

# 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

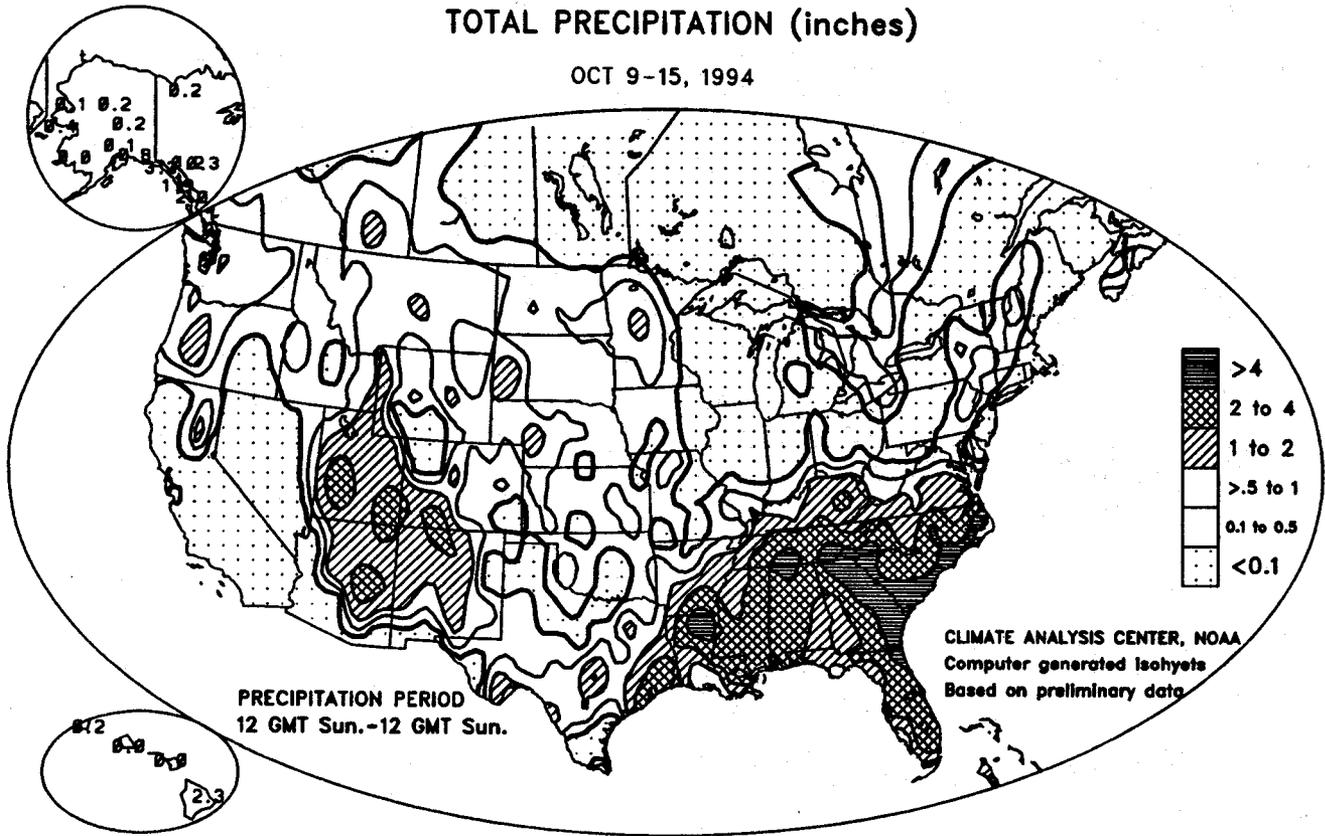
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October 18, 1994

## TOTAL PRECIPITATION (inches)

OCT 9-15, 1994



## HIGHLIGHTS

October 9 - 15, 1994

Multiple storms traversed the Southeast, producing torrential rainfall and local flooding. Farther west, an expansive winter storm delivered widespread beneficial precipitation, including light rain across winter wheat areas of the interior Northwest. On the storm's eastern periphery, abundant tropical inflow, including remnant moisture from the eastern Pacific Hurricane Rosa, induced rain showers across the Plains.

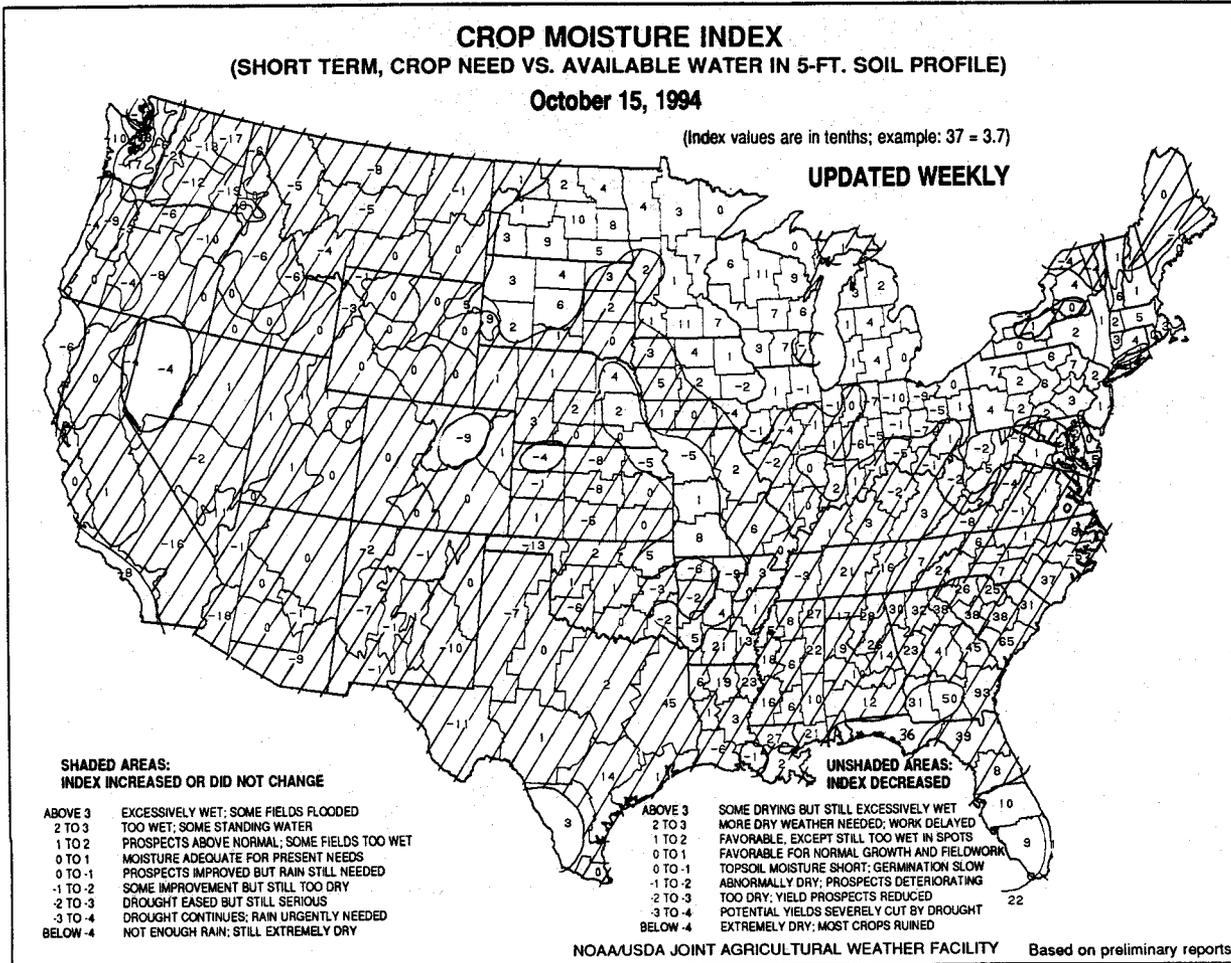
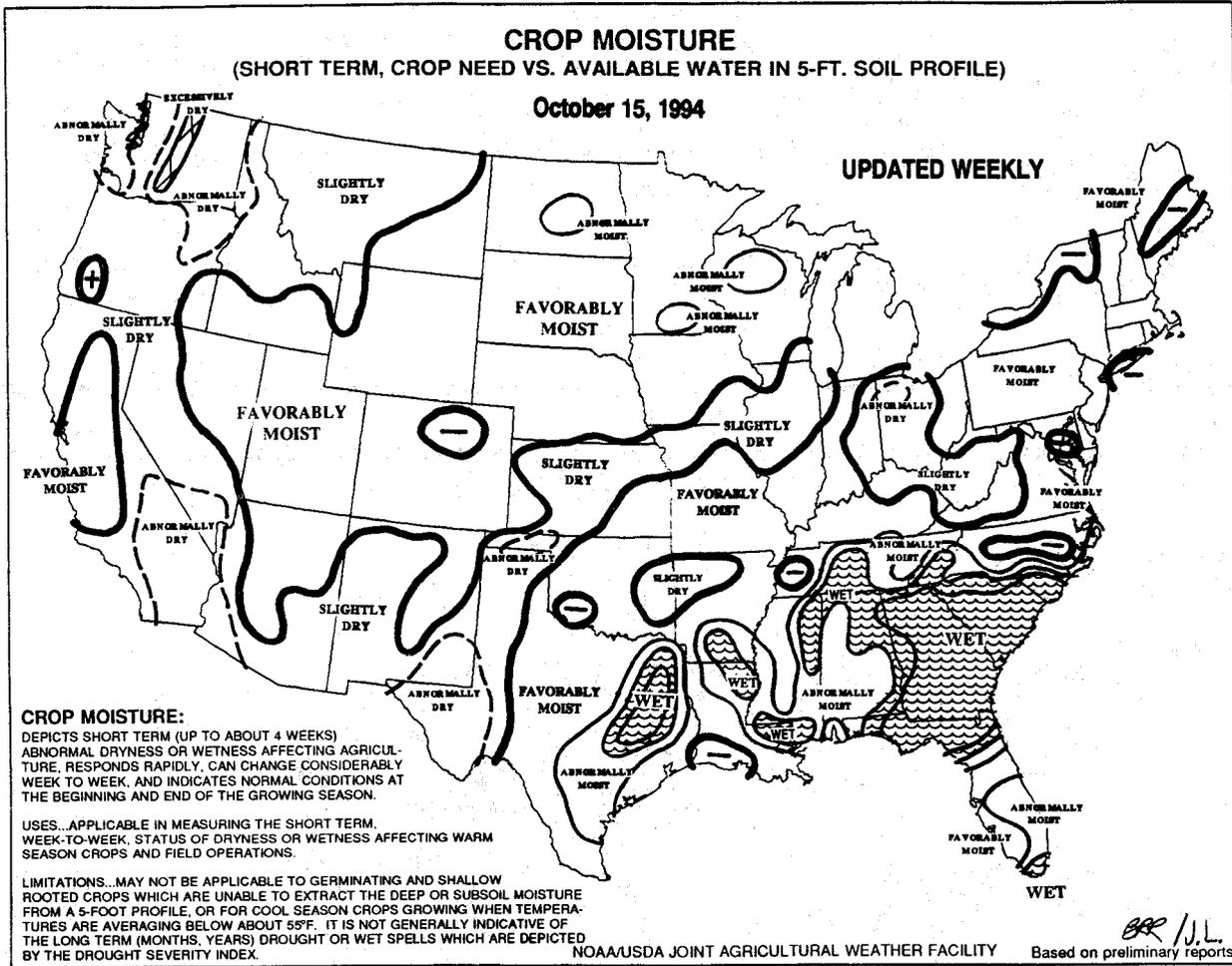
Early in the week, Santa Ana winds continued across southern California, briefly abetting wildfire growth and spurring record heat. On Sunday, Santa Maria, CA measured 95°F for a daily record. A high of 99°F in San Diego, CA was the hottest there since a high of 100°F on September 25, 1989. The same high pressure system responsible for the heat brought the first

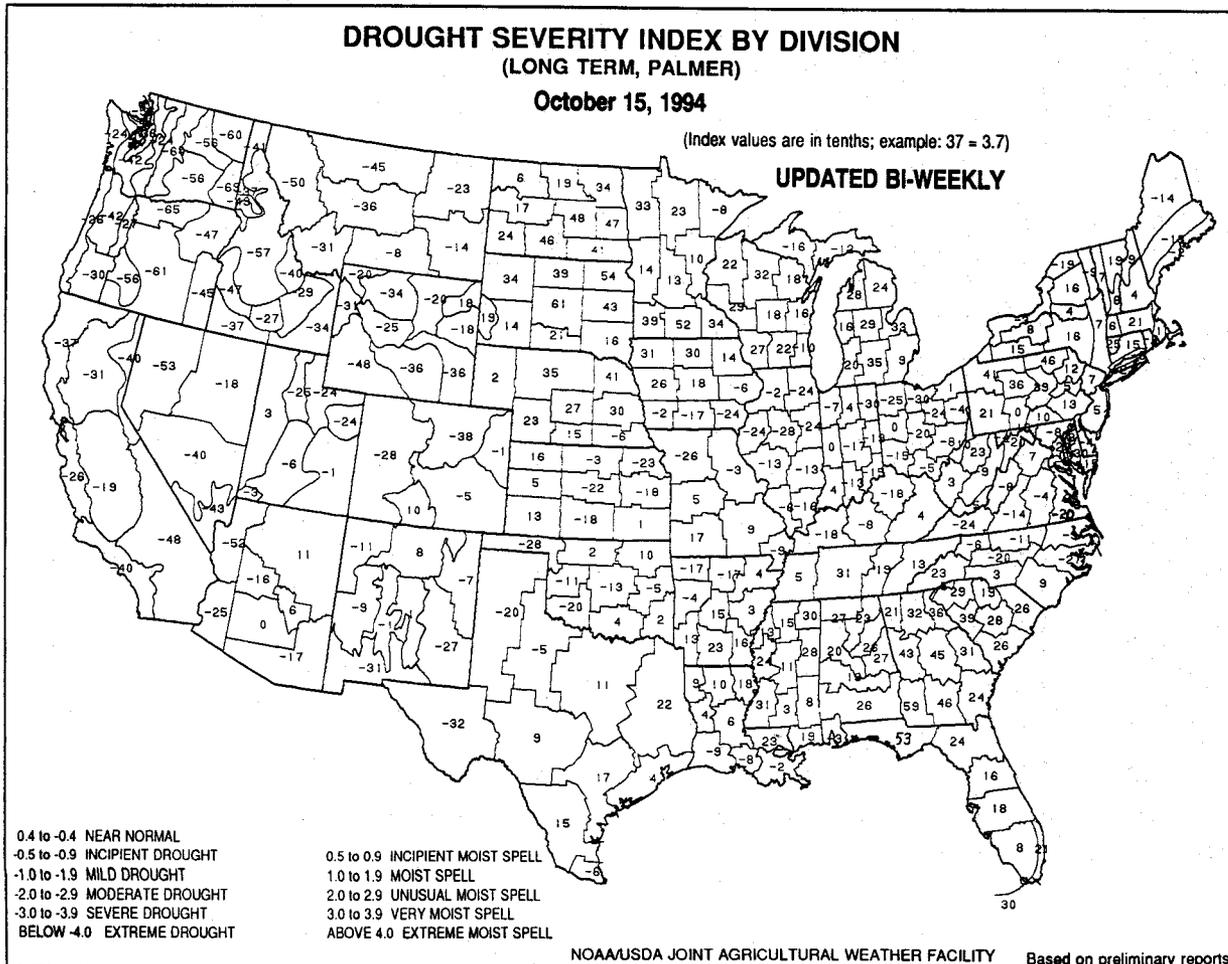
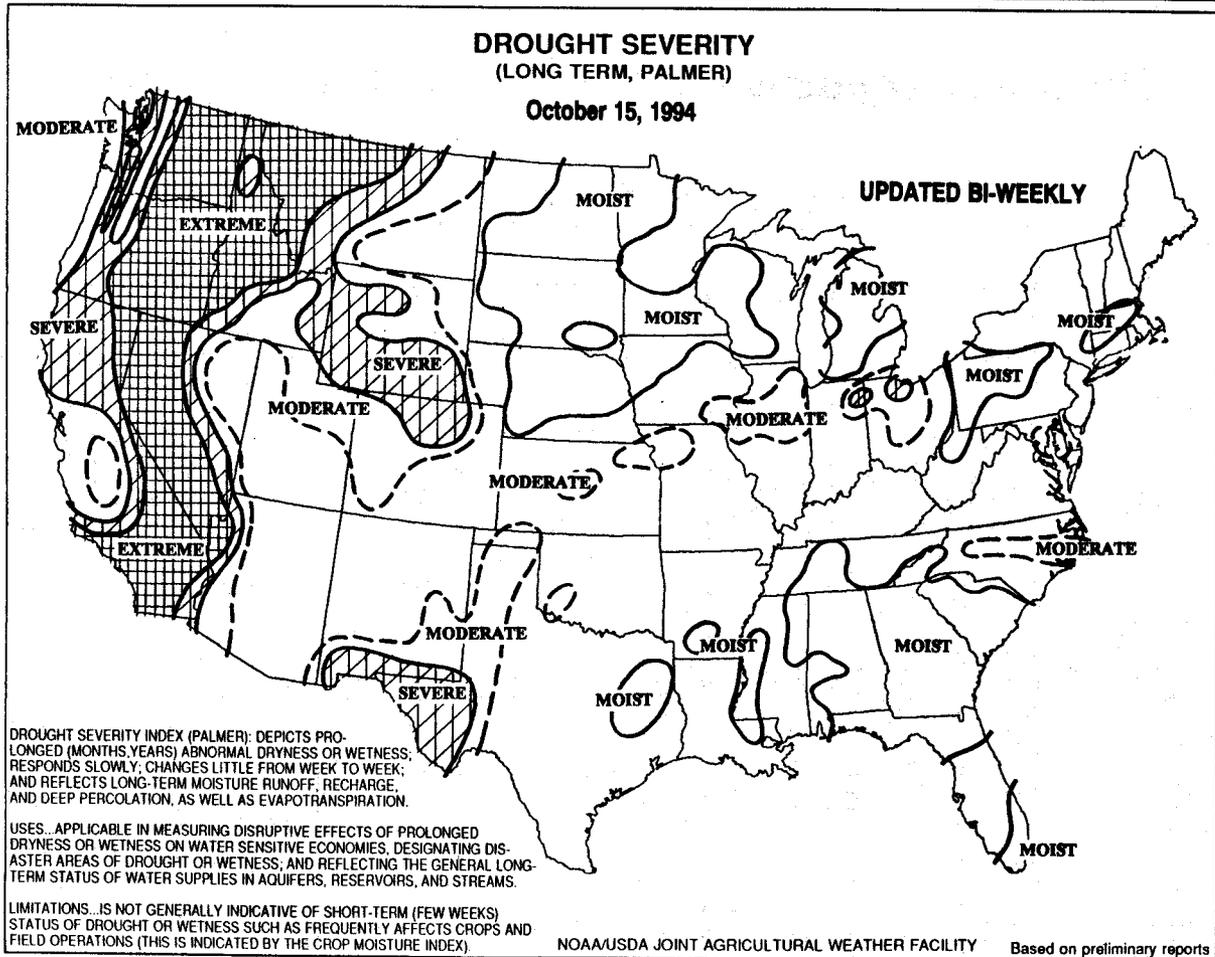
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# National Weather Data for Selected Cities

Weather Data for the Week Ending **October 15, 1994**

STATES  AND  STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	67	55	74	51	61	-3	2.6	2.0	1.5	8.6	164	51.0	117	95	72	0	0	5	2		
MOBILE	71	59	78	55	65	-5	5	-1	3	6.8	90	46.9	88	98	83	0	0	3	0		
MONTGOMERY	69	58	82	54	64	-2	2.7	2.1	1.4	8.5	169	48.9	109	94	74	0	0	4	3		
AK ANCHORAGE	43	34	51	31	39	2	1	-4	0	2.1	54	8.3	65	82	56	0	2	2	0		
BARRROW	20	-3	27	-13	9	-7	7	-1	7	8	90	4.0	107	94	82	0	7	1	0		
FAIRBANKS	29	15	35	10	22	-6	2	0	1	9	65	7.0	80	92	71	0	7	3	0		
JUNEAU	47	39	50	35	43	0	4	-1.5	3	11.9	112	38.4	93	97	75	0	0	3	0		
KODIAK	47	37	52	26	42	0	3.7	2.0	1.6	14.1	133	68.0	133	90	71	0	1	5	4		
NOME	30	22	36	11	26	-4	4	-1	3	2.9	90	14.5	117	88	65	0	7	2	0		
AZ PHOENIX	86	64	93	57	75	-1	2	0	2	1.9	158	4.7	82	40	19	5	0	1	0		
PRESCOTT	70	40	77	30	55	-1	1	-2	1	2.2	87	11.0	69	65	39	0	1	2	0		
TUCSON	85	58	91	49	71	0	2	0	2	1.7	75	5.6	57	50	18	3	0	2	0		
YUMA	88	66	96	57	77	-1	0	-1	0	1.4	323	2.1	91	47	19	4	0	0	0		
AR FORT SMITH	69	51	73	39	60	-4	1	-7	1	2.3	46	41.4	129	92	45	0	0	1	0		
LITTLE ROCK	64	53	70	47	59	-6	7	-1	6	4.2	66	44.8	118	90	62	0	0	4	1		
CA BAKERSFIELD	81	52	95	47	67	-3	0	-1	0	1	33	4.3	103	48	20	2	0	0	0		
SUREKA	60	49	62	44	54	-1	2	-3	2	3	16	19.7	85	88	66	0	0	3	0		
FRESNO	79	52	93	48	66	-1	0	-1	0	1.0	231	7.3	99	78	21	2	0	0	0		
LOS ANGELES	81	63	98	59	72	4	7	0	7	1	34	6.4	77	71	32	2	0	0	0		
REDDING	78	50	85	44	64	-1	7	-4	7	2	14	15.2	72	63	19	0	0	0	0		
SACRAMENTO	77	51	87	46	64	-1	0	-2	0	0	0	6.7	58	84	29	0	0	0	0		
SAN DIEGO	79	62	99	60	71	2	7	-1	7	3	8.2	124	70	41	1	0	1	0	0		
SAN FRANCISCO	67	53	81	51	60	-2	0	-2	0	5	76	11.1	86	89	48	0	0	0	0		
CO DENVER	69	41	78	36	55	-2	7	-2	7	1.5	83	8.9	67	80	31	0	0	1	0		
GRAND JUNCTION	70	44	78	40	57	-2	3	0	2	1.9	118	5.5	68	66	22	0	0	2	0		
PUEBLO	73	34	79	29	53	-2	1	-1	1	1.4	112	14.1	140	90	26	0	0	2	1		
CT BRIDGEPORT	64	45	73	38	55	-2	7	-7	7	4.8	106	33.4	102	81	41	0	0	1	0		
HARTFORD	65	37	75	30	51	-2	7	-8	7	5.5	101	41.6	121	89	35	0	2	0	0		
DC WASHINGTON	67	50	80	43	58	-3	2	-5	2	3.1	65	32.8	106	86	49	0	0	1	0		
FL PANAMA CITY	75	64	82	59	69	0	2.5	1.7	1.1	12.3	165	47.1	86	100	76	0	0	5	2		
DAYTONA BEACH	82	68	87	65	75	1	1.1	-1	6	8.3	97	48.7	120	100	65	0	0	2	2		
JACKSONVILLE	79	65	86	60	72	-2	6.5	5.5	4.3	19.1	207	58.9	138	99	75	0	0	3	2		
KEY WEST	88	75	88	73	82	1	1.5	5	1.3	16.6	202	38.3	117	92	64	0	0	5	1		
MIAMI	88	74	90	71	81	2	1.8	4	1.1	17.1	159	59.7	122	89	58	2	0	3	0		
ORLANDO	84	69	88	66	77	1	4	-2	4	9.8	132	54.3	127	99	66	0	0	1	0		
TALLAHASSEE	76	64	85	59	70	0	2.8	2.1	1.6	21.4	301	82.6	149	95	73	0	0	3	2		
TAMPA	84	70	88	65	77	1	1.1	6	8	9.6	132	43.6	111	97	66	0	0	3	1		
WEST PALM BEACH	86	72	89	69	79	0	9	-9	6	13.8	123	59.9	121	95	59	0	0	3	1		
GA ATLANTA	66	56	78	49	61	-3	2.4	1.7	1.3	9.5	195	54.3	133	97	77	0	0	6	2		
AUGUSTA	70	57	84	51	64	-1	3.9	3.3	2.5	7.2	161	39.8	106	96	70	0	0	5	2		
MACON	69	57	83	51	63	-3	3.5	3.1	1.6	7.0	181	53.0	145	99	80	0	0	5	3		
SAVANNAH	73	61	84	54	67	-1	10.2	9.7	7.6	25.1	435	59.9	139	98	75	0	0	4	3		
HI HILO	86	70	88	69	78	2	2.3	3	1.2	26.0	205	133.9	138	90	66	0	0	4	2		
HONOLULU	90	76	91	73	83	3	7	-5	7	1.1	66	13.1	94	77	53	6	0	0	0		
KAHULUI	89	70	91	66	80	1	7	-2	7	1.1	143	10.6	74	76	53	3	0	0	0		
LIHUE	83	75	84	71	79	1	2	-8	2	4.7	110	25.0	84	80	66	0	0	1	0		
ID BOISE	65	40	80	29	53	-1	4	-2	2	7	61	5.7	64	75	32	0	1	2	0		
LEWISTON	62	43	79	36	53	-1	2	0	1	5	42	6.8	71	67	37	0	0	3	0		
POCATELLO	63	36	76	32	50	0	5	-4	3	1.6	129	6.7	72	87	42	0	1	2	0		
IL CHICAGO	63	40	68	34	52	-3	0	-5	0	1.9	37	22.1	76	87	44	0	0	0	0		
MOLINE	67	38	71	31	53	-2	0	-7	0	1.9	33	24.4	74	94	42	0	2	0	0		
PEORIA	66	44	71	34	55	0	7	-6	7	2.6	49	17.6	59	89	43	0	0	0	0		
QUINCY	63	43	67	36	53	-4	7	-8	7	1.8	27	15.9	48	80	45	0	0	0	0		
ROCKFORD	65	40	70	30	53	-1	0	-7	0	6.4	121	30.3	100	99	47	0	1	0	0		
SPRINGFIELD	66	44	70	36	55	-2	7	-6	7	1.8	39	28.5	99	92	44	0	0	0	0		
IN EVANSVILLE	68	48	74	40	58	-2	4	-2	4	3.4	77	25.8	71	89	45	0	0	3	0		
FORT WAYNE	68	41	74	33	54	0	7	-5	7	1.8	45	23.2	84	94	43	0	0	1	0		
INDIANAPOLIS	66	45	74	37	56	-1	7	-6	7	2.7	64	26.2	82	85	43	0	0	1	0		
SOUTH BEND	65	41	72	35	53	-1	0	-7	0	5.7	111	28.4	92	95	45	0	0	0	0		
IA DES MOINES	66	43	70	37	54	0	1	-6	1	3.6	67	23.5	80	89	45	0	0	1	0		
SIOUX CITY	66	41	71	35	54	0	3	-2	3	6.3	158	22.6	98	92	46	0	0	1	0		
WATERLOO	66	37	72	29	51	-1	7	-6	7	4.3	88	30.4	103	92	40	0	2	0	0		
KS CONCORDIA	69	42	73	34	56	-2	2	-3	2	1.9	46	15.1	58	86	39	0	0	1	0		
DODGE CITY	70	43	76	36	56	-3	4	-1	4	1.9	73	15.6	80	81	39	0	0	2	0		
GOODLAND	70	39	75	35	55	-1	4	-2	4	1.7	83	13.0	78	85	35	0	0	1	0		
TOPEKA	69	43	74	37	56	-2	1	-6	1	1.9	35	21.3	70	95	41	0	0	1	0		
WICHITA	71	44	76	38	58	-3	3	-4	3	1.5	27	17.3	58	86	41	0	0	1	0		
KY BOWLING GREEN	67	46	72	38	57	-2	1	-5	1	3.1	61	45.1	113	97	59	0	0	2	0		
LEXINGTON	67	46	72	39	56	-2	1.1	-5	6	2.3	51	37.9	106	92	45	0	0	3	1		
LOUISVILLE	68	49	75	43	59	0	6	0	3	3.7	83	27.7	78	88	43	0	0	2	0		
LA BATON ROUGE	67	57	73	55	62	-7	1.0	-2	8	8.1	122	53.9	109	99	79	0	0	3	1		
LAKE CHARLES	70	59	74	56	64	-6	8	-1	8	4.4	57	33.4	77	90	66	0	0	3	1		
NEW ORLEANS	72	60	79	57	66	-4	1.4	-7	6	7.5	106	45.6	91	96	75	0	0	5	2		
SHERBOURNE	67	55	73	50	61	-5	9	0	6	4.1	73	39.0	101	92	55	0	0	4	1		

Based on 1961-90 normals.

Weather Data for the Week Ending October 15, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
ME CARIBOU	55	34	72	25	45	0	.1	.6	.1	3.2	66	30.8	109	84	32	0	3	1	0	0	
ME PORTLAND	59	34	66	26	47	-.3	.1	.6	.1	6.7	139	33.7	104	89	43	0	4	1	0	0	
MD BALTIMORE	67	44	80	37	56	-.3	.1	.6	.1	4.2	87	37.9	117	90	49	0	0	1	1	0	
MD BALTIMORE	67	44	81	36	56	-.3	.1	.6	.1	3.7	69	33.4	91	93	52	0	0	1	1	0	
MA BOSTON	63	44	77	39	53	-.3	.3	.7	.3	4.7	102	37.7	120	78	36	0	0	0	0	0	
MA CHATHAM	60	46	69	40	54	-.1	.0	.9	.0	2.4	44	35.1	102	81	58	0	0	0	0	0	
MI ALPENA	59	33	66	28	46	-.3	.1	.5	.1	2.4	56	25.9	110	97	54	0	4	0	0	0	
MI DETROIT	63	43	68	35	53	0	.1	.4	.1	3.0	76	25.2	97	92	45	0	0	1	0	0	
MI FLINT	63	37	68	32	50	-.1	.1	.4	.1	4.2	90	27.1	111	97	45	0	2	1	1	0	
MI GRAND RAPIDS	62	37	70	31	49	-.2	.2	.4	.2	3.7	64	38.0	133	95	49	0	2	1	0	0	
MI HOUGHTON LAKE	62	35	68	28	48	0	.2	.3	.2	2.4	52	24.0	104	96	46	0	2	1	0	0	
MI LANSING	63	34	69	29	49	-.2	.1	.3	.1	3.8	71	28.1	111	98	47	0	3	1	0	0	
MI MARQUETTE	58	38	64	31	48	3	.1	.7	.1	3.0	51	20.2	72	89	44	0	1	1	0	0	
MI MURKINSON	63	38	70	30	50	-.2	.1	.6	.1	3.9	73	27.0	108	97	46	0	2	0	0	0	
MI SAULT ST. MARIE	56	36	64	30	46	-.1	.3	.5	.2	2.2	41	22.9	87	97	53	0	2	2	0	0	
MN ALEXANDRIA	61	42	67	36	52	4	.5	.1	.5	4.0	104	16.0	71	92	50	0	0	1	0	0	
MN DULUTH	57	40	65	31	49	3	.1	.6	.1	6.4	124	26.2	102	81	48	0	1	1	0	0	
MN INT'L FALLS	61	40	71	26	50	6	.1	.5	.1	3.9	91	19.7	92	85	49	0	2	0	0	0	
MN MINNEAPOLIS	63	43	68	33	53	2	.1	.5	.1	7.0	183	25.4	103	85	48	0	0	1	0	0	
MN ROCHESTER	62	39	67	32	51	1	.1	.5	.1	4.6	98	28.3	109	88	44	0	2	1	0	0	
MS GREENWOOD	68	56	71	50	62	-.4	1.5	.7	1.0	5.6	111	38.3	92	96	62	0	0	5	1	2	
MS JACKSON	67	57	72	54	62	-.3	2.1	1.4	1.2	5.3	120	48.7	115	92	72	0	0	3	2	1	
MS MERIDIAN	68	56	74	55	62	-.4	2.2	1.5	1.0	4.7	96	53.4	120	96	76	0	0	4	2	2	
MO CAPE GIRARDEAU	65	49	70	38	57	-.3	.6	.1	.4	4.2	84	33.2	91	94	53	0	0	2	0	0	
MO COLUMBIA	66	44	71	36	55	-.2	.2	.6	.2	3.1	55	29.9	96	93	56	0	0	1	0	0	
MO KANSAS CITY	68	42	72	37	55	-.3	.2	.6	.2	3.2	48	22.7	69	89	47	0	0	1	0	0	
MO SAINT LOUIS	67	50	70	42	58	-.2	.3	.3	.2	2.5	56	26.7	90	86	48	0	0	3	0	0	
MO SPRINGFIELD	67	45	71	37	56	-.3	.1	.7	.1	5.3	80	39.1	111	92	46	0	0	3	0	0	
MT BILLINGS	61	41	72	37	51	0	.8	.6	.8	2.4	121	11.3	87	73	49	0	0	1	1	1	
MT GLASGOW	58	39	76	36	49	1	.5	.4	.5	1.5	110	9.0	89	91	61	0	0	1	1	1	
MT GREAT FALLS	53	37	74	31	45	-.4	.4	.2	.3	1.1	66	8.9	67	90	64	0	3	4	0	0	
MT HAVRE	56	36	77	32	46	-.2	.4	.3	.2	.7	44	6.4	63	91	58	0	1	4	0	0	
MT HELENA	55	34	76	31	45	-.2	.8	.6	.3	1.0	69	6.7	65	92	57	0	2	3	0	0	
MT KALISPELL	56	34	69	25	45	2	.2	.2	.3	1.2	72	8.3	64	94	56	0	2	3	0	0	
MT MILES CITY	64	40	78	37	52	2	.4	.1	.3	2.1	116	8.3	66	90	42	0	0	2	0	0	
MT MISSOULA	58	35	73	28	46	1	.4	.3	.2	.8	50	9.5	86	89	48	0	2	3	0	0	
NE GRAND ISLAND	68	41	73	34	54	0	.2	.2	.2	2.2	59	19.5	86	88	39	0	0	1	0	0	
NE LINCOLN	67	38	71	32	53	-.3	.2	.3	.2	1.2	25	17.1	68	97	46	0	1	1	0	0	
NE NORFOLK	68	43	74	35	56	2	.3	.1	.3	3.4	102	26.2	115	84	41	0	0	1	0	0	
NE NORTH PLATTE	69	39	76	29	54	3	.3	.1	.3	2.0	95	16.2	92	87	39	0	1	1	0	0	
NE OMAHA	69	41	71	37	55	0	.2	.3	.2	5.5	111	26.4	100	89	44	0	0	1	0	0	
NE SCOTTSBLUFF	68	39	78	32	54	2	.4	.2	.4	2.8	189	13.8	101	94	35	0	1	1	0	0	
NE VALENTINE	70	41	80	30	55	1	.1	.2	.1	.5	16	16.3	79	79	34	0	1	1	0	0	
NV ELY	59	32	71	25	46	-.2	.3	.1	.2	1.4	93	7.4	88	82	34	0	4	2	0	0	
NV LAS VEGAS	81	58	87	53	70	0	.1	.0	.1	.4	97	1.2	38	34	15	0	0	0	0	0	
NV RENO	66	41	78	35	53	1	.1	.1	.1	.6	76	3.6	65	71	25	0	0	0	0	0	
NV WINNEVOCCA	64	34	77	30	49	-.1	.1	.0	.1	.6	95	5.4	88	84	27	0	2	1	0	0	
NH CONCORD	64	31	76	22	48	-.1	.1	.7	.1	3.6	84	28.5	102	90	32	0	4	1	0	0	
NJ ATLANTIC CITY	64	38	76	32	51	-.5	.1	.6	.1	3.9	92	36.5	115	90	50	0	2	1	0	0	
NH ALBUQUERQUE	70	45	77	41	57	-.1	.7	.5	.4	1.9	130	8.3	111	58	21	0	0	2	0	0	
NH CLOVIS	72	43	81	39	58	-.2	.2	.2	.1	1.1	38	9.7	62	74	24	0	0	2	0	0	
NH ROSWELL	73	43	81	38	58	-.6	.4	.1	.2	1.7	66	7.2	64	79	25	0	0	2	0	0	
NY ALBANY	62	35	74	29	49	-.3	.4	.2	.4	2.7	63	30.4	106	96	40	0	4	1	0	0	
NY BINGHAMTON	58	37	66	30	47	-.3	.1	.5	.1	2.8	60	35.9	123	91	50	0	1	1	0	0	
NY BUFFALO	62	39	68	32	51	-.2	.1	.7	.1	3.5	70	28.5	97	83	44	0	1	1	0	0	
NY NEW YORK	65	50	76	45	57	-.1	.1	.6	.1	3.0	62	36.1	108	76	41	0	0	1	0	0	
NY ROCHESTER	61	38	65	32	49	-.3	.1	.5	.1	2.9	70	22.9	91	87	44	0	1	1	0	0	
NY SYRACUSE	61	36	70	29	48	-.4	.1	.6	.1	2.8	51	31.7	105	91	43	0	2	1	0	0	
NC ASHEVILLE	61	48	68	41	54	-.3	2.3	1.3	.9	8.7	132	50.4	112	98	70	0	0	3	3	3	
NC CHARLOTTE	66	53	77	48	60	-.3	2.0	1.2	1.1	3.2	62	31.0	89	88	61	0	0	5	2	0	
NC GREENSBORO	64	49	75	41	57	-.3	.5	.4	.3	2.1	39	30.7	89	95	61	0	0	4	2	0	
NC HATTERAS	72	63	83	59	67	1	8.6	7.5	8.2	18.6	242	57.8	131	89	55	0	0	3	1	1	
NC NEW BERN	71	58	83	52	65	0	.6	.1	.3	5.8	87	32.0	70	90	63	0	0	2	0	0	
NC RALEIGH	67	50	81	43	59	-.3	4.4	3.8	3.4	6.4	139	33.6	99	90	55	0	0	4	2	1	
NC WILMINGTON	71	57	81	53	64	0	7.3	6.5	6.8	15.1	174	50.7	105	93	65	0	0	3	1	0	
ND BISMARCK	63	39	74	29	51	3	.3	.1	.3	7.1	353	15.8	112	92	54	0	1	1	0	0	
ND FARGO	65	44	72	35	54	7	.5	.0	.5	3.9	135	20.7	120	85	46	0	0	1	0	0	
ND GRAND FORKS	64	42	69	33	53	6	-.1	-.2	-.1	3.0	102	19.4	118	91	49	0	0	1	0	0	
ND WILLISTON	64	38	74	29	51	4	.5	.3	.5	2.2	126	14.4	117	91	50	0	1	2	0	0	
OH AKRON-CANTON	64	42	69	34	53	-.1	.2	.3	.2	2.0	44	33.6	113	86	41	0	0	1	0	0	
OH CINCINNATI	66	46	74	37	56	0	.7	.1	.4	1.2	29	31.8	96	84	38	0	0	3	0	0	
OH CLEVELAND	65	43	69	34	54	0	.3	.3	.3	2.6	54	23.8	82	87	45	0	0	1	0	0	
OH COLUMBUS	67	45	73	36	56	3	.1	.4	.1	1.8	43	25.7	85	91	41	0	0	2	0	0	
OH DAYTON	67	42	73	34	54	-.1	.5	-.1	.4	1.5	40	28.0	96	90	38	0	0	2	0	0	

Based on 1961-90 normals.

Weather Data for the Week Ending October 15, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE
													.50 INCH OR MORE						.50 INCH OR MORE
TOLEDO	64	39	69	30	51	-1	.1	-.4	.1	1.3	32	22.8	87	97	47	0	1	1	0
YOUNGSTOWN	63	38	68	30	50	-2	.2	-.4	.2	4.4	92	31.7	106	92	45	0	1	1	0
OK OKLAHOMA CITY	68	48	75	43	58	-5	.1	-.7	.1	3.2	57	19.9	70	88	46	0	0	2	0
TULSA	69	48	74	41	58	-5	.2	-.6	.2	5.8	88	39.6	118	95	48	0	0	1	0
OR ASTORIA	58	43	58	36	50	-3	.5	-.7	.4	3.4	66	39.5	93	95	62	0	0	2	0
BURNS	60	27	75	21	43	-3	T	-.1	T	.3	29	3.2	44	72	24	0	7	1	0
MEDFORD	66	44	79	33	55	-2	.2	-.1	.1	1.0	72	6.1	54	81	38	0	0	3	0
PENDLETON	61	41	74	34	51	-3	.4	-.2	.4	.7	78	8.7	104	73	37	0	0	1	0
PORTLAND	64	43	74	39	53	-3	.2	-.3	.2	1.4	49	16.0	69	91	44	0	0	2	0
SALEM	64	40	76	32	52	-2	.4	-.2	.3	2.0	76	18.1	74	91	46	0	1	2	0
PA ALLENTOWN	66	41	77	33	53	-1	.2	-.5	.2	3.1	58	40.6	117	92	42	0	0	1	0
ERIE	61	44	67	36	53	-2	.5	-.4	.5	4.5	73	33.0	103	84	49	0	0	1	0
HARRISBURG	65	44	76	35	55	-1	.2	-.4	.2	2.7	56	38.3	119	90	45	0	0	1	0
PHILADELPHIA	67	48	79	42	57	2	.1	-.7	.1	1.8	31	39.0	106	82	42	0	0	1	0
PITTSBURGH	65	42	70	34	54	0	T	-.5	T	3.9	96	35.2	118	77	40	0	0	1	0
SCRANTON	63	38	73	32	50	-2	.3	-.4	.3	5.9	125	35.3	121	93	45	0	2	1	0
RI PROVIDENCE	65	42	76	35	54	-1	T	-.8	T	4.2	81	34.5	99	82	36	0	0	0	0
SC CHARLESTON	70	59	84	53	65	-3	4.9	4.2	3.3	18.9	301	59.8	134	96	77	0	0	5	2
COLUMBIA	70	57	83	53	64	-1	1.7	1.0	.7	6.6	128	41.8	100	88	58	0	0	4	2
FLORENCE	71	57	86	55	64	-1	1.8	1.2	1.2	6.7	143	35.6	97	92	62	0	0	4	1
GREENVILLE	64	53	74	48	58	-4	2.3	1.4	1.0	4.9	84	43.6	105	93	64	0	0	5	2
SD ABERDEEN	66	42	74	29	54	5	.4	-.1	.4	3.4	125	18.0	94	87	48	0	1	1	0
HURON	67	42	77	30	54	4	.2	-.1	.2	3.2	126	18.8	103	83	45	0	1	1	0
RAPID CITY	68	42	85	35	55	5	.9	-.6	.8	2.3	125	8.7	58	80	39	0	0	2	1
STOUX FALLS	67	42	73	33	54	4	.3	-.1	.3	3.1	77	19.9	93	88	50	0	0	1	0
TN CHATTANOOGA	67	54	72	50	61	-1	3.3	2.6	1.2	7.1	124	65.2	155	93	65	0	0	4	3
KNOXVILLE	68	52	74	47	60	0	1.3	.7	1.0	2.7	61	57.4	154	90	56	0	0	2	1
MEMPHIS	65	53	70	47	59	-6	1.3	.7	1.0	3.6	74	38.4	97	90	64	0	0	3	1
NASHVILLE	67	52	72	44	60	-2	2.4	1.8	.9	6.8	146	52.8	142	89	57	0	0	4	3
TX ABILENE	72	46	77	40	59	-9	.2	-.4	.2	4.7	103	21.8	105	89	40	0	0	2	0
AMARILLO	71	41	79	38	56	-4	.2	-.2	.2	2.5	91	16.5	93	81	25	0	0	1	0
AUSTIN	75	55	80	52	65	-7	.7	-.1	.4	10.5	209	30.7	118	76	46	0	0	2	0
BRAZMONT	72	58	77	52	65	-6	2.2	1.2	2.2	11.4	134	56.2	124	96	64	0	0	2	1
BROWNSVILLE	79	59	88	51	69	-7	.1	-.6	.1	7.0	90	20.0	88	94	45	0	0	2	0
CORPUS CHRISTI	79	59	88	50	69	-6	.1	-.6	.1	12.4	170	29.1	112	89	41	0	0	1	0
DEL RIO	77	54	82	47	66	-6	.5	-.2	.5	2.4	55	17.6	84	80	39	0	0	1	1
EL PASO	77	48	84	41	63	-3	.1	-.1	.1	.4	16	3.3	44	59	19	0	0	1	0
FORT WORTH	71	53	74	47	62	-5	.2	-.8	.2	3.4	49	28.9	93	87	52	0	0	2	0
GALVESTON	73	64	81	60	69	-5	.1	-.6	.1	5.3	70	21.7	64	81	57	0	0	1	0
HOUSTON	74	55	76	50	65	-5	2.1	1.1	2.1	4.3	54	29.2	70	92	53	0	0	2	1
LUBBOCK	74	43	81	37	58	-4	.3	-.2	.2	1.5	42	12.1	73	86	31	0	0	2	0
MIDLAND	74	44	82	38	59	-7	.4	-.0	.4	.8	20	8.4	62	84	31	0	0	1	0
SAN ANGELO	74	45	81	38	59	-8	.5	-.1	.4	4.5	94	13.4	76	91	42	0	0	2	0
SAN ANTONIO	76	51	82	45	64	-8	.8	-.0	.5	10.5	209	31.7	125	81	43	0	0	2	1
VICTORIA	78	54	88	47	66	-6	.2	-.8	.2	4.5	52	29.5	80	89	38	0	0	1	0
WACO	73	50	78	42	61	-9	.6	-.2	.4	2.6	49	22.4	86	95	48	0	0	2	0
NICHITA FALLS	71	49	76	44	60	-6	.1	-.7	.1	3.1	51	9.6	35	88	43	0	0	2	0
UT CEDAR CITY	66	39	73	31	53	0	.8	.5	.5	2.3	159	7.0	75	76	28	0	1	3	0
SALT LAKE CITY	67	42	77	34	55	0	.9	.5	.5	2.2	111	10.6	83	80	40	0	0	2	1
VT BURLINGTON	59	34	73	27	46	-3	.3	-.3	.3	2.3	48	30.0	109	88	41	0	5	1	0
VA NORFOLK	69	57	85	52	63	1	1.2	.5	1.1	3.2	59	44.7	121	81	56	0	0	4	1
RICHMOND	67	47	81	37	57	-3	1.0	.2	.9	4.9	98	37.2	107	91	40	0	0	3	1
ROANOKE	65	46	78	34	56	-2	.6	-.3	.3	1.4	26	37.5	114	84	50	0	0	3	0
WA QUILLAYUTE	57	38	60	33	48	-3	.7	-1.6	.5	5.1	55	61.0	89	99	63	0	0	3	1
SEATTLE-TACOMA	59	46	65	41	52	-2	.4	-.3	.3	2.1	66	17.8	76	88	58	0	0	2	0
SPOKANE	60	39	75	29	50	-1	.8	-.6	.6	1.2	111	7.5	66	82	38	0	1	2	1
YAKIMA	65	36	72	31	51	-1	T	-.1	T	.1	16	4.4	83	86	41	0	2	0	0
WV BECKLEY	61	41	68	32	51	-3	.2	-.4	.2	1.7	36	42.9	129	89	50	0	1	2	0
CHARLESTON	67	42	75	32	54	-3	.2	-.4	.1	2.2	48	44.0	129	99	44	0	1	3	0
HUNTINGTON	66	44	74	35	55	0	1.3	.6	1.0	2.7	59	40.0	115	95	42	0	0	3	1
PARKERSBURG	67	42	74	32	54	-2	.3	-.3	.2	2.1	50	41.6	124	95	38	0	1	2	0
WI GREEN BAY	61	39	66	33	50	0	T	-.5	T	2.5	54	25.3	105	96	58	0	0	1	0
LACROSSE	66	41	71	35	54	2	T	-.5	T	6.5	130	30.4	114	91	41	0	0	0	0
MADISON	64	35	68	30	50	-2	T	-.6	T	6.5	130	29.4	108	96	42	0	2	1	0
MILWAUKEE	61	44	64	37	53	1	T	-.6	T	2.2	48	22.6	84	91	53	0	0	0	0
WAUSAU	62	36	70	30	49	1	T	-.6	T	3.8	66	18.5	66	90	40	0	1	0	0
WY CASPER	64	40	73	34	52	4	1.1	.9	1.1	3.6	254	10.3	97	83	40	0	0	2	1
CHEYENNE	64	37	75	34	50	2	.4	-.2	.4	1.6	96	12.3	94	78	31	0	0	1	0
LANDER	62	37	69	35	49	1	.5	-.2	.5	2.8	169	8.1	73	82	33	0	0	1	1
SHERIDAN	62	38	78	32	50	1	.8	.6	.8	3.3	167	13.2	106	84	49	0	1	2	1

Based on 1961-90 normals.

# National Agricultural Summary

October 10 - 16, 1994

**HIGHLIGHTS:** Heavy rains across the Southeastern States brought harvest activity to a halt in Georgia. The continued wet weather in the Southeast has produced saturated fields and increased the threat of boll rot to the cotton crop. A flow of tropical moisture that followed the remains of Pacific Hurricane Rosa spread enormous amounts of rain across eastern Texas and the Delta States that delayed harvest activity and winter wheat planting. Beneficial showers and cooler temperatures reduced drought stress for winter wheat in the Pacific Northwest, but some producers were still waiting for more moisture before planting. Early in the week, a wave of Canadian air brought frost and freezing temperatures to parts of the Corn Belt. The killing frost helped dry-down the corn in the Great Lakes States, and was followed by warmer weather later in the week that provided ideal conditions for harvesting. With many growers close to finishing the soybean harvest and planting wheat, they turned their attention to harvesting corn.

**Winter wheat** planted at 78 percent (%) was up 12 percentage points from the previous week, but was 1 point behind the 5-year average. Winter wheat planted in Kansas was up 15 points from the previous week, and was equal to the average. Winter wheat planted in Washington was up 14 points from last week but was 8 points behind the average. Dry conditions in Kansas resulted in some thin, spotty stands. Some wheat in Colorado was reseeded because of soil crusting-over, and some grasshopper damage was reported. Winter wheat for the 19 major producing States was 49% emerged, 5 points behind the average, while wheat emerged in Oregon and Washington was 25 and 21 points behind the average, respectively.

**Corn** harvest for the 17 major producing States advanced 13 points from last week to 40%, and was equal to the average. Favorable weather in the Corn Belt, following a killing frost in parts of the northern Corn Belt, helped dry-down the corn and promoted

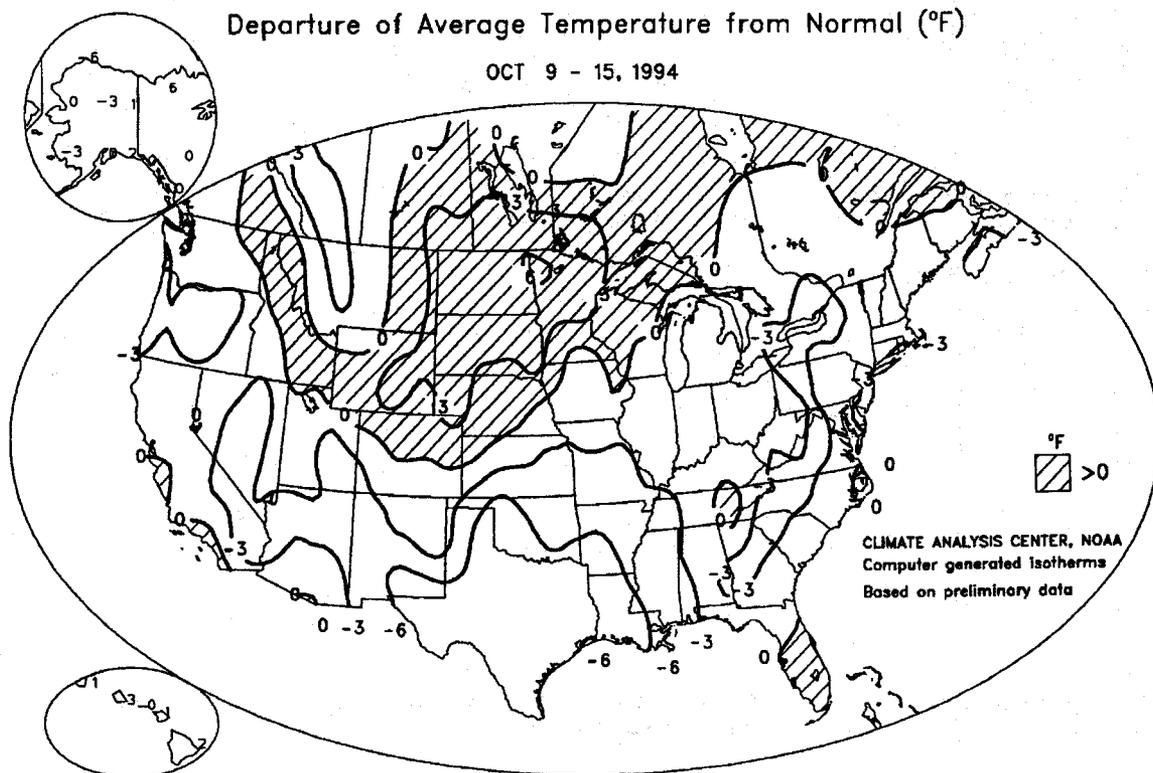
harvest activity. Corn harvested in Illinois was up 19 points from the previous week but was 2 points behind the average. Iowa increased corn harvested by 17 points from the previous week and was 4 points ahead of the average.

**Cotton** condition was down from last week for the 14 major producing States, with 57% of the cotton crop rated as good to excellent. Most of the decline was in the Delta and Southeastern States. Cotton bolls opening were 89% complete, up from last week and ahead of the average by 5 points. Georgia reported bolls opening at 84%, up 3 points from last week but 2 points behind the average. Cotton harvested in the 14 major producing States at 41% was up 8 points from last week and 4 points ahead of the average. In Missouri, the cotton harvest increased 15 points from last week to 56% harvested. Rain in the Southeastern and Delta States left fields saturated and increased the threat of tight boll and boll rot.

**Sorghum** rated as mature at 94% was up 4 points from the previous week and 9 points ahead of the average. Grain sorghum harvested at 68% was up 11 points from last week and 15 points ahead of the average. Sorghum in Nebraska reached 54% harvested, 12 points ahead of the average.

**Rice** harvested at 93% complete was up 5 points from last week and 6 points ahead of the average for the five major producing States. Rainy weather across the Delta and Southeastern States slowed rice harvesting. Rice harvested in Arkansas was 95% complete, up 3 points from a week ago and 11 points ahead of the average.

**Soybeans** dropping leaves at 94% was 5 points ahead of the average in the 19 major producing States. Soybean harvest at 64% was up 20 points from a week ago and 7 points ahead of the average for the 19 major producing States. Indiana soybean producers harvested 80% of the crop, 22 points ahead of the average and up from last week. Harvest was 11 points ahead of normal in Illinois, at 83% complete.



**Crop Progress**  
for the Week Ending October 16, 1994

**COTTON BOLLS OPENING**

	Current	Last Wk	1993	Avg.
AL	80	76	90	91
AZ	100	100	100	100
AR	92	90	92	93
CA	100	100	100	100
GA	84	81	93	86
LA	99	98	99	99
MS	100	99	98	98
MO	97	91	93	94
NM	95	93	99	95
NC	100	100	100	100
OK	96	94	86	69
SC	87	84	100	96
TN	100	100	100	97
TX	80	75	85	68

14 States 89 86 92 84

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

**COTTON HARVESTED**

	Current	Last Wk	1993	Avg.
AL	22	19	46	48
AZ	48	32	57	44
AR	54	34	40	42
CA	20	10	35	26
GA	10	10	52	35
LA	63	61	66	70
MS	48	45	50	53
MO	56	41	52	53
NM	10	4	7	3
NC	33	23	40	29
OK	48	35	17	9
SC	23	17	46	34
TN	48	33	56	49
TX	41	35	43	28

14 States 41 33 45 37

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

**WINTER WHEAT PLANTED**

	Current	Last Wk	1993	Avg.
AR	29	17	14	19
CA	1	0	5	3
CO	99	97	97	98
GA	5	3	6	6
ID	74	55	72	86
IL	69	37	40	57
IN	70	44	59	59
KS	90	75	90	90
MI	75	55	75	75
MO	48	30	29	41
MT	56	48	73	86
NE	100	98	100	100
NC	35	29	17	18
OH	74	46	65	57
OK	85	82	90	81
OR	44	23	81	76
SD	100	97	100	100
TX	68	59	73	72
WA	84	70	94	92

19 States 78 66 78 79

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

**RICE HARVESTED**

	Current	Last Wk	1993	Avg.
AR	95	92	79	84
CA	80	60	60	72
LA	97	96	97	98
MS	94	90	78	85
TX	100	99	99	100

5 States 93 88 82 87

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

**CORN HARVESTED**

	Current	Last Wk	1993	Avg.
CO	55	39	15	17
GA	95	95	97	96
IL	42	23	25	44
IN	24	17	19	32
IA	40	23	10	36
KS	85	75	60	70
KY	62	55	69	63
MI	15	12*	5	20
MN	23	9	6	32
MO	63	50	37	60
NE	45	29	15	40
NC	84	77	87	81
OH	15	11	20	23
PA	15	9	14	16
SD	28	17	6	40
TX	95	91	95	94
WI	18	9	6	19

17 States 40 27 22 40

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

**WINTER WHEAT EMERGED**

	Current	Last Wk	1993	Avg.
AR	14	7	6	8
CA	0	0	1	0
CO	86	82	86	84
GA	3	2	2	2
ID	34	21	32	50
IL	25	5	7	21
IN	30	9	16	28
KS	65	50	60	65
MI	45	40	30	50
MO	25	10	10	19
MT	33	19	20	50
NE	97	84	91	92
NC	6	0	5	7
OH	26	11	20	22
OK	25	22	62	47
OR	14	7	47	39
SD	91	84	92	90
TX	50	40	52	50
WA	55	52	77	76

19 States 49 39 53 54

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

**GRAIN SORGHUM MATURE**

	Current	Last Wk	1993	Avg.
AR	100	100	100	98
CO	88	64	77	76
IL	96	95	87	88
KS	100	97	80	75
LA	100	100	100	98
MS	100	100	100	99
MO	94	92	89	89
NE	100	100	86	94
NM	70	60	76	74
OK	35	32	69	61
SD	100	96	80	94
TX	91	87	91	91

12 States 94 90 86 85

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

**GRAIN SORGHUM HARVESTED**

	Current	Last Wk	1993	Avg.
AR	96	93	88	90
CO	34	26	12	26
IL	49	25	21	41
KS	70	55	25	35
LA	99	97	97	97
MS	98	97	93	92
MO	56	43	40	51
NE	54	33	9	42
NM	13	10	21	24
OK	20	18	28	12
SD	40	25	20	59
TX	83	77	81	75

12 States 68 57 45 53

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

**SOYBEANS DROPPING LEAVES**

	Current	Last Wk	1993	Avg.
AL	61	58	70	74
AR	64	50	49	53
GA	84	74	84	84
IL	98	97	97	97
IN	100	99	100	98
IA	100	100	98	100
KS	97	95	96	95
KY	82	65	78	77
LA	88	74	86	73
MI	100	90	100	100
MN	99	99	89	99
MS	87	80	72	76
MO	93	85	93	90
NE	100	100	100	100
NC	71	45	57	58
OH	100	100	100	99
SC	35	19	38	39
SD	100	100	100	100
TN	85	64	87	79

19 States 94 89 90 91

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

**SOYBEANS HARVESTED**

	Current	Last Wk	1993	Avg.
AL	10	8	28	24
AR	32	18	17	16
GA	9	9	8	11
IL	83	65	71	72
IN	80	58	63	58
IA	81	60	67	80
KS	60	45	45	50
KY	21	11	18	16
LA	46	40	53	45
MI	45	15	40	40
MN	67	29	29	80
MS	47	40	32	31
MO	45	29	34	39
NE	82	64	80	79
NC	8	0	7	6
OH	79	53	63	49
SC	1	0	4	3
SD	70	40	54	79
TN	17	10	17	15

19 States 64 44 50 57

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

**Crop Condition**

for the Week Ending Oct. 16, 1994

**COTTON**

State	VP	P	F	G	EX
AL	0	0	28	69	3
AZ	0	0	10	80	10
AR	0	0	0	75	25
CA	0	0	5	75	20
GA	3	3	32	60	2
LA	0	0	23	77	0
MS	0	2	24	71	3
MO	0	0	20	70	10
NM	0	0	33	50	17
NC	0	0	15	75	10
OK	0	5	59	26	10
SC	0	0	44	56	0
TN	0	0	1	99	0
TX	0	9	68	22	1
14 State	0	4	39	51	6
Prev Week	0	7	31	54	8
Prev Year	1	14	41	41	3

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

## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Rainfall 0.41 to 2.40 in. north; 0.32 to 1.85 in. central; 0.11 to 3.38 in. south. Temperatures 7° below normal to 1° above normal statewide. Lows 41 to 55° north; 42 to 54° central; 43 to 57° south. Highs 73 to 80° north; 71 to 78° central; 75 to 79° south.

Days suitable for fieldwork 2.5. Soil moisture 45% adequate, 55% surplus. Corn harvested 87%, 89% 1993, 90% avg. Sorghum harvested 50%, 54% 1993, 69% avg.; 23% fair, 64% good, 13% excellent. Peanuts dug 85%, 86% 1993, 91% avg.; combined 78%, 78% 1993, 84% avg. Wheat planted 28%, 31% 1993, 29% avg. Pasture feed 5% poor, 28% fair, 62% good, 5% excellent. Livestock 19% fair, 74% good, 7% excellent. Seasonal activities: Harvesting row crops, vegetables, defoliating cotton fields, seeding small grains, ground preparation for fall planting.

**ALASKA:** No weather data available.

**ARIZONA:** Temperatures normal to 5° below normal. Extremes 26°; 85° higher elevations; 41°; 97° deserts. Precipitation reported all stations except Parker, Yuma; trace to 2.40 in.

Cotton harvest in full swing, condition continues mostly good; opening bolls 100%, 100% 1993, 100% avg. Weed infestations light to moderate; insect, disease infestations continue moderate. Field activities: Picking, defoliation, final irrigations, pesticide applications, pest monitoring. Alfalfa condition remains good. Harvest moderate to active. Weed, insect, disease infestations light to moderate. Lemon, grapefruit harvest increasing western, central areas. Apple harvest active eastern groves. Raisin grape harvest declining central, western vineyards. Melon harvested central, western areas included cantaloupe, honeydew, watermelon. Chili peppers available eastern, central areas. Head lettuce, pumpkin, squash available eastern areas. Cabbage available eastern, western areas.

**ARKANSAS:** Temperatures below normal with scattered showers across the State with the heaviest amounts in the southern regions. Extreme 34°; 76°. Precipitation 0.09 to 2.88 in.

Days suitable for fieldwork 4. Soil moisture 18% short, 54% adequate, 28% surplus. Rainfall has slowed fieldwork. Rice, grain sorghum, soybean, cotton harvests in progress. Producers fertilizing, liming pastures. Peanuts in good condition with harvest 90% complete. Pasture feed 2% very poor, 25% poor, 47% fair, 24% good, 2% excellent. Producers feeding hay in North central, northwestern counties due to dry conditions. Ponds, pastures are drying up. Producers selling calf crop early in these counties. Livestock good condition.

**CALIFORNIA:** Low pressure systems dropped south from Gulf of Alaska into State, great basin. Peak winds reported 23 MPH Sacramento Executive Airport, Marysville on 15th. Temperatures began above normal, 14th highs were low 70s.

Progress field activities improved most areas, drier conditions prevailed. Rice harvest full-swing; stubble burning followed where conditions, air quality regulations permitted. Cotton defoliation, harvest resumed San Joaquin Valley; some areas still delayed, wet soils earlier rains. Desert harvest progressed normally. Grain corn, silage corn, dry beans, sugarbeets harvested. Established alfalfa, sugarbeets treated worms. Alfalfa cut, baled. New alfalfa, winter forages, oat hay seeded. Ground preparation fall-planted small grains gained momentum. Winter wheat seeding underway few areas. Wine, table grape harvests continued. Approximately 1/10 raisin vineyards open trays, 1/10 rolled, remaining raisins picked, boxed. Growers harvested apples. Previous rains caused some apple crop loss due russetting, growth cracks. Kiwifruit, quince, persimmons, pomegranates harvested. Olive harvest underway, improved sizes following rainfall. Almond, pistachio harvests winding down. Walnut harvest continued. Grapefruit, lemon, Valencia orange, tangerine harvests continued. Broccoli harvest central coast. Fall broccoli, cauliflower progressed normally San Joaquin Valley. Carrots harvested Kern County. Celery harvested south coast. Sweet corn harvest central valleys wound down. Fall head, leaf lettuce fields irrigated San Joaquin Valley, harvested central coast. Summer melon harvest central valley neared completion. Whiteflies Palo Verde Valley damaged fall melons. Onion harvest wound down central coast. Pepper harvest continued San Joaquin Valley. Harvest fall potatoes Tulare-Butte Valley full-swing. Sweet potato harvest Merced, Stanislaus counties continued. Harvest fresh market tomatoes continued

San Joaquin Valley. Fresno County tomatoes contracted virus, does not allow fruit fully develop. Processing tomato harvest wound down central valleys. Vine seed harvested Sutter County good quantity, quality. Other crops harvested: squash, cucumbers, green beans, green onions, okra, eggplant, gourds, pumpkins, herbs, spices, oriental vegetables. Range, pasture feed fair to poor. Rangeland grasses germinated some areas. Rainfall needed to sustain development, drying soil conditions stressing new growth. Livestock movement to lower elevations heavy some areas, about to take place others. Supplemental feeding moderate. Calving reported, cold nights blamed increased calf deaths. Sheep grazing old tomato fields. Cattle, sheep good condition.

**COLORADO:** High pressure beginning of the week weakened, allowed two strong upper level low pressure systems to move in from the west. Change arrived on the 14th on the heels of gusty winds to 50 mph in the northeast. Winter weather arrived in the southwest on the 15th including 1.79 in. of precipitation at Durango. Over a foot of snow fell in much of the mountains over the weekend, the southern mountains receiving the brunt of the snow. Weekly temperatures were near normal most areas except parts of the south where below normal readings were observed.

Days suitable for fieldwork 5.6. Soil moisture 3% very short, 37% short, 59% adequate, 1% surplus. Alfalfa third cutting 99% complete, 96% 1993, 86% avg; fourth cutting 67% complete, 36% 1993, 43% avg. Dry beans 97% harvested, 98% 1993, 93% avg. Dry onion harvest virtually complete. Sorghum 6% poor, 20% fair, 54% good, 20% excellent. Sugarbeets 45% harvested, 24% 1993, 24% avg.; 4% very poor, 10% poor, 18% fair, 67% good, 1% excellent. Summer potato harvest finished. Fall potatoes 99% harvested, 91% 1993, 88% avg. Some winter wheat reseeding as a result of deep planting followed by crusting over after rain, grasshopper damage of emerged plants. Winter wheat 2% very poor, 6% poor, 25% fair, 48% good, 19% excellent. Livestock mostly good. Pasture, range feed conditions rated poor to fair.

**FLORIDA:** Temperature 1 to 4° below normal west, north, 1 to 3° above Peninsula, central, south. Highs: upper 70s Panhandle, mid 80s Peninsula, lower 90s south. Lows: lower 50s west, upper 50s north, 60s central, low 70s south. Rain 1.00 to 2.00 in. most west, north locations, 2.00 to 3.00 in. central, under 2.00 in. south. Few spots received above 4.00 in. rain.

Soil moisture adequate to surplus throughout State. Some flooding in scattered areas. Rains delaying harvest of all crops. Peanut harvest winding down. Cotton harvest starting. Soybean harvest active. Sugarcane growers making preparations to start harvest. Wet fields delaying sugarcane planting. Haying winding down. Citrus groves, trees, fruit very good to excellent condition. Fruit coloring well on trees. Dry weather last of week helped harvest. Most early fruit moving on limited basis due to wet conditions. Caretakers cutting cover crops, spraying, herbiciding. Rain slowed some northern sweet corn, tomato, watermelon harvest during first part of week. Mostly sunny skies over southern vegetable areas with scattered showers aiding crop growth. Bell pepper, watermelon harvest underway in Palmetto-Ruskin. Other vegetables available: Sweet corn, tomatoes, snap beans north; squash, watermelons north, west central; Bell peppers, cucumbers, cherry tomatoes west central; Bell peppers, eggplant east coast; radishes north central. Pasture feed 5% poor, 15% fair, 65% good, 15% excellent. Cattle mostly good.

**GEORGIA:** Temperatures 1 to 6° below normal. Warmest mostly 70s, except some low 80s extreme south, southeast. Coolest 40s north, center, except some upper 30s mountains. South upper 40s to mid 50s. Rain 3 to 6 days. Mostly 1.00 to 5.00 in., except 5.00 to 14.00 in. some spots southeast. Heaviest rain 14.61 in. at Hunter Field near Savannah.

Days suitable for fieldwork 1.0. Soil moisture 8% adequate, 92% surplus. No corn harvest progress. Slight cotton harvest progress, condition down. Sorghum 4% poor, 18% fair, 78% good; 72% harvested for grain, 78% 1993, 70% avg.; no harvest progress. Peanuts 6% very poor, 12% poor, 37% fair, 43% good, 2% excellent; 88% dug, 91% 1993, 92% avg.; 77% threshed, 80% 1993, 81% avg.; harvest at standstill, condition down sharply. Soybeans 3% poor, 26% fair, 68% good, 3% excellent; harvest stopped, condition down. Wheat 2% poor, 28% fair, 69% good, 1% excellent; few fields planted. Rye 34% planted, 25% 1993, 33% avg. Other small grains 28% fair, 72% good; 23% planted, 18% 1993, 20% avg. Other vegetables 3% very poor, 19% poor, 50% fair, 25% good, 3% excellent; Conditions down, rains, wet fields slowing harvest. Apples 7% very poor, 10% fair, 83% good; 90% harvested, 80% 1993,

82% avg.; harvest stopped. Pecans 2% very poor, 17% poor, 48% fair, 33% good; 6% harvested, 5% 1993, 5% avg.; slight drop in conditions. Hay 1% very poor, 3% poor, 37% fair, 56% good, 3% excellent; rains stopped harvest. Pasture feed 3% poor, 15% fair, 75% good, 7% excellent. Cattle, hogs good. Activities: Waiting for rains to stop, fields to dry, maintenance on machinery, routine care of livestock, poultry.

**HAWAII:** Weather for the week was variable, sunny days mixed with overcast skies, intermittent heavy rains. Trade winds weakened mid-week, bringing humid conditions. Thunder storms Oahu island 16th night. Temperatures mid 60s to low 90s. Rainfall none to 5.00 in.

Damage from heavy rain to agriculture not fully assessed at present. Spraying to control insects, disease active. Banana production heavy. Sugarcane harvesting winding down some areas.

**IDAHO:** Temperatures 2° below to 2° above normal. Precipitation 0.18 to 0.55 in. north, 0.20 to 0.43 in. southwest, 0.11 to 0.27 in. south central, none to 0.69 in. southeast. Extreme 27°; 87°.

Days suitable for fieldwork 6. Potatoes harvested 77%, 85% 1993, 87% avg.; 1% poor, 18% fair, 64% good, 17% excellent. Soil moisture 19% very short, 40% short, 38% adequate, 3% surplus. Range, pasture feed 61%. Winter wheat 9% poor, 39% fair, 44% good, 8% excellent. Sugar beets harvested 36%, 35% 1993, 38% avg. Alfalfa hay harvested (3rd cutting) 95%, 82% 1993, 93% avg. Apples harvested 75%, 58% 1993, 68% avg. Field corn for grain harvested 19%, 31% 1993, 25% avg. Field corn for silage harvested 88%, 73% 1993, 87% avg. Onions harvested 97%, 93% 1993, 93% avg. Dry beans harvested 98%, 90% 1993, 96% avg. Irrigation water supplies 29% very poor, 17% poor, 23% fair, 29% good, 2% excellent. Activities: Harvesting potatoes, sugarbeets, apples, corn, moving and sorting livestock, planting winter wheat.

**ILLINOIS:** High temperatures reached the 70s over virtually all of State, averaged in the mid to upper 60s across State. Average high temperatures in the 60s, 3 to 5° above normal north to 4 to 5° below normal south. Lows in the 40s to low 50s for the week with lows over some northern counties falling to freezing or below. Precipitation for the week was sparse in the north, central, total in the south generally exceeded 0.25 in. with over 0.75 in. at a few sites.

Days suitable for fieldwork 5.0. Soil moisture 30% short, 70% adequate. Pasture feed 82% of normal. Soil moisture supplies increased. Farm activities included corn, soybean, sorghum harvest, seeding winter wheat, fall tillage, applying fertilizer, hauling grain, tending livestock.

**INDIANA:** Surge of Canadian air brought frost, freezing temperatures to much of the State early in the week. Far southern areas escaped most of the frost. High temperatures upper 60s to around 70°, which was 1 to 5° above normal in the central, north. Readings 1 to 2° below normal in the south. Lows averaged in the upper 30s to 40s, except for around 50s in the far south. This was 1 to 5° above normal over most of the State. Lows upper 20s to mid 30s in north to the 30s, low 40s south. Rainfall none in much of the central, north to 0.20 to 0.60 in. south. Drier than normal by around 0.30 to 0.70 in. across most of the State.

Days suitable for fieldwork 5.4. Dry soil conditions continue in most areas. Corn, soybean harvest made good progress. Other activities: Fall tillage, chopping stalks, spreading fertilizer, lime, seeding winter wheat, cutting corn silage, finishing up hay, tobacco harvest, care of livestock. Pasture feed 70% of normal, 68% last week. Topsoil 46% short, 54% adequate. Subsoil moisture 54% short, 46% adequate. Corn 98% mature, 99% 1993, 94% avg. Soybeans mature 98%, 99% 1993, 88% avg. Tobacco harvest virtually complete.

**IOWA:** Temperatures normal to 4° above normal. Extremes 31°; 74°. Dry, sunny until the weekend. Precipitation trace far east up to 1.61 in. west central; average 0.47 in. (normal 0.58 in.).

Days suitable for fieldwork 6.7. Topsoil 19% short, 79% adequate, 2% surplus. Subsoil 25% short, 72% adequate, 3% surplus. Winter wheat acreage seeded 71%, 68% 1993, 81% avg. 1995 row crop acreage fall tilled 10%, 9% 1993, 10% avg. 1995 row crop acreage fall fertilizer applied 10%, 7% 1993, 9% avg. Percent moisture of field corn 21%. Percent moisture of field corn being harvested 19%. Grain storage availability 76% adequate, 24% surplus. Corn 46% good, 54% excellent. Pasture feed 5% poor, 33% fair, 48% good, 14% excellent. Except for pneumonia in some cattle, livestock herds were in mostly good condition last week. Reports indicated low hog prices lead some smaller herds to be liquidated. The weather provided good feeding conditions for livestock; corn stalks reportedly provided low quality feed for livestock.

**KANSAS:** Temperatures were normal in the northwest district, 2 to 6° below normal in the remaining districts. Precipitation across the State

was sparse. Southeastern district received an average of 0.80 in. All other districts recorded less than 0.25 in.

Days suitable for fieldwork 6.5. All districts experienced 6 or more days suitable. Surface soil moisture 61% short to very short, 39% adequate. Subsurface moisture 60% short to very short, 40% adequate. Open weather across the State last week allowed fall harvest, wheat seeding to make good progress. Dry conditions that continue to persist in the central, western districts of the State have resulted in thin, spotty wheat stands. Corn harvest progressed rapidly. Sorghum harvest is picking up speed as all the sorghum has matured. Soybeans shedding is complete in all, southeastern district. Fall crop harvest, seeding wheat major activities. Pasture feed fair condition, supplemental feeding of livestock is necessary in many areas.

**KENTUCKY:** Temperatures below normal most of week, highs 60s to lows 40s. Over the weekend highs into the 70s. Rainfall 0.75 to 1.25 in. occurring latter half week.

Days suitable fieldwork 4.0. Soil moisture 12% very short, 36% short, 49% adequate, 3% surplus. Previous week 26% very short, 56% short. Small percentage soybeans still entirely green, becomes less daily. Crop generally good to excellent. Almost all tobacco is cut. Burley stripped 10%, 13% 1993, 13% avg. Quality crop with good color. Condition housed crop mostly good to excellent.

**LOUISIANA:** Temperatures 5.2 to 8.0° below normal. Extremes 46°; 84°. Rainfall 0.03 in south central to 4.58 in. north central.

Days suitable for fieldwork 2.8. Soil moisture supplies 2% very short, 12% short, 46% adequate, 40% surplus. Hay 97% final cutting, 95% 1993, 95% avg. Harvest slowed by rain. Pecans 5% harvested, 7% 1993, 7% avg. Harvesting in southern areas made progress. Soybeans 10% poor, 29% fair, 59% good, 2% excellent; 96% turning color, 96% 1993, 89% avg. Harvest halted by rain. Sugarcane 21% fair, 79% good; 98% planted, 99% 1993, 95% avg.; 11% harvested, 12% 1993, 9% avg. Harvest continued active. Planting was slow due to rain. Sweet potatoes 69% harvested, 65% 1993, 71% avg. Harvest began again due to rain which has decreased bruising. Wheat 13% planted, 8% 1993, 7% avg.; 9% emerged, 3% 1993, 2% avg. Planting made good progress. Livestock 13% poor, 67% fair, 20% good. Pasture feed 1% very poor, 8% poor, 11% fair, 79% good, 1% excellent. Rye grass planting was active toward weekend. Vegetables 2% poor, 36% fair, 58% good, 4% excellent. Planting of fall vegetables was active in the Florida parishes.

**MARYLAND & DELAWARE:** MARYLAND: Precipitation 0.21 in., normal 0.71 in. Temperature 56.5°, normal 59.4°. Extremes 23°; 82°.

Days suitable for fieldwork 6.7. Topsoil 6% very short, 38% short, 56% adequate. Subsoil moisture 20% short, 80% adequate. Pasture feed good. Wheat good; 24% planted, 30% 1993, 23% avg. Barley good; 70% planted, 71% 1993, 56% avg. Rye good; 53% planted, 52% 1993, 44% avg. Corn 98% mature, 97% 1993, 95% avg.; 57% grain harvested, 72% 1993, 58% avg.; 92% silage harvested, 97% 1993, 92% avg. Soybeans 94% turned, 94% 1993, 93% avg.; 84% shedding leaves, 75% 1993, 73% avg.; 23% harvested, 20% 1993, 19% avg. Sorghum 97% turned, 85% 1993, 97% avg.; 94% mature, 63% 1993, 92% avg.; 28% harvested, 20% 1993, 42% avg. Other hay 93% third cut, 84% 1993, 74% avg.; 66% fourth cut, 44% 1993, 35% avg. Alfalfa hay 98% fourth cut, 89% 1993, 81% avg.; 55% fifth cutting, 30% 1993, 24% avg. Hay supplies adequate. Apples 84% harvested, 80% 1993, 80% avg.

DELAWARE: Precipitation 0.05 in., normal 0.76 in. Temperature 55.3°, normal 59.8°. Extremes 33°; 79°.

Days suitable for fieldwork 6.8. Topsoil 50% short, 50% adequate. Subsoil moisture 50% short, 38% adequate, 12% surplus. Wheat good; 14% planted, 16% 1993, 16% avg. Barley good; 55% planted, 70% 1993, 49% avg. Corn 68% grain harvested, 73% 1993, 72% avg.; 100% silage harvested, 100% 1993, 99% avg. Soybeans 87% turned, 93% 1993, 88% avg.; 71% shedding leaves, 70% 1993, 67% avg.; 18% harvested, 16% 1993, 14% avg. Sorghum 97% turned, 91% 1993, 97% avg.; 74% mature, 76% 1993, 85% avg.; 14% harvested, 2% 1993, 41% avg. Other hay 90% fourth cutting, 0% 1993, 30% avg. Alfalfa hay 100% fourth cut, 83% 1993, 91% avg.; 44% fifth cutting, 14% 1993, 27% avg. Hay supplies adequate; pasture feed excellent. Apples 91% harvested, 87% 1993, 84% avg.

**MICHIGAN:** Extremes 25°; 73°. Precipitation none to 0.75 in. across the State.

Days suitable for fieldwork 6.5. Soil moisture 5% short, 90% adequate, 5% surplus. Dry beans 100% mature, 100% 1993, 100% avg.; 90% harvested, 90% 1993, 90% avg.; 10% very poor, 20% poor, 30% fair, 25% good, 15% excellent. Corn for grain 80% mature; 70% 1993, 80% avg.; 15% harvested, 5% 1993, 20% avg. Corn silage 90% harvested, 80% 1993, 80% avg. Potatoes 90% harvested, 80% 1993, 85% avg. Soybeans

100% shedding, 100% 1993, 100% avg.; 80% mature, 90% 1993, 85% avg.; 45% harvested, 40% 1993, 40% avg. Hay 95% third cutting, 90% 1993, 90% avg.; 50% fourth cutting, 50% 1993; 1% very poor, 4% poor, 20% fair, 50% good, 25% excellent. Pasture feed 90% of normal. Major activities: Fruit harvest, cutting hay, planting wheat, corn silage harvest, soybean harvest, potato harvest, dry bean harvest.

**MINNESOTA:** Temperatures 1 to 6° above normal for the State. Extremes 24°; 74°. Precipitation averaged about normal for the State. Greatest weekly total was 1.11 in.

Days suitable for fieldwork 5.7. Topsoil 81% adequate, 19% surplus. Corn 23% harvested, 6% 1993, 32% avg.; cut for silage 95%, 82% 1993, 92% avg.; moisture content 24%, 31% 1993, 26% avg.; stalks worked 8%, 8% 1993, 14% avg. Soybeans 99% mature, 80% 1993, 95% avg.; harvested 67%, 65% 1993, 80% avg.; moisture content 14%, 13% 1993, 12% avg.; stubble worked 21%, 28% 1993, 35% avg. Potatoes 95% harvested, 92% 1993, 94% avg. Dry edible beans 96% harvested, 92% 1993, 97% avg. Flaxseed 96% harvested, 77% 1993, 90% avg. Sugarbeets 65% harvested, 85% 1993, 85% avg. Sunflowers 61% harvested, 18% 1993, 61% avg.

**MISSISSIPPI:** Temperatures 4.4° below normal. Extremes 42°; 80°. Soil temperature 65°. Precipitation 2.05 in., 1.35 in. above normal. Entire State received rain during most of the week ranging from 1.03 in. upper delta to 2.53 in. southwest district.

Days suitable for fieldwork 1.5. Soil moisture 26% adequate, 74% surplus. Corn 95% harvested, 89% 1993, 88% avg. Cotton 48% harvested, 50% 1993, 53% avg.; 2% poor, 24% fair, 71% good, 3% excellent. Rice 94% harvested, 78% 1993, 85% avg. Soybeans 87% shedding leaves, 72% 1993, 76% avg.; 47% harvested, 32% 1993, 31% avg.; 22% fair, 47% good, 31% excellent. Wheat 23% planted, 24% 1993, 30% avg.; 13% emerged, 13% 1993, 14% avg.; 65% fair, 14% good, 21% excellent. Sweet potatoes 75% harvested, 72% 1993, 74% avg. Pecans 15% harvested, 4% 1993, 6% avg.; 12% very poor, 21% poor, 54% fair, 13% good. Livestock 14% fair, 72% good, 14% excellent. Pasture feed 76% of normal. Activities: Waiting for fields to dry from the rain so harvest can continue.

**MISSOURI:** Temperatures below normal across State, 6° below normal at Nevada to 2° below normal at St. Louis, Caruthersville. Rainfall 0.33 in., varying 0.18 in., northeast to around one half inch central, southeast.

Days suitable for fieldwork 4.7. Topsoil moisture 27% short, 69% adequate, 4% surplus. Corn harvest by district ranges 47% northeast, central to 99% southeast. Soybeans dropping leaves by district ranges 58% southwest to virtually complete northern third of State. Soybeans harvested by district ranges 20% southeast to 68% north central, northeast. Sorghum harvest by district ranges 19% central to 89% southeast. Pastures 2% very poor, 11% poor, 53% fair, 27% good, 7% excellent.

**MONTANA:** Precipitation at all stations, greatest amounts in southern divisions. Temperatures normal early week, below normal by weekend.

Days suitable for fieldwork 3.6. Topsoil moisture 42% short, 58% adequate. Subsoil moisture 70% short, 30% adequate. Corn for silage 97% harvested, 84% 1993, 93% avg. Potatoes 82% harvested, 55% 1993, 72% avg. Sugarbeets 48% harvested, 22% 1993, 42% avg. Pasture, range feed condition 76% of normal. Cattle, calves moved from summer ranges, 54%. Sheep, lambs moved from summer ranges, 64%.

**NEBRASKA:** Temperatures varied from 3° below normals central to 6° above normals north central. Precipitation occurred last two days of week varying from 0.10 in. north central to 1.60 in. southwest.

Days suitable for fieldwork 6.7. Topsoil 29% short, 71% adequate. Subsoil moisture 27% short, 73% adequate. Corn 45% harvested, 15% 1993, 40% avg. Sorghum 54% harvested, 9% 1993, 42% avg. Soybeans 82% harvested, 80% 1993, 79% avg. Winter wheat 97% emerged, 91% 1993, 92% avg.; 1% poor, 35% fair, 63% good, 1% excellent. Pasture, range feed 85% of normal.

**NEVADA:** Week began with the State under influence of high pressure, mostly clear skies. Upper trough over the northwest sent a series of weak disturbances, causing cooler temperatures and a few showers on 11th. Strong northwest jet pushed a very cold low pressure system through Nevada, brought snow levels down to 5000 Ft on 14th. Precipitation was light, with Austin 0.64 in., Elko 0.55 in. Temperatures 1 to 2° below normal all climatic divisions. Extremes 41°; 70°.

Onion harvest was winding down in most of the State. Potato harvest continued. Movement of livestock to fall pastures or market. Main farm, ranch activities; Marketing, feeding, moving livestock.

**NEW ENGLAND:** Precipitation none to 0.40 in. regionwide. Temperatures 43 to 49° north; 45 to 53° south. Temperatures 3° below normal regionwide. Maximum temperatures 64 to 76° north; 61 to 76° south. Minimum temperatures 19 to 29° north; 22 to 35° south.

Days suitable for fieldwork 7. Soil moisture 4% very short, 21% short, 75% adequate. Available grazing 12% very short, 12% short, 76% adequate. Fieldwork on schedule. Maine potatoes 95% harvested, 90% 1993, 90% avg.; condition good/fair. Rhode Island potatoes 95% harvested, 95% 1993, 90% avg.; condition good. Connecticut River Valley potatoes 95% harvested, 90% 1993, 90% avg.; condition good. Maine oats 99% harvested, 99% 1993, 99% avg.; condition good/fair. Field corn 80% harvested, 70% 1993, 75% avg.; condition good. Second crop hay 99% harvested, 90% 1993, 99% avg.; condition good. Third crop hay 85% harvested, 90% 1993, 90% avg.; condition good. Sweet corn 99% harvested, 99% 1993, 99% avg.; condition good. Apples 85% harvested, 75% 1993, 80% avg.; size medium, condition good, color good. Pears 99% harvested, 80% 1993; size medium, condition good. Cranberries 65% harvested, 60% 1993; size medium/large, condition good/excellent. Major farm activities: Chopping silage corn, harvesting fruits, disking down harvested fields, planting cover crops.

**NEW JERSEY:** Temperatures much below normal. Extremes 27°; 74°. Rainfall none north, none central, 0.01 in. south. Heaviest 24 hour total 0.10 in. on 12th, 13th. Estimated soil moisture, in percent field capacity, averaged 79% north, 68% central, 48% south. Four inch soil temperatures averaged 50° north, 51° central, 51° south.

Days suitable for fieldwork 7. Harvesting of fall vegetables continues. Good supply of cabbage, endive, escarole, lettuce (all types), turnips, spinach. Moderate, declining supply of green beans, cucumbers, squash, tomatoes, herbs, parsley. Light, declining supply of peppers, eggplant, sweet corn. Harvesting of field corn, soybeans continues. Planting of winter wheat, rye as cover crops. Apple harvest nearing completion. Cranberry harvest is active with quality reported as excellent.

**NEW MEXICO:** Temperatures 3° below normal for the State as the first winter storm of the season drifted across during latter part of week. Western, central, northern mountains got their first snowfall of the season with generally 2.00 to 6.00 in. above 7500 feet. Precipitation fell over virtually the entire State. Higher totals included 2.91 in. at Los Alamos, 1.95 in. at Gran Quivira, 1.80 in. at Las Vegas, 1.73 in. at Santa Fe.

Days suitable for fieldwork 6.6. Soil moisture 93% short, 7% adequate. Cropland conditions: Alfalfa 21% fair, 75% good, 4% excellent. Chile reported at 16% fair, 79% good, 5% excellent. Corn 6% poor, 35% fair, 59% good. Irrigated sorghum reported as 20% fair, 73% good, 7% excellent. Dryland sorghum 100% poor. Cotton 33% fair, 50% good, 17% excellent. Pecan 40% fair, 60% good. Apples 8% poor, 92% good. Cattle, sheep conditions varied from poor to good. Range feed 56% of normal.

**NEW YORK:** Dry week. Precipitation none to 0.61 in. of rainfall. Extremes 10°; 77°.

Days suitable for fieldwork 7.0. Soil moisture adequate. Pasture feed 95% of normal. Corn good to excellent. Silage 76% harvested, 72% 1993, 67% avg. Grain 10% harvested, 11% 1993, 11% avg. Harvest expected to progress rapidly as fields dry. Potato digging continued. Blight a problem in some areas. Dry bean harvest picked up momentum. Vegetable harvests winding down. Freeze ended growing season. Cabbage harvest continued. Onions being moved into storage. Apple, grape harvests were in full swing.

**NORTH CAROLINA:** Mean temperature at the seven reporting stations 54° at Asheville to 67° at Cape Hatteras. Rainfall 0.45 in. at Greensboro to 7.32 in. at Asheville.

Days suitable for fieldwork 4.8. Soil 14% short, 65% adequate, 21% surplus. Crop conditions: Pasture 1% poor, 39% fair, 57% good, 3% excellent; corn 7% poor, 41% fair, 50% good, 2% excellent; cotton 15% fair, 75% good, 10% excellent; peanuts 19% fair, 44% good, 37% excellent; soybeans 1% poor, 11% fair, 84% good, 4% excellent; hay 21% fair, 72% good, 7% excellent; sweet potatoes 29% fair, 71% good; apples 12% fair, 81% good, 7% excellent; sorghum 11% fair, 89% good; hay, roughage supplies 15% short, 73% adequate, 12% surplus; corn for grain harvested 84%, 87% 1993, 81% avg.; sorghum 83%, 72% 1993, 55% avg.; apples harvested 95%, 73% 1993, 83% avg.; sweet potatoes harvested 70%, 53% 1993, 59% avg.; cotton harvested 33%, 40% 1993, 29% avg.; peanuts dug 75%, 68% 1993, 64% avg.; peanuts threshed 55%, 45% 1993, 46% avg.; soybeans harvested 8%, 7% 1993, 6% avg.; wheat planted 35%, 17% 1993, 18% avg.; oats planted 45%, 28% 1993, 31% avg.; barley planted 51%, 34% 1993, 35% avg.; rye planted 59%, 46% 1993, 34% avg.; soybeans leaf drop 71%, 57% 1993, 58% avg.; wheat emerged 6%, 5% 1993, 7% avg.; second cutting of hay is 90% complete with the third

cutting 59% complete. Activities included: Corn, cotton, peanuts, hay; marketing tobacco, planting small grain, preparing land. Other activities included: Harvesting soybeans, sweet potatoes; tending livestock; equipment repair, general farm maintenance.

**NORTH DAKOTA:** Warmer than normal, precipitation at weekend. Precipitation 0.05 in. northeast to 0.49 in. northwest. Temperatures 5 to 6° above normal across the State. Extremes 25° central; 80° southwest, west central.

Days suitable for fieldwork 3.8. Soil moisture above average. Topsoil 1% very short, 7% short, 67% adequate, 25% surplus. Subsoil 2% very short, 18% short, 59% adequate, 21% surplus. Saturated field conditions hampered harvest efforts many eastern areas. Flaxseed 89% combined, 87% 1993, 95% avg.; corn for grain 19% harvested, 8% 1993, 44% avg.; corn for silage 89% cut, 97 1993, 99 avg.; dry edible beans 87% combined, 84% 1993, 94% avg.; soybeans 65% combined, 78% 1993, 91% avg.; sunflower 14% harvested, 5% 1993, 53% avg.; potato 96% dug, 99% 1993, 98% avg.; sugarbeets 75% lifted, 92% 1993, 92% avg. Range, pasture feed 84% of normal. Stockwater supplies mostly adequate.

**OHIO:** Highs reached the 70s over a good part of State. As a whole, highs averaged in the mid to upper 60s. Temperatures 1 to 4° above normal for a good part of State. Lows averaged in the upper 30s to 40s, within a few degrees of normal. Lowest temperatures, early in the week, were in the low 30s, fell below the freezing mark at several locations, mostly in the north. Base 50 growing degree day totals for the season stand in excess of 3000 over most of State, range from around 2900 in parts of the north to nearly 3500 in the south. Precipitation was sparse, particularly in the north where virtually no rain fell. Totals edged over 0.25 in. at some locations in the south.

Days suitable for fieldwork 6.2. Soil moisture 60% short, 38% adequate, 2% surplus. With another week of ideal conditions, farmers were busy harvesting corn, soybeans, planting wheat. Corn mature 89%, 96% 1993, 80% avg. Potato harvest 85% complete. Corn for silage harvest 87% complete. Hay 1% very poor, 5% poor, 41% fair, 43% good, 10% very good. Pasture feed 4% very poor, 17% poor, 39% fair, 34% good, 6% excellent.

**OKLAHOMA:** Temperatures 1.9° below normal Panhandle to 5.8° below normal south central. Precipitation 0.10 in. Panhandle district to 2.12 in. west central.

Days suitable for fieldwork 5.8. Topsoil 31% short, 69% adequate. Subsoil 34% short, 66% adequate. Soybeans 2% fair, 98% good; 80% mature, 78% 1993, 56% avg.; 60% harvested, 28% 1993, 21% avg. Peanuts 4% fair, 94% good, 2% excellent; 89% mature, 70% 1993, 85% avg.; 51% dug, 27% 1993, 30% avg.; 34% combined, NA 1993, NA avg. Cotton 5% poor, 59% fair, 26% good, 10% excellent; 96% open bolls, 86% 1993, 69% avg.; 48% harvested, 17% 1993, 9% avg. Pasture feed 90% normal. Feeder steers, heifers steady to \$1 per cwt. below last week.

**OREGON:** Temperatures 3° above to 3° below normal. Precipitation 0.10 to 0.50 in., statewide.

Soil moisture 82% short, 18% adequate. 1995 winter wheat crop 44% planted, 14% emerged. 1995 barley crop 17% planted. Growers awaiting moisture before planting. Western areas: Mint harvest continued, ryegrass seeding continued. Eastern areas: Small grain seeding continued, late alfalfa cuttings continued, potato, onion harvest continued. Sugarbeets harvest 40% complete Klamath Basin good yields, excellent sugar percent, underway Malheur County. Willamette Valley: Fresh, process market vegetable harvest continued, pumpkin, squash harvest full swing, berry fields being fertilized, limed, pruned, tied, apples harvest winding down, hazelnut harvest winding down, walnut harvest continued. Southern coast: Cranberry harvest continued, sprinkling frost prevention. Pear harvest complete Rogue, Hood River Valleys. Apple harvest winding, Hood River Valley. Livestock good. Rangeland, forest land continued extremely dry. Eastern sections substantial frosts, light snow. Most livestock off eastern summer grazing allotments. Supplemental feeding, water hauling continued statewide. Range, pasture feed 57% of normal.

**PENNSYLVANIA:** Cool dry week. Temperature 53°, 2° below normal. Extremes 21°; 79°. Precipitation 0.12 in., 0.56 in. below normal. Days suitable for fieldwork 6. Soil moisture 7% short, 88% adequate, 5% surplus. Ensilage corn harvested 80% complete, 85% 1993. Soybean harvest 22% complete, 20% 1993. Potato harvest 84% complete, 85% 1993. Fall plowing 80% complete, 77% 1993. Wheat planted 68% complete, 72% 1993. Barley planted 86% complete, 86% 1993. Third cutting alfalfa 98% complete, 98% 1993. Fourth cutting

alfalfa 69% complete, 69% 1993. Quality of hay made 8% poor, 47% fair, 45% good. Feed from pastures good to excellent. Apple harvest 78% complete, 76% 1993. Grapes harvest 72% complete, 87% 1993. Activities: Making hay; harvesting potatoes, soybeans, corn grain, corn silage; plowing; planting winter small grains; cleaning, repairing equipment; fixing fences; hauling manure; caring for livestock.

**PUERTO RICO:** Rainfall 1.89 in. was 0.06 in. above normal. Highest total rainfall 7.70 in. at Maricao, 6.22 in. at Corozal Aes, 4.43 in. at Rio Blanco. Island temperatures 79 to 80° on the Coasts, 75 to 76° Interior with mean station temperature 82.5° at Roosevelt Roads to 68.5° at Maricao. Extremes 57°; 93°.

**SOUTH CAROLINA:** Rainfall 3.60 in.; temperatures 2° below normal in the Upstate, 4° below normal across eastern sections.

Days suitable for fieldwork 2.5. Soil moisture 68% adequate, 32% surplus. Tobacco 94% stalks destroyed, 86% 1993, 85% avg. Corn fair to good; 95% harvested, 98% 1993, 96% avg. Cotton 44% fair, 56% good; 87% open bolls, 100% 1993, 96% avg.; 23% harvested, 46% 1993, 34% avg. Soybeans 30% fair, 65% good, 5% excellent; 64% leaves turning, 74% 1993, 76% avg.; 35% dropping leaves, 38% 1993, 39% avg.; 18% mature, 19% 1993, 23% avg.; apples good; 86% harvested, 84% 1993, 89% avg. Barley 13% planted, 21% 1993, 15% avg.; 8% emerged, 6% 1993, 8% avg. Oats 15% planted, 30% 1993, 22% avg.; 8% emerged, 14% 1993, 11% avg. Peanuts 59% harvested, 51% 1993, 57% avg. Rye 23% planted, 37% 1993, 29% avg. Rye 15% emerged, 23% 1993, 17% avg. Sweet potatoes 40% harvested, 51% 1993, 58% avg. Winter wheat 4% planted, 7% 1993, 4% avg.; 3% emerged, 3% 1993, 2% avg. Sorghum fair to good; 52% harvested, 60% 1993, 62% avg. Fall hay good; 83% harvested, 76% 1993, 82% avg. Pasture feed 3% poor, 28% fair, 58% good, 11% excellent.

**SOUTH DAKOTA:** Warm, mostly dry early, rainfall late. Temperatures 2 to 9° above normal. Extremes 29°; 84°. Widespread precipitation, heaviest 1.71 in., southwest.

Days suitable for fieldwork 5.3. Topsoil 4% very short, 21% short, 71% adequate, 4% surplus. Subsoil 10% very short, 32% short, 51% adequate, 7% surplus. Sunflower 2% fair, 72% good, 26% excellent; 50% harvested, 25% 1993, 58% avg. Livestock 3% fair, 77% good, 20% excellent. Feed supply 1% very short, 6% short, 80% adequate, 13% surplus. Pasture feed 77% of normal. Stockwater supply 1% very short, 6% short, 84% adequate, 9% surplus. Ranchers sold calves, moved cattle to fall pastures.

**TENNESSEE:** It was a cloudy, wet week over much of State as a frontal system stayed south, gradually moved out into the Atlantic. Most locations had above normal rainfall. Temperatures between 2 to 4° below normal. Bristol dropped down to 38° on 11th, also joined Crossville, Jackson as the warm spots. All three cities reached 77° on 15th.

Days suitable for fieldwork 3.2. Soil moisture 7% short, 69% adequate, 24% surplus. Corn 75% grain harvest, 78% 1993, 74% avg.; Cotton 48% harvested, 56% 1993, 49% avg. Burley 23% stripped, 18% 1993, 22% avg.; sorghum 94% grain harvest, 93% 1993, 78% avg.; soybeans 85% shedding, 87% 1993, 79% avg.; 54% mature, 57% 1993, 47% avg.; 17% harvested, 17% 1993, 15% avg.; 10% fair, 90% good. Wheat 25% seeded, 27% 1993, 27% avg.; cattle 5% fair, 90% good, 5% excellent.

**TEXAS:** An upper level low pressure system over northeast Texas provided some rainfall for areas of East Texas, the Upper Coast. As the upper level system began to develop over the rockies, abundant moisture began to feed into the State. This moisture source was associated with the remnants of Pacific Hurricane Rosa. Showers, thunderstorms began to develop statewide 14th, lasted through the weekend, as the upper level low pressure system over the Rockies continued to develop, slowly move eastward. An area of upper level instability combined with moisture from Rosa allowed for heavy rainfall throughout much of East Texas. Three stations recorded over 10.00 in. rain (Lufkin 11.18 in., Lake Livingston 10.45 in., College Station 14.98 in.) despite all this rainfall, only four districts experienced above normal rainfall. These divisions were the East, Edwards Plateau, South Central, Upper Coast. Departures +0.10 in. Edwards Plateau region to +5.71 in. East Texas district. Below average departures ranged from -0.03 in. the Low Rolling Plains to -0.63 in. the Lower Valley. All districts recorded below normal temperatures. Temperatures 60° High, Low Rolling Plains to 72° Lower Valley. Departures normal -2° in the High Plains to -7° in the Low Rolling Plains. Soil temperatures 55° at Lufkin to 75° at Uvalde. Highest maximum soil temperature was 82° at Uvalde, while lowest minimum soil temperature was 46° at Bushland.

**Crops:** Corn harvest made good progress in the Plains. Yields remained good to excellent. Cotton: cool nights, early morning dews caused

minimal delays to cotton harvest throughout the Plains. Harvest made good progress, with better than expected yields reported in some areas, and defoliation remained active. Stalk destruction, other field activities occurred in the Blacklands. Cotton 64% normal 74% 1993. Peanut harvest continued at a fast pace. Early morning dews caused some delays in the Plains. Peanuts 79% normal, 69% 1993; 25% harvested, 22% 1993. Rice harvest was completed along the Upper Coast as several late fields were harvested. Sorghum: fair weather conditions allowed producers in the Plains to make good progress with sorghum harvest activities. Sorghum 67% normal, 80% 1993; 99% turning color, 100% 1993. Soybeans: wet fields at beginning of week caused minimal delays to soybean harvest. Across the State, harvest progressed rapidly. 58% harvested, 67% 1993. Small grains: planting of winter wheat, oats continued. Winter wheat planting got underway in southern part, planting in Coastal Bend was delayed due to muddy fields. Most fields were emerging to good stands, benefitting from previous weeks rains. Additional rains that fell at weekend should aid in germination, allow planting to continue when fields dry. Producers were also busy fertilizing, scouting for army worms. Some problems with army worms were reported in Cross Timbers, Edwards Plateau. Wheat 68% normal, 68% 1993. Oats 50% planted, 43% 1993. Sugarbeets 8% harvested, 20% 1993. Sunflowers 44% harvested, 50% 1993.

**Commercial Vegetables:** Rio Grande Valley lettuce planting continued. Cucumber harvest was active. Citrus harvest pushed forward. San Antonio Winter Garden cucumber harvest continued. Watermelon development improved in most areas. Spinach, broccoli were making good progress. Trans Pecos spraying sweet potatoes for white fly continued in some areas. Chili, bell pepper harvest continued. East Texas harvest of sweet potatoes continued on limited basis, with good yields being reported. Peppers were being harvested. Fall vegetable planting preparations continued. High Plains pepper, carrot harvest remained active. Pumpkin harvest was virtually completed. Pecans harvest on most early developing varieties continued with fair yields reported. Harvest was slowed due to wet conditions in South Central Texas. Later developing varieties continued to make good progress. Pecans 10% harvested, 12% 1993.

**Range and Livestock:** Range, pastures were greening up following the previous week's rains, however, most forage remained short and minimal growth occurred due to cool temperatures. Hay harvest continued to decrease. Supplemental feeding continued, livestock remained in fair to good condition.

**UTAH:** Temperature maximums average, minimums averaged 3° above normal. Precipitation was moderate to heavy in the western, Dixie, south central divisions; light precipitation for the rest of the State.

Days suitable for fieldwork 5.2. Soil moisture 18% short, 76% adequate, 6% surplus. Winter wheat planted 1995 crop 85%, 94% 1993; emerged 1995 crop 48%, 82% 1993, 63% avg. Corn matured 90%, 79% 1993; harvested for silage 90% completed, 87% 1993; harvested for grain 44% completed, 15% 1993, 38% avg. Alfalfa 4th cutting 86%, 72% 1993, 83% avg.; harvested for seed 91%. Apples harvested 70%, 49% 1993, 74% avg. Onions harvested 92%, 81% 1993. Potatoes harvested 80%, 70% 1993, 83% avg. Dry beans harvested 55%. Cattle moved from summer range 92%, 80% 1993, 78% avg. Sheep moved from summer range 89%, 87% 1993. Pasture, range feed poor to fair. Major farm activities: Fall tillage, planting winter wheat, harvesting remaining crops, moving cattle, sheep from summer pastures.

**VIRGINIA:** Temperatures below normal. Extremes 33°; 88°. Precipitation below normal.

Days suitable for fieldwork 6. Topsoil 20% very short, 47% short, 27% adequate, 6% surplus. Pasture feed 17% poor, 50% fair, 29% good, 3% excellent. Livestock 10% fair, 87% good, 3% excellent. Corn for grain harvest 73%, 74% 1993, 72% avg. Corn for silage harvested 95%, 96% 1993, 95% avg. Soybean 63% fair, 38% good. Soybeans harvested 20%, 15% 1993, 13% avg. Peanuts dug 93%, 71% 1993, 82% avg. Peanuts combined 80%, 52% 1993, 65% avg. Cotton harvested 30%, 44% 1993, 24% avg. Flue tobacco harvested 99%, 98% 1993, 99% avg. Burley tobacco harvested 100%, 100% 1993, 100% avg. Fall apples harvested 90%, 86% 1993, NA avg. Winter apples harvested 75%, NA 1993, NA avg. Wheat seeded 22%, 19% 1993, 21% avg. Oats seeded 75%, 48% 1993, 60% avg. Barley seeded 55%, 52% 1993, 52% avg. Sweet potato harvest nearly 67% completed. Producers are finishing their last hay cut. Eventhough the dry weather proposes a slight

problem, farmers are able to seed their winter grains. Cotton defoliation, harvesting was on schedule with good yields reported.

**WASHINGTON:** Temperatures 7° below normal to 1° below normal west; 5° below normal to 3° above normal east. Precipitation 0.18 to 1.17 in. west; 0.18 to 0.76 in. east. Temperatures below normal across entire State with the exception of the northeast. Rain, snow received across the entire State.

Days suitable for fieldwork 6.2. Soil moisture 89% short, 11% adequate. Hay, other roughage supplies 1% very short, 10% short, 84% adequate, 5% surplus. Range, pasture feed 30% very poor, 53% poor, 10% fair, 7% good. Winter wheat, dryland 5% very poor, 39% poor, 30% fair, 26% good; irrigated, 12% fair, 29% good, 59% excellent. Potatoes 5% fair, 95% good. Dry edible beans 8% fair, 92% good. Corn 4% fair, 96% good. Winter wheat 84% planted, 94% 1993, 92% avg.; 55% emerged, 77% 1993, 74% avg. Potatoes 79% harvested, 77% 1993, 76% avg. Corn silage 95% harvested, 70% 1993, 85% avg. Corn grain 35% harvested, 11% 1993, 19% avg. Dry beans 98% harvested, 90% 1993, 90% avg. Alfalfa, third cutting, 100% completed, 100% 1993, 100% avg. Cooler temperature, rainfall helped stressed winter grains; winter wheat seeding completed in some areas. Hop harvest completed. Apple and grape harvests continued; Fuji, Granny Smith apples being picked across central areas. Cranberry harvest continued; yields reported as much better than 1993. Pumpkin harvest underway. Calf weaning and sheep breeding underway. Fire danger remained high.

**WEST VIRGINIA:** Temperature 52°. Extremes 25°; 78°. Precipitation 0.14 in.

Days suitable for fieldwork 6.3. Soil moisture 7% very short, 50% short, 43% adequate. Hay 20% fair, 80% good; second cutting 100%, 100% 1993, 98% avg.; third cutting 90%, 100% 1993, 89% avg. Apples 100% good. Corn 16% fair, 82% good, 2% excellent; mature 96%, 100% 1993, 93% avg.; harvested 55%, 60% 1993, 52% avg. Tobacco 29% fair, 71% good; harvested 100%, 100% 1993, 99% avg. Soybeans 10% fair, 90% good; dropping leaves 90%, 94% 1993; harvested 25%, 45% 1993, 19% avg. Wheat sown 44%, 21% 1993, 37% avg. Barley sown 55%, 88% 1993. Pasture feed 64% fair, 14% good, 22% excellent; 89% of normal. Cattle 30% fair, 70% good. Sheep 48% fair, 52% good. Farm activities: Cutting hay, sowing barley, wheat, harvesting corn, silage, soybeans, apples, clipping pastures, equipment maintenance.

**WISCONSIN:** Temperature 51°, 2° above normal. Extremes 16°; 78°. Precipitation trace to 0.80 in. Killing frost 10th, 11th.

Days suitable for fieldwork 6.2. Soil moisture 4% short, 83% adequate, 13% surplus. Pasture feed 84%, 82% 1993, 75% avg. General condition of crops: 1% poor, 1% fair, 76% good, 22% excellent. Corn mature 97%, 59% 1993, 76% avg. Corn harvested for grain 18%, 6% 1993, 19% avg. Corn silage harvested 79%, 68% 1993, 77% avg. Corn 51% good, 49% excellent. Soybean 4% fair, 70% good, 26% excellent. Soybeans leaves shedding 94%, N/A 1993, N/A avg. Soybeans harvested 30%, 48% 1993, 38% avg. Fall tillage 22%, 18% 1993, 21% avg. Frost hit most of the State early in the week. Warm temperatures that followed the frost was ideal for farmers to complete much needed fieldwork. Frost early in the week has helped dry corn considerably. Harvesting of corn for grain is picking up. Reports of corn as low as 19% moisture have come in during the past week. Corn taken for silage is all but finished. A few farmers noted yields were significantly diminished by white mold, lodging of plants. A lot of hay has been made over the past week. Farmers took advantage of the weather to get third, fourth crop hay off. The amount of fall tillage done jumped by seven points. This was a result of the warm weather drying out fields, allowing farmers to start plowing. Kidney bean harvest is 75% complete. The cranberry harvest is coming to an end with mixed reports on yield, color.

**WYOMING:** Temperatures normal to above normal except for a few isolated areas. Sundance averaged the warmest at 4° above normal while Powell averaged 4° below normal. Precipitation was below normal Statewide. Gillette received largest amounts of precipitation at 0.28 in.

Days suitable for fieldwork 4.5. Topsoil 2% short, 81% adequate, 17% surplus. Sugarbeets 46% harvested, 41% 1993, 52% avg.; 6% fair, 94% good. Corn 47% harvested, 33% 1993, 28% avg.; 34% good, 66% excellent. Winter wheat seedlings for 1995 95% emerged, 81% 1993, 89% avg. Cattle, calves moved from summer ranges 86%, 68% 1993. Sheep, lambs moved from summer ranges 86%, 68% 1993. Livestock feed now obtained from pastures, ranges 83%.

# International Weather and Crop Summary

## HIGHLIGHTS

October 9 - 15, 1994

**FSU-WESTERN:** Drought continued to hamper winter grain germination and establishment in eastern Ukraine and southern Russia.

**FSU-NEW LANDS:** Warm, dry weather helped late harvesting of spring grains.

**EUROPE:** Favorable harvest weather prevailed over most crop areas.

**SOUTH ASIA:** Scattered showers over the south and east benefited rice and other autumn-planted crops.

**SOUTHEAST ASIA:** Moderate to heavy rain over Indochina benefited secondary rice crops but slowed main-season harvesting.

**EASTERN ASIA:** Widespread rain benefited winter wheat establishment across the North China Plain, but slowed summer crop harvesting. Tropical Cyclone Seth brought heavy rains to South Korea, boosting reservoirs.

**AUSTRALIA:** Timely rain favored reproductive to filling wheat across the west, while dry weather prevailed elsewhere, aggravating the drought.

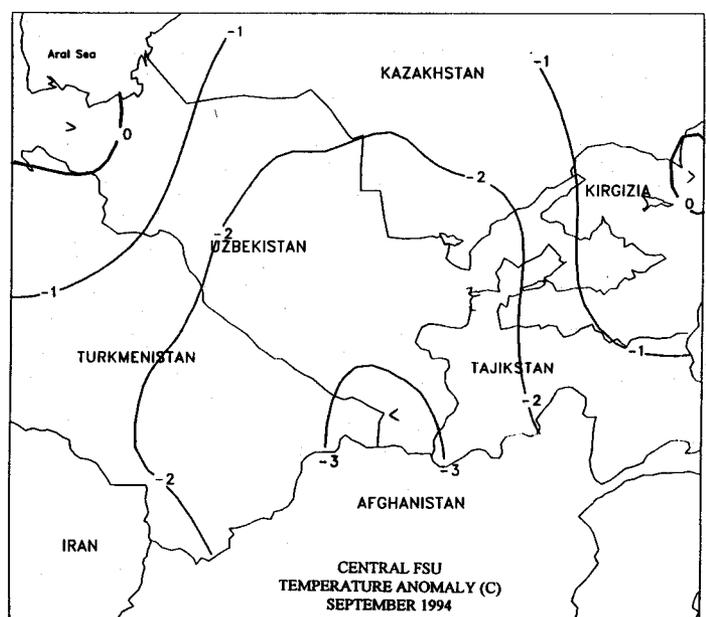
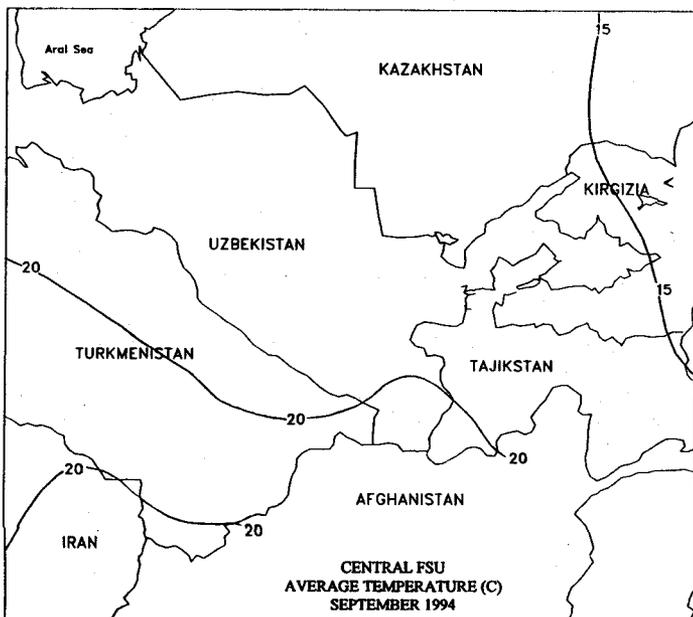
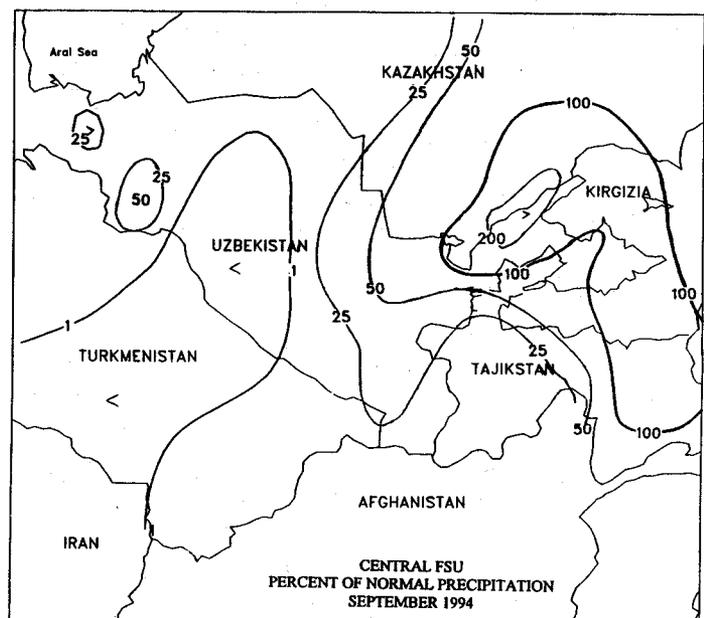
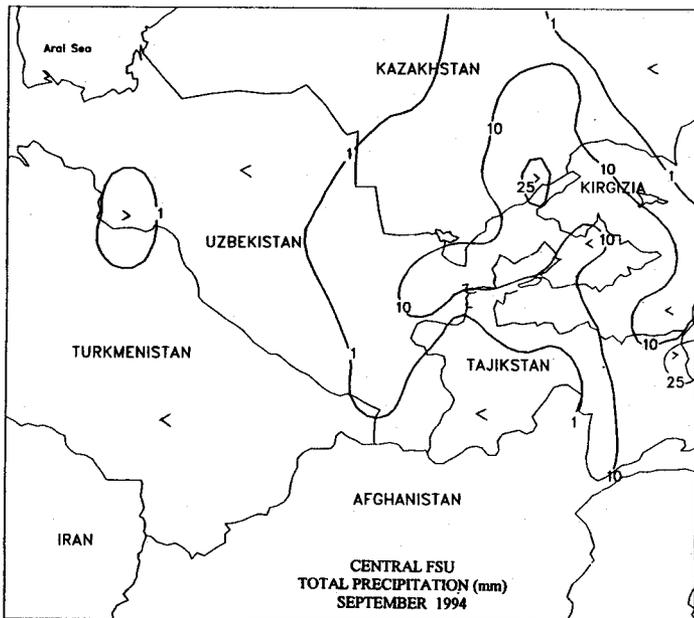
**MEXICO:** Tropical systems produced widespread showers across west-central Mexico, boosting reservoirs and favoring late-filling summer crops.

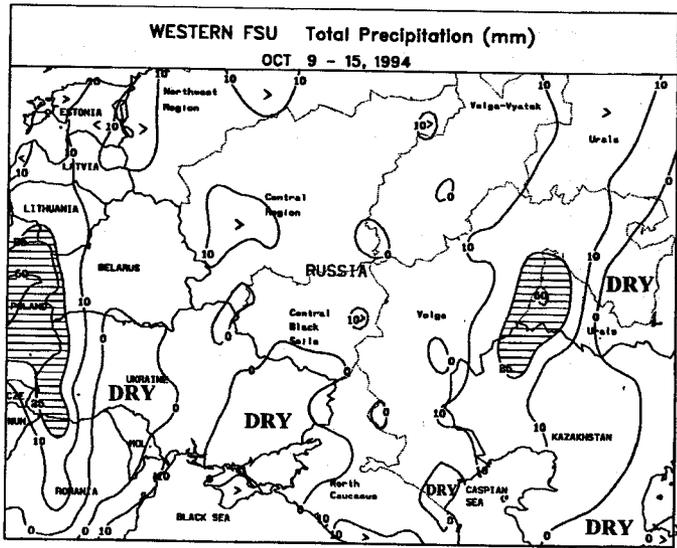
**CANADA:** Dry weather aided corn and soybean harvests.

**SOUTH AMERICA:** Rains continued to benefit winter wheat in Argentina and summer crop planting across southern Brazil.

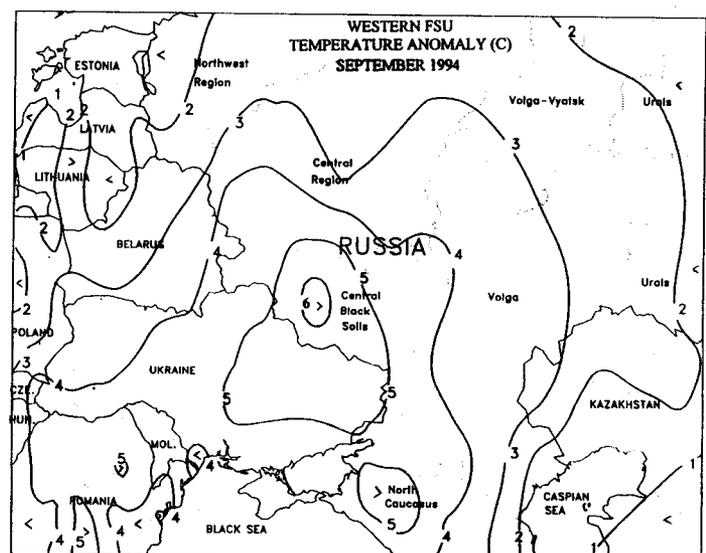
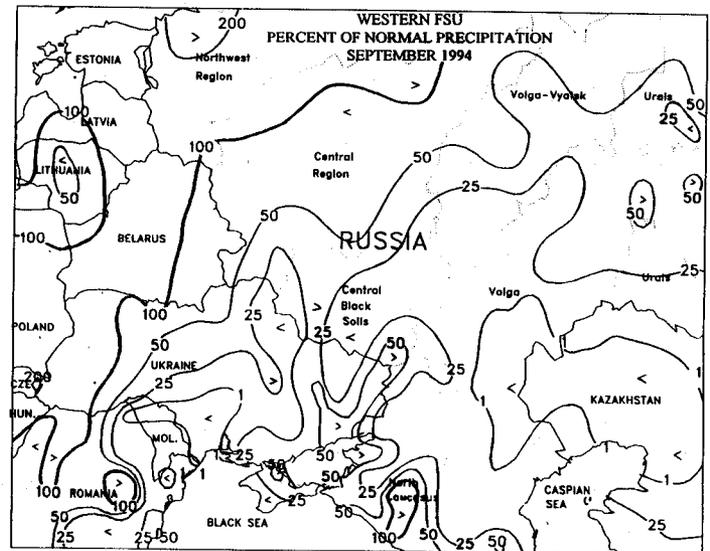
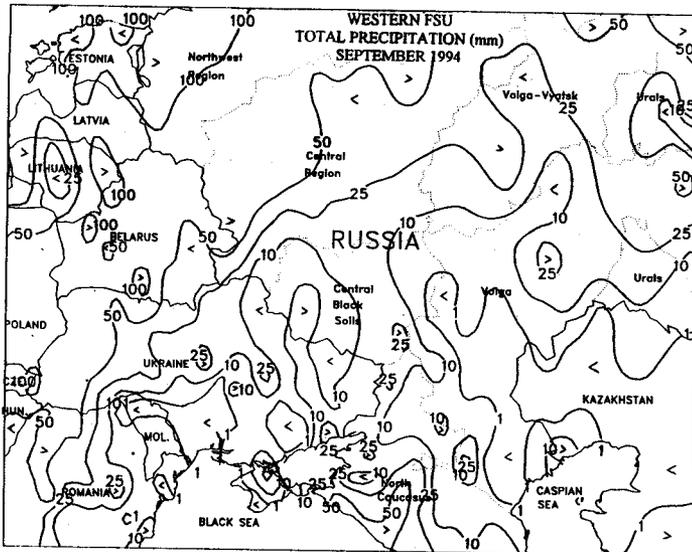
**SOUTH AFRICA:** Rain benefited eastern corn and sugarcane areas.

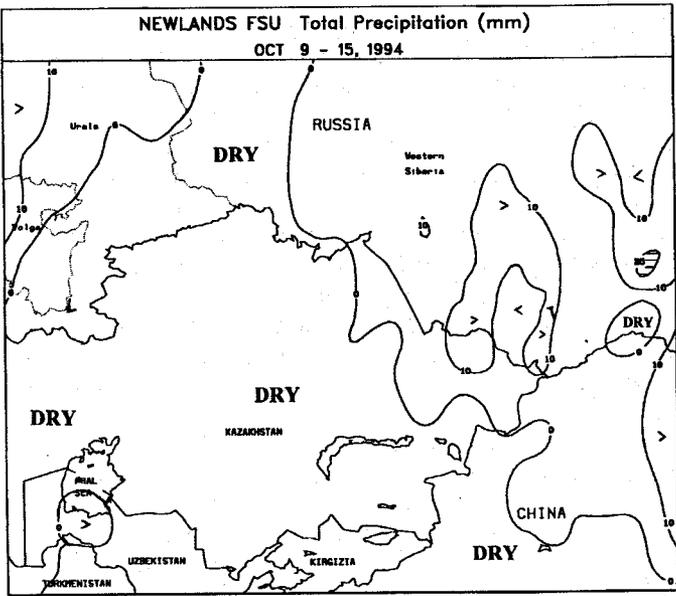
**NORTHWESTERN AFRICA:** Light showers prompted early-season fieldwork.



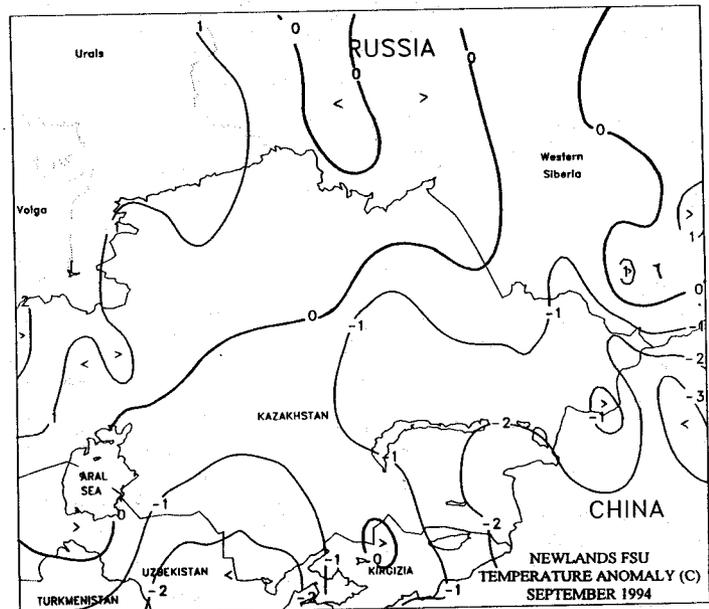
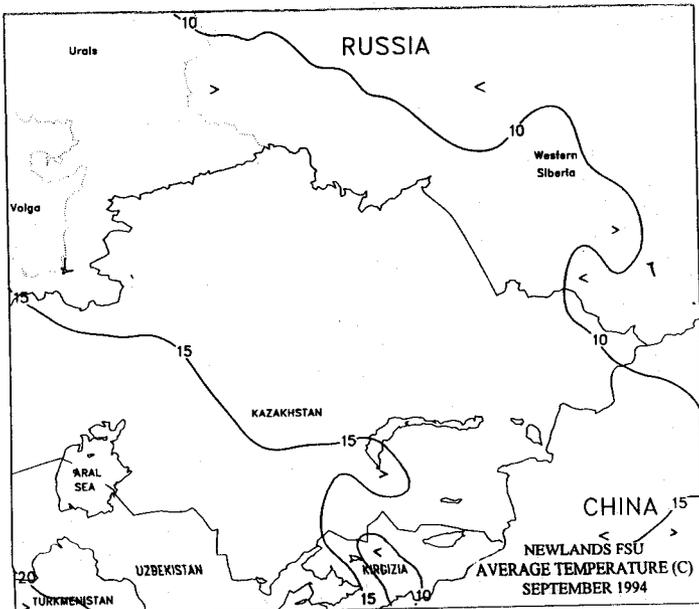
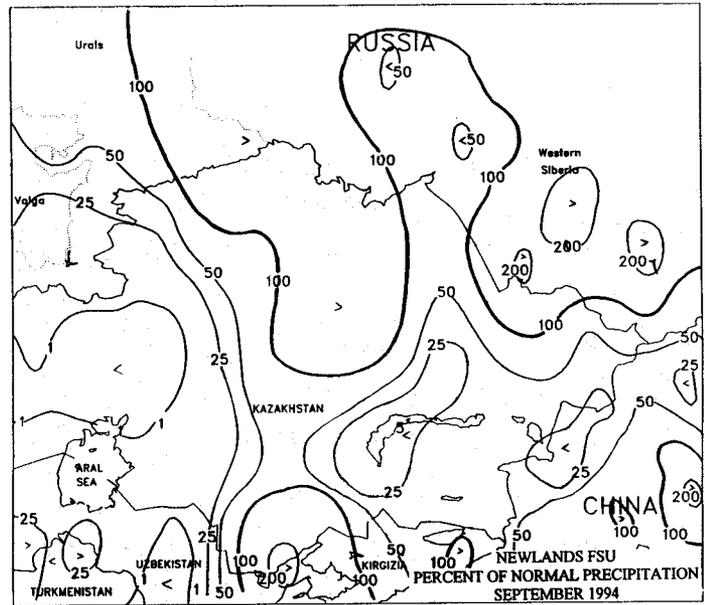
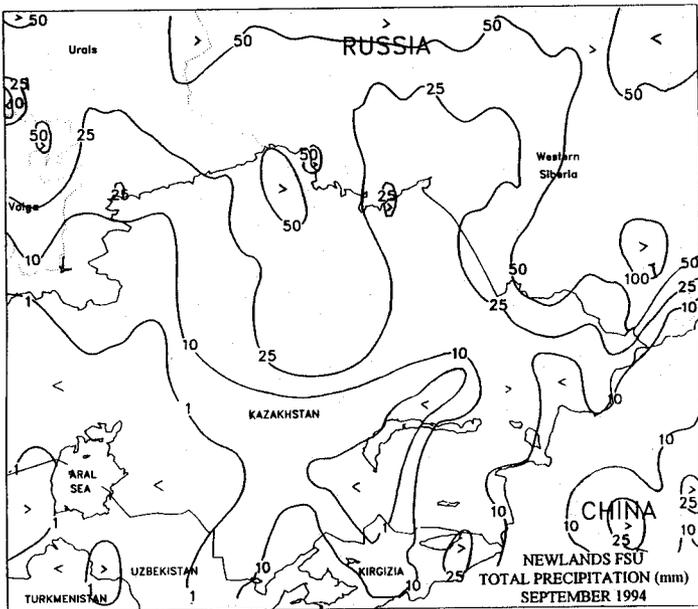


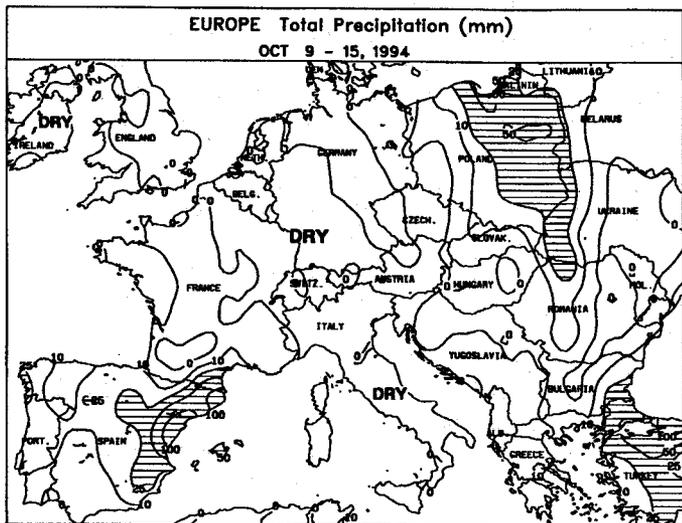
**FSU-WESTERN:** Little, if any, precipitation covered Russia, Ukraine, Belarus, Moldova, and the Baltic States, helping the corn, sunflower, sugarbeet, and potato harvests. Greatest amounts of rain (10-25 mm) were confined to extreme western crop areas in Lithuania, Belarus, and western Ukraine. Unrelenting drought continued over eastern Ukraine and southern Russia (North Caucasus, lower Volga Valley, and southeastern Black Soils Region), hampering winter wheat germination and establishment. Weekly average temperatures were 2-6 degrees Celsius (C) above normal in these areas, further depleting topsoil moisture. In September, well-below-normal precipitation over most of Russia and Ukraine favored early corn harvesting and allowed the spring grain harvest to reach completion by month's end. Drought intensified over major winter wheat growing areas of southern Russia and eastern Ukraine, and spread northward into the Central Black Soils Region of Russia. In addition, the warmest weather in at least the last 44 years further exacerbated the dry conditions. The drought likely delayed winter wheat planting beyond optimal dates as producers waited for rain. In the southwestern Ukraine and Moldova, unfavorably hot, dry weather followed significant rain in late August, reducing topsoil moisture for winter grain establishment. Elsewhere, above-normal precipitation and mild weather over the Baltic States, Belarus, and extreme western Ukraine provided favorable conditions for winter grain germination and establishment.



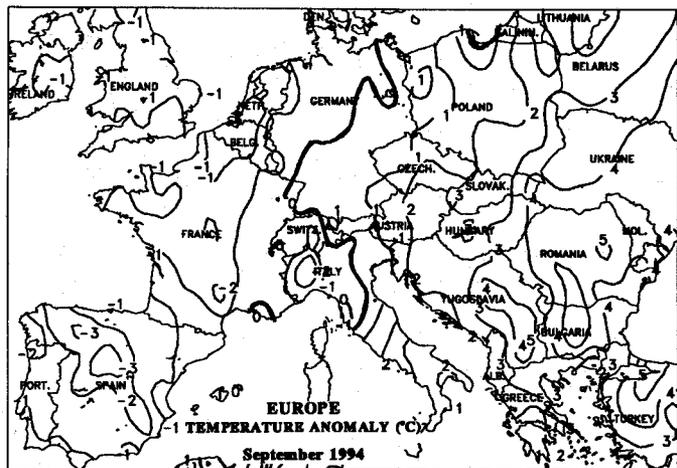
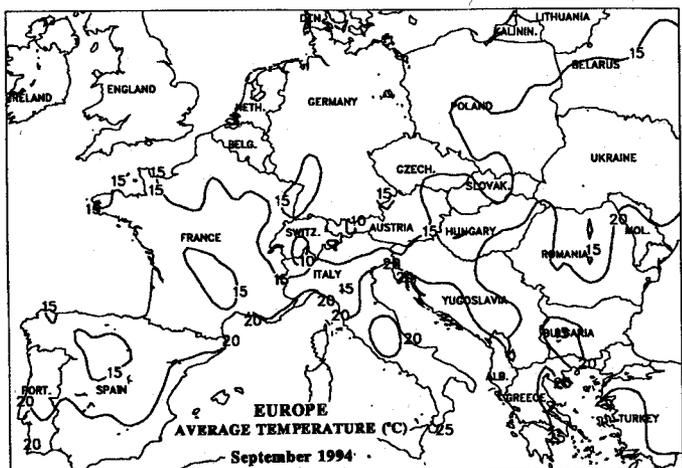
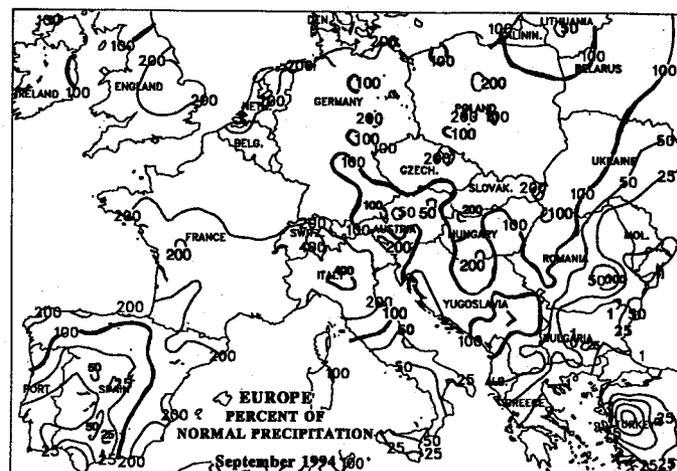
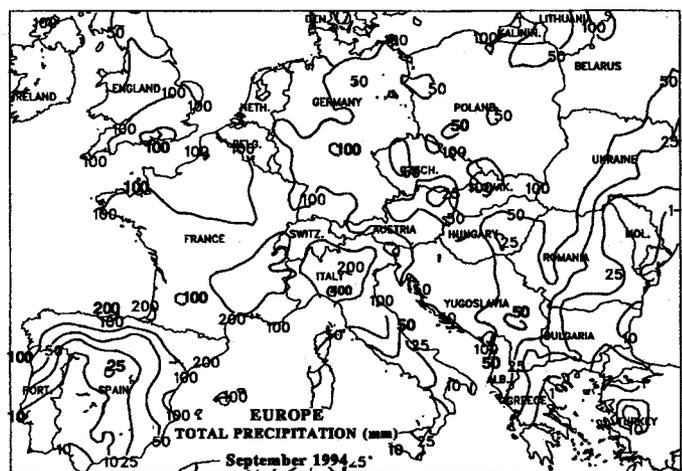


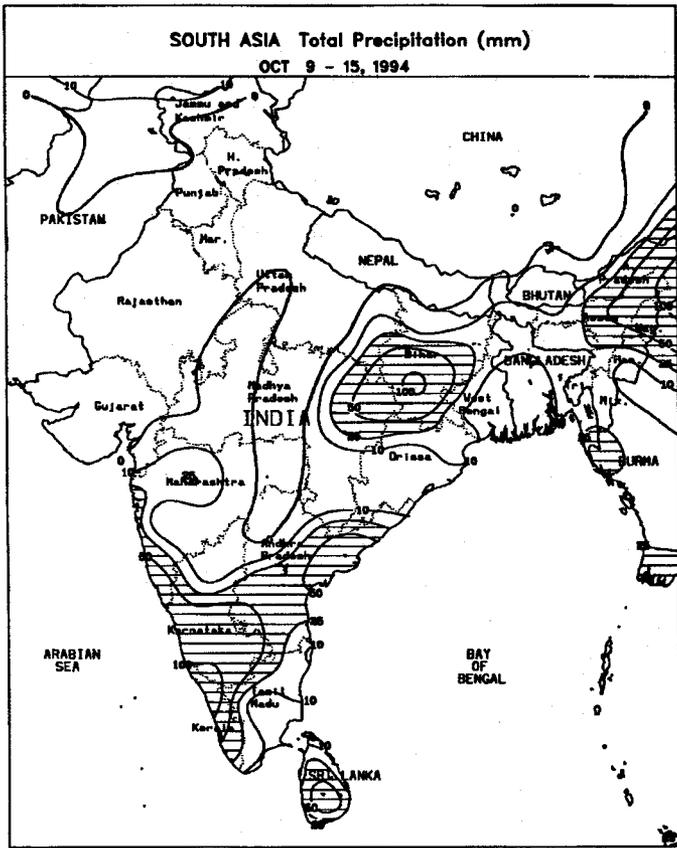
**FSU-NEW LANDS:** Unseasonably warm, dry weather covered most of Russia and Kazakhstan, helping late harvesting of spring grains. Weekly average temperatures were 1-7 degrees C above normal over the region. In September, wet weather over most of West and East Siberia and northern Kazakhstan caused significant harvest delays. In contrast, below-normal precipitation over the Urals region of Russia and eastern Kazakhstan favored rapid harvesting. In cotton growing areas in Central Asia, dry weather in September helped early cotton harvesting. Coverage of the New Lands will be suspended until next year's growing season.



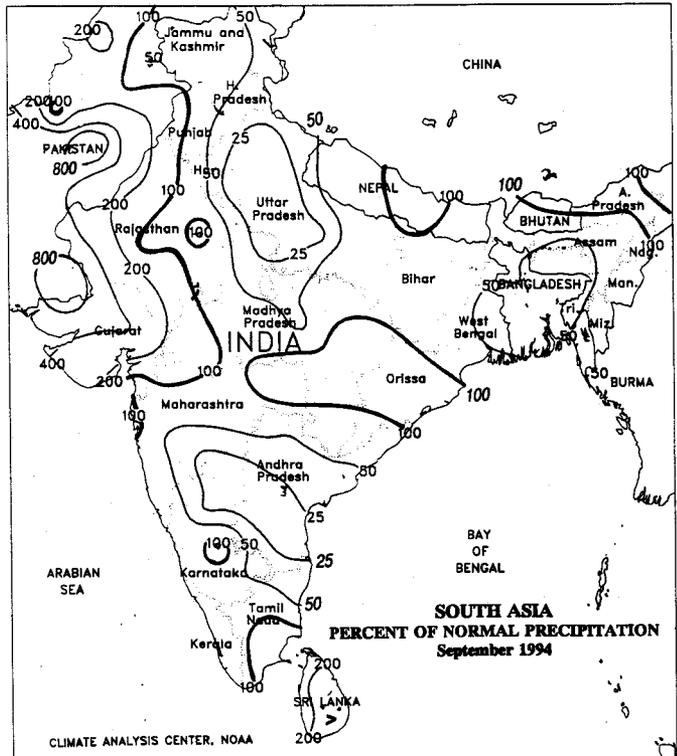
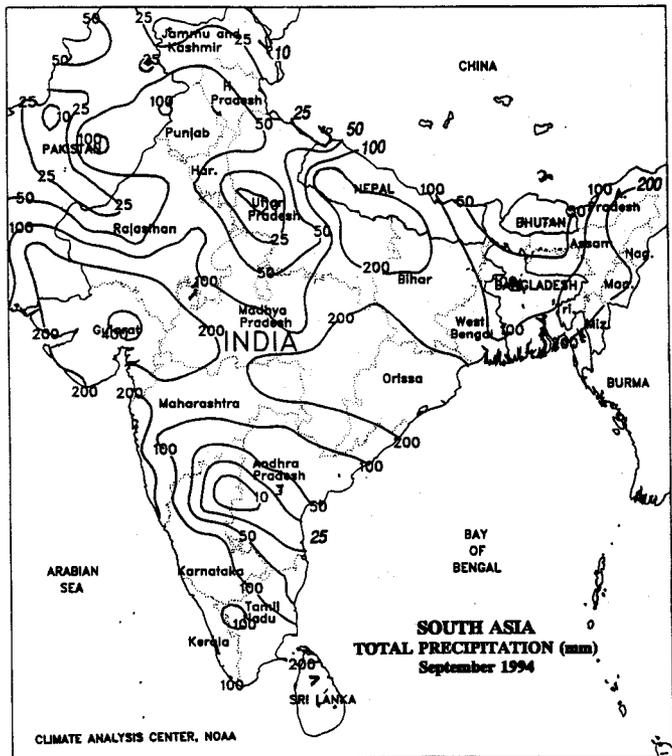


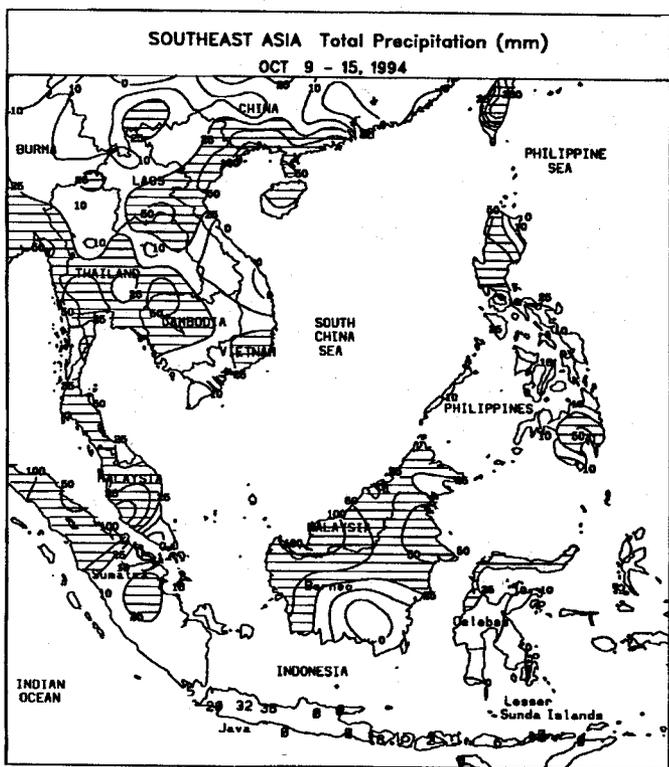
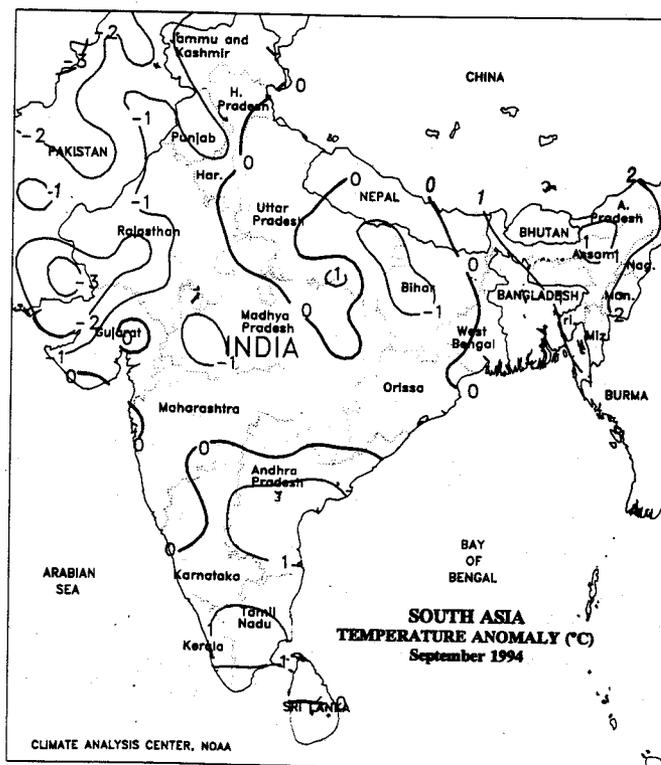
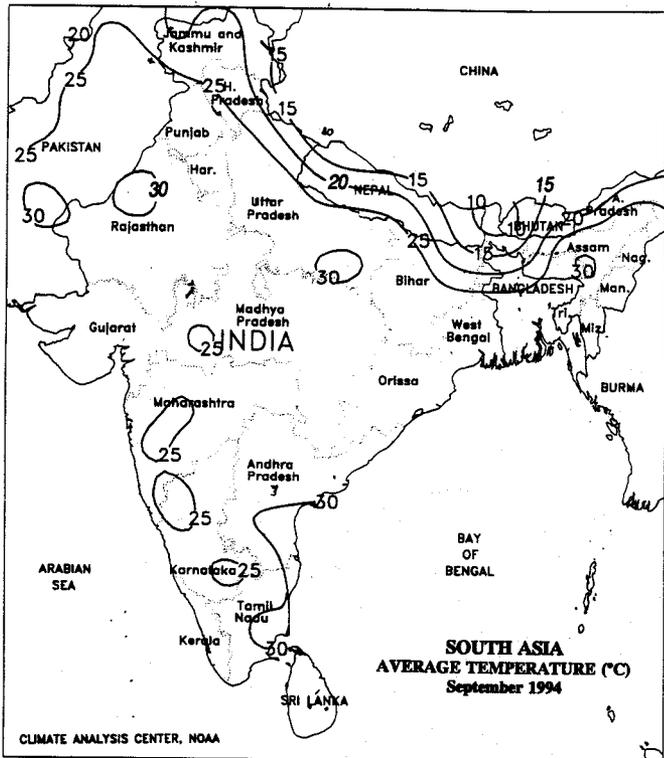
**EUROPE:** Favorable harvest weather prevailed across most of western and northern Europe. Corn, sunflowerseed, and sugarbeet harvesting advanced rapidly in France and Italy, where earlier wet weather impeded harvesting. In fact, September rainfall averaged over twice the normal monthly amounts in southern France and northern Italy. The above-average September rainfall pattern in eastern Spain persisted during this past week, with 25-100 mm or more of rain causing summer crop harvest delays. Variable, beneficial showers (5-22 mm) fell over much of the remainder of the Iberian peninsula. Dryness helped late harvesting and winter grain planting from the United Kingdom to Germany. Above-average September rain provided favorable topsoil moisture for winter crop emergence across northern Europe. Rain (20-61 mm) in eastern Poland this past week maintained favorable conditions for winter crop establishment. Crop harvesting advanced this week in southeastern Europe, where September rainfall was below average from Romania to Greece.



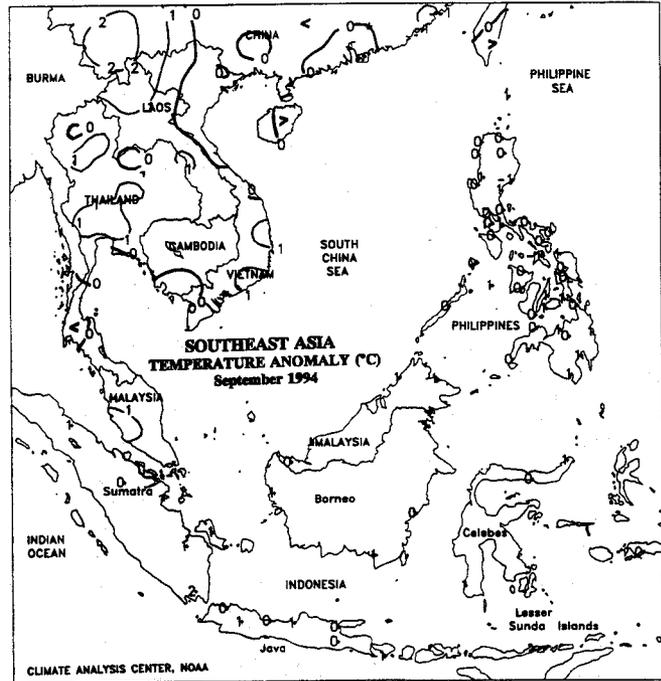
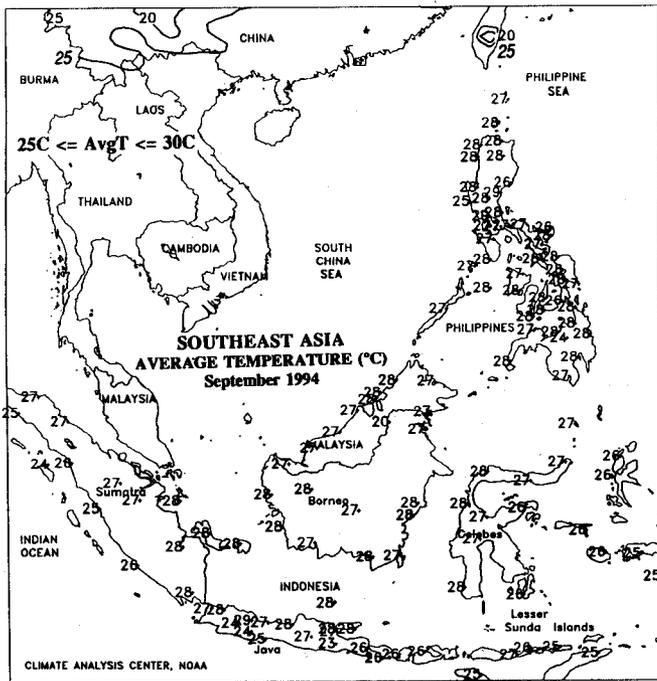
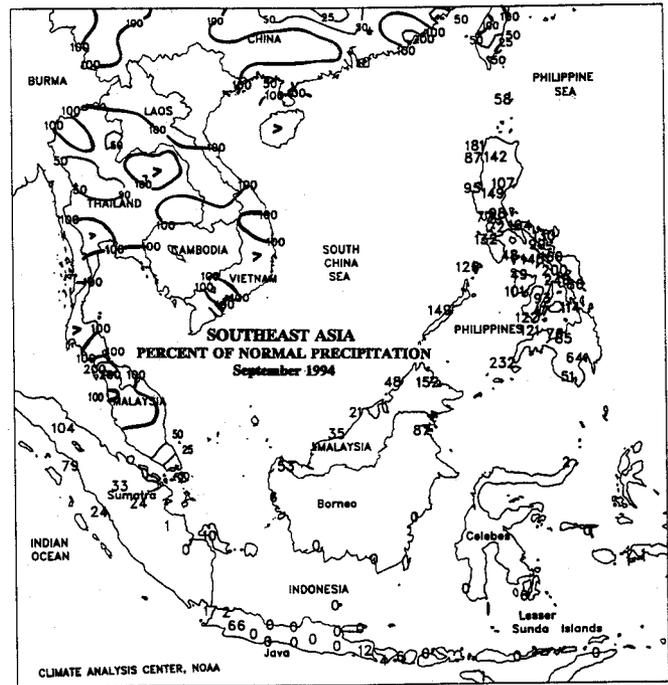
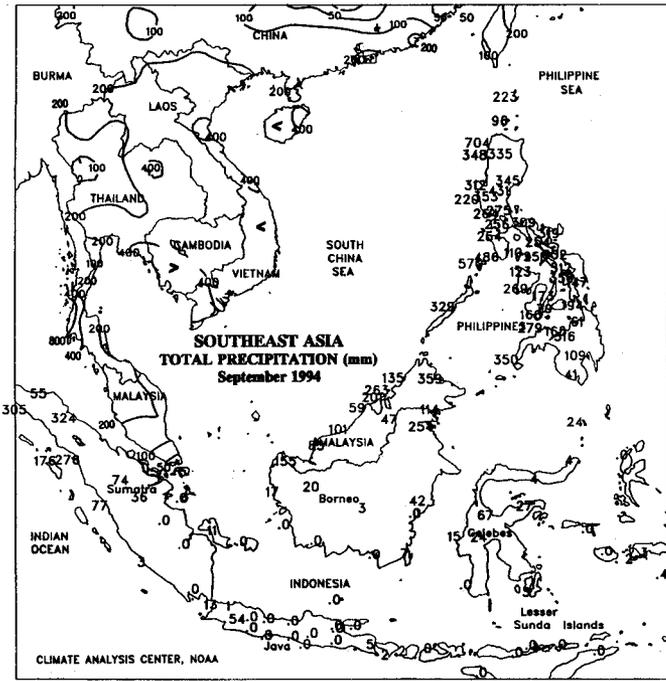


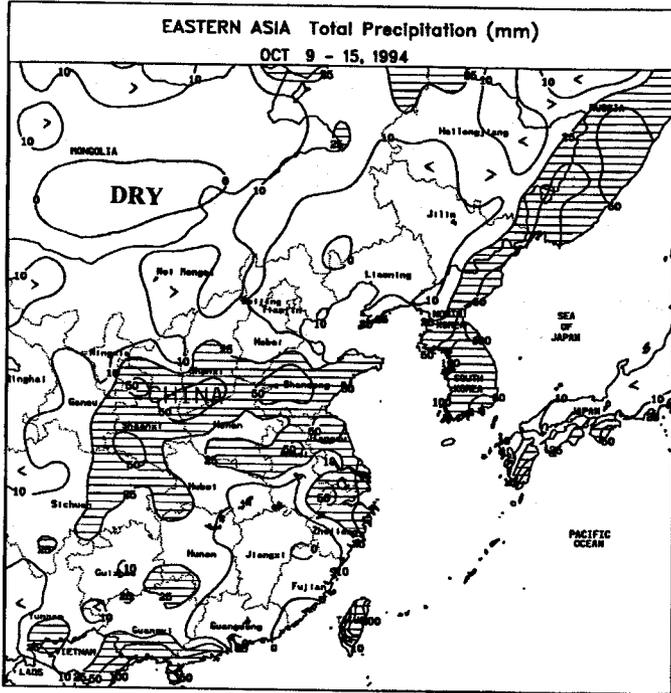
**SOUTH ASIA:** Scattered showers (10-22 mm or more, with a few interior locations reporting 50-100 mm) continued over southern and eastern India, benefiting rice and other rabi (autumn-planted) crops. Winter grain and oilseed planting likely picked up in central and northern areas, aided by seasonable dryness. In September, the southwest monsoon began its seasonable withdrawal about on schedule, although a final shot of heavy rain raised concerns for open-boll cotton in Pakistan and northern India. September rainfall was above normal across Pakistan and western India owing to the late surge of monsoonal rain. September temperatures were below normal in Pakistan and northwestern India. In southern India, the drying trend continued through September, reducing moisture for secondary crops. However, by month's end, rain was falling in southern and eastern rice areas, and seasonably dry weather, beneficial for summer crop harvesting and winter plantings, had developed elsewhere.



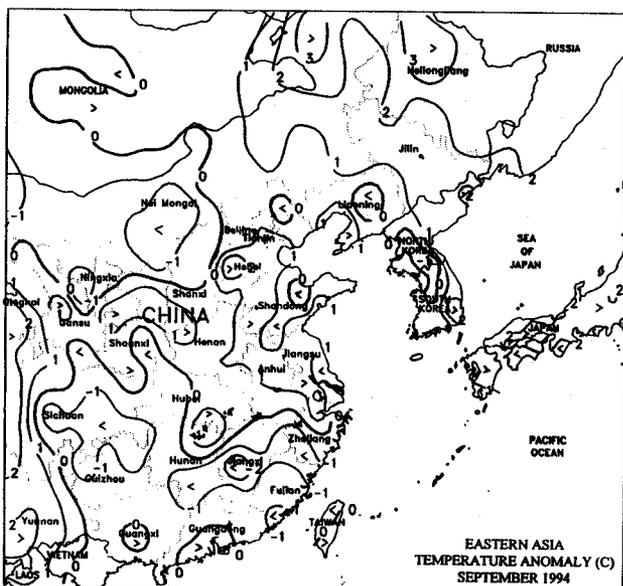
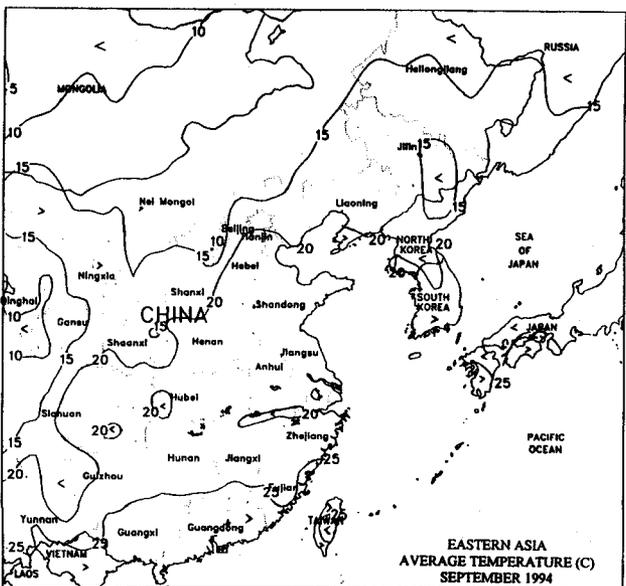
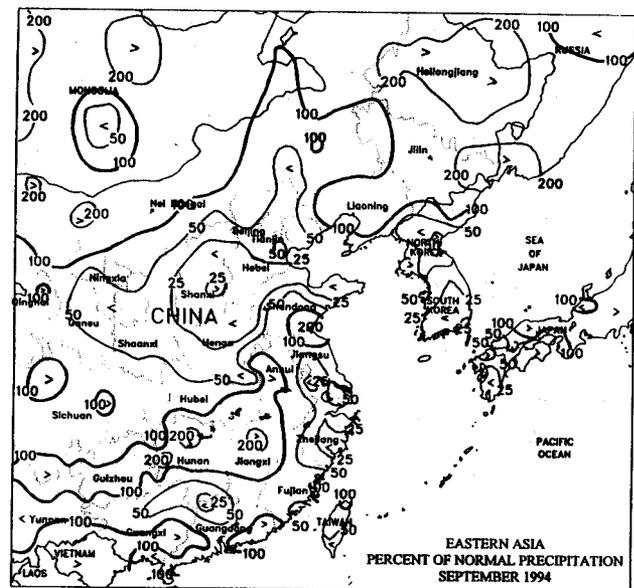
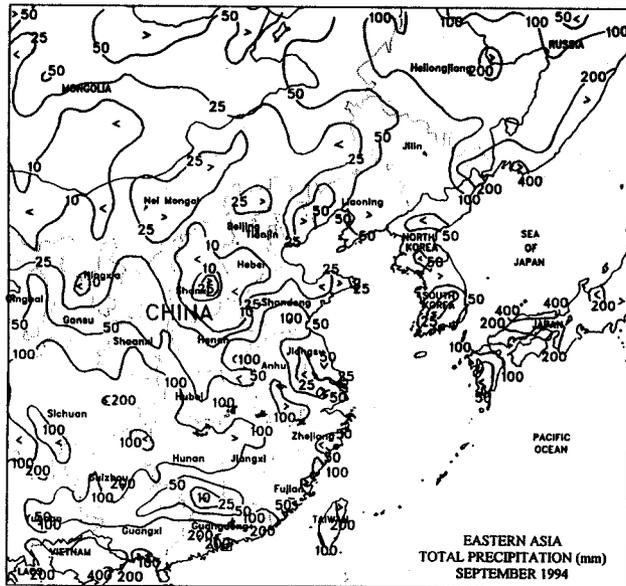


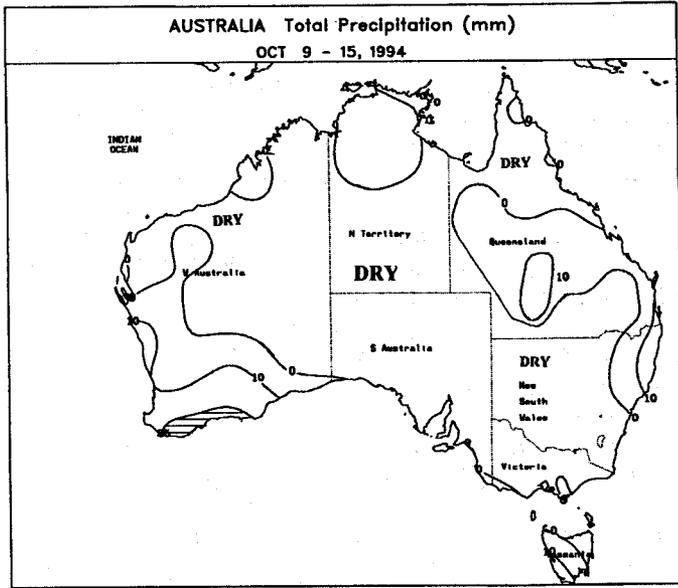
**SOUTHEAST ASIA:** Widespread showers (25-50 mm or more, with local totals exceeding 100 mm) over Indochina boosted irrigation reserves for dry-season crops but slowed main-season harvesting. However, heavy rain (50-126 mm) was again concentrated in northern Vietnam and Thailand (near Bangkok), maintaining unfavorably wet conditions. Farther south, locally heavy rain (50-173 mm) covered Malaysia. In Java, this season's first rains (5-38 mm) fell, aiding rice pre-planting activities. In the Philippines, heavy rain (50-117 mm) benefited Luzon's rice and sugarcane. In September, most locations in Indochina received generally beneficial rainfall for second-season crops. However, above-normal rainfall in Vietnam, due mainly to late-season tropical storm activity, caused some flooding and hampered rice harvesting. September rainfall was also below-normal over most of Malaysia and Indonesia. Due to a prolonged drought, Java's rice planting will be delayed until the rainy season commences. In the Philippines, near- to above-normal rainfall increased moisture for plantation crops and newly planted grains.



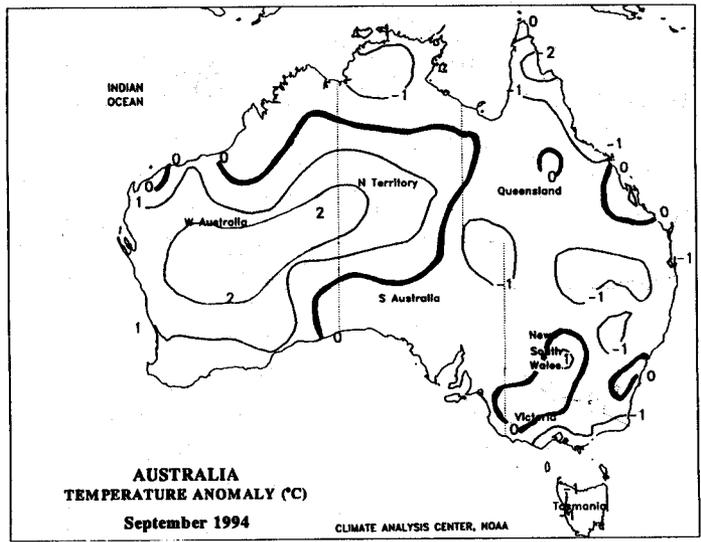
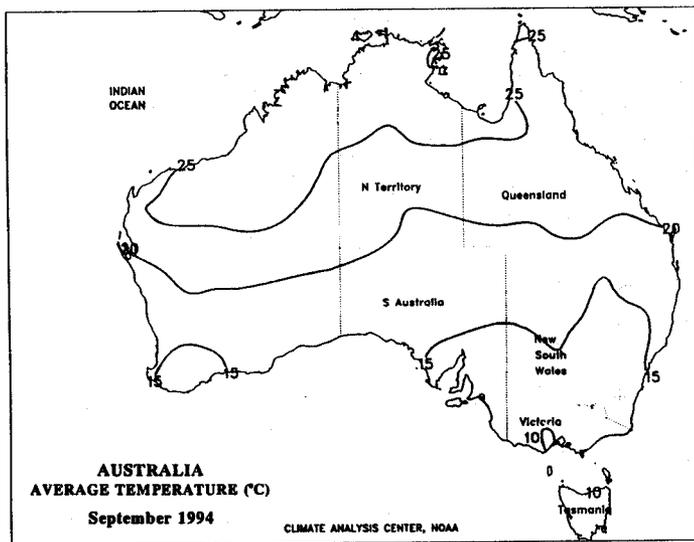
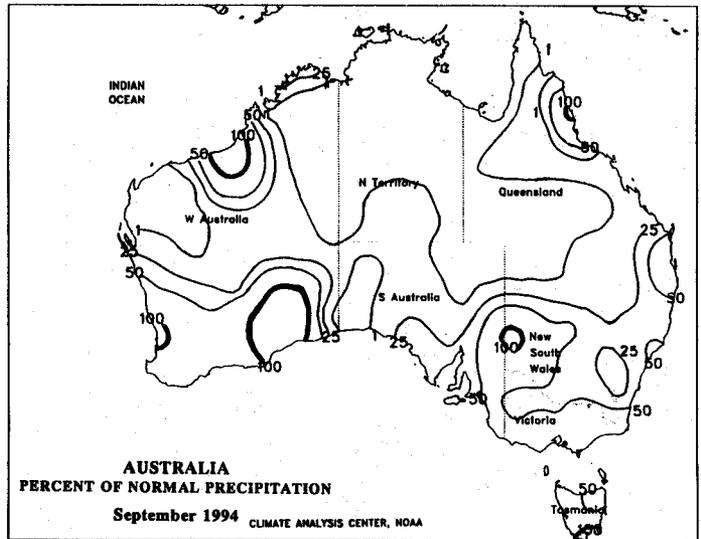
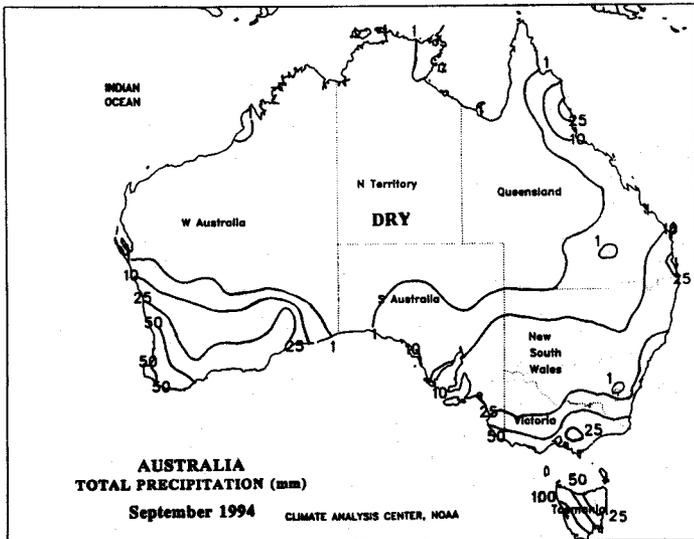


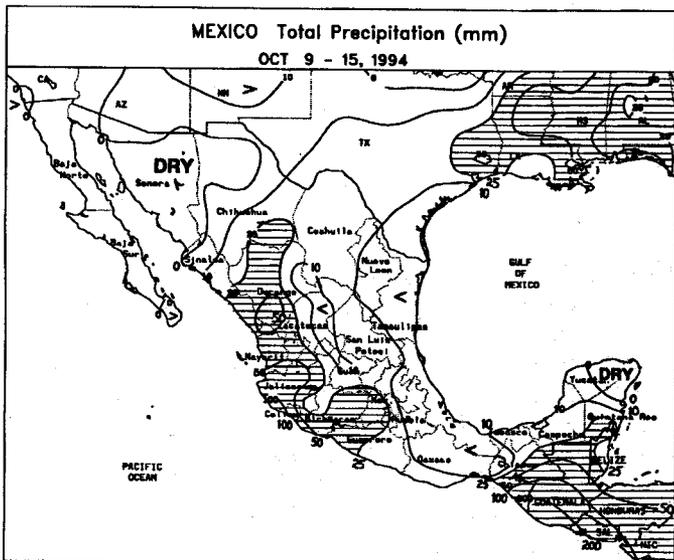
**EASTERN ASIA:** Widespread rain (15-50 mm) fell across the North China Plain and central China (Sichuan and Hubei), boosting topsoil moisture for wheat planting and establishment. However, the rain slowed summer crop harvesting. Mostly dry weather favored summer crop maturation and harvesting in Manchuria and southern China. Heavy rain (50-100 mm) fell across coastal Guangxi and Guangdong, causing local flooding. Tropical Cyclone Seth hit southern South Korea on October 11, with sustained winds of 45-50 knots (52-58 mph), producing widespread rain (50-120 mm). The rain slowed rice harvesting, but replenished reservoir levels after this year's dry summer. Weekly temperatures averaged 2-4 degrees C above normal across most of eastern China. During September, below-normal rainfall across the North China Plain allowed summer crop harvesting and winter wheat planting to progress. Near- to above-normal rainfall favored filling summer crops across Manchuria and slowed rice harvesting along the Yangtze Valley. Below-normal September rainfall aided rice harvesting in South Korea, while near- to above-normal rainfall slowed rice harvesting in central and northern Japan.



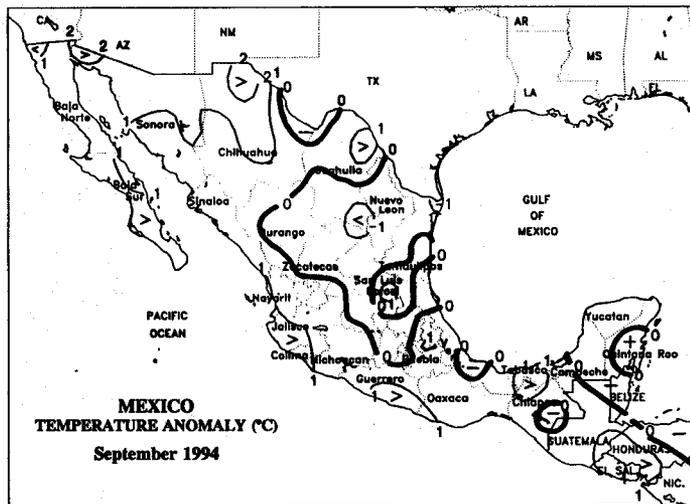
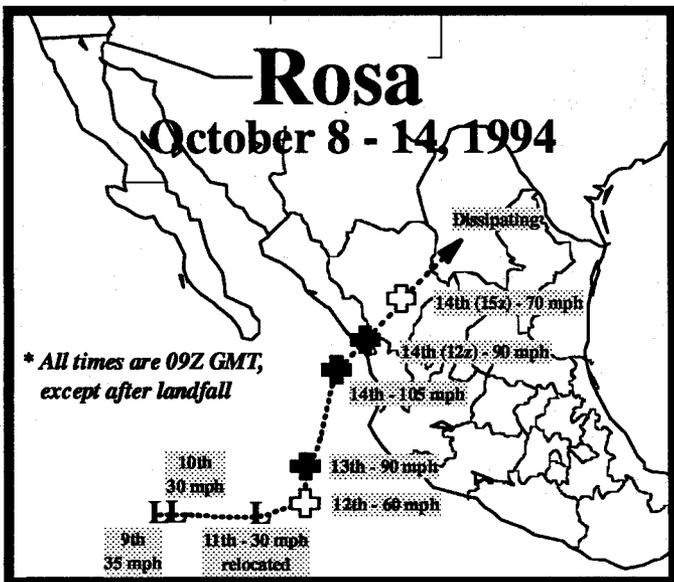
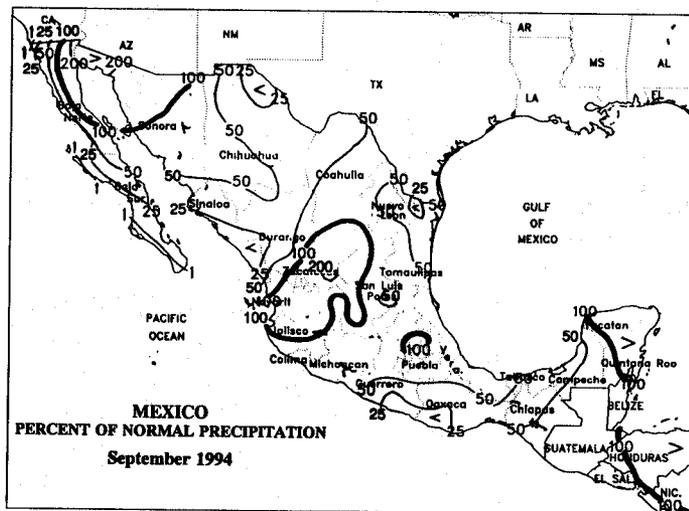
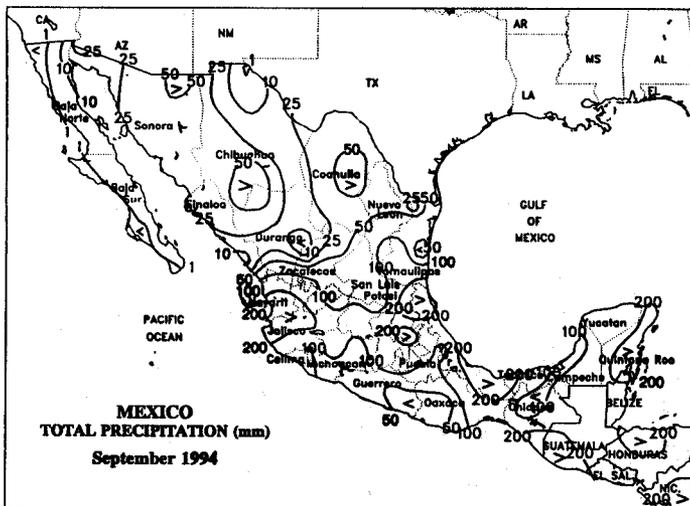


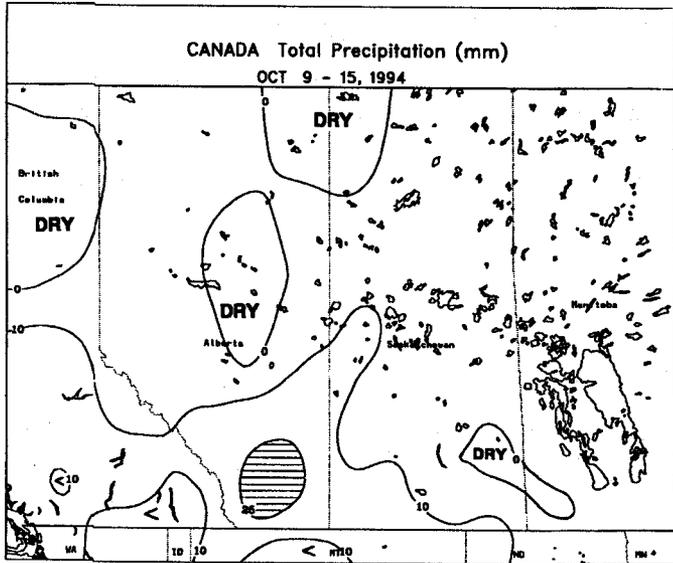
**AUSTRALIA:** Timely rain (8-20 mm) fell across the central and southern crop areas of Western Australia, favoring reproductive to filling winter wheat. Dry weather prevailed across the remaining wheat areas of the country, aggravating drought conditions and stressing reproductive to filling winter wheat. Weekly temperatures averaged near normal in the west and east, and 2-4 degrees C above normal in the south. September rainfall averaged near normal in the west. Below-normal (10 to 50 percent of normal) rainfall stressed reproductive wheat and pastures across the southern and eastern crop areas. Monthly temperatures averaged slightly above normal in the west, 1-2 degrees above normal in the east, and near normal in the south.



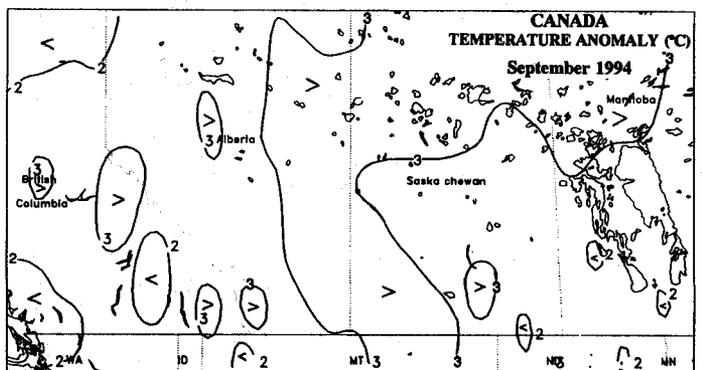
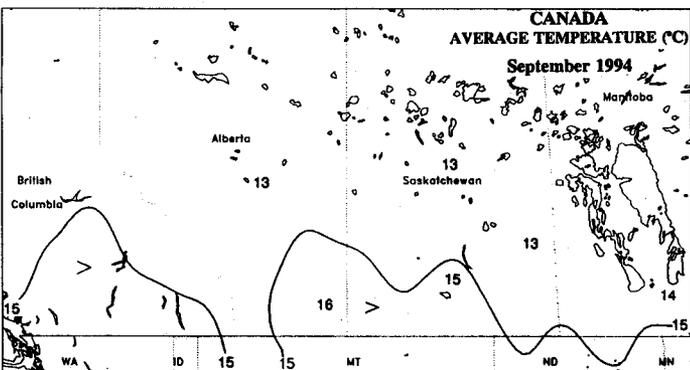
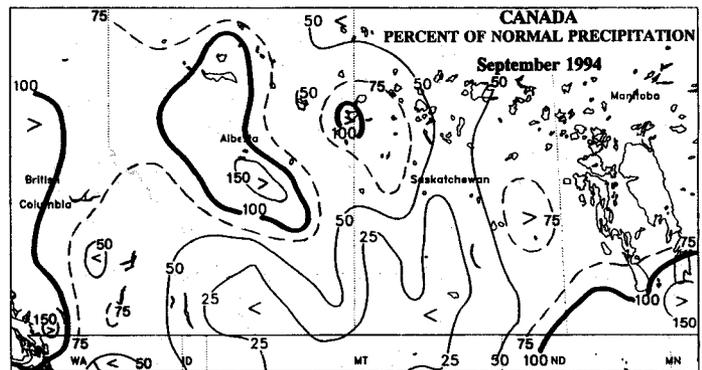
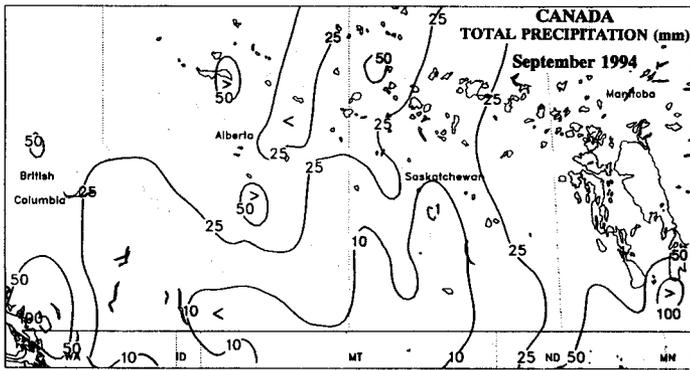


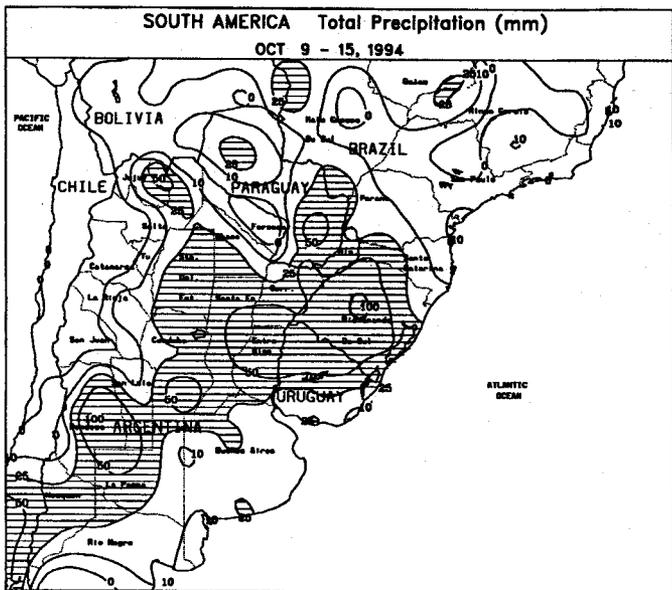
**MEXICO:** Hurricane Rosa hit western Mexico (south of Mazatlan, Sinaloa) on October 14, with sustained winds of 80-90 knots (92-105 mph), producing moderate to heavy showers (20-100 mm). The storm caused some flooding but boosted reservoir levels in west-central Mexico. The remnants of the storm missed the vegetable areas of northern Sinaloa. Strong tropical activity produced widespread showers (20-70 mm) across the central and western corn belt, favoring late-filling summer crops but slowing early harvesting. Elsewhere, only light rain prevailed except for moderate showers (15-40 mm) across the southern Yucatan Peninsula. Temperatures averaged 2-4 degrees C below normal across north-central and northeast Mexico and near normal across the main corn belt. In September, the corn belt and Yucatan Peninsula experienced near-normal rainfall, while elsewhere below-normal rainfall was reported.



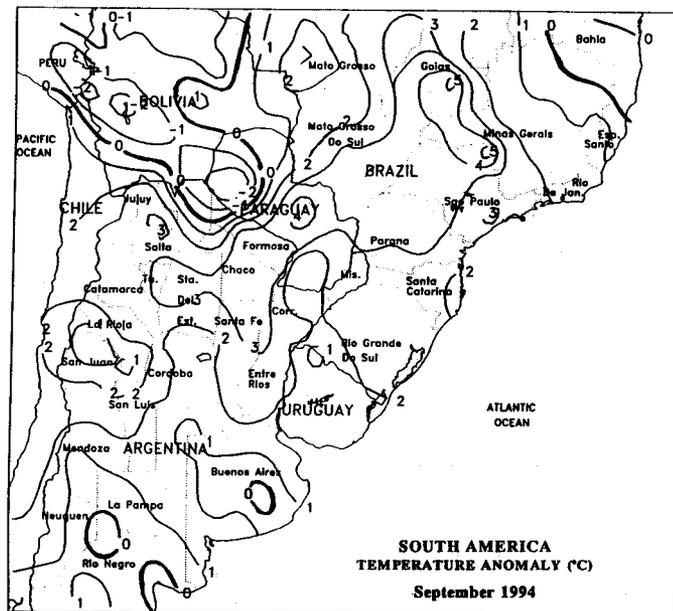
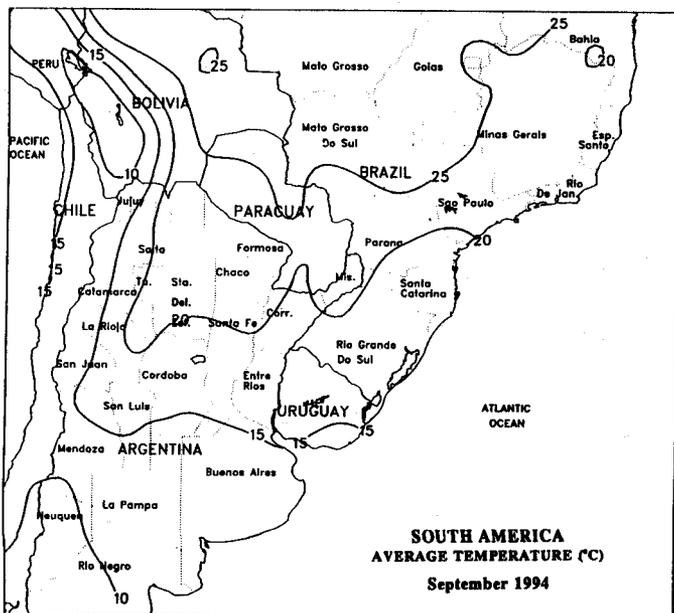
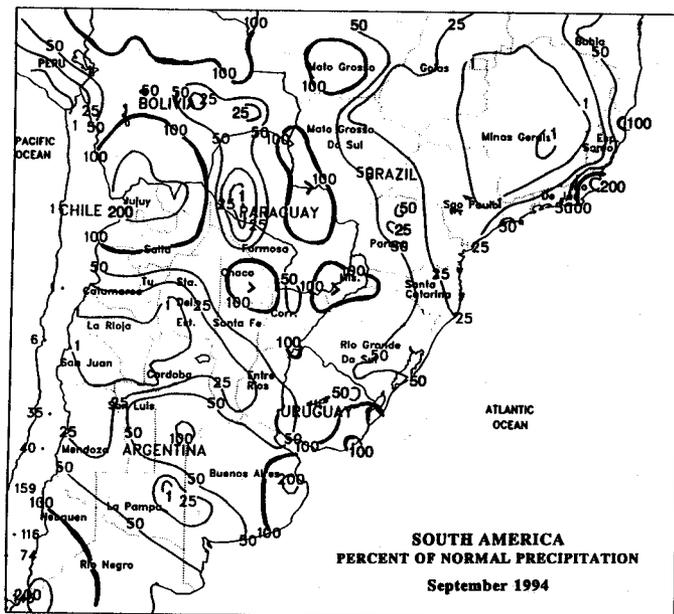
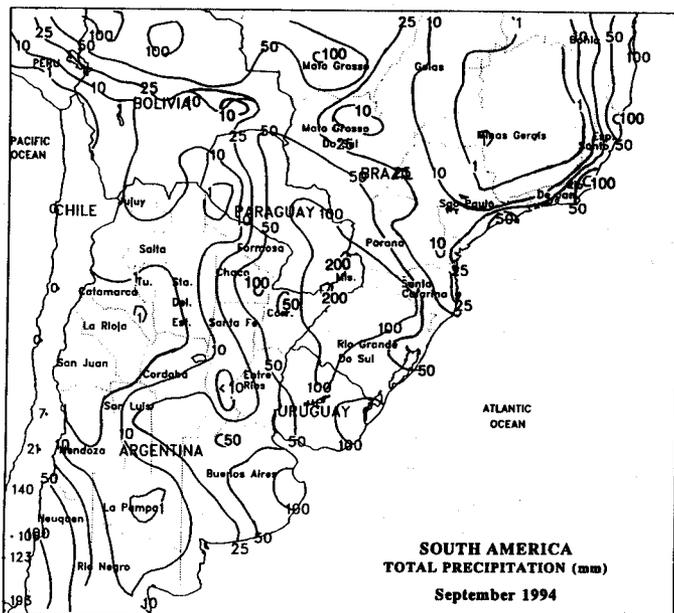


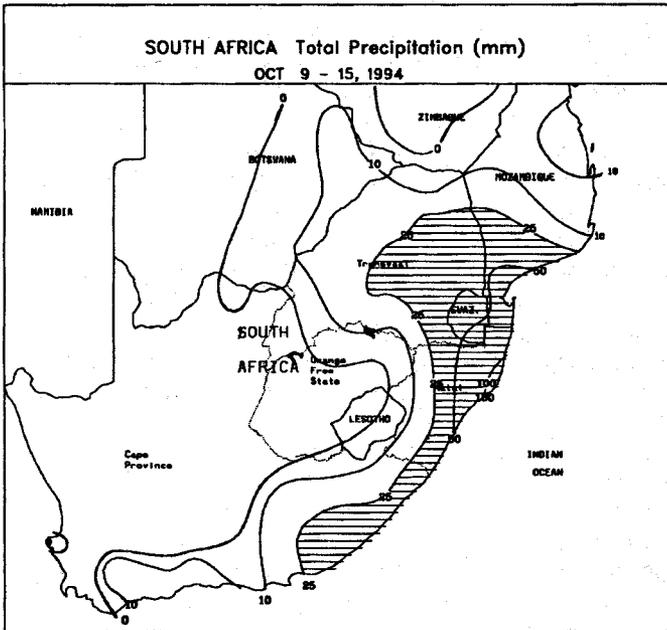
**CANADA:** In Ontario and Quebec, cool, dry weather favored corn and soybean harvests as emerging winter wheat began hardening prior to dormancy. In September, warm, mostly dry weather across the Prairies favored crop maturation and harvesting. The lack of a widespread hard freeze benefited canola. Further east, September rainfall was near to below normal over Ontario and Quebec, favoring maturing corn and soybeans. Periodic showers, however, favored winter wheat emergence and establishment. This is the final summary of the season; coverage will resume in the spring as planting commences.



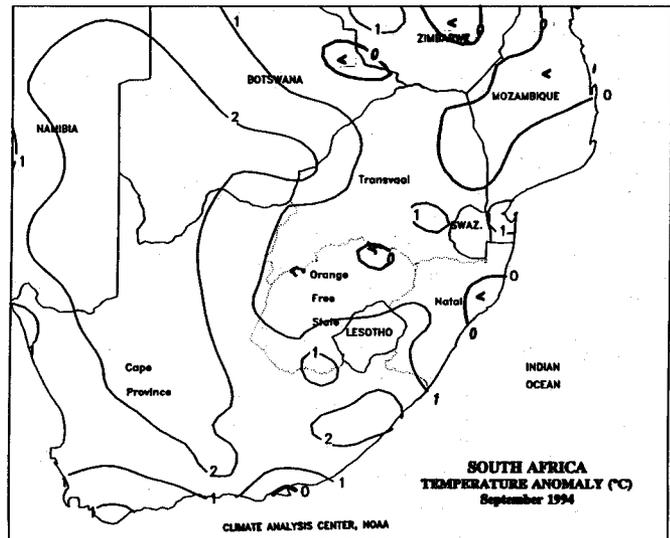
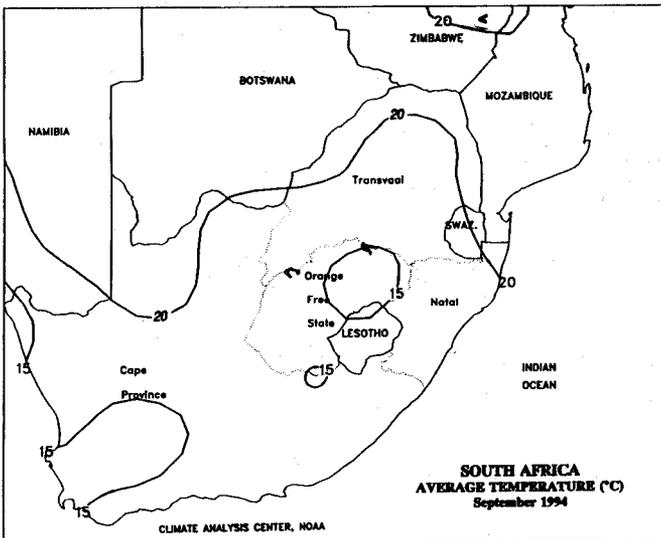
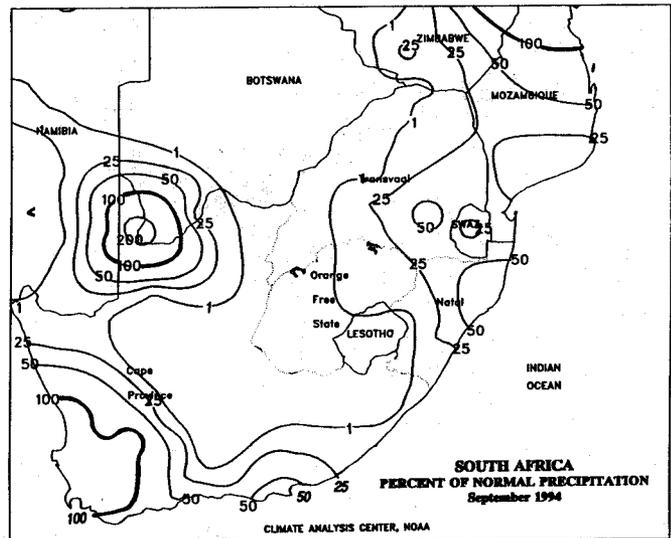
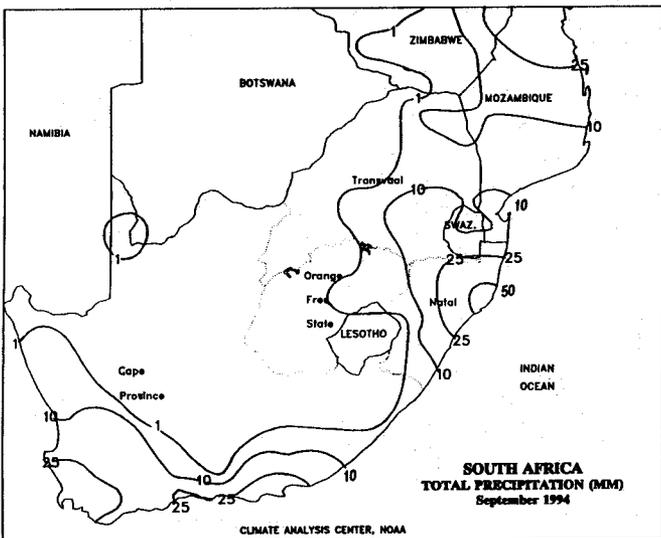


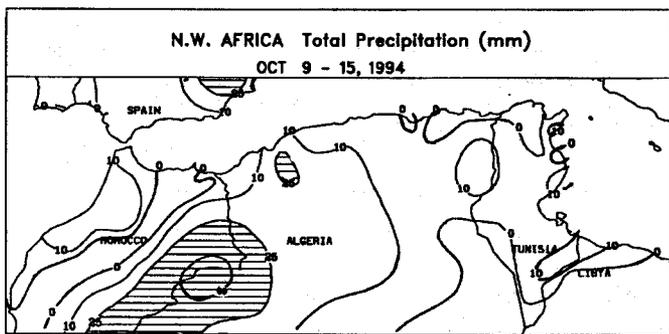
**SOUTH AMERICA:** In Argentina, moderate showers (15-55 mm) fell across most crop areas, aiding reproductive to filling winter wheat and boosting topsoil moisture for summer crop planting. In southern Brazil, moderate to heavy showers (15-80 mm) extended from Rio Grande do Sul into Parana, keeping topsoils moist for summer crop planting. Dry weather dominated Sao Paulo and Minas Gerais, with only isolated showers (5-35 mm) reported. More rain is needed in this region for coffee flowering, especially with temperatures averaging 3-5 degrees C above normal. Scattered showers (5-30 mm, with an isolated amount greater than 100 mm) fell across Mato Grosso and Mato Grosso do Sul. Weekly temperatures averaged 1-2 degrees C above normal in Argentina and 2-4 degrees C above normal throughout most of southern Brazil. During September, near-normal rainfall favored reproductive wheat in Argentina, from southern Cordoba to central Buenos Aires. Below-normal rainfall (less than 50 percent of normal) stressed wheat in most of Santa Fe, northern Cordoba, and southwestern Buenos Aires. Most of southern Brazil received below-normal September rainfall, as the rainy season started slowly. Northern Sao Paulo and southwestern Minas Gerais received little or no rain for the month, stressing coffee and citrus.



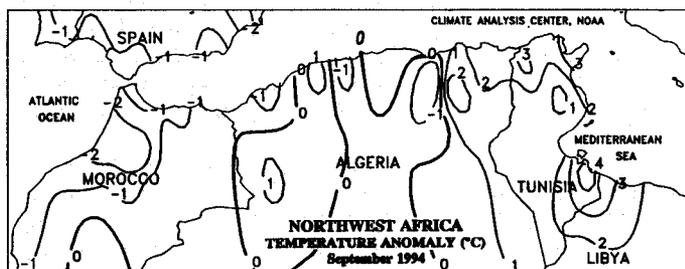
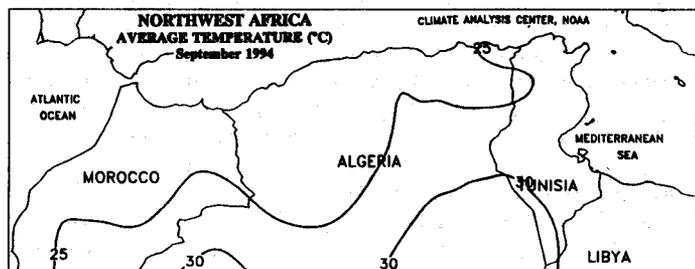
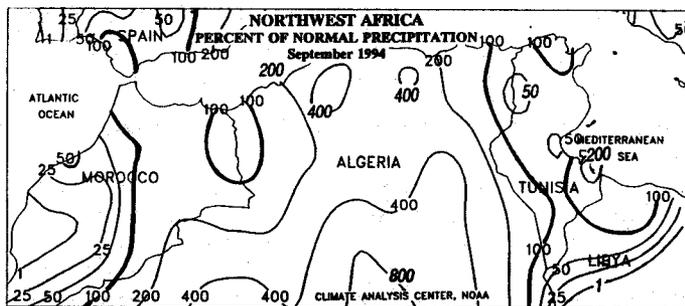
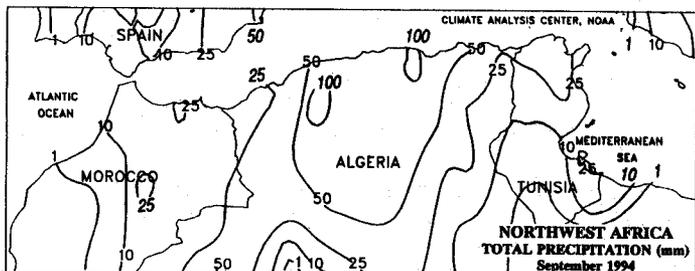


**SOUTH AFRICA:** Cooler-than-normal weather accompanied light to moderate showers (5-25 mm, with local totals near 50 mm) over most grain areas of Transvaal and Natal-Kwazulu. The rain boosted topsoil moisture for corn planting but slowed winter wheat harvesting. Rain (10-25 mm or more) benefited coastal crops, including sugarcane. In September, rainfall was above normal over crop areas of southwestern Cape province, benefiting immature wheat. Elsewhere, however, drier-than-normal conditions reduced moisture for wheat development and summer crop planting. Lingering frosts in early September delayed wheat development.





**NORTHWESTERN AFRICA:** Preparation for winter grain planting was in the early stages over most of the region. Light showers (10-23 mm) over Morocco, western Algeria, and parts of eastern Algeria helped to condition topsoils, prompting early season fieldwork. However, the bulk of winter grains are usually planted from mid-November to mid-December over the region. In September, well above-normal rainfall (50-100 mm) over Algeria helped to recharge soil moisture for the upcoming growing season. Seasonably light precipitation covered Morocco and Tunisia.



## September ENSO Update

The following information was extracted from the latest ENSO (El Niño/Southern Oscillation Advisory, issued October 12, 1994, by the Climate Analysis Center.

Most atmospheric and oceanic trends and anomaly patterns indicate a continuation of warm episode conditions in the tropical Pacific. Above-normal sea surface temperatures (SSTs) dominated the tropical and subtropical Pacific Ocean east of the date line during September, while below-normal SSTs continued throughout the western equatorial Pacific and in the south Pacific between Australia and the date line. Accompanying the anomaly pattern, a distinct area of SSTs exceeding 30°C has become centered near the equator at the date line during the past few months, with SST anomalies exceeding 1°C throughout this region. SSTs more than 1°C above normal were also observed extending northeastward from the date line to the southern Baja Peninsula during September (fig. 1). These anomalies are similar in magnitude to those observed during September 1991 and September 1992.

The Southern Oscillation Index (SOI) was -1.8 in September, as the pattern of anomalous sea-level pressures that has dominated the tropical Pacific since 1991 persisted. The SOI has been strongly negative during the last 7 months.

### Sea Surface Temperature Anomaly September 1994

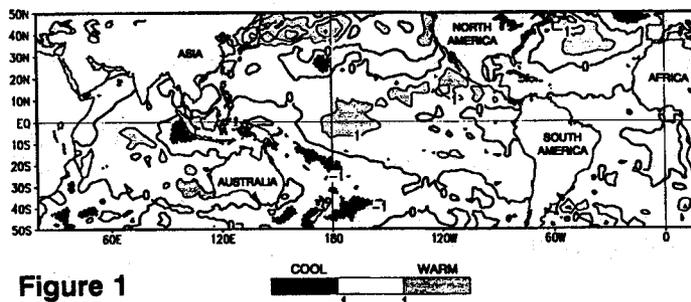


Figure 1

The Weekly Weather and Crop Bulletin is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44- USC 213), 53rd Congress, 3rd Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

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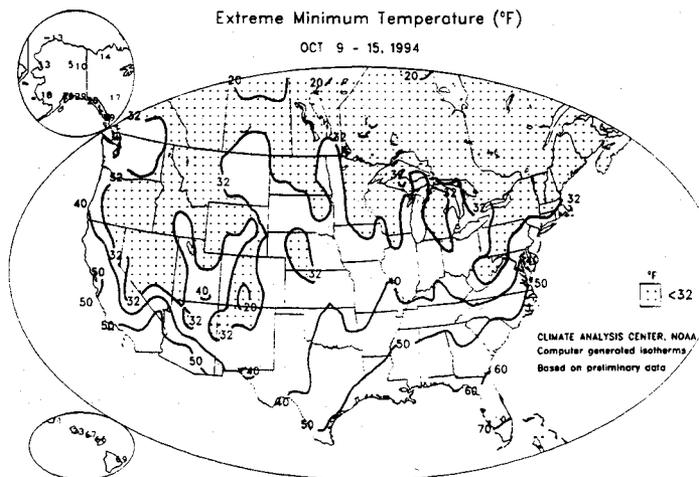
(Continued from front cover)

widespread frost to the northern Corn Belt on October 9 and 10. The frost occurred at a later-than-normal date, having no impact on crops. In fact, St. Cloud, MN tallied its first 32-degree reading on October 9, a record-late date, and 2 weeks later than normal. Scattered, near-freezing temperatures penetrated into the Plains on Sunday. Temperatures briefly touched 32°F at Russell, KS and Dalhart, TX. By Tuesday morning, cool air spread southward into Texas, where Waco and Midland each tied daily records with 42°F. A chill also descended upon the Northwest at midweek. On Tuesday, Olympia, WA noted 29°F, a daily-record low. A day later, lows in Oregon included 39°F at Portland and 21°F at Burns.

Meanwhile, Atlantic and Gulf of Mexico moisture flowed across a frontal boundary draped across the Southeast. More than 10 inches of rain pounded Savannah, GA during the first 4 days of the week, including 7.58 inches on Wednesday. Savannah's monthly rainfall through the first 12 days of the month topped 18 inches, breaking their former October record (12.50 inches in 1990). Other impressive weekly totals included 8.58 inches at Cape Hatteras, NC, 7.32 inches in Wilmington, NC, 6.47 inches in Jacksonville, FL, 4.90 inches in Charleston, SC, and 4.38 inches in Raleigh-Durham, NC. Totals exceeded 2 inches as far west as northern Louisiana. Gale-force northeasterly winds and high seas accompanied the rainfall along the southern Atlantic coast. Myrtle Beach, SC clocked a wind gust to 54 mph on Thursday. Farther up the coast, cool, tranquil weather prevailed. Dulles Airport, near Washington, DC, recorded 31°F on Tuesday. A day later, Atlantic City, NJ broke a daily-record low with 32°F.

Late in the week, an impressive storm system began to coalesce across the West. Beginning on Thursday, Spokane, WA collected 0.76 inches of rain, while 0.37 inches dampened both Pendleton, OR and Boise, ID. Locally heavy precipitation developed over parts of the Four Corners States toward week's end, with totals reaching 1.84 inches in Las Vegas, NM and 1.36 inches in Blanding, UT. By Saturday, the first widespread snowstorm of the season was well underway. In New Mexico, 5 inches

covered the ground at Red River. Snow reached a depth of 7 inches in Flagstaff, AZ and Cedar City, UT. Cedar City registered a high of 42°F on Saturday, while nearby Bryce Canyon had a high of only 28°F. Up to 18 inches blanketed northern Archuleta County, CO. Heavy snow fell as far north as the western mountains of Montana, with rain reported farther east on the High Plains. Casper, WY netted 1.28 inches of rain on Saturday, pushing their monthly total to 3.27 inches, breaking the October record of 2.62 inches set in 1986. Farther south, remnant moisture from Hurricane Rosa passed rapidly through the Plains, dropping mostly light rains. Additional tropical moisture trailed Rosa into eastern Texas and Louisiana and, in combination with energy ejecting from the storm in the West, set the stage for an excessive rainfall event that began on Saturday night. Totals by midnight included 1.29 inches in Lufkin, TX (7.47 inches on Sunday), 0.80 inches in Bossier City, LA (4.46 inches on Sunday), and 0.38 inches in College Station, TX (12.31 inches on Sunday).



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