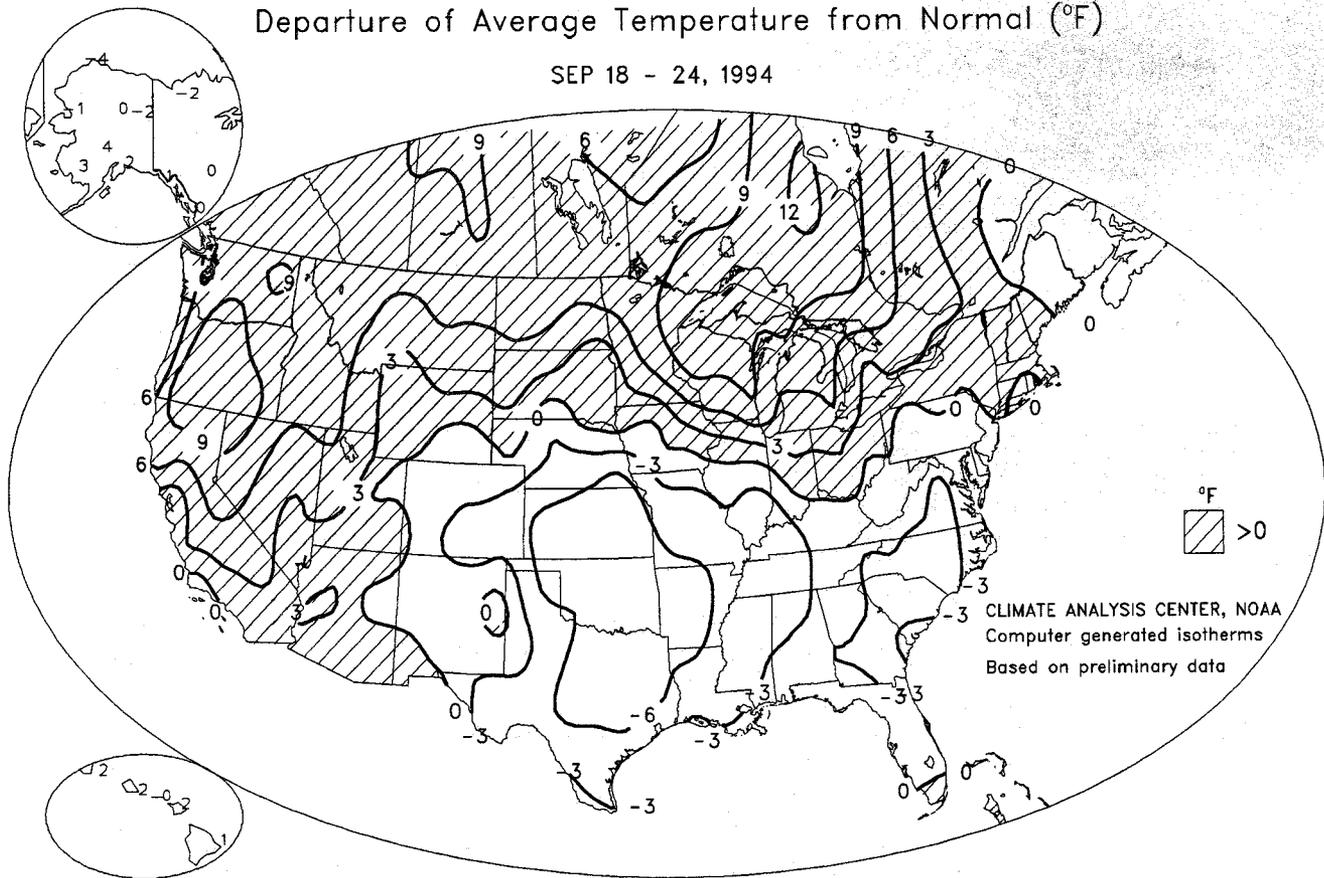
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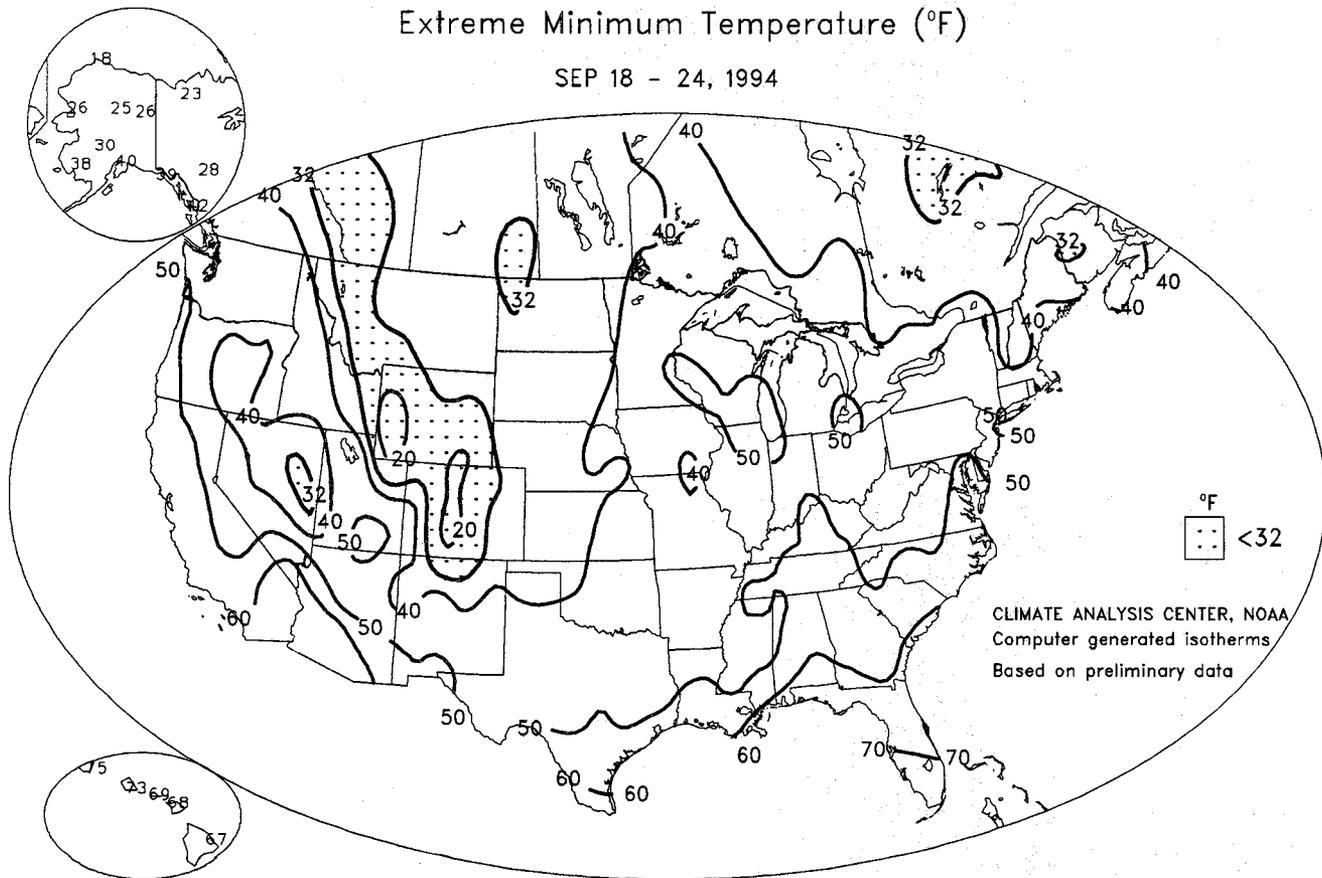
### Departure of Average Temperature from Normal (°F)

SEP 18 - 24, 1994



### Extreme Minimum Temperature (°F)

SEP 18 - 24, 1994



# National Weather Data for Selected Cities

Weather Data for the Week Ending September 24, 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	80 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																			TEMP. °F	PRECIP.		
AL BIRMINGHAM	79	59	82	56	69	-3	3.6	2.7	2.5	4.7	147	47.0	113	96	60	0	0	0	0	2	2	
MOBILE	84	65	88	60	75	-2	.3	-1.0	.3	1.8	36	41.9	83	96	54	0	0	0	1	0	0	
MONTGOMERY	84	63	86	60	74	0	.2	.1	.1	4.6	150	45.0	105	91	53	0	0	0	3	0	0	
AK ANCHORAGE	54	43	58	40	49	2	.2	-.5	.1	1.3	61	7.5	68	85	61	0	0	0	5	0	0	
BARROW	28	21	32	18	24	-4	.4	-.1	-.1	.3	68	3.6	105	93	79	0	0	0	7	1	0	
FAIRBANKS	56	29	60	25	43	0	.1	-.1	-.1	.6	75	6.8	82	92	42	0	0	0	6	2	0	
JUNEAU	55	46	57	42	50	2	2.8	1.1	2.0	6.4	122	32.8	92	100	78	0	0	0	3	2	2	
KODIAK	54	40	57	35	47	-1	3.8	2.2	1.6	6.5	119	60.4	131	94	67	0	0	0	6	3	3	
NOME	47	38	51	28	43	2	.7	.1	.5	1.9	94	13.6	120	82	62	0	0	0	4	0	0	
AZ PHOENIX	96	74	103	67	85	1	.2	.0	.2	1.7	241	4.5	85	52	21	6	6	0	1	0	0	
PRESCOTT	82	53	87	50	67	4	.4	.0	.3	1.8	107	10.6	70	82	24	0	0	0	2	0	0	
TUCSON	96	70	100	62	83	4	.4	-.4	-.4	1.4	100	5.3	59	50	19	6	6	0	0	0	0	
YUMA	98	76	107	69	87	2	1.4	1.3	1.3	1.4	535	2.1	98	59	23	6	6	0	2	1	0	
AR PORT SMITH	77	51	86	45	64	-8	-.2	-.6	-.2	.3	10	39.3	133	95	43	0	0	0	1	0	0	
LITTLE ROCK	76	56	83	49	66	-6	.7	-.4	.6	1.8	49	42.4	121	87	47	0	0	0	3	1	0	
CA BAKERSFIELD	93	66	100	62	80	4	-.1	.0	-.1	.1	73	4.3	106	50	21	5	0	0	1	0	0	
EUREKA	62	54	67	51	58	1	-.1	-.2	-.1	.1	8	19.5	88	94	63	0	0	0	1	0	0	
FRESNO	92	64	98	59	78	5	1	-.0	-.0	1.2	6.3	88	73	23	4	0	0	0	1	0	0	
LOS ANGELES	75	63	80	62	69	0	-.0	-.1	-.1	-.0	6.2	75	90	46	0	0	0	0	0	0	0	
REDDING	99	59	106	57	79	6	-.0	-.2	-.0	-.0	15.0	75	62	15	6	0	0	0	0	0	0	
SACRAMENTO	91	56	99	53	74	3	-.1	-.1	-.1	-.0	6.7	61	98	36	5	0	0	0	0	0	0	
SAN DIEGO	78	67	84	66	72	1	-.0	-.1	-.0	-.0	8.2	126	89	42	0	0	0	0	0	0	0	
SAN FRANCISCO	72	57	78	54	64	0	-.1	.0	.1	.1	91	10.8	87	90	49	0	0	0	1	0	0	
CO DENVER	75	44	85	32	60	-1	-.3	-.1	-.3	-.4	40	7.9	62	80	26	0	0	1	1	0	0	
GRAND JUNCTION	80	50	85	46	65	-1	-.1	-.2	.1	.8	99	4.4	60	68	21	0	0	0	2	0	0	
PUEBLO	80	39	87	31	60	-4	-.1	-.1	.0	.1	14	12.9	134	81	23	0	0	1	2	0	0	
CT BRIDGEPORT	73	56	79	49	64	0	2.7	2.0	2.0	3.1	128	31.7	103	85	50	0	0	0	3	1	0	
HARTFORD	73	51	81	45	62	0	3.9	3.0	3.1	4.4	146	40.5	127	94	53	0	0	0	3	1	0	
DC WASHINGTON	75	58	80	56	66	-3	1.6	.8	1.5	2.1	78	31.8	111	93	55	0	0	0	2	1	0	
FL PANAMA CITY	82	70	84	65	76	-1	1.3	.1	1.3	5.4	117	40.2	78	95	68	0	0	0	1	1	0	
DAYTONA BEACH	86	69	91	63	77	-1	2.9	1.5	1.5	5.2	101	45.6	123	100	64	2	0	0	4	2	0	
JACKSONVILLE	83	68	88	61	75	-4	4.8	3.2	4.7	9.5	165	49.2	126	99	71	0	0	0	5	1	0	
KEY WEST	89	77	90	76	83	0	.6	-.7	.4	2.9	61	24.6	84	89	66	2	0	0	4	0	0	
MIAMI	88	76	90	73	82	1	.5	-1.2	.4	13.6	219	56.2	127	91	65	1	0	0	4	0	0	
ORLANDO	88	70	90	67	79	-2	1.8	.5	.8	6.0	118	50.5	125	99	64	2	0	0	4	2	0	
TALLAHASSEE	85	68	91	64	77	-1	1.8	.6	1.5	10.4	221	71.6	135	93	60	1	0	0	2	1	0	
TAMPA	87	71	89	68	79	-1	.2	-1.0	.2	6.1	121	40.1	108	94	62	0	0	0	3	0	0	
WEST PALM BEACH	88	73	90	71	80	-1	1.3	-.4	-.7	8.3	146	54.5	123	95	63	1	0	0	3	2	0	
GA ATLANTA	78	64	84	60	71	0	2.8	2.0	2.2	6.4	230	51.2	132	92	57	0	0	0	3	2	0	
AUGUSTA	81	58	86	50	70	-3	.2	-.5	.2	.2	9	32.8	93	97	51	0	0	0	1	0	0	
MACON	80	60	86	53	70	-4	.2	-.4	.1	1.7	74	47.7	137	99	56	0	0	0	3	0	0	
SAVANNAH	83	65	88	61	74	-1	.7	-.2	.6	5.3	140	40.2	98	99	60	0	0	0	4	1	0	
HI HILLO	84	71	86	67	77	1	13.0	11.1	9.4	22.6	332	130.5	143	93	73	0	0	0	5	3	0	
HONOLULU	91	77	95	73	84	3	.2	-.1	.1	.2	43	12.2	96	81	56	5	0	0	3	0	0	
KAHULUI	88	73	93	68	81	2	.8	.7	.8	1.1	457	10.5	77	81	59	2	0	0	2	1	0	
LIHUE	85	76	87	75	81	2	.8	-.1	.4	.8	45	21.1	77	81	65	0	0	0	3	0	0	
ID BOISE	87	51	92	45	69	8	.0	-.2	.0	.1	12	5.1	61	50	16	1	0	0	0	0	0	
LEWISTON	87	55	90	50	71	9	.0	-.2	.0	.3	41	6.6	72	46	18	1	0	0	0	0	0	
POCATELLO	83	38	89	33	61	4	.0	-.2	.0	-.0	3	5.1	59	81	13	0	0	0	0	0	0	
IL CHICAGO	78	57	85	52	67	5	.5	-.4	.2	.8	27	21.1	77	87	48	0	0	0	3	0	0	
MOLINE	75	52	85	49	64	1	.6	-.3	.3	1.3	39	23.8	78	92	55	0	0	0	3	0	0	
PEORIA	77	53	86	49	65	0	.9	.0	.8	1.2	37	16.2	58	89	43	0	0	0	3	1	0	
QUINCY	74	50	83	41	62	-3	.1	-1.0	.1	.3	8	14.5	48	82	42	0	0	0	3	0	0	
ROCKFORD	75	55	83	52	65	4	.2	1.4	1.3	3.7	118	27.5	98	98	56	0	0	0	3	1	0	
SPRINGFIELD	77	51	85	43	64	-2	.7	-.1	.6	.8	31	27.6	103	90	41	0	0	0	2	1	0	
IN EVANSVILLE	77	53	85	46	65	-4	.9	-.1	.4	2.2	87	24.6	72	90	44	0	0	0	2	0	0	
FORT WAYNE	81	52	86	47	66	3	.3	-.3	.3	.9	39	22.3	86	92	39	0	0	0	1	0	0	
INDIANAPOLIS	78	55	83	49	66	1	1.7	1.1	1.6	1.9	82	25.4	84	88	40	0	0	0	2	1	0	
SOUTH BEND	78	57	84	50	67	5	.8	-.1	.8	2.8	96	25.6	89	87	43	0	0	0	2	1	0	
IA DES MOINES	74	51	86	44	62	1	.6	-.2	.4	2.7	86	22.6	83	87	50	0	0	0	3	0	0	
SIOUX CITY	73	50	85	45	61	0	2.9	2.2	2.1	4.6	194	20.9	97	97	56	0	0	0	5	2	0	
WATERLOO	75	51	85	43	63	3	1.8	1.0	1.0	2.9	101	29.0	106	95	51	0	0	0	3	2	0	
KR CONCORDIA	72	47	87	38	59	-6	.7	-.1	.4	.9	38	14.1	58	89	47	0	0	0	3	0	0	
DODGE CITY	76	45	85	34	60	-7	.1	-.3	.1	.9	53	14.5	79	82	33	0	0	0	1	0	0	
GOODLAND	72	41	85	34	56	-6	.3	-.1	.2	.3	24	11.6	73	85	38	0	0	0	2	0	0	
TOPEKA	70	49	84	45	59	-7	1.3	-.4	.8	1.4	46	20.9	74	96	51	0	0	0	4	1	0	
WICHITA	75	49	86	43	62	-6	.4	-.5	.3	1.1	34	16.9	61	89	41	0	0	0	3	0	0	
KY BOWLING GREEN	76	52	81	48	64	-4	1.2	.4	1.2	2.5	84	44.5	118	98	53	0	0	0	1	1	0	
LEXINGTON	77	55	81	50	66	-1	.2	-.6	.1	1.0	37	36.6	108	92	50	0	0	0	2	0	0	
LOUISVILLE	78	57	83	54	68	0	1.0	.2	.8	2.8	107	26.8	79	92	43	0	0	0	2	1	0	
LA BATON ROUGE	83	62	85	51	73	-4	.0	-1.1	.0	4.1	103	49.9	107	96	49	0	0	0	0	0	0	
LAKE CHARLES	86	63	90	57	75	-2	.0	-1.3	.0	3.5	75	32.4	80	92	43	1	0	0	0	0	0	
NEW ORLEANS	85	65	87	54	75	-2	-.0	-.2	-.0	5.6	122	43.6	91	91	46	0	0	0	0	0	0	
SHREVEPORT	84	55	89	45	70	-4	-.0	-.9	-.0	.1	3	34.9	98	91	36	0	0	0	2	0	0	

Based on 1961-90 normals.

Weather Data for the Week Ending September 24, 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	80 AND ABOVE	82 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
ME CARIBOU	62	40	66	34	51	-1	5	.8	1.7	62	29.3	112	89	47	0	0	0	0	1	0		
PORTLAND	66	48	76	40	57	0	4.8	4.0	4.4	262	33.4	111	93	62	0	0	0	0	3	1		
MD BALTIMORE	75	56	79	52	65	-2	2.7	2.0	3.6	116	36.9	121	96	56	0	0	0	0	2	1		
SALISBURY	76	54	80	48	65	-2	2.5	1.7	2.5	87	32.4	94	97	51	0	0	0	0	2	1		
MA BOSTON	70	57	78	52	63	0	3.3	2.5	2.6	180	37.4	127	87	58	0	0	0	0	4	1		
CHATHAM	66	56	71	49	61	0	0	0	0	84	35.1	111	87	67	0	0	0	0	1	1		
MI ALPENA	76	50	82	43	63	7	7	.7	1.2	47	24.7	113	97	49	0	0	0	0	1	0		
DETROIT	80	57	85	53	68	7	7	.7	1.1	45	23.2	95	89	41	0	0	0	0	1	1		
FLINT	78	52	83	44	65	5	7	.8	1.1	33	23.2	102	96	46	0	0	0	0	1	0		
GRAND RAPIDS	79	52	83	46	66	5	7	.8	1.1	10	34.7	132	95	46	0	0	0	0	2	0		
HOOGETON LAKE	76	51	80	41	64	5	7	.8	1.1	30	22.5	106	94	45	0	0	0	0	1	0		
LANSING	77	51	82	44	64	5	7	.8	1.1	36	25.5	109	98	47	0	0	0	0	1	0		
MARQUETTE	73	52	81	44	63	10	3.3	.5	1.0	31	18.1	71	93	40	0	0	0	0	3	0		
MUSKOGON	76	53	80	45	65	5	5	.5	1.0	30	24.0	105	94	53	0	0	0	0	1	1		
SAULT ST. MARIE	72	50	77	43	61	8	5	.8	1.2	26	21.5	90	98	35	0	0	0	0	0	0		
MN ALEXANDRIA	71	52	81	48	61	5	5	.5	1.2	90	14.0	67	95	54	0	0	0	0	3	0		
DULUTH	71	52	80	48	62	9	1.8	.9	1.3	167	25.0	105	91	51	0	0	0	0	3	1		
INT'L FALLS	72	48	82	44	60	7	1.6	.2	1.3	134	19.3	97	96	55	0	0	0	0	2	0		
MINNEAPOLIS	75	56	82	52	65	8	1.3	.7	1.7	212	23.1	100	92	50	0	0	0	0	3	1		
ROCHESTER	72	55	80	51	64	6	1.9	1.2	1.2	120	27.1	113	93	60	0	0	0	0	4	2		
MB GREENWOOD	82	57	89	50	70	-4	.2	-.6	1.8	69	34.5	88	94	38	0	0	0	0	1	0		
JACKSON	81	58	84	49	70	-4	.0	-.7	1.8	76	45.2	113	92	43	0	0	0	0	0	0		
MERIDIAN	84	59	88	49	71	-3	.5	-.3	2.3	80	51.0	120	91	44	0	0	0	0	1	0		
MO CAPE GIRARDEAU	76	51	85	47	64	-5	1.5	.7	1.9	85	31.5	92	95	43	0	0	0	0	2	0		
COLOMBIA	72	50	83	40	61	-4	.6	-.3	1.0	31	27.7	96	93	53	0	0	0	0	4	0		
KANSAS CITY	71	50	84	44	60	-5	2.3	1.2	1.7	63	21.9	73	93	52	0	0	0	0	4	1		
SANIT LOUIS	76	57	84	51	66	-2	.5	-.2	.3	30	25.0	90	88	45	0	0	0	0	3	0		
SPRINGFIELD	73	51	83	44	62	-5	.9	-.2	.3	48	35.7	110	88	44	0	0	0	0	4	0		
MT BILLINGS	77	48	83	37	63	6	.5	-.2	1.3	122	10.2	84	63	23	0	0	0	0	1	1		
GLASGOW	79	44	85	34	62	7	.3	-.2	1.2	18	7.6	80	88	25	0	0	0	0	0	0		
GREAT FALLS	76	44	86	35	60	6	.3	-.1	.3	34	8.1	64	75	28	0	0	0	0	2	0		
HAVRE	80	43	87	38	62	7	.3	-.3	.0	1	5.7	60	88	21	0	0	0	0	0	0		
HELENA	79	42	88	32	61	8	.0	-.3	.0	3	5.7	58	89	20	0	0	1	2	0	0		
KALISPELL	77	34	83	27	56	4	.0	-.3	.0	5	4.6	61	93	29	0	0	2	0	0	0		
MILES CITY	78	46	86	34	62	5	.3	-.3	1.1	104	7.3	62	83	25	0	0	0	0	0	0		
MISSOULA	83	40	90	33	62	8	.9	-.3	.3	34	9.1	86	91	17	1	0	0	0	0	0		
NE GRAND ISLAND	70	46	85	41	58	-4	.9	-.3	.4	39	18.2	85	89	50	0	0	0	0	4	0		
LINCOLN	70	44	85	37	57	-6	.5	-.3	.5	18	16.4	70	96	52	0	0	0	0	4	1		
NORFOLK	73	49	86	44	61	0	1.9	1.3	1.3	134	25.5	119	89	52	0	0	0	0	5	1		
NORTH PLATTE	74	41	85	36	57	-2	.2	-.2	.2	6	14.8	88	85	35	0	0	0	0	2	0		
OMAHA	72	47	86	38	59	-4	1.8	.9	1.0	5.0	164	25.9	106	92	55	0	0	0	3	1		
SCOTTSBLUFF	76	39	89	33	58	-2	.3	.0	.3	42	11.3	87	84	23	0	0	0	0	1	0		
VALENTINE	74	42	86	36	58	-3	.7	-.5	.7	1	15.8	81	77	32	0	0	0	0	0	0		
NV ELY	77	35	81	30	56	2	.7	-.2	.7	1	6.1	78	77	15	0	2	1	0	0	0		
LAS VEGAS	94	67	96	62	80	2	.4	-.3	.2	4	146	1.2	39	46	16	7	0	0	2	0		
RENO	85	50	89	47	68	9	.5	.4	.5	168	3.6	70	72	17	0	0	0	0	1	0		
WINNEMUCCA	87	42	90	37	65	7	.0	-.1	.0	7	4.8	83	76	11	2	0	0	0	0	1		
NH CONCORD	69	45	82	34	57	0	1.8	1.2	1.3	2.7	121	27.6	107	95	56	0	0	0	4	1		
NJ ATLANTIC CITY	73	51	77	44	62	-2	2.9	2.3	2.4	3.4	142	36.0	120	94	54	0	0	0	3	1		
NM ALBUQUERQUE	82	55	84	48	68	1	1	-.2	1.2	145	7.6	111	35	20	0	0	0	0	0	0		
CLOVIS	85	51	91	42	68	1	1	-.5	1.2	11	8.8	60	59	17	3	0	0	0	0	0		
ROSWELL	84	54	92	45	69	-2	0	-.4	.0	5	31	6.0	58	57	19	2	0	0	0	0		
NY ALBANY	71	49	80	42	60	0	.9	-.3	.7	1.2	49	28.9	108	96	53	0	0	0	2	1		
BINGHAMTON	66	50	75	46	58	0	.3	-.5	.2	30	33.9	125	97	57	0	0	0	0	3	0		
BUFFALO	72	53	80	49	62	2	1	-.8	1.4	13	25.4	93	90	48	0	0	0	0	2	0		
NEW YORK	74	61	83	57	68	1	1.8	1.1	1.1	2.6	93	35.6	114	82	53	0	0	0	3	1		
ROCHESTER	72	53	81	48	62	2	.2	-.5	.2	2.0	80	21.9	94	90	50	0	0	0	1	0		
SYRACUSE	69	51	78	48	60	0	.3	-.5	.3	.8	26	29.8	106	95	57	0	0	0	3	0		
NC ASHEVILLE	72	52	75	45	62	-3	2.2	1.2	.9	4.5	126	46.2	110	98	61	0	0	0	3	2		
CHARLOTTE	78	60	82	55	69	-2	.5	-.3	.4	1.0	36	28.8	89	87	51	0	0	0	2	0		
GREENSBORO	74	54	79	49	64	-4	.4	-.3	.3	1.3	47	30.0	93	97	59	0	0	0	2	0		
HATTERAS	78	67	81	62	72	0	4.8	3.6	1.9	7.7	181	46.9	116	90	46	0	0	0	3	3		
NEW BERN	79	61	84	56	70	-2	2.8	1.7	1.6	5.2	121	31.3	72	95	54	0	0	0	3	2		
RALEIGH	75	55	81	50	65	-4	.2	-.6	.1	2.0	76	29.2	92	93	51	0	0	0	3	0		
WILMINGTON	78	61	83	56	69	-3	5.7	4.2	4.5	6.8	121	42.4	94	97	63	0	0	0	3	2		
ND BISMARCK	77	44	85	35	60	5	.2	-.1	.2	5.1	415	13.9	104	92	36	0	0	0	3	0		
FARGO	73	48	84	37	61	5	.3	-.1	.3	2.1	128	18.9	118	91	51	0	0	0	1	0		
GRAND FORKS	76	47	84	35	61	7	.1	-.4	.1	1.4	75	17.7	116	91	39	0	0	0	1	0		
WILLISTON	79	41	88	33	60	6	.3	.0	.2	.7	63	12.9	111	88	31	0	0	0	2	0		
OH AKRON-CANTON	75	52	79	49	64	2	1	-.8	1.2	42	32.7	117	90	44	0	0	0	0	0	0		
CINCINNATI	77	55	81	50	66	0	.1	-.6	.1	.3	12	30.8	99	90	49	0	0	0	2	0		
CLEVELAND	76	53	81	50	65	2	1	-.8	1.7	24	21.9	81	85	44	0	0	0	0	0	0		
COLUMBUS	79	53	82	48	66	4	.4	-.4	.4	.8	30	24.7	86	92	43	0	0	0	1	0		
DAYTON	78	53	80	49	66	1	.1	-.5	.1	.8	39	27.4	99	89	42	0	0	0	1	0		

Based on 1961-90 normals.

Weather Data for the Week Ending September 24, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS								
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
													90 AND ABOVE					32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE		
TOLEDO	80	51	84	47	65	4	F	.6	F	.2	9	21.7	88	97	38	0	0	0	0			
YOUNGSTOWN	74	48	78	43	61	1	F	.0	F	.6	23	27.9	100	96	46	0	0	0	0			
OK OKLAHOMA CITY	76	51	87	43	64	-8	F	1.0	F	.5	2.1	70	18.9	73	85	36	0	0	2	1		
TULSA	74	54	84	49	64	-7	F	.7	F	.5	3.6	95	37.4	122	91	40	0	0	3	0		
OR ASTORIA	70	53	85	51	62	4	F	.8	F	.4	113	38.5	98	96	64	0	0	0	0			
BURNS	86	41	88	37	63	10	F	.0	F	.0	9	3.0	44	49	12	0	0	0	0			
MEDFORD	97	52	101	50	75	11	F	.0	F	.2	28	5.3	50	72	16	7	0	0	0	0		
PENDLETON	86	54	90	51	70	9	F	.1	F	.1	30	8.1	103	49	18	2	0	0	0	0		
PORTLAND	85	57	93	54	71	9	F	.4	F	.0	81	15.7	72	88	24	2	0	0	0	0		
SALEM	87	51	95	48	69	9	F	.4	F	.0	1.4	122	17.5	77	87	23	2	0	0	0		
PA ALLENTOWN	73	53	80	46	63	0	F	.7	F	.6	1.6	50	39.1	120	98	58	0	0	4	1		
ERIE	72	56	78	52	64	2	F	.0	F	.0	.5	15	29.0	99	83	48	0	0	0	0		
HARRISBURG	72	56	77	48	64	0	F	1.1	F	.3	1.0	1.6	59	37.2	124	92	53	0	0	3	1	
PHILADELPHIA	75	58	79	54	66	2	F	1.0	F	.1	.8	1.2	34	38.4	112	87	50	0	0	3	1	
PITTSBURGH	75	52	83	47	64	1	F	.0	F	.7	.0	2.2	91	33.5	119	86	44	0	0	0	0	
SCRANTON	68	50	79	43	59	-2	F	.9	F	.1	.5	3.2	119	32.6	120	99	61	0	0	3	0	
RI PROVIDENCE	71	53	79	46	62	0	F	3.2	F	2.4	2.4	3.9	140	34.2	106	95	60	0	0	4	0	
SC CHARLESTON	81	65	86	60	73	-2	F	4.0	F	3.0	3.0	7.9	197	48.8	116	92	62	0	0	3	2	
COLUMBIA	80	59	86	52	69	-3	F	3.0	F	2.2	1.8	3.3	107	38.4	96	93	47	0	0	2	2	
FLORENCE	79	60	84	54	69	-4	F	3.0	F	2.3	2.5	3.2	115	32.1	92	95	59	0	0	3	2	
GREENVILLE	76	56	78	52	66	-3	F	.7	F	.2	.4	2.0	65	40.7	105	91	54	0	0	3	2	
SD ABERDEEN	72	43	82	34	58	1	F	.2	F	.3	.2	1.5	92	16.1	89	94	48	0	0	2	0	
HURON	73	45	86	35	59	0	F	.1	F	.3	.1	1.9	137	17.6	103	90	48	0	0	1	0	
RAPID CITY	78	46	89	38	62	4	F	.3	F	.3	.3	.3	27	6.7	62	24	0	0	0	0	0	
SIOUX FALLS	74	50	88	45	62	3	F	.2	F	.5	.2	2.6	106	19.4	98	90	52	0	0	3	0	
TN CHATTANOOGA	77	60	81	53	69	-2	F	1.3	F	.3	1.2	2.6	79	60.7	153	95	55	0	0	2	1	
KNOXVILLE	78	57	80	54	67	-1	F	.3	F	.4	.3	1.2	47	55.9	158	96	55	0	0	2	0	
MEMPHIS	79	56	84	50	68	-5	F	.7	F	.1	.4	1.6	55	36.4	97	90	42	0	0	3	0	
NASHVILLE	77	57	82	54	67	-3	F	2.5	F	1.7	2.5	3.6	128	49.6	140	91	52	0	0	1	1	
TX ABILENE	82	54	88	44	68	-6	F	.1	F	.6	.1	3.8	147	20.9	112	82	33	0	0	1	0	
AMARILLO	80	48	88	39	64	-4	F	.1	F	.3	.1	2.0	119	16.0	95	74	25	0	0	1	0	
AUSTIN	85	60	89	53	72	-7	F	.0	F	.8	.0	5.6	219	25.8	110	75	33	0	0	1	0	
BEAUMONT	86	61	91	52	73	-4	F	.0	F	.5	.0	5.4	105	50.2	119	98	41	1	0	0	0	
BROWNSVILLE	90	66	94	62	78	-3	F	.5	F	.0	1.8	37	14.9	75	90	33	5	0	0	0	0	
CORPUS CHRISTI	87	64	90	57	76	-4	F	.0	F	.3	.0	6.7	150	23.4	101	81	36	1	0	0	0	
DEL RIO	87	61	92	54	74	-4	F	.1	F	.6	.1	1.2	56	16.5	88	77	35	4	0	1	0	
EL PASO	88	61	95	55	75	2	F	.0	F	.4	.0	.4	2	3.0	44	42	18	4	0	0	0	0
FORT WORTH	82	56	88	49	69	-4	F	.1	F	.1	1.4	38	26.8	97	86	40	0	0	1	0	0	
GALVESTON	84	70	86	62	77	-2	F	.0	F	.0	4.4	91	20.9	66	82	50	0	0	0	0	0	
HOUSTON	87	59	91	50	73	-4	F	.0	F	.4	1.1	25	26.0	68	93	40	1	0	0	0	0	
LUBBOCK	85	53	92	43	69	-1	F	.0	F	.6	.0	1.1	52	11.6	78	83	23	3	0	0	0	
MIDLAND	86	53	92	45	70	-3	F	.2	F	.6	.2	.5	17	8.0	67	85	24	3	0	1	0	
SAN ANGELO	85	53	90	44	69	-5	F	.7	F	.1	3.1	112	12.0	77	87	36	2	0	1	0	0	
SAN ANTONIO	88	58	92	52	73	-5	F	.8	F	.7	5.5	204	26.7	116	80	32	4	0	0	0	0	
VICTORIA	87	60	89	51	74	-4	F	.0	F	.5	2.9	57	27.9	84	88	34	0	0	0	0	0	
WACO	85	52	90	46	69	-8	F	.0	F	.9	.0	.4	13	20.1	86	85	32	4	0	0	0	0
WICHITA FALLS	81	53	92	43	67	-6	F	.6	F	.0	1.5	44	8.0	33	84	31	1	0	0	0	0	
UT CEDAR CITY	81	46	86	42	63	2	F	.2	F	.0	.3	31	4.9	57	69	19	0	0	2	0	0	
SALT LAKE CITY	82	54	88	49	68	5	F	.0	F	.3	.0	1	8.4	71	65	25	0	0	0	0	0	
VT BURLINGTON	69	50	79	45	60	3	F	.3	F	.5	.3	1.3	47	29.0	114	91	50	0	0	3	0	
VA NORFOLK	79	61	84	56	70	0	F	.5	F	.3	.5	2.0	63	43.5	125	87	52	0	0	2	1	
RICHMOND	76	56	81	52	66	-2	F	2.7	F	2.0	2.7	3.2	119	35.5	109	91	37	0	0	2	1	
ROANOKE	76	52	82	48	64	-2	F	.1	F	.7	.1	.7	23	36.8	121	93	47	0	0	1	0	
WA QUILLAYUTE	72	52	84	48	62	6	F	.7	F	.3	4.1	115	60.0	95	96	58	0	0	2	0	0	
SEATTLE-TACOMA	79	55	86	53	67	8	F	.0	F	.5	1.7	118	17.4	80	86	43	0	0	0	0	0	
SPOKANE	84	50	87	47	67	10	F	.0	F	.2	.5	79	6.7	62	85	17	0	0	0	0	0	
YAKIMA	87	47	90	40	67	8	F	.0	F	.1	.0	.1	29	4.4	87	85	21	1	0	0	0	0
WV BECKLEY	70	48	73	42	59	-2	F	.8	F	.8	1.1	39	42.2	135	93	53	0	0	0	0	0	
CHARLESTON	77	51	82	48	64	-2	F	.6	F	.2	1.3	48	43.1	134	97	46	0	0	1	1	1	
HUNTINGTON	79	51	82	47	65	1	F	.6	F	.1	1.1	42	38.3	117	98	44	0	0	1	1	1	
PARKERSBURG	76	51	82	46	64	-2	F	.1	F	.5	.1	.8	31	40.2	127	99	44	0	0	1	0	
WI GREEN BAY	77	56	82	50	67	9	F	.1	F	.7	.1	.5	19	23.4	105	91	54	0	0	2	0	
LACROSSE	76	58	83	56	67	7	F	.0	F	.0	.0	.0	.0	.0	97	54	0	0	0	0	0	
MADISON	77	56	82	49	67	7	F	.8	F	.1	3	5.4	175	28.2	112	89	51	0	0	3	0	
MILWAUKEE	78	61	86	56	69	10	F	.3	F	.5	.4	16	20.9	83	85	51	0	0	2	0	0	
WAUSAU	75	55	80	48	65	9	F	.8	F	.2	5	1.9	53	16.6	64	94	52	0	0	3	0	
WY CASPER	75	40	83	31	57	2	F	.5	F	.3	.5	.7	93	7.3	74	82	23	0	2	1	1	
CHEYENNE	70	40	81	28	55	-1	F	.1	F	.2	.1	.4	36	11.1	89	80	26	0	2	2	0	
LANDER	75	43	82	28	59	3	F	.3	F	.3	.3	.3	36	5.6	54	59	19	0	1	1	0	
SHERIDAN	76	42	83	32	59	4	F	.2	F	.2	.9	79	10.7	93	68	24	0	1	1	1	0	

Based on 1961-90 normals.

# National Agricultural Summary

September 19 - 25, 1994

**HIGHLIGHTS:** The corn and soybean harvest made good progress before a widespread storm system deposited heavy rains across the Midwest. Areas in the central and western Corn Belt received over 2 inches of rain from the lingering storm system, but some dry pockets remained. Temperatures were reported above normal in the upper Midwest, pushing corn to maturity and beyond the threat of frost damage. Winter wheat seedings in the Pacific Northwest slowed due to lack of moisture. Some winter wheat fields are expected to be reseeded in the Western States due to poor emergence caused by the short soil-moisture supplies. No crop damage was reported from the scattered snowstorms in the Rocky Mountain region. Cool weather in the Southern States and the Delta region slowed the cotton development and delayed some defoliation.

Winter wheat planted at 42 percent(%) was up 16 percentage points from the previous week, 6 points ahead of the 5-year average. Winter wheat planted in Kansas was up 20 points from the previous week, and 10 points ahead of the average, while Washington was 17 points behind the average. Rain in the central Great Plains provided much-needed moisture in areas where producers were waiting for precipitation before seeding wheat. Dry conditions in the Western States continued to delay seeding and produced spotty emergence that will require some reseeded.

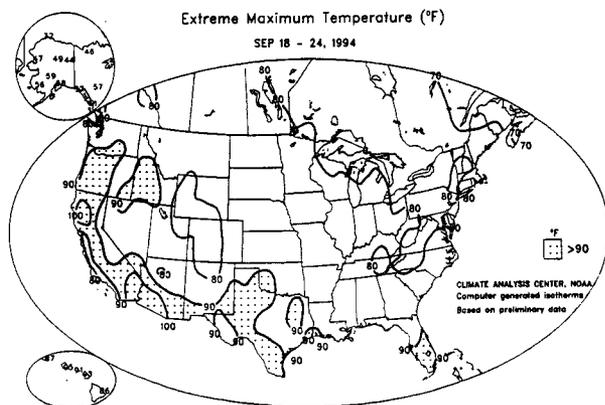
Corn development spurred by warm weather in the Corn Belt exceeded the average in the 17 major producing States. The corn crop was 82% mature, up 24 points from last week and 22 points ahead of the average. Illinois corn maturity was 28 points ahead of the average, while the percentage of corn harvested was 8 points behind the average. Corn harvested for the 17 major producing States was up 4 points from last week but was 1 point behind the average. Many producers took advantage of the clear weather early in the week, and then turned their efforts to harvesting the soybean crop.

Cotton condition was down from last week for the 14 major producing States, with 60% of the cotton crop rated as good to excellent. The cotton condition for Texas was down slightly from last week, with 26% of the Texas crop rated as good to excellent. Cotton bolls opening were 72% complete, up from last week and ahead of the average by 7 points. Texas reported bolls opening at 56%, up 6 points from last week and 13 points ahead of the average. Cooler weather slowed cotton maturity slightly in Texas where regrowth was reported to have caused problems in some fields. Defoliation of cotton was delayed in Mississippi due to the cooler weather.

Sorghum condition in the 12 States was mostly fair to good, with 74% of the sorghum crop in the mature stage. Grain sorghum rated as mature was up 14 points from the previous week and 19 points ahead of the average. Grain sorghum harvested at 38% was up 7 points from last week and 8 points ahead of the average. Sorghum harvested in both Kansas and Mississippi advanced by over 10 points from last week and was 20 points ahead of the average.

Rice harvested was 65% complete, up 15 points from last week and 13 points ahead of the average for the five major producing States. In Arkansas, rice harvested was 72% complete, up 22 points from a week ago and 31 points ahead of the average. Mississippi rice harvested was 22 points ahead of the average.

Soybeans were rated fair to good with 76% of the acreage dropping leaves, up 23 points from last week and 22 points ahead of the average. The percentage of soybeans dropping leaves was 41 points ahead of the average in Iowa. Soybean harvest was at 16%, 9 points ahead of the average. Illinois producers harvested 27% of the soybean acreage, 15 points ahead of the average. Warm weather early in the week increased soybean maturity, and producers made good progress harvesting soybeans before the rains arrived.



(Continued from front cover)

Heat built into the Northwest, where daily records were set on Tuesday in Yakima, WA (90°F) and Redding, CA (105°F). A day earlier, Red Bluff, CA also hit 105°F. Early-week coolness was confined to northern New England, where Caribou, ME noted a mixture of rain and snow on September 19, the third earliest occurrence of snow at that location. But by midweek, the central High Plains also got a taste of autumn. A 6-hour squall dumped 4.9 inches of snow on Casper, WY and briefly left an inch on the ground in Denver, CO. A trace of snow was spotted as far east as Scottsbluff, NE and as far south as Colorado Springs, CO. On

Thursday morning, daily records were established at Colorado Springs (29°F) and Laramie, WY (15°F).

The storm continued to track slowly southeastward, producing unsettled, chilly weather underneath its comma-shaped cloud shield. On Thursday, highs struggled to only 48°F in Norfolk, NE and 49°F in Omaha, NE. A day later, highs included 51°F in Wichita, KS and 60°F in Tulsa, OK. Cool air settled into Texas by Friday morning, where daily-record lows included 45°F in Midland and 46°F in Waco. But north and west of the storm's center, temperatures remained unseasonably high. On Wednesday, temperatures topped 100°F as far north as Medford, OR (101°F). A day later, daily records were set in Oregon at Salem (95°F) and Portland (93°F). Among the daily-record highs on Friday were readings of 88°F in Burns, OR and 82°F in Alpena, MI. Pocatello, ID measured a daily-record high of 89°F on Saturday.

Stormy weather gradually overtook the central Plains, Midwest, and Southeast after September 20. Weekly rainfall, amassed from midweek onward, included 2.86 inches in Sioux City, IA, 2.45 inches in Nashville, TN, and 2.31 inches in Kansas City, MO. Heavy rain also fell along the Eastern Seaboard, beginning on Tuesday in Florida, where Jacksonville endured nearly 5 inches. As the system stormed northward, gale-force winds battered the Middle Atlantic coast. In New England, late-week rainfall totaled 4.78 inches in Portland, ME, 3.88 inches in Hartford, CT, and 3.21 inches in Providence, RI.

## Crop Condition

for the Week Ending September 25, 1994

## SORGHUM

State	VP	P	F	G	EX
AR	0	0	26	57	17
CO	1	5	25	60	9
IL	0	4	32	62	2
KS	0	0	29	65	6
LA	0	9	38	53	0
MS	0	2	47	46	5
MO	0	4	45	43	8
NE	0	0	9	71	20
NM	0	56	25	19	0
OK	0	0	20	80	0
SD	0	4	12	62	22
TX	1	11	55	31	2
12 State	0	6	36	51	7
Prev Week	0	3	37	55	5
Prev Year	0	4	31	57	8

## CORN

State	VP	P	F	G	EX
CO	1	4	21	51	23
GA	0	0	13	66	21
IL	0	1	10	69	20
IN	0	4	26	64	6
IA	0	0	2	55	43
KS	0	1	17	71	11
KY	0	1	14	65	20
MI	2	8	20	45	25
MN	0	3	10	65	22
MO	1	2	43	51	3
NE	0	1	10	64	25
NC	2	4	32	59	3
OH	1	6	23	53	17
PA	0	2	17	40	41
SD	0	0	5	56	39
TX	0	0	31	64	5
WI	0	0	0	57	43
17 State	0	2	13	60	25
Prev Week	0	2	15	62	21
Prev Year	3	13	35	43	6

## COTTON

State	VP	P	F	G	EX
AL	0	5	22	73	0
AZ	0	0	10	80	10
AR	0	0	0	94	6
CA	0	0	0	75	25
GA	0	3	13	79	5
LA	0	0	11	79	10
MS	0	1	25	70	4
MO	0	0	36	64	0
NM	0	0	23	62	15
NC	0	0	13	77	10
OK	0	12	59	29	0
SC	0	0	4	85	11
TN	0	0	0	99	1
TX	2	14	58	24	2
14 State	1	7	32	54	6
Prev Week	1	6	32	56	5
Prev Year	0	9	41	46	4

## SOYBEANS

State	VP	P	F	G	EX
AL	0	0	15	79	6
AR	0	0	29	71	0
GA	0	0	15	72	13
IL	0	2	17	67	14
IN	0	4	25	64	7
IA	0	0	3	52	45
KS	0	2	22	68	8
KY	0	6	30	56	8
LA	0	4	30	66	0
MI	2	8	20	50	20
MN	1	4	22	61	12
MS	0	0	23	41	36
MO	0	3	52	44	1
NE	0	0	5	73	22
NC	0	0	13	85	2
OH	1	4	23	53	19
SC	0	0	23	68	9
SD	0	0	6	59	35
TN	0	0	11	83	6
19 State	0	2	20	61	17
Prev Week	0	2	23	62	13
Prev Year	3	11	40	41	5

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

## Crop Progress

for the Week Ending September 25, 1994

## GRAIN SORGHUM MATURE

	Current	Last Wk	1993	Avg.
AR	94	93	97	89
CO	20	18	23	30
IL	77	56	41	51
KS	70	45	30	30
LA	99	97	93	95
MS	99	97	91	90
MO	79	54	52	55
NE	90	67	20	48
NM	23	16	13	10
OK	27	21	26	34
SD	62	45	19	51
TX	80	77	82	81
12 States	74	60	49	55

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

## GRAIN SORGHUM HARVESTED

	Current	Last Wk	1993	Avg.
AR	80	70	50	57
CO	5	0	3	5
IL	10	3	1	9
KS	25	10	3	5
LA	54	49	77	84
MS	85	72	63	65
MO	27	20	17	21
NE	9	4	0	7
NM	8	3	9	6
OK	10	6	10	6
SD	4	2	0	9
TX	70	68	71	67
12 States	38	31	29	30

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

**RICE HARVESTED**

	Current	Last Wk	1993	Avg.
AR	72	50	32	41
CA	20	5	10	13
LA	71	67	83	88
MS	67	50	30	45
TX	93	88	78	94
5 States	65	50	43	52

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

**COTTON BOLLS OPENING**

	Current	Last Wk	1993	Avg.
AL	52	42	74	70
AZ	99	97	100	97
AR	65	56	69	65
CA	100	95	95	95
GA	67	58	86	70
LA	97	87	91	89
MS	95	90	89	86
MO	61	59	80	71
NM	85	73	69	69
NC	83	67	91	77
OK	74	57	58	36
SC	63	53	89	80
TN	99	85	100	97
TX	56	50	60	43
14 States	72	65	75	65

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

**WINTER WHEAT PLANTED**

	Current	Last Wk	1993	Avg.
AR	8	3	0	1
CA	0	0	1	0
CO	78	44	73	64
GA	0	0	1	2
ID	28	22	23	30
IL	3	2	1	4
IN	10	4	4	7
KS	45	25	35	35
MI	25	20	20	20
MO	10	4	6	7
MT	15	8	6	32
NE	82	57	67	70
NC	11	0	10	7
OH	7	2	4	5
OK	54	30	45	31
OR	11	4	51	32
SD	80	54	77	80
TX	40	30	42	41
WA	46	42	69	63
19 States	42	26	38	36

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

**CORN MATURE**

	Current	Last Wk	1993	Avg.
CO	62	33	73	64
GA	100	100	100	100
IL	93	52	52	65
IN	72	42	62	60
IA	98	84	30	69
KS	95	80	75	85
KY	80	75	84	75
MI	35	25	25	30
MN	86	44	6	43
MO	95	83	56	77
NE	92	73	35	61
NC	100	95	100	100
OH	38	22	43	34
PA	24	12	15	17
SD	87	57	20	57
TX	95	88	89	91
WI	47	24	15	35
17 States	82	58	41	60

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

**CORN HARVESTED**

	Current	Last Wk	1993	Avg.
CO	8	0	0	3
GA	90	83	90	87
IL	7	3	2	15
IN	6	3	3	9
IA	8	5	1	7
KS	40	25	25	35
KY	22	14	30	24
MI	10	5	1	5
MN	3	1	0	2
MO	27	19	15	24
NE	11	6	1	8
NC	53	41	62	51
OH	4	1	5	5
PA	1	0	1	2
SD	4	2	0	8
TX	76	69	77	75
WI	3	0	2	2
17 States	12	8	7	13

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

**SOYBEANS DROPPING LEAVES**

	Current	Last Wk	1993	Avg.
AL	21	15	28	30
AR	18	10	15	11
GA	48	31	37	35
IL	87	60	52	62
IN	88	55	72	65
IA	100	71	32	59
KS	80	60	55	60
KY	35	24	35	32
LA	44	33	52	40
MI	50	40	55	55
MN	97	56	20	70
MS	57	43	31	34
MO	60	40	34	42
NE	96	79	50	64
NC	19	14	17	18
OH	92	70	87	65
SC	4	0	4	7
SD	92	78	41	75
TN	30	19	37	30
19 States	76	53	43	54

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

**SOYBEANS HARVESTED**

	Current	Last Wk	1993	Avg.
AL	1	NA	1	4
AR	5	NA	0	1
GA	2	NA	0	0
IL	27	NA	2	12
IN	14	NA	2	8
IA	23	NA	0	6
KS	15	NA	1	10
KY	2	NA	2	2
LA	12	NA	15	11
MI	5	NA	0	2
MN	10	NA	1	6
MS	24	NA	3	6
MO	7	NA	0	3
NE	32	NA	2	10
NC	0	NA	0	0
OH	16	NA	7	6
SC	0	NA	0	0
SD	13	NA	0	11
TN	2	NA	0	0
19 States	16	NA	2	7

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 0.09 to 4.95 in. north; 0.13 to 3.88 in. central; 0.05 to 2.13 in. south. Temperatures 3 to 9° below normal statewide. Lows 42 to 50° north; 43 to 52° central; 44 to 56° south. Highs 78 to 83° north; 79 to 86° central; 85 to 89° south.

Days suitable for fieldwork 5.6. Soil moisture 25% short, 70% adequate, 5% surplus. Corn harvested 68%, 67% 1993, 74% avg. Sorghum harvested 30%, 27% 1993, 48% avg.; 15% poor, 10% fair, 65% good, 10% excellent. Peanuts dug 60%, 29% 1993, 58% avg.; combined 48%, 19% 1993, 47% avg.; 28% poor, 72% fair. Wheat planted 7%, 7% 1993, 12% avg. Pasture feed 46% fair, 52% good, 2% excellent. Livestock 13% fair, 84% good, 3% excellent. 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 suitable for hay, grain harvest 3.5, 6 days suitable for digging potatoes. Second crop hay harvest 45% complete, 50% 1993. Commercial potato harvest 95% complete, 75% 1993. Oat harvest was 100% complete, 5% ahead of 1993. Silage harvest 100% complete, 95% complete 1993. Topsoil 45% short, 55% adequate. Subsoil 60% short, 40% adequate.

**ARIZONA:** Temperatures normal to 4° above normal. Extremes 32°; 95° higher elevations; 54°; 109° deserts. Precipitation reported at all station except Safford; trace to 0.78 in.

Ginning increasing in central, western parts of the State. Cotton condition remains mostly good; opening bolls 99%, 100% 1993, 97% avg. Weed infestations remain light to moderate; insect, disease infestations continue moderate. Field activities: Harvesting, defoliation, final irrigations, pesticide applications, pest monitoring. Alfalfa condition remains good. Harvest moderate. Weed, insect, disease infestations light to moderate. Crops harvested from central areas included cantaloupe, chili pepper, watermelon. Raisin grapes harvested central, western vineyards. Lemons, grapefruit, watermelon harvested western areas. Available eastern areas were apples, chili peppers.

**ARKANSAS:** Temperatures dropped below normal midweek as rain moved across the State. Extremes 36°; 88°. Precipitation none to 1.14 in.

Days suitable for fieldwork 6. Soil moisture 67% short, 33% adequate. Rice, grain sorghum, soybean, cotton, corn harvest in progress. Producers planting fall forages, winter wheat. Apples in good condition with harvest ongoing. Peanuts good condition with harvest ongoing. Alfalfa 13% poor, 79% fair, 8% good. Other hay 12% poor, 57% fair, 31% good. Pasture feed 2% very poor, 10% poor, 58% fair, 28% good, 2% excellent. Livestock good. Some producers feeding hay due to dry conditions.

**CALIFORNIA:** Upper level high pressure kept temperatures above normal inland areas. Coastal temperatures near normal. Sub-tropical moisture brought first measurable precipitation parts State.

Field activities progressed rapidly, hot, dry weather. Rice harvest full swing; stubble burning where conditions, air quality regulations allowed. Some stubble chopped, disced. Cotton defoliation gained momentum San Joaquin Valley; harvest underway few early fields. Desert harvest remained active, defoliation virtually complete. Grain corn, silage corn, dry beans, sugarbeets, sunflowers harvested. Planting new crop sugarbeets. Safflower harvest nearing completion most areas. Alfalfa, bermuda grass, sudangrass cut, baled. Some alfalfa treated for worms. Ground preparation fall-planted small grains progressed. Raisin grapes stages harvest: one third open, trays one third rolled, one third boxed. Wine juice grape harvest continued. Table grape harvest continued. Peach harvest continued. Plum harvest was winding down. Nectarines were packed Fresno County. Apple harvest continued. Pomegranates picked packed Fresno County. Almond pistachio harvest continued. Quality reported very good. Walnut harvest continued. Valencia orange harvest continued. Navel oranges starting break color. Olive harvest began small scale young trees Tulare County. Lemon grapefruit avocado harvests continued. Broccoli harvest central coast. Fall broccoli, cauliflower progressing normally central coast, planting ongoing Riverside County. Cabbage irrigated, treated for worms Fresno County. Planting winter carrots Kern County, harvest continued. Celery harvested Oxnard area. Sweet corn harvest Sacramento Valley continued. Fall head, leaf lettuce fields irrigated San Joaquin Valley.

Planting lettuce continued Riverside County, lettuce harvested central coast. Melon harvest central valley slowed. Whiteflies continue damage Palo Verde Valley Fall Melons. Onion harvest winding down central coast. Peppers continued harvested San Joaquin Valley. Fall potato harvest Tulelake-Butte Valley under way. Sweet potatoes continued harvested Merced, Stanislaus Counties. Ground prepared processing spinach Tulare County. Harvest fresh market tomatoes San Joaquin Valley. Processing tomato harvest about completed central valley. Herbs, spices harvested Riverside, Stanislaus Counties. Vinseed harvest full swing Colusa, Glenn, Sutter Counties good quantity, quality reported. Other crops harvested: Squash, cucumbers, green beans, green onions, okra, eggplant, oriental vegetables. Rangeland conditions poor. Hot, dry weather. Little grass left. Irrigated pastures, good shape. Feed, water supplies poor, mountain areas. Supplemental feeding most ranches. Livestock movement lower elevations, feedlots. Sheep grazing tomato, melon fields. Cattle, sheep good condition.

**COLORADO:** Showers, a few thunderstorms occurred early in the week. A vigorous cold front moved over the east on the 21st bringing 1 to 3 in. snow to the front range. Temperatures above normal on the 19th, at or below normal for the rest of the week. Freeze advisories were issued for the northeast, south late on the 21st, early on the 22nd.

Days suitable for fieldwork 5.4. Soil moisture 25% very short, 42% short, 33% adequate. Alfalfa third cutting 74% complete, 57% 1993, 58% avg.; 1% very poor, 6% poor, 36% fair, 49% good, 8% excellent. Fourth cutting 16% complete. Dry beans 87% cut, 69% 1993, 71% avg.; 79% harvested, 57% 1993, 49% avg. Oats 93% harvested, 94% 1993, 92% avg. Dry onions 90% harvested, 66% 1993, 71% avg. Sugarbeet producers are just beginning harvest. Sugarbeets 1% very poor, 3% poor, 16% fair, 67% good, 13% excellent. Corn harvest underway, 8% complete. Spring wheat 93% harvested, 60% 1993, 77% avg. Summer potatoes 89% harvested, 68% 1993, 75% avg. Fall potatoes 68% harvested, 50% 1993, 31% avg. Corn silage 88% harvested, 59% 1993, 63% avg. Winter wheat 78% seeded, 73% 1993, 64% avg.; 34% emerged, 32% 1993, 30% avg. Livestock fair to good. Pasture, range feed conditions are rated very poor over most of the State, except San Luis valley, rated mostly good.

**FLORIDA:** Temperatures 1 to 3° below normal. Highs; low 90s. Lows; low 50s. Rainfall 1.00 to 3.00 in. common, locally to 5.00 in.

Soil moisture adequate in Panhandle. Peninsula adequate to surplus moisture. Heavy rains delaying harvest of all crops. Tobacco marketing active. Corn harvest virtually complete. Peanut harvest active. Growers making preparations for cotton harvest. Sugarcane good progress. Haying active weather permitting. Citrus groves very good to excellent condition, moisture adequate to surplus. Some fruit splitting in wet areas. Good natural fruit coloring some early fruit types. Harvest active for white, colored grapefruit, navels, Early tangerines, K-Early. Frequent rainfall some southeast coast, southern inland, central vegetable areas delaying planting, retarding crop development. Drier weather Dade County, southwest, west central speeded planting progress. Tomato planting started Dade County. Tomato picking began in Quincy area. East Coast producers started cutting eggplant. Other crop harvest: Snapbeans, north; squash, north, west central; cherry tomatoes, west central. Cucumber harvest to start within next 7 days, Wauchula. Pasture feed 5% poor, 20% fair, 60% good, 15% excellent. Cattle herds mostly good.

**GEORGIA:** Temperatures 1 to 5° below normal. Highs in the 80s, except mid to upper 70s mountains. Lows in mid 40s to low 50s north, mid 50s to low 60s elsewhere. Rain 1 to 3 days most locations. Rainfall mostly 0.25 to 2.00 in. Heaviest rain 3.21 in. near LaFayette in Walker County.

Days suitable for fieldwork 5.2. Soil moisture 6% short, 82% adequate, 12% surplus. Corn harvest week ahead of normal, yields good. Cotton 2% harvested, 12% 1993, 10% avg.; defoliating active. Sorghum 1% poor, 16% fair, 83% good; 60% harvested for grain, 52% 1993, 50% avg. Peanuts 11% fair, 80% good, 9% excellent; 65% dug, 43% 1993, 58% avg.; 48% threshed, 28% 1993, 42% avg. Soybean harvest off to fast start, spraying for insect control. Wheat 0% emerged, 0% 1993, 0% avg. Rye 9% planted, 8% 1993, 7% avg. Other small grains 16% fair, 80% good, 4% excellent; 6% planted, 4% 1993, 4% avg. Vegetables 33% fair, 62% good, 5% excellent; some spraying for insect control. Apples 7% very poor, 4% fair, 89% good; 57% harvested, 58% 1993, 63% avg. Pecans 11% poor, 51% fair, 37% good, 1% excellent; 2% harvested, 0% 1993, 0%

avg.; harvest off to fast start. Hay 1% very poor, 2% poor, 10% fair, 86% good, 1% excellent; hay harvest continuing, slowed by showers some areas. Pasture 11% fair, 82% good, 7% excellent; overseeding. Cattle, hogs good.

**HAWAII:** Variable weather for the week. Record high 95° Honolulu, on 19th. Heavy rains earlier part of week. Road closures, some flooding occurred. Conditions improved as the week progressed. Drier trade winds by midweek, resulted in lower humidity, cooler temperatures. Temperatures high 60s to mid 90s. Rainfall none to 6.40 in.

Some heavy rains over windward, higher elevations. Some flooding, washout to low-lying areas. Full extent of damage to agriculture not known at this time, but considered minor. Insect infestations variable for some fields. Spraying increased to control diseases resulting from wet conditions. Banana production heavy. Papaya production moderate. Macadamia nut in active harvest. Sugarcane harvesting curtailing in some areas.

**IDAHO:** Temperatures 2 to 10° above normal. Precipitation none for the entire State. Extremes 26°, 94°.

Days suitable for fieldwork 7. Potatoes harvested 33%, 21% 1993, 27% avg.; 2% poor, 20% fair, 59% good, 19% excellent. Soil moisture 54% very short, 26% short, 20% adequate. Range, pasture feed 50%. Winter Wheat emerged 11%, 5% 1993, 9% avg. Sugarbeets harvested 11%, 5% 1993, 10% avg. Alfalfa hay harvested (3rd cutting) 80%, 50% 1993, 64% avg. Apples harvested 33%, 19% 1993, 27% avg. Field corn grain harvested 1%, 1% 1993, 3% avg.; silage harvested 59%, 27% 1993, 47% avg. Plums, prunes harvested 98%, 96% 1993, 98% avg. Onions harvested 76%, 57% 1993, 66% avg. Hops harvested 94%, 93% 1993, 85% avg. Dry beans harvested 84%, 58% 1993, 62% avg. Irrigation water supplies 34% very poor, 18% poor, 23% fair, 24% good, 1% excellent. Activities: Harvesting potatoes, moving livestock, harvesting apples, cultivating for fall plantings.

**ILLINOIS:** Low pressure front drifting across the midwest produced cooler temperatures, rain, thunderstorms late in the week across State. Highs in the low to mid 70s. Lows in the upper 40s to mid 50s. Coolest readings were in the mid 40s. Precipitation averaged around 1.00 to 2.50 in. throughout the State.

Days suitable for fieldwork 5.5. Soil moisture 63% short, 37% adequate. Soybeans turning yellow 96%, 83% 1993, 87% avg. Pasture feed 76% of normal. Soil moisture supplies continued to be mostly short in the central, southern districts. Crop conditions remained good throughout the State. Farm activities included: Chopping silage, seeding winter wheat, preparing for harvest, baling hay, harvesting pumpkins, apples, popcorn, green beans, fall tillage, applying fertilizer, hauling grain, tending livestock.

**INDIANA:** Much needed rain arrived on 23rd, weekend. Cooler air spread across State late in week. High temperatures in the mid to upper 70s, mostly 3 to 7° above normal in the north, 2 to 3° below normal in the south. Lows averaged in the 50s across State, normal to 2° below normal south. Coolest readings were in the low 40s to around 50°. Rainfall 0.50 to 2.75 in. over most of the State. Over 2.00 in. were reported in portions of the west central, south. Rainfall below normal in the north, east central regions.

Days suitable for fieldwork 5.9. Corn, soybean harvest made good progress before rain arrived. Other activities: Seeding winter wheat, harvesting seed corn, cutting corn silage, harvesting tobacco, final hay, mint cuttings, machinery maintenance, preparing for fall harvest. Pastures feed 64% of normal, 70% last week. Topsoil 81% short, 19% adequate. Subsoil 64% short, 36% adequate. Soybeans mature 60%, 32% 1993, 34% avg., turning color 98%, 95% 1993, 88% avg. Corn silage chopped 75%, 70% avg. Tobacco harvested 83%, 82% 1993, 79% avg.

**IOWA:** Temperatures 2° below to 3° above normal. Extremes 37°, 87°. Rainfall 0.54 to 5.78 in.; average 1.94 in.

Days suitable for fieldwork 5.0. Topsoil 29% short, 61% adequate, 10% surplus. Subsoil 27% short, 67% adequate, 6% surplus. Soybeans lodging 24% none, 68% light, 8% moderate, 0% heavy; shattering 31% none, 61% light, 6% moderate, 2% heavy. Winter wheat acreage seeded 15%, 8% 1993, 21% avg. 1995 row crop acreage fall tilled 2%, 0% 1993, 0% avg. 1995 row crop acreage fall fertilizer applied 2%, 0% 1993, 0% avg. Pasture feed 12% poor, 28% fair, 45% good, 15% excellent.

**KANSAS:** Temperatures 2° below normal northwest; 4 to 6° below normal elsewhere. Precipitation fell all areas, 0.12 in. northwest to 1.44 in. east central.

Days suitable for fieldwork 5.5. Surface soil moisture 63% short to very short, 34% adequate, 3% surplus. Subsurface moisture 57% short to very short, 43% adequate. Fall crop harvest made good progress even

though some areas were slowed by rain late in the week. Northeast, north central counties report sorghum lodging due to stalk rot, drought stress earlier in the season. Beneficial rains improved prospects for late, double crop soybeans. Winter wheat emerged 20%, 15% 1993, 10% avg. Winter wheat seeding progressed rapidly in western third of State. Much needed rain fell in many drier areas that were waiting for moisture before seeding wheat. Alfalfa 4th cutting 80%, 55% 1993, 60% avg. Fall crop harvest, seeding wheat major activities. Pasture feed fair condition. Ranchers moving cattle to alternate pastures, supplementing feed in many areas.

**KENTUCKY:** Cooler, wetter than normal western half; normal conditions east. Temperatures 3 to 5° below normal within 2° normal east. Precipitation mostly average or better in west. East precipitation near or below avg.

Days suitable for fieldwork 4.9. Soil moisture 15% very short, 53% short, 32% adequate. Burley tobacco 90% cut, 83% 1993, 85% avg. Dark tobacco 92% cut, 88% 1993, 86% avg. Soybean mostly good. Corn 80% mature, 84% 1993, 75% avg. Pasture feed mostly fair, weekend rains beneficial.

**LOUISIANA:** Temperatures 2.4 to 5.8° below normal. Extremes 45°, 90°. Rainfall none most areas to 0.22 in. north central.

Days suitable for fieldwork 5.7. Soil moisture 24% short, 70% adequate, 6% surplus. Corn 100% harvested, 98% 1993, 99% avg. Cotton 18% harvested, 15% 1993, 20% avg. Harvest gained momentum. Hay 84% final cutting, 85% 1993, 83% avg. Harvest moved quickly with the dry, cool weather. Rice 78% ripe, 94% 1993, 96% avg. Harvest continued, second crop management was active in the southern parishes. Soybeans 67% turning color, 77% 1993, 66% avg. Harvest of early soybeans was active. Sugarcane 21% fair, 79% good; 83% planted, 84% 1993, 67% avg. Planting moved swiftly, preparation for the start of harvest was active. Sweet potatoes 22% fair, 72% good, 6% excellent; 59% harvested, 47% 1993, 50% avg. Some bruising was reported because of dry soil conditions. Wheat 1% planted, 0% 1993, 1% avg. Livestock 12% poor, 57% fair, 31% good. Winter herd management was active. Pasture feed 2% poor, 6% fair, 90% good, 2% excellent. Vegetables 31% fair, 65% good, 4% excellent.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 2.31 in., normal 0.80 in. Temperature 65.9°, normal 67.5°. Extremes 38°, 90°.

Days suitable for fieldwork 4.7. Topsoil 11% short, 89% adequate. Subsoil moisture 21% short, 79% adequate. Pasture feed good. Barley 12% planted, 11% 1993, 14% avg. Rye 11% planted, 12% 1993, 14% avg. Corn fair to mostly good; 96% dent, 100% 1993, 92% avg.; 70% mature, 76% 1993, 67% avg.; 19% grain harvested, 26% 1993, 22% avg. Silage 51% harvested, 75% 1993, 67% avg. Soybeans good; 100% setting pods, 98% 1993, 98% avg.; 52% turned, 50% 1993, 49% avg.; 21% shedding leaves, 20% 1993, 21% avg. Sorghum good; 78% turned, 71% 1993, 90% avg.; 18% mature, 22% 1993, 63% avg. Tobacco good; 100% topped, 97% 1993, 99% avg.; 94% harvested, 79% 1993, 90% avg. Sweet corn 99% harvested, 100% 1993, 99% avg. Other hay 84% third cut, 76% 1993, 56% avg.; 41% fourth cut, 29% 1993, 17% avg. Alfalfa hay 82% fourth cut, 73% 1993, 55% avg. Hay supplies adequate. Apples 56% harvested, 46% 1993, 47% avg.

**DELAWARE:** Precipitation 2.88 in., normal 0.82 in. Temperature 65.6°, normal 68.3°. Extremes 46°, 88°.

Days suitable for fieldwork 3.5. Topsoil 17% short, 50% adequate, 33% surplus. Subsoil 17% short, 50% adequate, 33% surplus. Barley 5% planted, 19% 1993, 11% avg. Corn fair; 71% mature, 81% 1993, 73% avg.; 13% grain harvested, 34% 1993, 33% avg.; silage 82% harvested, 93% 1993, 85% avg. Soybeans fair; 99% setting pods, 96% 1993, 98% avg.; 32% turned, 38% 1993, 34% avg.; 15% shedding leaves, 18% 1993, 14% avg. Sorghum fair to mostly good; 45% turned, 41% 1993, 66% avg.; 20% mature, 11% 1993, 33% avg. Other hay 84% third cut, 72% 1993, 86% avg. Alfalfa hay 70% fourth cut, 50% 1993, 61% avg. Hay supplies adequate; pasture feed good. Apples 64% harvested, 58% 1993, 53% avg.

**MICHIGAN:** Weather data not available.

Days suitable for fieldwork 6.5. Soil moisture 40% short, 60% adequate. Dry beans 85% shedding, 95% 1993, 90% avg.; 100% turning, 100% 1993, 99% avg.; 10% very poor, 15% poor, 35% fair, 30% good, 10% excellent. Potatoes 70% harvested, 55% 1993, 55% avg. Hay 75% third cutting, 60% 1993, 65% avg.; 1% very poor, 4% poor, 25% fair, 45% good, 25% excellent. Pasture feed 80% of normal. Major activities included: Fruit harvest, cutting hay, planting wheat, corn silage harvest, corn grain, soybean harvest, harvest, potato harvest, dry bean harvest.

**MINNESOTA:** Temperatures 5 to 8° above normal. Extremes 36°, 87°. Precipitation 0.40 in. below normal in the northwest to 1.00 in. above normal in the southeast. Weekly total 2.30 in.

Days suitable for fieldwork 3.7. Topsoil 61% adequate, 39% surplus. Corn 86% mature, 6% 1993, 43% avg.; harvested 3%, NA 1993, 2% avg.; cut for silage 51%, 11% 1993, 32% avg.; moisture content 29%. Soybeans

shedding leaves 97%, 20% 1993, 70% avg.; mature 47%, 3% 1993, 32% avg.; harvested 10%, 1% 1993, 6% avg.; moisture content 15%. Potatoes 41% harvested, 38% 1993, 45% avg. Dry edible beans 63% harvested, 41% 1993, 63% avg. Sweet corn for processing 96% harvested, 80% 1993, 87% avg. Flaxseed 59% harvested, 46% 1993, 62% avg. Sugarbeets 11% harvested, 11% 1993, 8% avg. Sunflowers 5% harvested, 3% 1993, 6% avg. Grain/hay stubble 79% worked, 38% 1993, 57% avg. Rye 89% seeded (Fall), 67% 1993, 80% avg. Winter wheat 95% seeded (Fall), 53% 1993, 79% avg. Corn 3% poor, 10% fair, 65% good, 22% excellent. Soybeans 1% very poor, 4% poor, 22% fair, 61% good, 12% excellent.

**MISSISSIPPI:** Temperatures 4.1° below normal. Extremes 43°; 89°. Soil temperature 77°. Precipitation 0.51 in., 0.38 in. below normal. Southeast district accumulated 1.29 in. Beaumont received the greatest one day precipitation with 3.80 in. Cool temperatures delayed defoliation and maturing of cotton. Rain delayed harvest of some crops and the lack of rain delayed germination of ryegrass, winter grazing.

Days suitable for fieldwork 5.6. Soil moisture 36% short, 58% adequate, 6% surplus. Corn 74% harvested, 62% 1993, 61% avg.; 99% silage harvested, 92% 1993, 95% avg.; 7% fair, 41% good, 52% excellent. Cotton 95% open bolls, 89% 1993, 86% avg.; 13% harvested, 4% 1993, 13% avg.; 1% poor, 25% fair, 70% good, 4% excellent. Rice 96% mature, 69% 1993, 81% avg.; 67% harvested, 30% 1993, 45% avg.; 69% good, 31% excellent. Sorghum 85% harvested, 63% 1993, 65% avg.; 92% silage harvested, 87% 1993, 90% avg.; 2% poor, 47% fair, 46% good, 5% excellent. Soybeans 87% turning color, 60% 1993, 63% avg.; 57% shedding leaves, 31% 1993, 34% avg.; 24% harvested, 3% 1993, 6% avg.; 23% fair, 41% good, 36% excellent. Wheat 6% planted, 3% 1993, 8% avg. Peanuts 35% harvested, 74% 1993, 75% avg. Sweet potatoes 60% harvested, 49% 1993, 52% avg. Pecans 13% very poor, 13% poor, 54% fair, 20% good. Livestock 16% fair, 79% good, 5% excellent. Pasture feed 78% of normal. Activities: Soybean, rice harvest, planting ryegrass, winter grazing, finishing cotton defoliation. Cotton harvest is underway.

**MISSOURI:** Temperatures below normal across the State, 6° below normal at Columbia, Springfield to 2° below normal at St. Louis. Rainfall 1.13 in., 0.72 in. southwest to 1.78 in. west central.

Days suitable for fieldwork 5.2. Topsoil 56% short, 43% adequate, 1% short. Corn harvest by district ranges from 12% central to 81% southeast. Soybeans dropping leaves by district ranges from 29% southeast to 81% northwest. Soybeans harvested by district ranges from none in southeast to 12% north central. Sorghum mature by district ranges from 49% northeast to 99% southeast. Sorghum harvest by district ranges from 8% north central, northeast, central to 54% southeast. Pasture feed 2% very poor, 22% poor, 58% fair, 17% good, 1% excellent.

**MONTANA:** Temperatures 5 to 10° above normal first half of week, slightly below normal mid-week on. Light to moderate precipitation east of Rockies with greatest amount in south central division.

Days suitable for fieldwork 6.1. Topsoil 72% short, 27% adequate, 1% surplus. Subsoil 81% short, 18% adequate, 1% surplus. Dry beans 93% harvested, 15% 1993, 54% avg. Corn for silage 82% harvested, 40% 1993, 52% avg. Potatoes 25% harvested, 0% 1993, 7% avg. Sugarbeets 5% harvested, 0% 1993, 2% avg. Pasture, range feed 70% of normal. Cattle, calves moved from summer ranges, 28%. Sheep, lambs moved from summer ranges, 30%.

**NEBRASKA:** Temperatures near normals northeast with remainder of State 1 to 5° below normals. Precipitation end of week 0.04 in. north central to 2.88 in. northeast.

Days suitable for fieldwork 5.3. Topsoil 47% short, 45% adequate, 8% surplus. Subsoil 33% short, 67% adequate. Corn 1% poor, 10% fair, 64% good, 25% excellent; 92% mature, 35% 1993, 61% avg.; 11% harvested, 1% 1993, 8% avg. Soybean 5% fair, 73% good, 22% excellent; 96% dropping leaves, 50% 1993, 64% avg.; 32% harvested, 2% 1993, 10% avg. Sorghum 9% fair, 71% good, 20% excellent; 90% mature, 20% 1993, 48% avg.; 9% harvested, 0% 1993, 7% avg. Dry beans 94% harvested, 40% 1993. Winter wheat 82% sown, 67% 1993, 70% avg.; 44% emerged, 7% 1993, 27% avg. Pasture, range feed 83% of normal.

**NEVADA:** Widely scattered afternoon, evening thunderstorms brought measurable precipitation to many parts of the State on 20th, 21st. Southern areas received the most precipitation, with Las Vegas recording 0.35 in. Another round of thunderstorms moved across the Sierra, western areas on 24th bringing hail, frequent lightning. Several small wildfire started due to lightning, but accompanying precipitation extinguished most. Temperatures above normal; 4° above normal extreme south, 8° above normal in the northeast. Temperature extremes 102° Logandale, 22° Mountain City.

Alfalfa harvest remained active statewide. Other hay harvest complete. Onion digging continued. Movement of livestock to Fall pastures, markets continued. Main farm, ranch activities: Haying, moving livestock.

**NEW ENGLAND:** Precipitation 0.03 to 5.25 in. regionwide. Temperatures 51 to 61° north; 56 to 64° south. Temperatures 1° above normal regionwide. Maximum temperatures 66 to 89° north; 74 to 84° south. Minimum temperatures 31 to 45° north; 31 to 49° south.

Days suitable for fieldwork 5. Soil moisture 3% short, 74% adequate, 23% surplus. Available grazing 7% short, 89% adequate, 4% surplus. Fieldwork one day behind schedule. Maine potatoes 35% harvested, 35% 1993, 40% avg.; good/fair. Connecticut River Valley potatoes 70% harvested, 65% 1993, 50% avg.; good. Maine oats 90% harvested, 90% 1993, 90% avg.; good/fair. Field corn 35% harvested, 25% 1993, 25% avg.; good. Shade tobacco good. Outdoor tobacco good. Second crop hay 95% harvested, 90% 1993, 90% avg.; good. Third crop hay 80% harvested, 60% 1993, 60% avg.; good. Sweet corn 99% harvested, 95% 1993, 95% avg.; good. Apples 50% harvested, 40% avg.; size medium, good, color good. Peaches size medium, 99% harvested, fair. Pears 95% harvested; size medium, good. Cranberries 20% harvested; size medium/large, condition good/excellent. Major farm activities: Chopping silage corn, harvesting fruits, vegetables, disking down harvested fields, planting cover crops.

**NEW JERSEY:** Temperatures above normal. Extremes 40°; 81°. Rainfall 0.81 in. north, 1.37 in. central, 1.65 in. south. Heaviest 24 hour total 2.45 in. on 22nd, 23rd. Estimated soil moisture, in percent field capacity, 82% north, 88% central, 82% south. Four inch soil temperatures 63° north, 65° central, 67° south.

Days suitable for fieldwork 5. Parts of central, southern areas received significant rainfall, limiting fieldwork. Harvesting fall vegetables was the major farming activity for the week. Good supply of eggplants, beans, cucumbers, green squash, peppers. Moderate supply of endive, escarole, herbs, parsley, sweet corn, pumpkins, turnips, leeks, tomatoes. Limited supply of okra, green onions. Fall varieties of apples being harvested: Red Delicious, Macintosh, Macoun. Cranberry quality reported as good with harvest expected to start soon.

**NEW MEXICO:** Temperatures a bit below normal in the extreme northeast, also part of the southwest mountains; close to normal elsewhere. Statewide average was within a degree of normal. Agricultural areas over portions of the northeast and central sections of the State experienced the first freeze of the season. Precipitation was light and only at isolated locations over the northern half. Star Lake (0.14 in.), Chama (0.11 in.) were the only spots to receive over a tenth of an inch.

Days suitable for fieldwork 6.8. Soil moisture 88% short, 12% adequate. Cropland conditions: Alfalfa 21% fair, 79% good. Chile 6% poor, 22% fair, 72% good. Corn 17% poor, 33% fair, 44% good, 6% excellent. Irrigated sorghum 25% fair, 75% good. Dryland sorghum 75% poor, 25% fair. Cotton 23% fair, 62% good, 15% excellent. Pecans 30% fair, 70% good. Apples 10% very poor, 10% poor, 80% good. Cattle, sheep conditions varied across the State from poor to good condition. Range feed 54% of normal.

**NEW YORK:** Extremes 32°; 83°. Coolest mornings 19th, 20th. Showers fell on 19th, 20th east of Lake Ontario. High temperatures occurred on the 21st. Latter half of week brought mild nights, cool days.

Days suitable for fieldwork 6.1. Soil moisture adequate, except short in southeast. Pasture feed 94% of normal. Corn good to excellent. Silage 13% harvested, 23% 1993, 21% avg. Hay good condition. Alfalfa third cutting 81% harvested, 71% 1993, 68% avg. Oat harvest complete. Dry bean harvest well underway. Potato harvest continued. Apple harvest picking up momentum. Progress slightly ahead of average. Bosc pear harvest to begin soon. Orange County onions 90% harvested. Yields down. Late corn still being picked. Other vegetable harvests slowing.

**NORTH CAROLINA:** Mean temperature 62° at Asheville to 72° at Cape Hatteras. Rainfall 0.15 in. at Raleigh to 5.71 in. at Wilmington.

Days suitable for fieldwork 5.6. Soil 1% very short, 18% short, 72% adequate, 9% surplus. Crop conditions: Pasture feed 23% fair, 72% good, 5% excellent; tobacco 24% fair, 65% good, 11% excellent; cotton 2% very poor, 4% poor, 32% fair, 59% good, 3% excellent; cotton 13% fair, 77% good, 10% excellent; peanuts 20% fair, 74% good, 6% excellent; soybeans 13% fair, 85% good, 2% excellent; hay 22% fair, 73% good, 5% excellent; sweet potatoes 8% fair, 77% good, 15% excellent; apples 18% fair, 76% good, 6% excellent; sorghum 2% poor, 17% fair, 73% good, 8% excellent; hay, roughage supplies 12% short, 81% adequate, 7% surplus; corn for grain harvested 53%, 62% 1993, 51% avg.; corn for silage harvested 80%, 88% 1993, 81% avg.; burley tobacco harvested 87%, 65% 1993, 72% avg.; flue-cured tobacco harvested 88%, 79% 1993, 89% avg.; sorghum 42%, 27% 1993, 26% avg.; apples harvested 52%, 49% 1993, 59% avg.; sweet potatoes harvested 31%, 12% 1993, 19% avg.; peanuts dug 11%, 7% 1993, 10% avg.; wheat planted 11%, 10% 1993, 7% avg.; oats planted 12%, 10%

1993, 9% avg.; barley planted 13%, 9% 1993, 8% avg.; rye planted 15%, 10% 1993, 12% avg.; cotton open bolls 83%, 91% 1993, 77% avg.; soybeans leaf drop 19%, 17% 1993, 18% avg.; second cutting of hay is 93% complete with the third cutting 58% complete. Activities included: harvesting tobacco, corn, hay, marketing tobacco. Other activities included: Tending livestock; equipment repair, general farm maintenance.

**NORTH DAKOTA:** Week began, ended with warm temperatures, mid week conditions were cool, damp. Precipitation 0.09 in. northeast to 0.41 in. southeast. Temperatures 5° above normal southeast to 9° above normal north central. Extremes 24° west central; 89° south central.

Days suitable for fieldwork 6.2. Topsoil 9% very short, 21% short, 64% adequate, 6% surplus. Subsoil 7% very short, 27% short, 58% adequate, 8% surplus. Small grain harvest neared completion well ahead of last year. Hard red spring wheat 95% combined, 79% 1993, 93% avg.; durum wheat 92% combined, 56% 1993, 86% avg.; barley 99% combined, 90% 1993, 97% avg.; oats 100% combined, 90% 1993, 97% avg. Late season crop development ahead of last year but most behind average. Flaxseed 52% combined, 23% 1993, 66% avg.; corn for grain 41% ripe and beyond, 6% 1993, 40% avg.; corn for silage 41% cut, 40% 1993, 65% avg.; dry edible beans 45% combined, 22% 1993, 54% avg.; soybeans 12% combined, 4% 1993, 19% avg.; sunflower 52% bracts turned brown and beyond, 30% 1993, 58% avg.; sugarbeets 12% lifted, 8% 1993, 8% avg.; potatoes 64% dug, 66% 1993, 62% avg. Condition: flaxseed 2% poor, 14% fair, 75% good, 9% excellent; corn for grain 1% poor, 13% fair, 71% good, 15% excellent; corn for silage 3% very poor, 5% poor, 19% fair, 66% good, 7% excellent; dry edible beans 1% very poor, 8% poor, 22% fair, 58% good, 11% excellent; soybeans 7% poor, 16% fair, 69% good, 8% excellent; sunflower 1% very poor, 2% poor, 11% fair, 68% good, 18% excellent; sugarbeets 2% poor, 5% fair, 79% good, 14% excellent; potatoes 2% poor, 5% fair, 78% good, 15% excellent. Indicated acres planted, winter wheat 47%, rye 44%. Range, pasture feed 81% of normal. Stockwater supplies 9% short, 90% adequate, 1% surplus.

**OHIO:** Warm weather early in the week pushed average high temperatures as much as 8° above normal in parts of the north with deviations 2 to 4° above normal common in the south. Highs mid 70s to around 80° with the highest readings in the low to mid 80s. Average lows, 1 to 3° above normal, ranged from the upper 40s to the mid 50s with lowest readings in the low 40s. Wet weather developed late in the week. Showers were variable. Rain totals exceeded 1.00 in. at a few locations, mostly in the central or east part of the State. Rainfall under 0.25 in. parts of the west. Bare soil temperatures at the 4-in. level were in the upper 60s to around 70°. That is at or above normal for the period. Lowest readings were in the low 60s for most of the State.

Days suitable for fieldwork 6.3. Crop condition remained good. Vegetable harvest continued. Soil moisture 45% short, 54% adequate, 1% surplus. Soybeans mature 34%, 40% 1993, 30% avg. Corn mature 38%, 43% 1993, 34% avg. Tomato harvest 67% complete. Potato harvest 61% complete. Corn for silage harvest 48% complete. Fall apple harvest 23% complete. Grape harvest is 27% complete. Hay 1% very poor, 5% poor, 27% fair, 57% good, 10% very good. Alfalfa hay fourth cutting 35% complete. Other hay third cutting 74% complete. Pasture feed 3% very poor, 12% poor, 33% fair, 45% good, 7% excellent.

**OKLAHOMA:** Temperatures 6° below normal in the Panhandle to 11° below in the southeast. Precipitation 0.07 in southwest to 1.30 in. central.

Days suitable for fieldwork 5.8. Topsoil 47% short, 42% adequate, 11% surplus. Subsoil 41% short, 59% adequate. Corn 3% poor, 1% fair, 96% good; 88% mature, 97% 1993, 94% avg., 73% harvested, 79% 1993, 69% avg. Soybeans 64% mature, 42% 1993, 26% avg.; 32% harvested, 10% 1993, 6% avg. Peanuts 16% fair, 84% good; 47% mature, 45% 1993, 53% avg.; 9% harvested, 1% 1993, 3% avg. Cotton 12% poor, 59% fair, 29% good; 74% open bolls, 58% 1993, 36% avg.; 6% harvested, 2% 1993, 1% avg. Pasture feed 94% normal. Feeder steers and heifers \$1.00 to \$2.00 per cwt. lower.

**OREGON:** Temperatures 5 to 15° above normal. High pressure reduced any chances of substantial rainfall. Coast 0.01 to 0.02 in., elsewhere dry.

Soil moisture 83% short, 17% adequate. Barley 98% harvested, less than 1% planted. Winter wheat 11% planted, 1% emerged. Seeding of grass seed underway, corn silage harvest underway, hop harvest nearing completion, Willamette Valley. 1995 eastern winter wheat, barley seeding delayed, producers waiting for moisture; some reseeding expected, due to poor emergence. Carrot, onion seed harvest underway, central section. Potato, onion harvest continued, Klamath Basin & Malheur Co. Willamette Valley: broccoli, cabbage, onion, sweet corn harvest underway, late cauliflower plantings continued, pumpkins ripened fast, potato digging continued, apple, pear picking continued,

late prune harvest winding down, pruning, training caneberries continued, hazelnuts, walnuts dropping, wine grape harvest underway. Hood River Valley: Anjou pear harvest continued, Bosc, Comice pear harvest winding down, apple harvest continued. Rogue River Valley/Medford district pear harvest continued. South coast: cranberry growers irrigated, heat prevention; harvest expected week of 9/26. Livestock good. Rangeland, forest land extremely dry; one major forest fire burning, southern areas. Supplemental feeding, hauling stock water continued, statewide. Early calf weaning continued, due to dry ranges; calves coming off ranges lighter than normal. Range, pasture feed 57% of normal.

**PENNSYLVANIA:** Sunny through 21st. Rains, cloudy rest of week. Temperature 65°, 3° above normal. Extremes 37°; 86°. Precipitation 0.55 in., 0.29 in. below normal.

Days suitable for fieldwork 5. Soil moisture 23% short, 77% adequate. Ensilage corn harvested 34% complete, 41% 1993. Soybean harvest 0% complete, 3% 1993; 4% poor, 17% fair, 41% good, 38% excellent. Wheat planted 40% complete, 33% 1993. Barley planted 43% complete, 40% 1993. Tobacco harvest 97% complete, 93% 1993. Potato harvest 61% complete, 62% 1993. Third cutting alfalfa 90% complete, 89% 1993. Fourth cutting alfalfa 60% complete, 52% 1993. Second cutting clover-timothy 96% complete, 100% 1993. Quality of hay made 4% poor, 59% fair, 37% good. Feed from pastures good to excellent. Apple harvest 48% complete, 49% 1993. Grapes harvest 39% complete, 50% 1993. Fall plowing 60% complete, 62% 1993. Activities: Making hay; harvesting tobacco, potatoes, corn silage; starting corn grain harvest; plowing; planting winter small grains; repairing equipment; fixing fences; hauling manure; caring for livestock.

**PUERTO RICO:** Rainfall 3.77 in. was 0.92 in. below normal. Highest total rainfall 8.12 in. at Maricao 2SSW, 5.91 in. at Ensenada, 5.70 in. at Guayama. Island temperatures 79 to 80° on the coasts, 75 to 77° interior with mean station temperature 82.3° at San Juan WSFO to 67.3° at Pico del Este. Extremes 58°; 94°.

**SOUTH CAROLINA:** Rainfall 2.50 in.; temperatures 1° below normal.

Days suitable for fieldwork 5.9. Soil moisture 38% short, 60% adequate, 2% surplus. Tobacco good; 99% harvested, 87% 1993, 96% avg.; 78% stalks destroyed, 55% 1993, 56% avg. Corn fair to good; 82% harvested, 80% 1993, 79% avg. Cotton 4% fair, 85% good, 11% excellent; 63% open bolls, 89% 1993, 80% avg.; 4% harvested, 11% 1993, 8% avg. Soybeans 23% fair, 68% good, 9% excellent; 99% setting pods, 95% 1993, 97% avg.; 18% leaves turning, 23% 1993, 24% avg. Apples good; 68% harvested, 55% 1993, 74% avg. Sorghum fair to good; 38% harvested, 41% 1993, 43% avg. Fall hay good; 70% harvested, 54% 1993, 66% avg. Pasture feed 28% fair, 65% good, 7% excellent.

**SOUTH DAKOTA:** Unseasonably cool mid week, warm early, late. Temperatures 1° below normal to 6° above normal. Extremes 29°; 91°. Scattered light precipitation mostly below normal, heaviest southeast.

Days suitable for fieldwork 5.2. Topsoil 20% very short, 43% short, 34% adequate, 3% surplus. Subsoil 17% very short, 36% short, 43% adequate, 4% surplus. Sunflower 5% fair, 62% good, 33% excellent; 8% harvested, 1% 1993, 8% avg. Blackbirds caused some damage to sunflower heads. Livestock 5% fair, 79% good, 16% excellent. Feed supply 15% short, 72% adequate, 13% surplus. Pasture feed 81% of normal. Stockwater supply 1% very short, 11% short, 78% adequate, 10% surplus. Ranchers moved cattle to fall pastures, vaccinated calves, moved hay to winter headquarters.

**TENNESSEE:** High pressure dominated State weather 19th into 22nd causing dry weather. Cold front moved into western areas 22nd night, moved slowly across the State 23rd through 24th bringing showers, thunderstorms to most locations. Temperatures below normal over the entire State. Readings 2° below normal in Chattanooga to 8° below normal in Dyersburg.

Days suitable for fieldwork 5.4. Soil moisture 22% short, 76% adequate, 2% surplus. Corn 89% mature, 91% 1993, 88% avg.; 40% grain harvest, 33% 1993, 33% avg.; 85% silage harvest, 88% 1993, 80% avg.; cotton 94% open bolls, 92% 1993, 78% avg.; 8% harvested, 11% 1993, 8% avg.; 99% good, 1% excellent. Burley 89% harvested, 83% 1993, 87% avg. Dark fire-cured 94% harvest, 86% 1993, 88% avg. Dark air-cured 93% harvest, 83% 1993, 87% avg. Sorghum 93% mature, 93% 1993, 83% avg.; 47% grain harvest, 57% 1993, 39% avg.; Soybeans 30% shedding, 37% 1993, 30% avg.; 16% mature, 13% 1993, 13% avg.; 2% harvested, 0% 1993, 0% avg.; 11% fair, 83% good, 6% excellent. Wheat 4% seeded, 3% 1993, 6% avg.; cattle, 8% fair, 84% good, 8% excellent. Pasture feed 1% poor, 22% fair, 70% good, 7% excellent.

**TEXAS:** Strong cold front moved through the State during the middle of the week, brought much cooler air, generally dry conditions. A few showers developed along, just behind the front in northern, western

sections of the State. However, amounts were generally very light. Otherwise, skies remained mostly clear with several sections of the State remaining dry for the entire week. For the week, all areas of the State were one half to one and one half inches below normal with average weekly rainfall amounts near one tenth inch or less. East Texas, South Central, Coastal Bend, Upper Coast, South Texas, and the Lower Valley did not record any rainfall. Temperatures much below normal for the week with a few record lows set. Temperatures generally between 5 to 8° below normal, 3° below normal in the Northern High Plains to 10° below normal in the Cross Timbers.

**Crops:** Corn muddy fields in the Blacklands delayed harvest early, mid week harvest continued. In the Plains, harvest was active all week. Corn 82% normal, 84% 1993. Cotton defoliation activities got back in full swing in most areas except the Plains. A few fields were harvested in the Trans-Pecos. In the Plains, cotton continued to mature rapidly until the cold front moved through. Cooler temperatures slowed maturity slightly, but early harvest activities continued at a faster than normal pace. Regrowth continued to cause problems in some fields. Cotton 62% normal, 78% 1993; 27% harvested, 26% 1993. Peanuts: cooler temperatures helped decrease disease problems in many fields. Harvest activities increased, but some delays remained due to wet fields. Peanut 83% normal, 68% 1993; 8% harvested, 6% 1993. Rice: cooler weather conditions caused minimal delays to remaining rice harvest along Upper Coast. Sorghum in the High Plains, mild temperatures during first of week helped fields mature as harvest continued. Harvest was virtually complete in Blacklands. Sorghum 66% normal, 83% 1993; 92% turning color, 95% 1993. Soybeans: late soybeans continued to make good progress, showed signs of improvement. Harvest activities increased 31% harvested, 31% 1993. Small grains: winter wheat planting activities proceeded throughout the Plains, East Texas. Some delays occurred at beginning of week due to wet soils. Earlier planted fields emerged to good stands, made good progress. Oat planting activities remained constant in the Blacklands. Some problems with army worms were reported in a few fields in Blacklands. Producers throughout South Texas were busy with land preparations for planting. Wheat 19% emerged, 17% 1993; 23% oats planted, 20% 1993; sunflowers 26% harvested, 23% 1993. Sugarbeets 0% harvested, 5% 1993.

**Commercial Vegetables:** Rio Grande Valley onion, tomato, peppers, watermelons made good progress. San Antonio Winter Garden fall cabbage planting was virtually complete. Trans Pecos harvest of chilies, peppers was active. Some fields of pimientos were harvested. East Texas sweet potato harvest was nearing completion. Fall vegetable planting preparations continued. High Plains harvest of carrots, peppers, pumpkins continued. Pecans harvest got underway in South Texas, progressed at a good pace. Some irrigation was still ongoing in Trans-Pecos. Aphids, scab, weevils continued to cause problems in many orchards. In Blacklands, harvest preparations got underway.

**Range and Livestock:** Range, pasture feed conditions showed some signs of improvement. However, additional moisture is still needed. Hay harvest was active across most areas except for the Plains. Producers in some areas of East Texas were harvesting the third cutting of hay for the season. Supplemental feeding continued in the Trans-Pecos, Edwards Plateau. Cooler temperatures helped livestock conditions improve.

**UTAH:** Temperature 2° above normal; minimums 2° above normal. Precipitation light to moderate.

Days suitable for fieldwork 6.8. Soil moisture 100% short. Irrigation water supply 48% very short, 51% short, 1% adequate. Stockwater supply 41% very short, 56% short, 3% adequate. Winter wheat planted for 1995 crop 50%, 63% 1993, 66% avg.; emerged for 1995 crop 11%, 36% 1993. Corn matured 84%, 46% 1993, 56% avg.; harvested for silage 56% completed, 27% 1993, 51% avg.; harvested for grain 5% completed. Alfalfa: 3rd cutting 91%, 79% 1993, 85% avg.; 4th cutting 34%, 16% 1993, 35% avg.; harvested for seed 68%, 78% 1993, 70% avg. Apples harvested 38%, 15% 1993, 39% avg. Onions harvested 58%, 53% 1993, 64% avg. Potatoes harvested 53%, 28% 1993, 40% avg. Dry beans harvested 11%. Cattle moved from summer range 47%, 27% 1993, 33% avg. Sheep moved from summer range 39%, 25% 1993, 37% avg. Pasture, range feed poor to fair. Major farm activities: Harvesting alfalfa hay, oats, apples, onions, potatoes, corn silage, planting winter wheat. Ranchers continued to move cattle, sheep from summer pastures.

**VIRGINIA:** Temperatures below normal. Extremes 38°; 94°. Rainfall above normal.

Days suitable for fieldwork 5.6. Topsoil moisture 1% very short, 61% short, 35% adequate, 3% surplus. Pasture feed 13% poor, 57% fair, 30% good. Livestock 16% fair, 82% good, 2% excellent. Corn for grain harvest 48%, 50% 1993, 44% avg.; for silage harvested 65%, 75% 1993, 76% avg.; dented 99%, 99% 1993, 96% avg.; mature 84%, 96% 1993, 92% avg. Soybeans 77% fair, 23% good; harvested 3%, 2% 1993, 2%

avg. Peanut 67% fair, 33% good; dug 15%, 9% 1993, 21% avg.; combined 8%, 2% 1993, 13% avg. Flue tobacco harvested 81%, 76% 1993, 85% avg. Burley tobacco harvested 84%, 76% 1993, 85% avg. Fire tobacco harvested 99%, 92% 1993, 98% avg. Sun tobacco harvested 90%, 99% 1993, 95% avg. Fall apples harvested 33%, 44% 1993, NA avg. Winter apples harvested 21%. Wheat seeded 10%, 4% 1993, 5% avg. Oats seeded 26%, 13% 1993, 19% avg. Barley seeded 19%, 12% 1993, 13% avg. Sweet potato harvest nearly 50% completed. Harvest snapbeans, cucumbers, tomatoes. Irrigating fall vegetables. Seeding cover crops, peanut harvest slow due to dry field conditions, cutting hay. Flue tobacco harvesting slowed by shortage of barn space.

**WASHINGTON:** Temperatures 2° above normal to 7° above normal west; 3° above normal to 9° above normal east. Precipitation none to 0.02 in. west; none east. Weather hot, dry.

Days suitable for fieldwork 7.0. Soil moisture 89% short, 11% adequate. Hay, other roughage supplies 4% very short, 13% short, 82% adequate, 1% surplus. Range, pasture feed 36% very poor, 39% poor, 12% fair, 13% good. Potatoes 4% fair, 96% good. Dry edible beans 8% fair, 92% good. Corn 4% fair, 95% good, 1% excellent. Winter wheat 46% planted, 69% 1993, 63% avg.; 31% emerged, 46% 1993, 37% avg. Potatoes 35% harvested, 51% 1993, 44% avg. Corn silage 55% harvested, 56% 1993, 56% avg. Dry beans 68% harvested, 52% 1993, 51% avg. Alfalfa, third cutting, 95% completed, 84% 1993, 91% avg. Winter wheat seeding continued slow in the east. Many producers waiting until the first week in October before deciding. Alfalfa seed harvest completed. Red Delicious apple harvest well underway, Wenatchee Valley. Grape harvest continued. Sweet corn harvest winding down. Cattle coming out of mountain pastures due to lack of feed, water.

**WEST VIRGINIA:** Temperature 63°. Extremes 40°; 87°. Precipitation 0.62 in.

Days suitable for fieldwork 5.5. Soil moisture 25% short, 75% adequate. Hay 6% fair, 85% good, 9% excellent; second cutting 85%, 95% 1993, 89% avg.; third cutting 75%, 80% 1993, 69% avg. Apples 70% poor, 30% fair. Corn 14% fair, 82% good, 4% excellent; dough stage 93%, 100% 1993, 96% avg.; mature 60%, 95% 1993, 66% avg.; harvested 20%, 36% 1993, 17% avg. Tobacco 41% fair, 59% good; harvested 72%, 70% 1993, 78% avg. Soybeans 10% fair, 90% good; dropping leaves 40%, 42% 1993. Pasture feed 32% fair, 48% good, 20% excellent; 88% of normal. Cattle 9% fair, 78% good, 13% excellent. Sheep 3% fair, 87% good, 10% excellent. Farm activities: Cutting hay, harvesting tobacco, corn silage, apples, clipping pastures, selling yearlings, equipment maintenance.

**WISCONSIN:** Temperature 64°, 9° above normal. Extremes 38°; 87°. Precipitation 0.50 to 2.60 in.

Days suitable for fieldwork 3.3. Soil moisture 11% short, 57% adequate, 32% surplus. Pasture feed 83%, 84% 1993, 81% avg. General condition of crops: 1% poor, 4% fair, 78% good, 17% excellent. Corn in dent or beyond 91%, 65% 1993, 77% avg.; mature 47%, 15% 1993, 35% avg.; harvested for grain 3%, 2% 1993, 2% avg.; silage harvested 31%, 7% 1993, 20% avg.; 57% good, 43% excellent. Soybean 5% fair, 74% good, 21% excellent; leaves turned 85%, 71% 1993, 73% avg.; leaves shedding 49%, 30% 1993, 36% avg. Third cutting hay harvested 74%, 65% 1993, 67% avg. Fall tillage 7%, 7% 1993, 7% avg. Warm weather in the early part of the week allowed farmers to harvest corn for silage, to begin fall tillage in the southern part of the State. As the week progressed drizzling rains, cloudy skies forced farmers out of fields. Rains were welcome in the southeastern part of the State. Farmers took advantage of the warm weather early in the week to put up hay. Corn harvested for silage was in full swing with reports of good yields. Most farmers feel that corn will be safe from frost damage. Soybeans shedding leaves, some farmers have harvested beans already. The early report on soybean yields is that they are better than average. Cranberry harvest started in the northern, central growing areas. Vegetable harvest nearing completion. Yields have been reported as very good.

**WYOMING:** Temperatures below normal for most of the State. The exception was the extreme west where temperatures up to 4° above normal. Precipitation also below normal except for the east where most of the precipitation fell as snow. Casper had the largest amount of precipitation with 0.52 in.

Days suitable for fieldwork 6.0. Topsoil 87% short, 13% adequate. Subsoil moisture 87% short, 13% adequate. Sugarbeets 7% harvested, 6% 1993, 10% avg. Dry beans 72% combined, 40% 1993, 55% avg. Corn 13% harvested, 1% 1993, 7% avg.; silage 87% harvested, 58% 1993, 68% avg. Third cutting of alfalfa 85% complete, 48% 1993, 90% avg. Winter wheat seedings for 1995 93% planted, 78% 1993, 83% avg.; 70% emerged, 29% 1993, 41% avg. Cattle, calves moved from summer ranges 50%, 33% 1993. Sheep, lambs moved from summer ranges 45%, 33% 1993. Stockwater supplies 82% short, 18% adequate.

# International Weather and Crop Summary

## HIGHLIGHTS

September 18 - 24, 1994

**FSU-WESTERN:** Drought intensified over eastern Ukraine and southern Russia, hampering winter wheat planting.

**FSU-NEW LANDS:** Several days of warm, dry weather in the Urals region of Russia and Kazakhstan favored spring grain harvesting.

**EUROPE:** Wet weather slowed corn harvesting but moistened emerging winter crops.

**AUSTRALIA:** The continuing drought, combined with near-freezing temperatures, stressed eastern vegetative to reproductive winter grains.

**SOUTH AMERICA:** Rain is needed for soybean planting and coffee flowering across south-central Brazil. Showers favored vegetative to reproductive winter wheat across central Argentina.

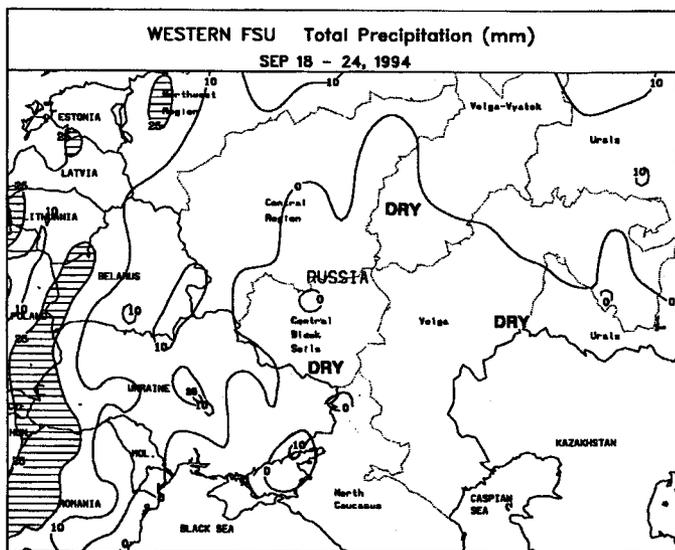
**SOUTH ASIA:** The monsoon continued its seasonal withdrawal, with beneficial rain limited to eastern rice areas.

**SOUTHEAST ASIA:** Northern Vietnamese rice areas remained unfavorably wet.

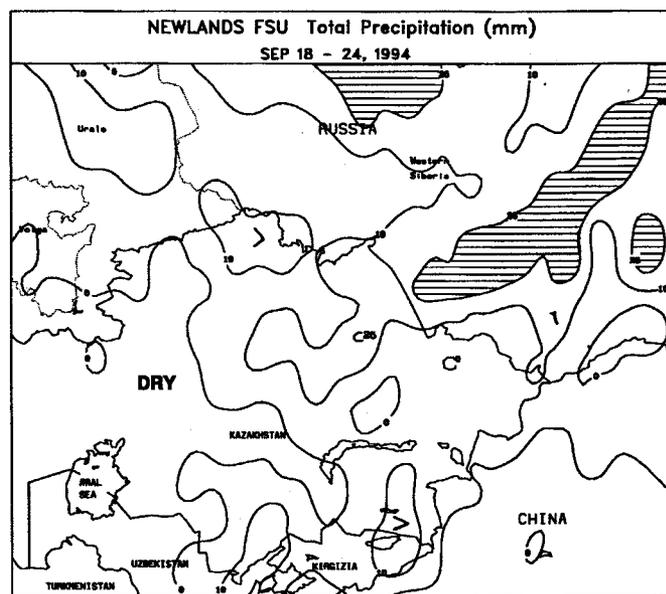
**EASTERN ASIA:** Dry weather aided maturing summer crops across the North China Plain, while scattered showers slowed southern crop harvesting.

**MEXICO:** Scattered showers benefited filling summer crops across the main corn belt.

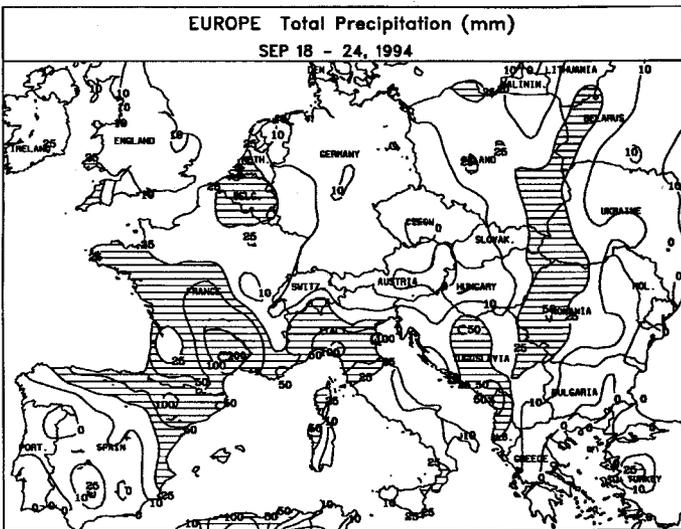
**CANADA:** Prairie grain and oilseed harvests made rapid progress.



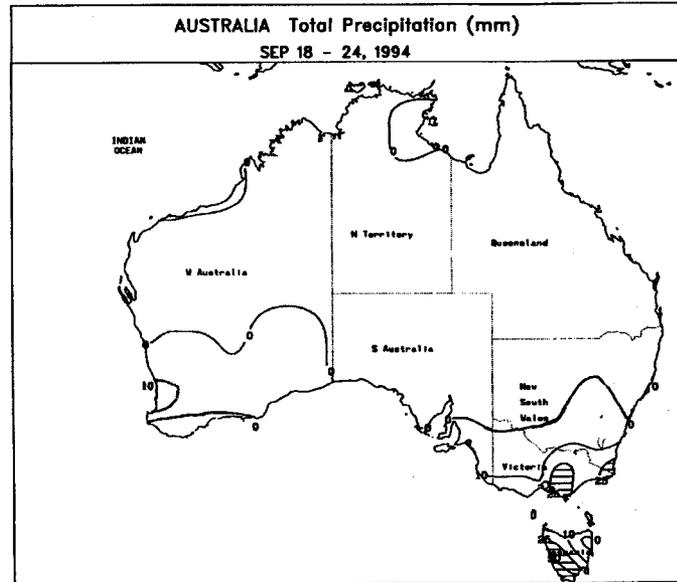
**FSU-WESTERN:** Drought continued over eastern Ukraine and southern Russia (North Caucasus and lower Volga Valley), accompanied by unusually hot weather. Extreme maximum temperatures in these areas ranged from 33 to 37 degrees Celsius (C), further exacerbating the drought conditions. Although the dryness favored corn and sunflower harvests, topsoil moisture remained insufficient for winter wheat planting. While dry weather over northern Russia (Central Region, Volga Vyatsk, Central Black Soils, and upper Volga Valley) favored late-season harvests, unseasonably mild weather (weekly average temperatures ranging from 4 to 10 degrees C above normal) and adequate soil moisture promoted rapid winter grain germination and establishment. Although light showers and mild weather over the Baltic States, Belarus, and western Ukraine kept soils favorably moist for emerging winter grains, the rain caused some delays in summer crop harvesting.



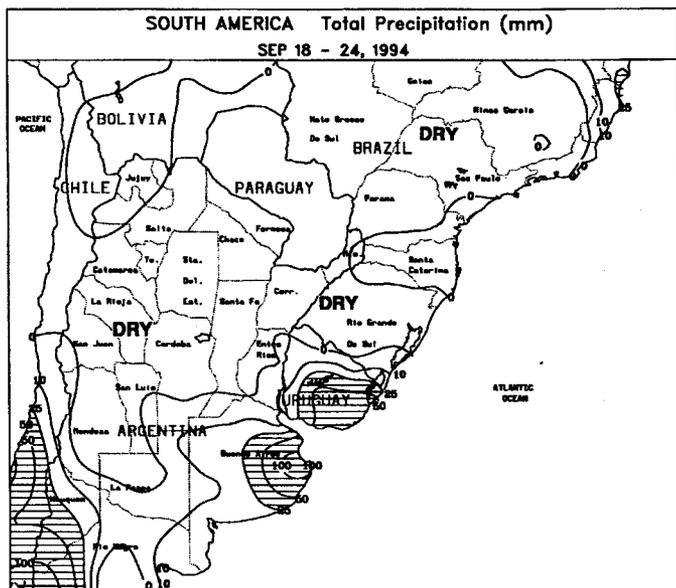
**FSU-NEW LANDS:** Several days of dryness were accompanied by unusually mild weather over the Urals region in Russia and Kazakhstan, favoring spring grain harvesting. In contrast, wet weather (10-38 mm) over Western Siberia delayed harvesting. In cotton growing areas of Central Asia, although mostly dry weather favored early harvesting, unseasonably cool weather slowed boll opening.



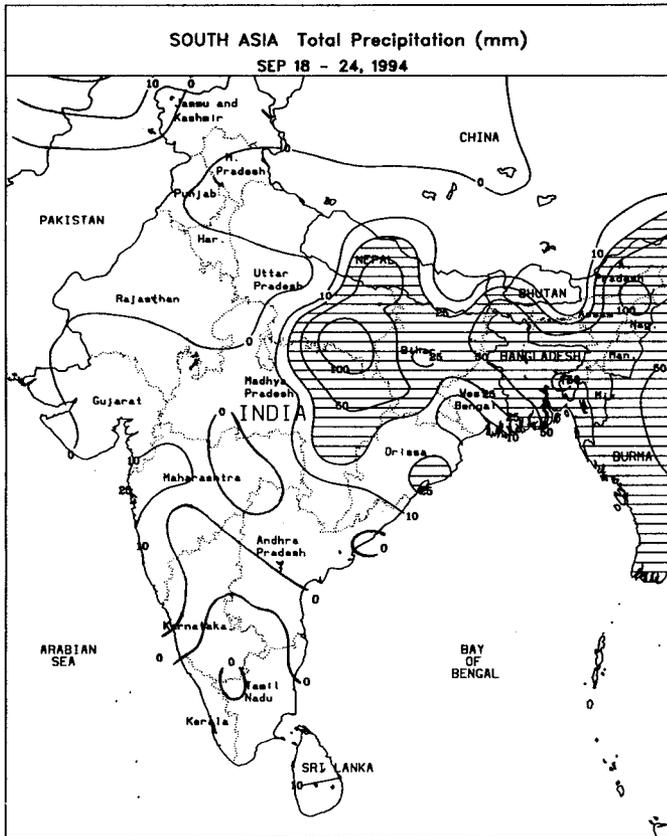
**EUROPE:** Wet weather lingered over western Europe, with locally heavy rain (50-100 mm or more) further delaying the corn harvest in south-central France, extreme northern Spain, and northern Italy. Widespread rainfall (10-50 mm) slowed the progress of summer crop harvesting throughout much of the Mediterranean region, including the northeastern half of Spain. Variable showers (1-38 mm) were scattered over southern Spain, typical for the beginning of the Mediterranean winter wet season. Elsewhere, more rain (20-35 mm) in Belgium and extreme northern France slowed autumn fieldwork. Drier weather in Germany and east-central Europe allowed late-summer crop harvesting and autumn planting to advance. In Poland, beneficial showers (10-41 mm) promoted winter crop establishment. Rain (30-53 mm) slowed corn harvesting in western Romania and former Yugoslavia, but dry weather aided fieldwork in Bulgaria. Weekly temperatures averaged 2 to 5 degrees C below normal in southwestern Europe and 2-5 degrees C above normal in Romania and Bulgaria.



**AUSTRALIA:** Only light rain (less than 10 mm) fell across the wheat regions of South Australia, Victoria, and southern New South Wales, where additional rain is needed for vegetative to reproductive winter wheat. Minimum temperatures on September 21 and 22 ranged from 1 to -1 degrees C across portions of southern Queensland and New South Wales. Combined with the continuing drought, the frost further stressed reproductive winter grains. Scattered light rain (less than 10 mm) fell across the western wheat areas, where soil moisture is diminishing but should still be adequate. Temperatures averaged 2-4 degrees C below normal across the east and 2-3 degrees C above normal across the west.



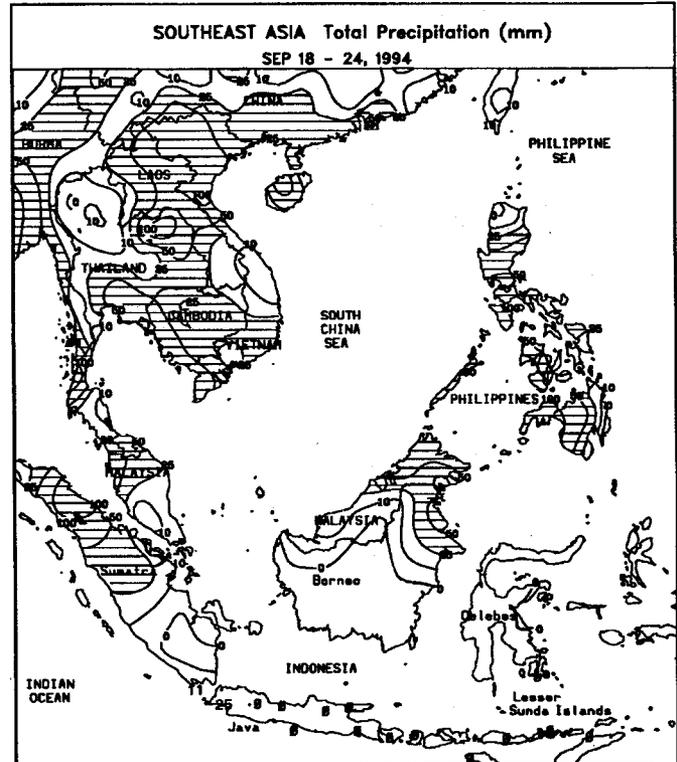
**SOUTH AMERICA:** In southern Brazil, dry weather prevailed across most areas as the rainy season was delayed in the northern crop areas (Mato Grosso, Goias, and Minas Gerais). Rain is needed across the region for soybean planting and coffee flowering. Week-long, hot weather (maximum temperatures 34-38 degrees C, averaging 3-5 degrees C above normal in the north and 6-10 degrees C above normal in the south) reduced soil moisture for summer crop planting, but aided winter wheat maturation and harvesting. In Argentina, light to moderate showers (10-40 mm, with isolated amounts greater than 50 mm) fell across Buenos Aires, favoring vegetative to reproductive winter wheat. The rains also boosted topsoil moisture for corn and soybean planting. Extended hot weather also prevailed across Argentina (maximum temperatures ranging from 35 to 40 degrees C; temperatures averaging 9-12 degrees C above normal across northern Argentina and 4-8 degrees C above normal across central Argentina). The hot weather reduced soil moisture in southern Santa Fe. Continued dry weather may delay cotton planting across the north.



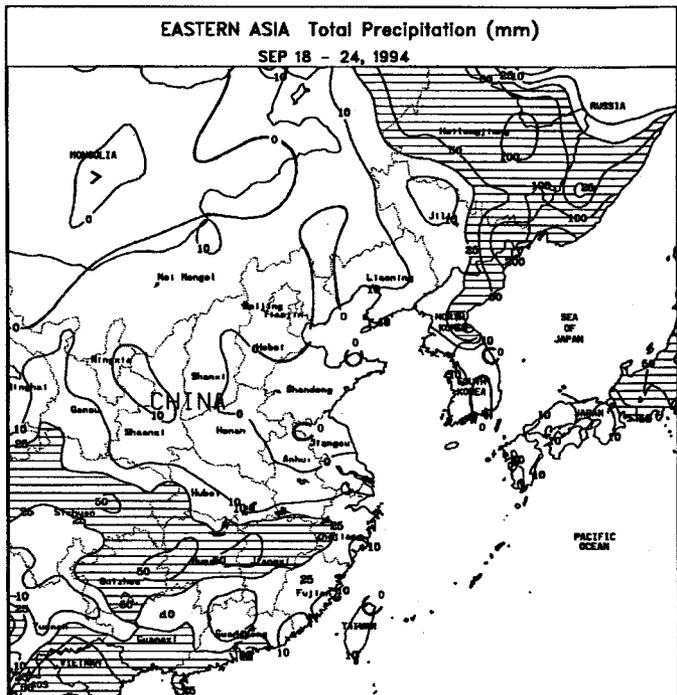
**SOUTH ASIA:** The southwest monsoon continued its withdrawal, resulting in seasonably drier weather over Pakistan and western India. The dryness favored maturing grains, oilseeds, and cotton. Scattered, locally heavy showers (25-50 mm, with local amounts exceeding 100 mm) continued over rice areas from eastern Madhya Pradesh eastward. However, India's southern interior, which expects an increase in rainfall this time of year from the retreating monsoon, remained dry, reducing moisture for rabi (autumn planted) grains, oilseeds, and cotton.

**EASTERN ASIA:** Dry weather again prevailed across the North China Plain and southern Manchuria, favoring summer crop maturation and early harvesting. However, some rain is needed for winter wheat planting. Moderate rains (20-60 mm) fell across northern Manchuria (Heilongjiang), aiding filling summer crops, but possibly slowing early harvesting. Moderate showers (20-75 mm) slowed corn and rice harvesting across the central Yangtze Valley (from eastern Sichuan into Jiangxi). Scattered showers (10-50 mm) also slowed summer crop harvesting across southern China. Temperatures averaged near normal across most of China, except for the central Yangtze Valley where temperatures averaged 2-4 degrees C below normal. Mostly dry weather favored rice harvesting in South Korea, while moderate showers (20-70 mm) slowed rice harvesting across central Honshu in Japan.

(International section continued to back cover)



**SOUTHEAST ASIA:** Heavy showers (50-100 mm or more) were scattered throughout Indochina, including sections of northern Vietnam that remained too wet for rice harvesting. Other wet areas included portions of Thailand and the Mekong Delta. August and September are two of Indochina's wettest months, with seasonal drying usually dominating the region in mid to late October. Variable rain (10-70 mm), albeit lighter than normal, benefited Malaysia's rice and oil palm areas. Java remained critically dry, although a few isolated showers dotted the island. In the Philippines, moderate to heavy showers (50-100 mm or more) fell in western crop areas, benefiting sugarcane but slowing main-season grain harvesting. Rain (15-55 mm) in the eastern Visayans maintained favorable early conditions for secondary grains.



# Year-Long Drought Continues in Puerto Rico

Despite recent locally heavy rainfall, large cumulative rainfall deficits persist across the island of Puerto Rico. At San Juan, the most reliable of the island's reporting stations, rainfall has been below normal during 11 of the past 13 months (since August 1993), with major deficits since October 1993 (table 1). Rainfall was about 70 percent of normal during the past year (fig. 1), with the 360-day cumulative rainfall deficit approaching 400 mm (fig. 2).

During the week ending September 23, greater than 200 mm of rain fell near Maricao. San Juan reported a weekly total in excess of 40 mm, more than 10 mm above normal. The next 3 months will be important in determining the future of Puerto Rico's drought. The October-December period typically accounts for 31 percent of San Juan's annual rainfall.

--Brad Rippey

Figure 1

## SAN JUAN, PUERTO RICO

CUMULATIVE RAINFALL, 10/1/93 to 9/25/94

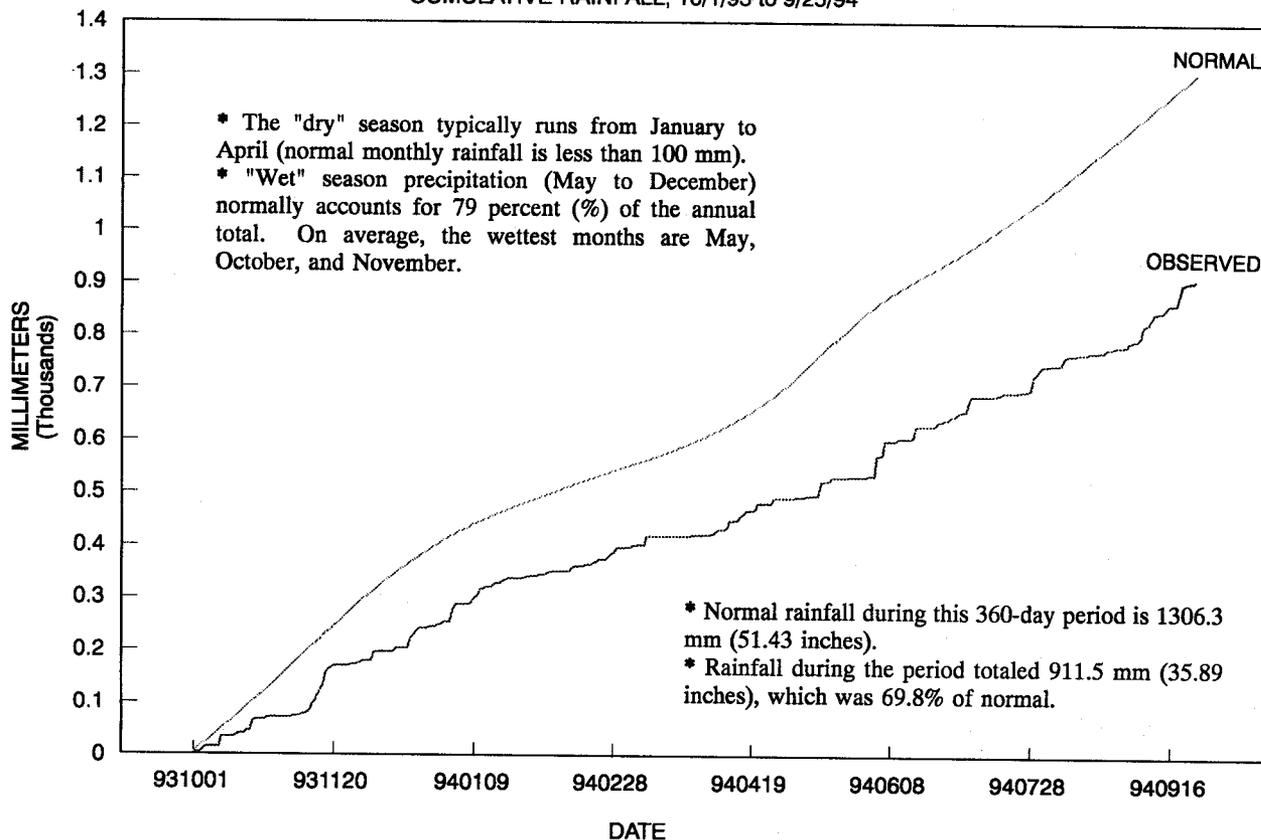


Table 1

### San Juan, Puerto Rico Monthly Rainfall Data

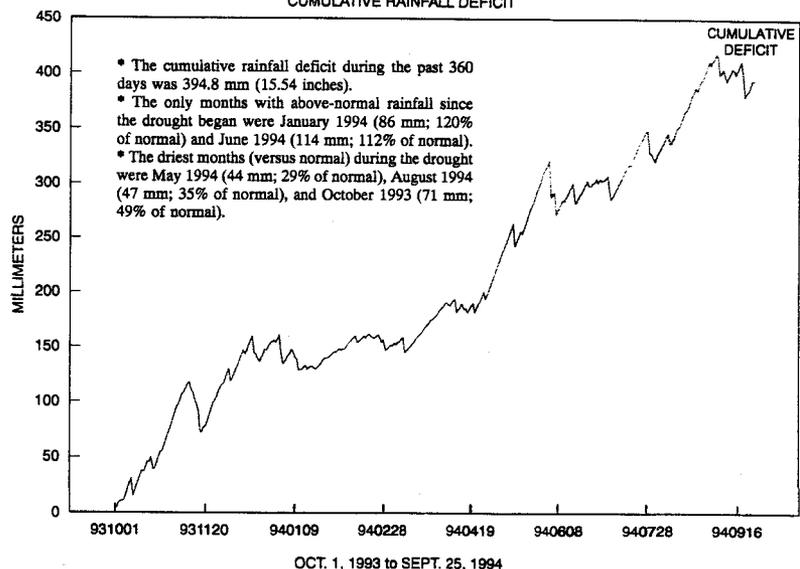
January 1993 - August 1994

Month	Observed (mm)	Normal (mm)
January 1993	60	71
February	13	55
March	16	60
April	166	96
May	114	151
June	139	102
July	186	111
August	101	135
September	111	134
October	71	145
November	108	151
December	76	120
January 1994	86	71
February	44	55
March	35	60
April	70	96
May	44	151
June	114	102
July	88	111
August	47	135

Figure 2

## SAN JUAN, PUERTO RICO

CUMULATIVE RAINFALL DEFICIT



OCT. 1, 1993 to SEPT. 25, 1994

# Drought Affects Australia and Southern Indonesia

Across southern Indonesia and most of the northern half of Australia, precipitation is normally at a minimum during the winter (June-August) and at a maximum during the summertime (December-February). The transitional months of spring (September-November) and autumn (March-May) typically reflect an increase and decrease, respectively, of precipitation across much of the region. Cool season (April-October) rainfall, however, although relatively low compared to the summertime, is still important in several areas of southern Indonesia and Australia for agricultural interests.

The Summer of 1993-94 brought ample, and occasionally copious January and March rains, to southern Indonesia, particularly Java, producing severe flooding. Farther south, the rainy season across northern and eastern Australia produced near normal rainfall amounts, but the distribution was somewhat uneven. December was anomalously wet, January was unusually dry, February was near normal, and early March was extremely moist across northern and eastern sections.

By mid-March, however, the rainy season abruptly ended across northern and northeastern Australia, and little precipitation has fallen across the northern two-thirds of the continent during the past 6 months. Even in southern sections, where precipitation is typically at a maximum or evenly distributed during the wintertime, April-September has been anomalously dry, with most areas receiving under 50% of normal precipitation (fig. 1). Only western portions of Western Australia and extreme southern Victoria recorded at least three-quarters of their normal precipitation. The lack of any significant rainfall in much of eastern New South Wales and southern Queensland has stressed the winter wheat crop which should now be in the reproductive stage. So far, this year's rainfall in New South Wales is reminiscent of 1982 (fig. 2). In addition, with the possibility of a new El Niño episode, statistical correlations have shown a significant likelihood of subnormal precipitation across northern and eastern Australia during the summer rainy season.

In southern Indonesia, after heavy April rains soaked eastern Java, convection practically ceased across much of the region in May, and has yet to become established through late September. As mentioned, rainfall during the cool season is typically low, but totals still average about 100 mm per month across Java. This rainfall is important for rainfed crops (corn and second season rice) and reservoir storage. Since April 1, rainfall has generally been under half of normal across southern Sumatra and Java, with some locations experiencing less than 25%. In Java, many 6-month totals are below 200 mm (fig. 3), generating deficits of 250 to 500 mm (not shown). In normally wetter areas of Sumatra, Borneo, and New Guinea, 6-month deficits exceed 1000 mm. According to reports from Indonesia, the water level in the Jatiluhur Reservoir in west Java was at 94.9 meters on Sep. 15, and it had not rained around the reservoir during the past 6 months. This compares to a maximum level of 108.0 m., and a level of 94.0 m. during the severe drought year of 1991 in Indonesia. Similar to Australia, much of Indonesia would also be affected by an El Niño event, except that sub-normal rains would be expected during the June-November period preceding the El Niño.

--David Miskus, Bob Stefanski, and Mark Brusberg

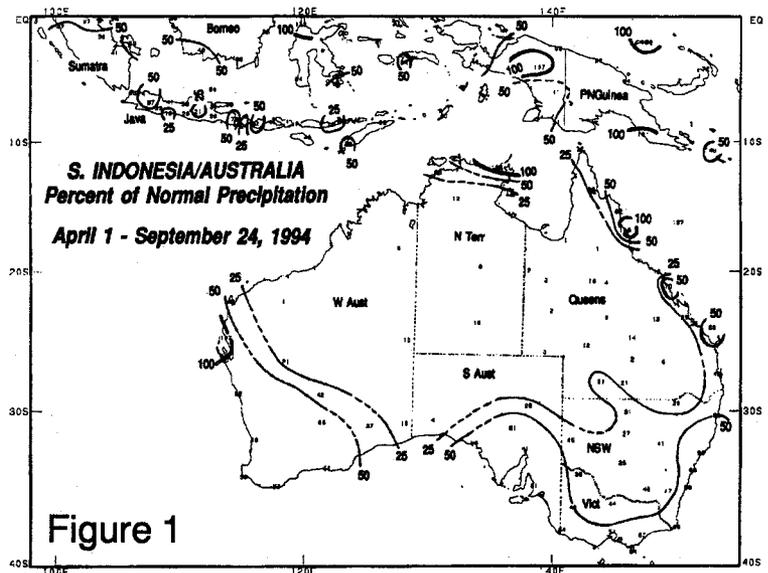
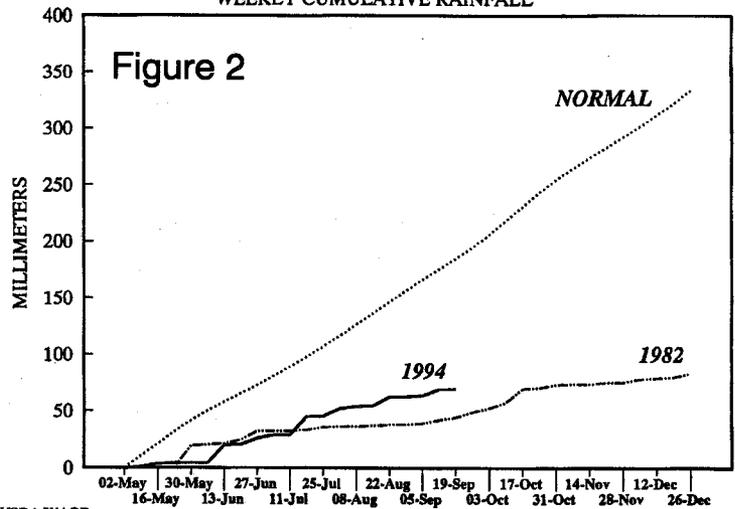


Figure 1

## NEW SOUTH WALES WEEKLY CUMULATIVE RAINFALL



USDA/WAOB

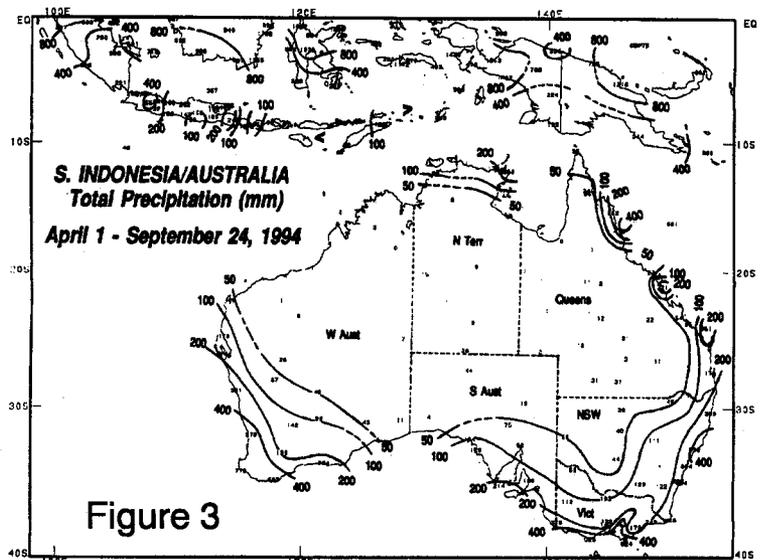


Figure 3

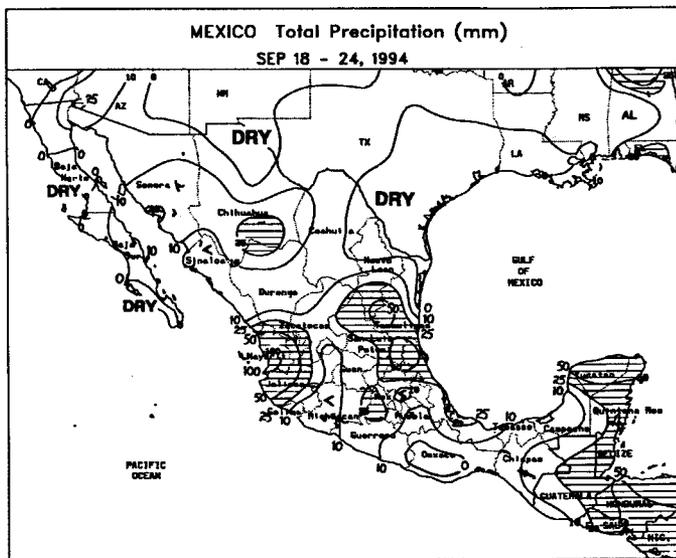
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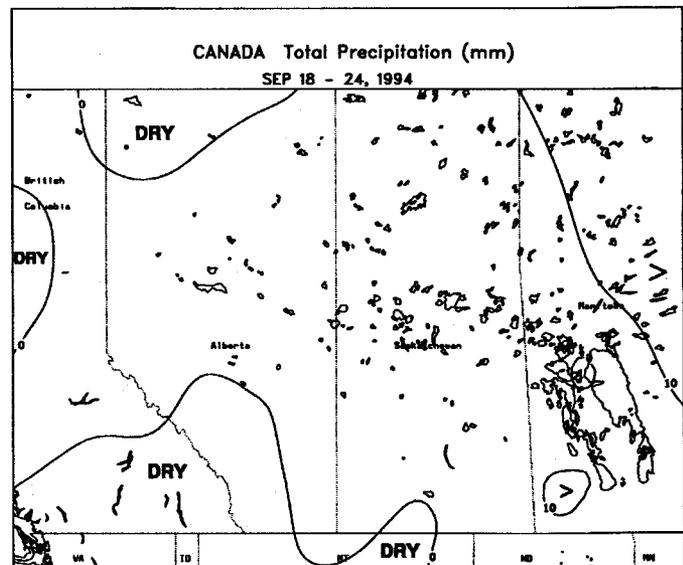
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(Continued from p. 17)



**MEXICO:** Scattered showers (5-30 mm) fell across the Southern Plateau corn belt, benefiting filling corn and sorghum. Moderate showers (5-40 mm) helped to replenish reservoirs across the northwest. Moderate to heavy showers (30-80 mm) favored citrus and sugarcane across east-central Mexico (southern Tamaulipas and northern Veracruz). Seasonal rains (25-80 mm) favored vegetative corn across the Yucatan Peninsula. Temperatures averaged slightly above normal (1-2 degrees C) across the main corn belt.



**CANADA:** Warm, mostly dry weather favored rapid harvest progress of grains and oilseeds. Temperatures averaged 4 to 5 degrees C above normal, with a hard freeze (temperatures -2 degrees C or lower) limited to fringe western areas and pockets across the south. Many northern canola areas have yet to receive a killing freeze. In Ontario and Quebec, dry, warm weather benefited maturing summer crops and favored winter wheat planting.

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