

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

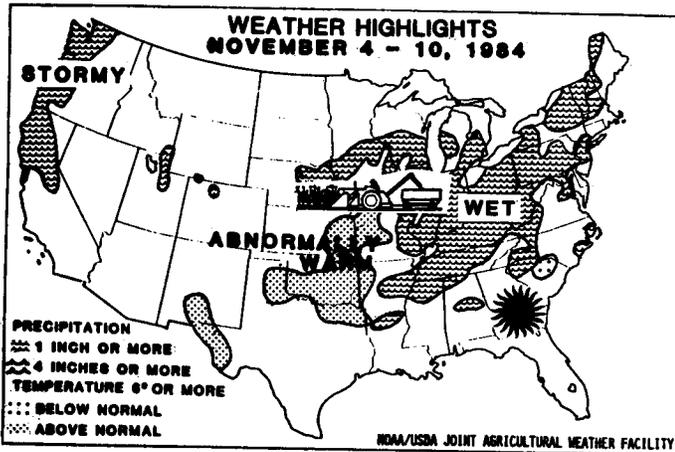
Volume 71, No. 45

WASHINGTON, D.C.

Nov. 14, 1984

National Weather Summary

November 4 to 10, 1984



WEDNESDAY...Freezing temperatures pushed southward from the Great Lakes to the southern Appalachians, but warming began in the southern and central Plains. A few light rainshowers fell in the western Great Lakes region. A storm center off the northern California coast produced showers all along the west coast and snow in the Sierras, the high elevations of the Plateau, and northern Rockies. Hurricane Klaus spread heavy rain over Puerto Rico and the Virgin Islands, and moved northeastward into the Atlantic.

THURSDAY...The Pacific storm spread showers over the west coast, most of California, the Plateau, and the northern and central Rockies. Heavy snow fell in some higher elevations of the mountains. Light showers and thunderstorms spread from the central and northern Plains to the eastern Great Lakes. Freezing temperatures covered the East Coast States to Georgia.

HIGHLIGHTS: Pacific storms produced rain and high wind along the entire west coast and heavy snow over the Cascades, the Plateau, and the central and northern Rockies. Snow fell over the High Plains of Nebraska and South Dakota and moderate to heavy rain fell from eastern Nebraska to Michigan. A late-week line of heavy showers and thunderstorms accompanied severe weather from the Mississippi Delta to central New York. Showers spread over all of the East from the Mississippi Valley to the Atlantic. Most of the Nation's temperatures averaged above normal. The eastern slopes of the Appalachians and parts of the West from California to northern Wyoming were colder than normal. Hurricane Klaus deluged Puerto Rico with heavy rain before moving northeastward into the Atlantic.

SUNDAY...Light to moderate rain or showers fell from the Tennessee Valley through the Carolinas and northward to New England. Morning temperatures were much warmer than the previous day. Freezing weather was reported only in New England, the extreme northern Plains, and in the higher elevations of the Rockies.

MONDAY...Light showers lingered from the upper Ohio Valley and the Carolinas through New England. Some moderate rain fell in New England. Showers covered the west coast as far south as central California. Much colder air pushed through the northern Plains, but warming continued in the East.

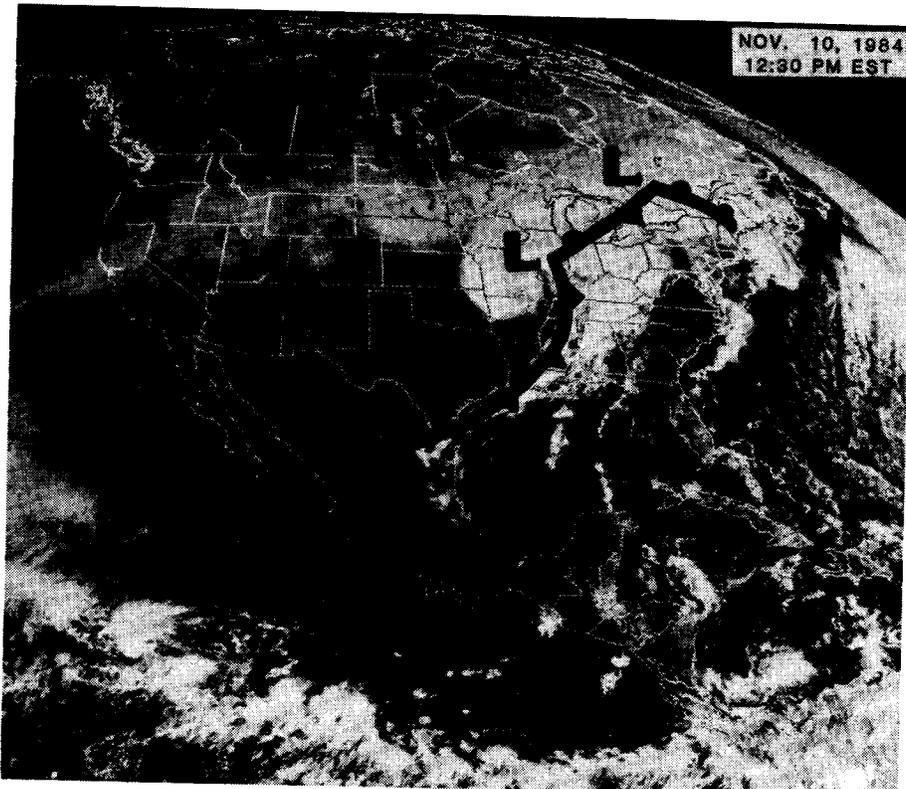
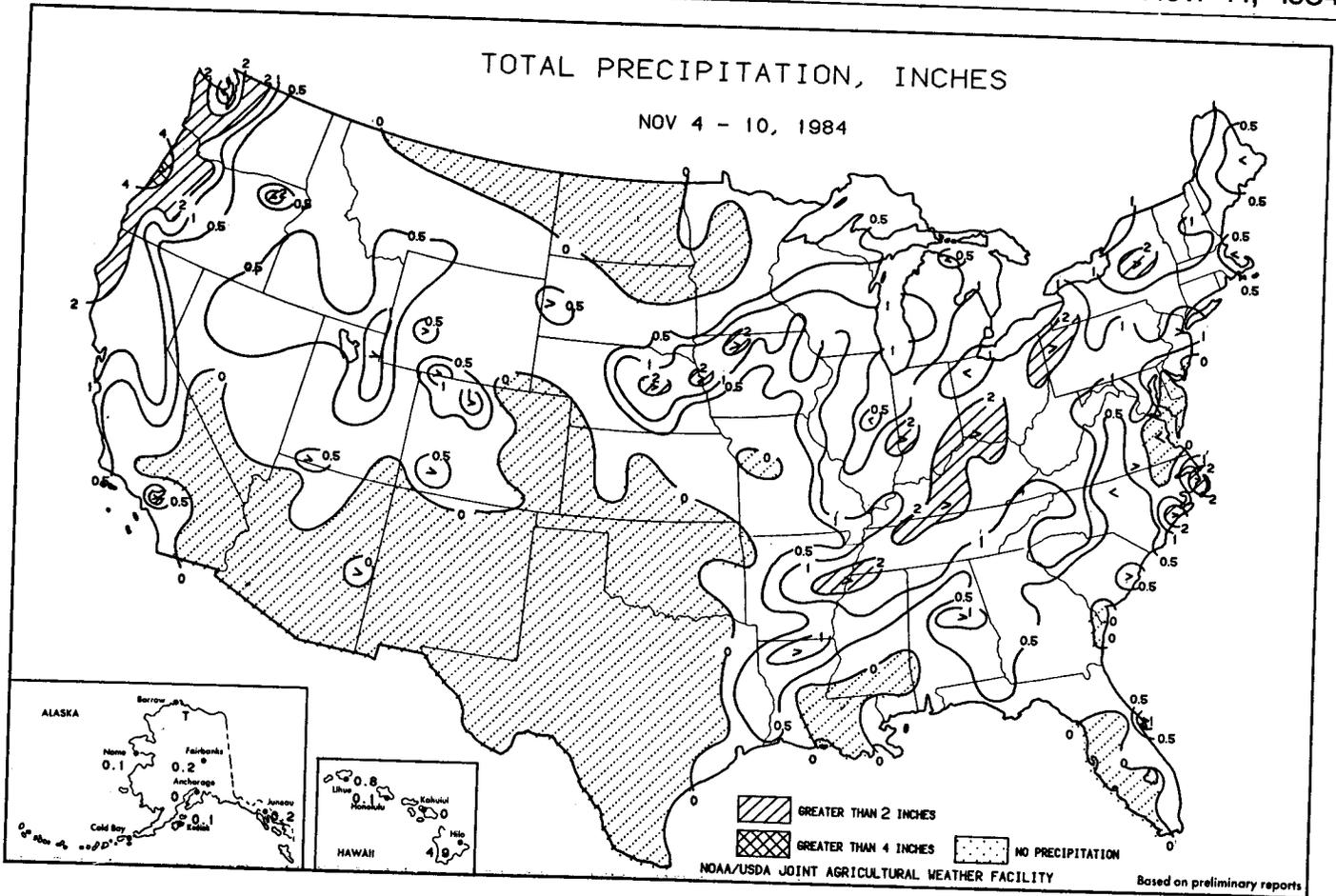
TUESDAY...Most of the Nation was without rain. A few very light showers fell from West Virginia into New York; and a Pacific storm caused showers and high wind along the west coast from Washington to southern California. The showers spread eastward to Idaho and western Montana with snow covering the higher elevations. The colder air spread southward and eastward to the central Plains and lower Ohio Valley.

FRIDAY...Moderate showers covered the Pacific Northwest coast and heavy snow fell in the northern and central Rockies. Cold air pushed through the Rockies and onto the northern Plains while warm, moist air moved northward into the eastern portion of the Plains. Snow fell over the northern High Plains and showers and thunderstorms covered the eastern portion of the Plains and the Great Lakes region. Heavy thunderstorms and a few tornadoes occurred from the Mississippi Delta to the upper Ohio Valley, and lighter showers into New England.

SATURDAY...Showers continued east of the Mississippi Valley. Thunderstorms produced severe weather from the Tennessee Valley to the upper Ohio Valley. Heavy showers fell along the west coast from central California northward. Heavy snow covered the Cascades and into the Idaho Rockies. Freezing temperatures were confined to the Rockies, the northern Plains, and New England.

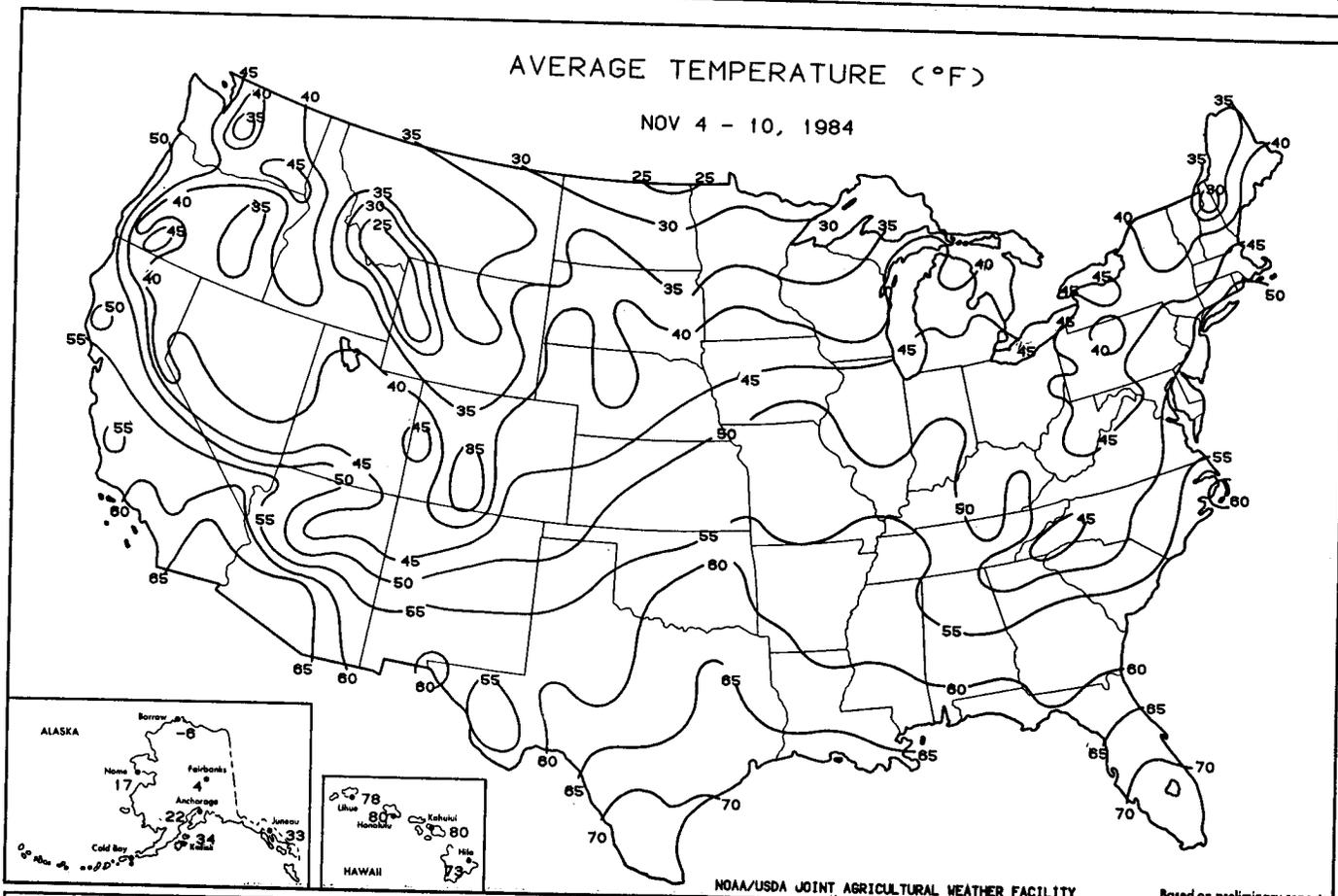
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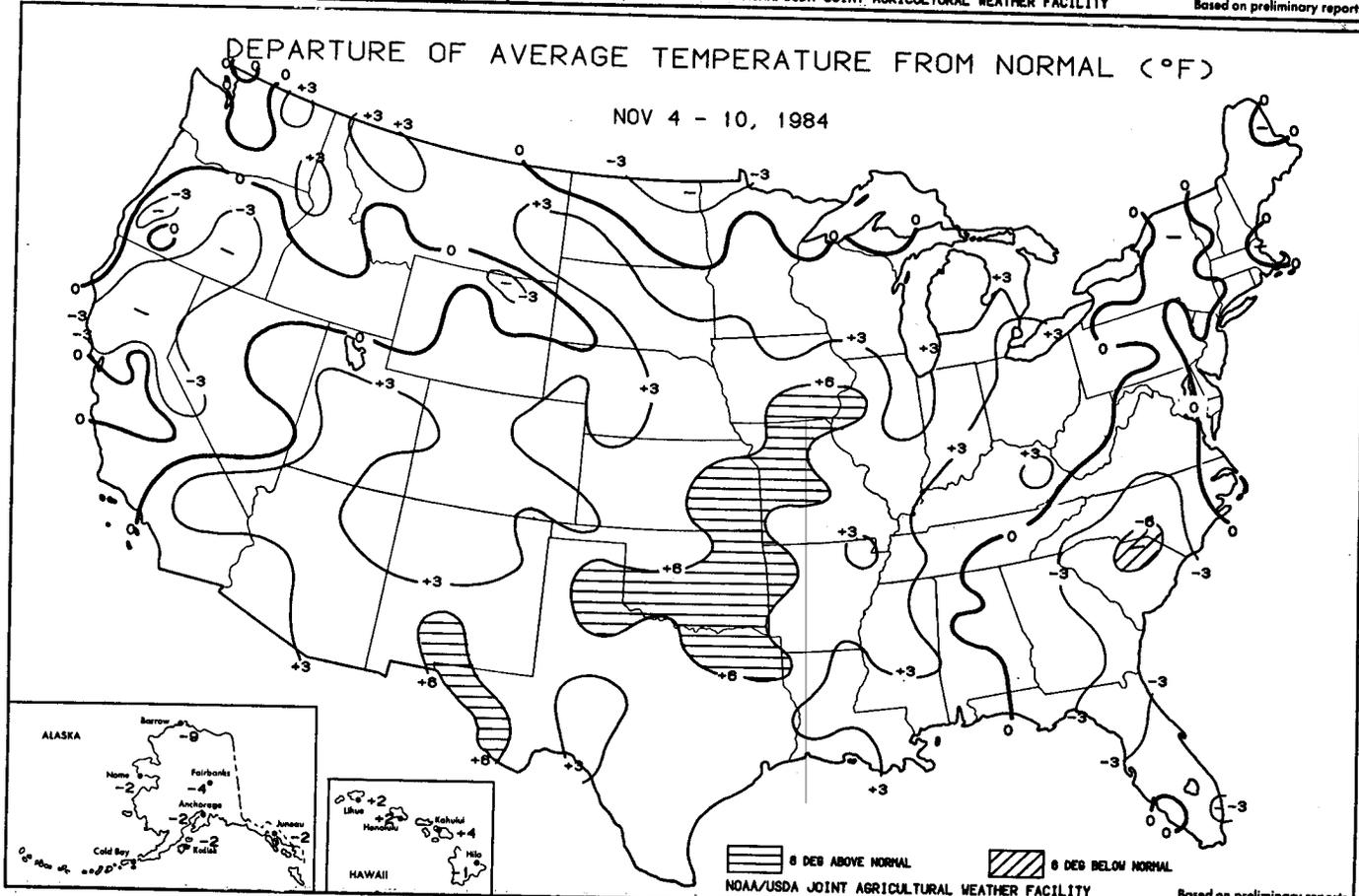
WARM, MOIST AIR FROM THE GULF OF MEXICO TRIGGERS THUNDERSTORMS AND SEVERE WEATHER ALONG AND AHEAD OF A COLD FRONT MOVING EASTWARD.

THE FRONTAL SYSTEM IN THE WEST CAUSES SHOWERS ALONG THE COAST AND SNOW OVER THE PLATEAU AND MOUNTAINS.



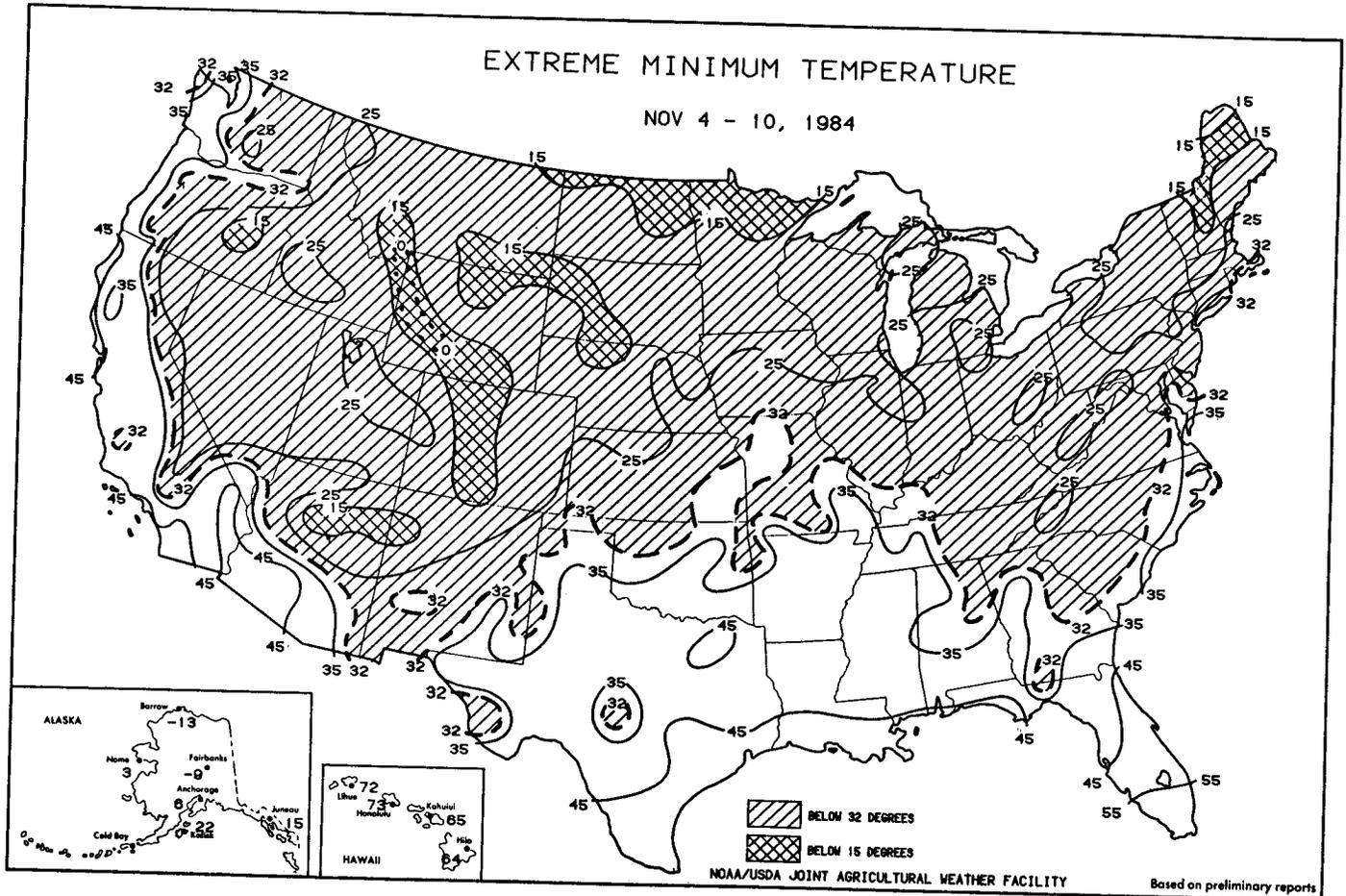
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports



6 DEG ABOVE NORMAL 6 DEG BELOW NORMAL
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports



November Crop Production Highlights

CORN FOR GRAIN production is forecast at 7.53 billion bushels, up fractionally from October 1 and up 81 percent from last year's drought-stricken crop. A crop of this size is 9 percent below the record high crop of 1982. The 90 percent confidence interval for this production forecast is 7.19 to 7.87 billion bushels.

SORGHUM GRAIN production is forecast at 813 million bushels, up 1 percent from October 1, and 70 percent from last year.

FEED GRAIN production (corn, sorghum, oats, and barley combined) is expected to total 232 million metric tons, up 71 percent from last year but 7 percent below the record high production in 1982.

SOYBEAN production is forecast at 1.90 billion

bushels, 4 percent less than October 1, 13 percent below 1982, but 16 percent above last year. The 90 percent confidence interval for this 1984 production forecast is 1.80 to 2.01 billion bushels.

ALL COTTON production is forecast at 13.3 million bales, 71 percent above last year and 11 percent more than 1982 production. The 90 percent confidence interval for this production forecast is 12.4 to 14.1 million bales.

PEANUT production is forecast at a record high 4.41 billion pounds, 34 percent above 1983. Production is up 2 percent from the October 1 forecast.

ALL TOBACCO production is forecast at 1.74 billion pounds, 22 percent above 1983, but down fractionally from the October 1 forecast.

Weather Data for the Week Ending November 10, 1984

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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	67	43	72	35	55	1	.2	-.6	.2	6.1	76	39.9	85	82	40	0	0	2	0
MOBILE	71	48	75	40	60	-1	-.2	-.6	.1	7.0	70	50.1	89	82	41	0	0	1	0
MONTGOMERY	70	44	79	34	57	0	.6	-.6	.1	4.0	85	46.3	110	89	41	0	0	1	0
AK ANCHORAGE	28	16	38	6	22	-2	-.2	-.3	.6	6.6	87	13.7	102	94	76	0	0	0	1
BARROW	-2	-10	7	-13	-6	-10	-.1	-.1	.1	4.0	87	13.7	102	94	76	0	0	0	1
FAIRBANKS	9	-1	16	-9	4	-4	.2	-.1	.1	.5	41	3.7	86	95	74	0	0	1	0
JUNEAU	38	27	40	15	33	-2	.2	-.1	.1	1.1	55	8.8	96	94	80	0	0	7	0
KODIAK	41	27	45	22	34	-2	.2	-.2	.1	10.2	64	44.9	99	99	77	0	0	7	4
NOME	23	11	32	3	17	-2	.1	-.1	.1	11.5	57	57.9	90	84	55	0	0	7	3
AZ PHOENIX	80	53	88	47	67	3	.0	-.1	.0	2.6	67	13.3	99	99	79	0	0	7	0
PRESCOTT	67	34	77	23	50	4	.0	-.1	.0	3.7	259	11.2	190	96	80	0	0	6	5
TUCSON	81	48	88	40	65	4	.0	-.1	.0	2.1	68	11.5	71	73	23	0	0	2	0
YUMA	81	55	90	50	68	2	.0	-.1	.0	2.6	109	11.7	119	47	13	0	0	0	0
AR FORT SMITH	71	46	81	34	59	6	.0	-.8	.0	1.3	13	4.1	186	57	22	1	0	0	0
LITTLE ROCK	68	49	74	41	58	4	1.4	-.5	1.4	20.0	262	41.5	119	84	40	0	0	0	0
CA BAKERSFIELD	71	45	81	38	58	-1	-.1	-.1	.1	20.3	261	47.9	122	78	55	0	0	0	1
EUREKA	61	48	69	45	54	2	2.3	1.0	.7	.1	15	1.4	30	80	37	0	0	0	0
FRESNO	68	45	75	40	57	1	.4	-.1	.4	7.9	142	24.6	87	90	67	0	0	6	2
LOS ANGELES	68	56	71	51	62	-1	.4	-.1	.4	1.1	113	3.2	40	83	43	0	0	2	0
RED BLUFF	59	44	70	39	52	-1	.1	-.2	.1	.5	53	2.4	26	76	44	0	0	1	0
SACRAMENTO	65	49	73	43	57	-4	1.1	-.4	.4	3.3	125	8.0	51	97	61	0	0	4	0
SAN DIEGO	69	59	71	54	64	1	1.1	-.6	.3	2.1	117	5.1	40	98	62	0	0	0	0
SAN FRANCISCO	62	49	67	44	56	0	.3	0	.3	.5	63	2.0	28	90	64	0	0	4	0
CO DENVER	58	30	67	23	44	3	1.9	1.4	.8	3.9	200	8.0	55	91	58	0	0	1	0
GRAND JUNCTION	57	35	63	28	46	3	T	-.2	T	4.0	159	15.8	111	74	22	0	0	4	2
PUEBLO	57	29	73	21	45	2	.2	-.1	.2	3.1	173	10.8	154	68	29	0	0	1	0
CT BRIDGEPORT	61	43	66	33	50	2	.5	-.3	.4	2.8	159	15.4	151	80	21	3	5	0	0
HARTFORD	56	34	66	23	45	0	.9	-.1	.4	4.8	63	38.9	111	84	55	0	0	2	2
DC WASHINGTON	59	42	66	33	50	-1	.9	-.3	.9	4.8	55	38.6	103	82	44	0	0	4	0
FL APALACHICOLA	72	50	82	42	61	-2	.4	-.2	.4	6.6	94	34.0	100	80	44	0	0	2	1
DAYTONA BEACH	78	57	85	50	67	0	.1	-.6	.1	4.0	33	54.3	111	88	46	0	0	0	0
JACKSONVILLE	70	50	78	43	60	-3	.1	-.4	.1	12.3	101	43.4	97	86	47	0	0	1	1
KEY WEST	80	70	84	67	75	-2	-.1	-.4	.1	15.4	139	47.1	96	93	55	0	0	0	0
MIAMI	81	61	89	56	71	0	T	-.8	T	8.8	71	38.2	107	73	51	0	0	0	0
ORLANDO	77	57	84	51	67	-3	.0	-.8	.0	13.6	83	56.1	103	88	47	0	0	0	0
TALLAHASSEE	74	44	82	32	59	-2	.0	-.4	.0	7.0	78	42.2	94	96	45	0	0	1	0
TAMPA	78	55	84	44	66	-2	.3	-.4	.3	4.3	41	52.9	92	91	39	0	0	1	0
WEST PALM BEACH	80	62	86	54	71	-2	.0	-.4	.0	4.8	53	31.8	73	87	45	0	0	0	0
GA ATLANTA	62	42	73	37	52	-2	.5	-.2	.3	12.7	69	57.5	103	93	50	0	0	1	0
AUGUSTA	68	39	79	30	53	-3	.1	-.3	.1	2.1	31	50.2	120	81	38	0	0	2	0
MACON	69	43	80	33	56	-2	.6	-.2	.5	1.5	24	42.5	111	93	39	0	0	3	2
SAVANNAH	69	44	78	34	56	-2	.2	-.2	.5	1.7	29	41.1	105	87	37	0	0	2	0
HI HILO	80	67	83	64	73	-1	T	-.4	T	9.2	117	47.9	105	88	41	0	0	0	0
HONOLULU	85	74	87	73	80	2	4.9	1.5	4.2	11.4	53	74.2	70	90	62	0	0	5	1
KAHULUI	89	71	93	65	80	4	.1	-.7	.1	3.3	92	8.4	47	80	55	0	0	0	0
LIHUE	82	74	83	72	78	2	T	-.5	T	0	0	6.8	44	78	48	2	0	0	0
ID BOISE	46	36	50	30	41	-1	.8	-.5	.4	4.6	53	15.1	43	80	61	0	0	5	0
LEWISTON	53	37	59	32	45	3	.6	-.4	.3	2.3	133	11.0	116	81	51	0	0	1	0
POCATELLO	44	28	49	24	36	-2	.3	0	.2	1.1	52	9.8	92	84	47	0	0	4	0
IL CHICAGO	54	34	64	23	44	1	.3	0	.2	1.9	101	12.2	131	83	53	0	0	2	0
MOLINE	58	38	73	25	48	6	.7	-.2	.6	8.5	135	29.5	99	96	63	0	0	7	3
PEORIA	59	38	75	25	49	5	.9	-.4	.8	11.1	157	35.1	103	84	48	0	0	4	1
QUINCY	60	41	76	28	50	6	1.7	1.2	.8	10.6	157	36.1	114	90	51	0	0	2	2
ROCKFORD	53	34	63	22	44	3	.8	-.3	.8	10.4	127	35.5	102	88	47	0	0	3	1
SPRINGFIELD	60	39	73	26	50	4	1.3	-.9	.9	9.7	131	29.3	88	89	54	0	0	2	1
IN EVANSVILLE	61	41	69	31	51	3	.2	-.4	.3	11.5	184	36.3	119	89	51	0	0	2	1
FORT WAYNE	56	40	65	28	48	5	.9	-.4	.8	14.2	230	40.9	114	89	51	0	0	2	2
INDIANAPOLIS	59	40	68	28	50	5	1.6	-.9	.9	7.4	125	26.6	88	86	60	0	0	2	0
SOUTH BEND	54	41	60	31	47	4	.8	-.1	.2	10.7	172	35.8	105	92	58	0	0	4	0
IA DES MOINES	57	36	65	29	47	4	.4	0	.5	9.6	129	28.9	87	85	60	0	0	3	1
SIoux CITY	55	32	63	24	43	3	1.7	-.2	.2	9.4	164	38.5	133	89	47	0	0	3	2
WATERLOO	54	34	61	22	44	5	.5	-.1	.5	7.0	155	32.4	135	78	42	0	0	4	1
KS CONCORDIA	60	38	70	25	49	5	.5	-.1	.5	8.1	130	32.0	104	90	53	0	0	3	2
DODGE CITY	63	38	74	31	51	5	.1	-.2	.1	6.1	118	25.1	97	86	45	0	0	1	0
GOODLAND	57	32	67	27	45	4	T	-.1	T	3.2	95	16.4	83	69	29	0	0	1	0
TOPEKA	65	41	73	30	53	7	T	-.4	T	3.5	138	20.2	130	79	28	0	0	2	0
WICHITA	65	41	70	32	53	6	T	-.4	T	8.7	127	35.4	114	91	42	0	0	1	0
KY BOWLING GREEN	61	41	69	29	51	2	T	-.4	T	4.9	76	22.5	84	88	37	0	0	1	0
LEXINGTON	56	40	65	29	48	1	2.2	1.3	1.2	11.6	162	50.9	121	96	52	0	0	1	5
LOUISVILLE	58	41	65	31	50	1	1.7	1.0	.6	8.0	124	35.0	88	94	50	0	0	2	3
ALEXANDRIA	72	52	77	43	62	3	2.2	1.1	.6	8.8	124	39.1	103	85	55	0	0	1	4
BATON ROUGE	75	51	80	43	63	3	T	0	T	14.0	169	57.3	122	84	47	0	0	0	0
LAKE CHARLES	76	54	80	46	65	3	-.8	0	0	18.5	227	46.4	97	90	44	0	0	0	0
NEW ORLEANS	74	54	78	47	64	2	-.4	-.4	.2	19.6	201	55.6	122	95	48	0	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 10, 1984

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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	75	53	83	42	64	6	.5	-.3	.5	16.7	236	43.1	115	94	51	0	0	0	0	
ME CARIBOU	44	28	53	19	36	-1	-.6	-.2	-.3	4.1	53	31.0	99	86	59	0	0	0	0	
PORTLAND	50	32	54	21	41	-1	-.8	-.3	-.6	4.9	56	41.7	116	92	56	0	0	2	2	
MD BALTIMORE	58	38	68	28	48	-1	-.8	-.1	-.5	5.0	66	32.8	90	85	41	0	0	2	2	
SALISBURY	62	39	68	30	51	-1	-.1	-.6	-.1	2.0	23	37.3	94	96	48	0	0	2	2	
MA BOSTON	54	39	66	30	47	-1	-.4	-.5	-.4	6.8	84	46.0	126	83	51	0	0	2	2	
CHATHAM	53	44	57	37	49	1	-.1	-.9	-.1	7.4	83	45.0	116	91	51	0	0	2	2	
MI ALPENA	48	29	56	17	39	0	-.4	-.1	-.4	8.0	143	27.7	110	95	61	0	0	0	0	
DETROIT	54	36	61	20	45	2	-.5	-.6	-.6	6.1	120	22.5	84	82	57	0	0	2	2	
FLINT	54	38	62	26	46	2	-.2	-.7	-.7	6.9	133	25.3	98	89	62	0	0	2	2	
GRAND RAPIDS	54	39	59	27	47	4	1.1	-.4	1.1	111	23.7	79	87	61	0	0	4	1		
HOUGHTON LAKE	47	31	52	20	39	1	-.7	-.1	-.6	5.2	91	25.2	102	93	69	0	0	3	3	
LANSING	53	35	61	23	44	3	1.0	-.5	-.8	7.4	137	24.4	95	92	61	0	0	2	2	
MARQUETTE	41	25	50	17	33	3	1.5	-.2	-.3	7.2	88	28.2	86	95	67	0	0	3	3	
MUSKOGON	51	37	55	26	44	0	1.5	-.3	1.4	6.0	92	24.4	91	89	61	0	0	2	2	
SAULT STE. MARIE	42	31	48	22	36	0	1.5	-.3	1.4	6.0	92	24.4	91	89	61	0	0	2	2	
MN ALEXANDRIA	42	27	53	20	35	0	1.5	-.3	1.4	6.0	92	24.4	91	89	61	0	0	2	2	
DULUTH	38	25	54	17	31	-1	1.1	-.3	1.1	11.3	145	28.7	100	98	69	0	0	4	6	
INT'L FALLS	35	21	44	12	28	-2	1.1	-.3	1.1	10.0	219	31.0	134	95	59	0	0	2	2	
MINNEAPOLIS	47	31	59	22	39	2	1.1	-.3	1.1	9.2	154	24.4	89	85	58	0	0	2	2	
ROCHESTER	45	31	57	23	38	2	1.3	-.3	1.2	8.2	171	34.2	138	73	44	0	0	2	2	
MS GREENWOOD	68	49	74	39	58	2	1.3	-.9	1.2	7.4	132	25.9	98	84	54	0	0	2	2	
JACKSON	71	48	77	38	60	3	1.8	-.1	1.8	15.4	206	46.9	105	92	45	0	0	4	2	
MERIDIAN	72	45	78	37	59	3	1.8	-.7	1.8	9.6	131	42.0	95	95	42	0	0	2	1	
MO CAPE GIRARDEAU	64	46	70	34	55	3	1.4	-.6	1.4	11.7	165	46.5	103	92	40	0	0	1	1	
COLUMBIA	63	42	77	30	52	6	1.1	-.4	1.1	18.6	259	39.5	103	93	51	0	0	2	1	
KANSAS CITY	62	41	70	31	51	5	1.1	-.4	1.1	12.2	158	43.8	133	87	42	0	0	1	1	
SAINT LOUIS	63	43	73	32	53	5	1.2	-.6	1.2	9.9	127	34.4	105	93	44	0	0	2	1	
SPRINGFIELD	63	43	75	31	53	5	1.2	-.6	1.2	18.9	325	44.2	147	91	50	0	0	1	3	
MT BILLINGS	46	29	55	14	38	0	1.5	-.3	1.5	12.5	149	36.0	103	81	47	0	0	1	1	
GLASGOW	43	26	51	23	35	2	1.5	-.3	1.5	2.3	84	9.2	67	74	42	0	0	4	1	
GREAT FALLS	47	29	55	22	38	0	1.5	-.3	1.5	1.3	87	5.9	54	94	59	0	0	7	1	
HAVRE	43	28	50	22	35	2	1.5	-.3	1.5	1.7	79	10.5	75	73	38	0	0	6	1	
HELENA	46	28	49	21	37	3	1.5	-.3	1.5	1.7	104	6.0	58	89	58	0	0	5	2	
KALISPELL	41	30	47	25	36	3	1.5	-.3	1.5	1.7	100	8.4	81	77	40	0	0	5	2	
MILES CITY	48	28	55	23	38	3	1.5	-.3	1.5	4.7	190	13.7	101	80	55	0	0	6	2	
MISSOULA	41	30	49	22	36	2	1.5	-.3	1.5	1.9	41	7.6	58	87	42	0	0	5	2	
NE GRAND ISLAND	57	32	71	26	45	4	1.2	1.0	1.2	2.2	104	12.1	105	89	58	0	0	6	1	
LINCOLN	59	32	70	25	46	4	1.2	1.0	1.2	4.9	131	30.1	136	77	36	0	0	4	1	
NORFOLK	57	31	67	23	44	4	1.5	1.3	1.5	5.3	108	33.0	129	87	42	0	0	3	1	
NORTH PLATTE	54	24	69	20	39	1	1.5	1.3	1.5	6.5	176	32.5	143	74	32	0	0	3	1	
OMAHA	57	36	67	27	47	5	1.6	1.0	1.6	3.1	115	20.0	107	84	37	0	0	7	1	
SCOTT'S BLUFF	54	25	62	19	40	1	1.6	1.0	1.6	8.4	144	33.3	117	75	26	0	0	2	2	
VALENTINE	53	24	63	11	39	1	1.6	1.0	1.6	1.5	72	12.2	89	72	28	0	0	7	2	
NV ELY	52	25	65	17	38	2	1.6	1.0	1.6	1.2	48	18.5	111	77	36	0	0	6	1	
LAS VEGAS	70	48	80	40	59	3	1.6	1.0	1.6	5.3	354	13.1	166	82	33	0	0	5	5	
RENO	52	30	58	26	41	-1	1.6	1.0	1.6	1.5	69	4.2	120	45	17	0	0	5	0	
WINNEMUCCA	50	28	56	21	39	0	1.6	1.0	1.6	1.4	3.0	3.0	52	83	35	0	0	5	2	
NH CONCORD	52	29	60	16	40	0	1.6	1.0	1.6	3.0	268	11.4	178	79	38	0	0	5	4	
NJ ATLANTIC CITY	61	42	71	28	49	2	1.6	1.0	1.6	6.7	90	38.0	124	98	56	0	0	4	3	
NM ALBUQUERQUE	63	34	70	25	51	3	1.6	1.0	1.6	4.5	45	35.1	98	86	51	0	0	2	2	
CLOVIS	67	39	76	29	53	4	1.6	1.0	1.6	4.3	231	10.2	138	62	19	0	0	4	3	
ROSWELL	73	40	83	36	57	5	1.6	1.0	1.6	5.1	129	22.4	137	59	21	0	0	1	1	
NY ALBANY	52	34	61	22	43	1	1.6	1.0	1.6	3.2	117	15.8	172	60	17	0	0	0	0	
BINGHAMTON	49	34	57	22	41	0	1.6	1.0	1.6	5.1	71	33.4	108	94	48	0	0	3	3	
BUFFALO	50	38	57	29	44	1	1.6	1.0	1.6	6.3	63	33.9	106	88	52	0	0	3	4	
NEW YORK	59	44	70	35	51	1	1.6	1.0	1.6	6.4	86	32.7	104	90	55	0	0	3	4	
ROCHESTER	52	38	59	26	45	1	1.6	1.0	1.6	7.5	95	46.7	128	83	48	0	0	2	1	
SYRACUSE	49	34	55	20	41	-2	1.6	1.0	1.6	4.8	80	29.6	110	85	50	0	0	2	4	
NC ASHEVILLE	55	33	62	25	44	-4	1.6	1.0	1.6	6.3	83	31.5	94	97	55	0	0	3	4	
CHARLOTTE	59	36	70	30	48	-4	1.6	1.0	1.6	4.3	52	43.2	103	97	47	0	0	4	2	
GREENSBORO	58	36	68	28	47	-4	1.6	1.0	1.6	3.6	50	41.5	109	92	45	0	0	2	3	
HATTERAS	66	55	78	50	60	-2	1.6	1.0	1.6	2.6	34	46.9	125	87	41	0	0	3	1	
NEW BERN	66	45	74	37	56	-1	1.6	1.0	1.6	6.6	54	40.8	85	91	64	0	0	0	3	
RALEIGH	61	37	69	29	49	-4	1.6	1.0	1.6	15.3	152	57.1	120	94	53	0	0	2	1	
WILMINGTON	67	44	76	39	56	-2	1.6	1.0	1.6	3.4	50	42.6	116	91	42	0	0	3	3	
ND BISMARCK	43	22	51	16	33	0	1.6	1.0	1.6	19.7	206	55.5	116	92	46	0	0	3	0	
FARGO	40	24	52	18	32	-1	1.6	1.0	1.6	1.9	81	13.5	93	89	48	0	0	7	0	
GRAND FORKS	36	20	47	12	28	-3	1.6	1.0	1.6	7.8	228	19.1	103	85	56	0	0	6	1	
WILLISTON	39	21	52	15	30	-1	1.6	1.0	1.6	3.3	97	19.3	113	84	58	0	0	7	0	
OH AKRON-CANTON	52	38	56	28	45	1	1.9	1.3	1.9	7.9	118	9.9	76	90	58	0	0	3	0	
CINCINNATI	56	40	62	28	48	2	1.9	1.3	1.9	132	31.8	101	90	56	0	0	3	5		
CLEVELAND	52	38	55	26	45	1	1.9	1.3	1.9	11.5	179	35.8	102	90	57	0	0	4	3	
COLUMBUS	53	39	57	27	46	2	1.9	1.3	1.9	7.2	115	36.4	118	81	50	0	0	3	5	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 10, 1984

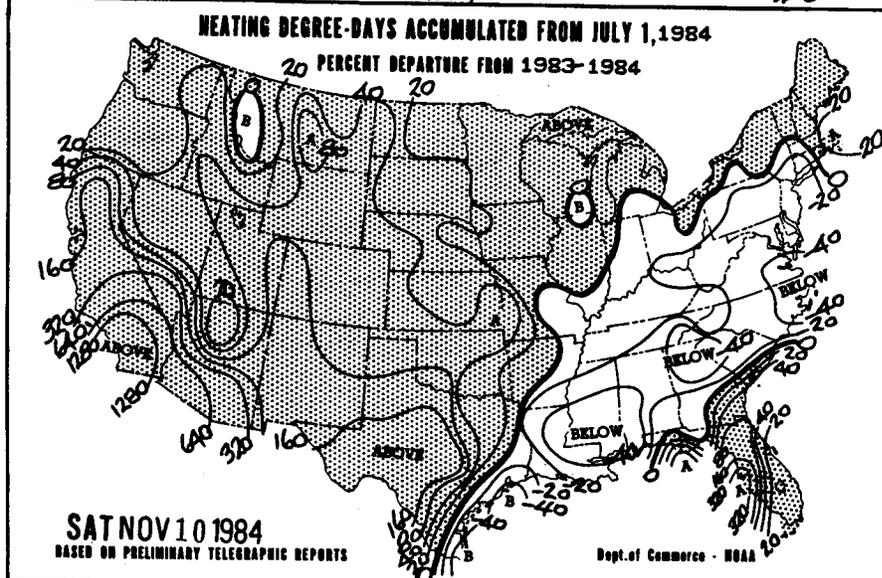
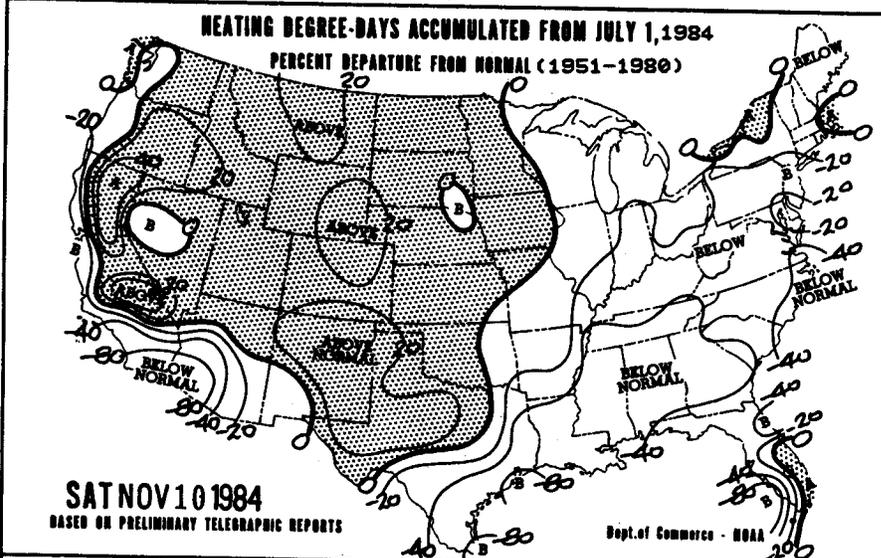
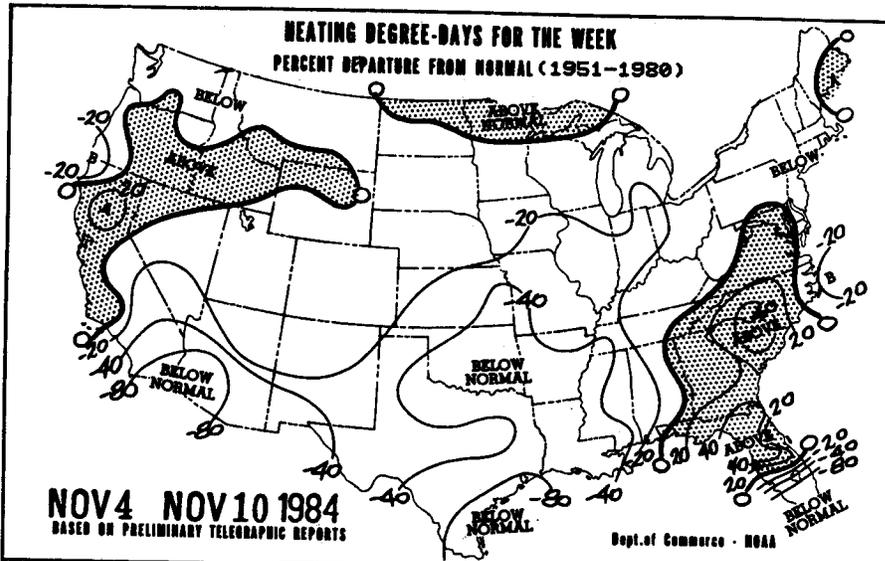
STATES AND STATIONS	TEMPERATURE °F					PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept. 1	PCT. NORMAL SINCE Sept. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE		PRECIPITATION	
																		°F	°F	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	53	38	58	28	45	0	1.4	.8	.9	8.5	162	30.4	100	89	57	0	2	3	1	0	
TOLEDO	53	37	60	22	45	3	.7	.2	.3	5.1	99	26.5	96	95	64	0	2	3	0	0	
YOUNGSTOWN	51	38	54	29	45	2	2.0	1.4	.8	7.3	110	33.3	102	96	63	0	2	3	0	0	
OK OKLAHOMA CITY	69	49	76	36	59	7	0	-.4	0	7.8	117	23.5	82	78	28	0	2	3	0	0	
TULSA	71	50	79	38	60	8	0	-.6	0	11.0	127	38.5	109	78	30	0	0	0	0	0	
OR ASTORIA	54	42	57	39	48	0	3.8	1.6	2.2	16.7	134	52.3	102	88	66	0	0	0	0	0	
BURNS	44	23	46	14	34	5	.4	-.2	.3	1.6	90	8.9	141	92	67	0	7	0	0	0	
MEDFORD	54	41	64	36	48	5	.5	-.2	.3	4.2	126	11.7	81	97	64	0	0	0	0	0	
PENDLETON	54	37	61	32	45	2	.2	-.1	.1	2.0	96	10.4	108	83	49	0	1	0	0	0	
PORTLAND	56	43	59	36	49	2	1.3	-.2	.6	9.5	151	29.2	106	93	62	0	0	0	0	0	
SALEM	54	37	59	31	46	0	2.1	-.8	1.0	10.8	161	34.1	116	98	70	0	2	6	1	2	
PA ALLENTOWN	58	38	66	25	48	3	.7	-.1	.5	6.1	75	48.4	127	78	37	0	3	4	1	1	
ERIE	53	41	58	28	47	3	1.7	-.8	.7	9.1	108	32.1	95	89	52	0	3	4	2	1	
HARRISBURG	55	37	63	26	46	1	1.1	-.3	.6	3.9	53	38.4	114	88	41	0	1	2	1	1	
PHILADELPHIA	59	41	68	30	50	1	.8	-.7	.7	5.2	72	40.6	113	79	40	0	2	3	3	1	
PITTSBURGH	53	39	57	31	46	2	2.0	1.4	1.1	6.4	106	31.3	97	93	55	0	1	2	1	1	
SCRANTON	53	37	62	23	45	1	.7	-.1	.4	4.6	65	34.6	113	84	46	0	2	3	5	2	
RI PROVIDENCE	57	38	68	28	48	1	.6	-.4	.6	6.6	77	44.1	116	81	48	0	3	4	2	1	
SC CHARLESTON	66	44	74	35	55	4	.6	-.1	.6	7.6	90	44.8	95	88	48	0	3	2	1	0	
COLUMBIA	64	35	75	27	50	4	.2	-.4	.1	2.7	23	42.2	96	97	45	0	3	1	1	0	
FLORENCE	63	38	73	30	51	6	.2	-.5	.1	1.1	30	38.4	97	97	49	0	3	2	1	0	
GREENVILLE	60	37	69	29	48	6	1.1	-.4	.6	4.9	55	54.7	123	86	43	0	3	2	1	0	
SD ABERDEEN	45	25	56	16	35	1	.1	-.1	.6	3.7	139	20.7	122	86	51	0	6	6	0	0	
HURON	51	26	60	19	38	2	.2	-.2	.4	4.3	143	29.0	164	82	43	0	6	6	0	0	
RAPID CITY	50	25	61	11	38	0	.5	-.4	.4	1.9	95	14.9	96	71	37	0	5	2	1	0	
SIoux FALLS	53	28	63	20	41	4	.8	-.2	.7	7.9	94	43.5	98	89	44	0	5	2	1	0	
TN CHATTANOOGA	61	39	67	29	50	4	1.0	-.1	.8	5.0	108	27.7	121	76	40	0	5	2	1	0	
KNOXVILLE	62	39	68	30	51	0	2.4	1.5	1.5	12.8	179	50.1	114	89	46	0	2	2	3	1	
MEMPHIS	68	50	74	41	59	6	1.0	-.3	1.0	8.7	120	49.7	120	86	46	0	1	4	3	2	
NASHVILLE	62	43	72	31	53	2	0	-.4	0	9.1	156	17.5	81	69	28	0	0	0	0	0	
TX ABILENE	72	49	81	38	60	5	0	-.2	0	4.1	125	17.1	93	55	19	0	0	0	0	0	
AMARILLO	68	40	79	35	54	6	0	-.5	0	11.2	145	21.2	75	88	43	0	0	0	0	0	
AUSTIN	77	56	83	46	66	6	.6	-.4	.6	20.2	184	52.6	116	90	48	0	0	0	0	0	
BEAUMONT	78	59	82	49	68	5	0	-.4	0	20.4	220	38.4	163	91	53	0	0	0	0	0	
BROWNSVILLE	83	64	85	55	74	4	0	-.4	0	10.7	109	20.7	74	96	53	0	0	0	0	0	
CORPUS CHRISTI	80	61	84	52	71	4	0	-.4	0	4.7	90	11.9	73	88	36	0	0	0	0	0	
DEL RIO	75	54	83	45	65	3	0	-.1	0	4.3	191	15.0	208	56	16	0	0	0	0	0	
EL PASO	76	47	81	36	61	7	0	-.1	0	7.6	120	25.5	96	84	35	0	0	0	0	0	
FORT WORTH	75	52	83	42	63	5	0	-.4	0	14.8	160	31.1	91	80	53	0	0	0	0	0	
GALVESTON	75	65	78	56	70	5	.1	-.5	.1	20.5	212	43.7	112	79	40	0	0	0	0	0	
HOUSTON	79	56	84	45	67	5	0	-.2	0	1.8	44	11.5	68	59	18	0	0	0	0	0	
LUBBOCK	72	42	82	37	57	6	0	-.1	0	3.9	105	13.3	103	74	20	0	0	0	0	0	
MIDLAND	73	44	82	36	58	4	0	-.3	0	6.7	123	14.4	85	89	29	0	0	0	0	0	
SAN ANGELO	73	46	82	36	59	2	0	-.6	0	7.0	95	19.5	74	85	39	0	0	0	0	0	
SAN ANTONIO	79	55	89	41	67	5	0	-.5	0	11.1	109	28.5	86	92	48	0	0	0	0	0	
VICTORIA	80	58	85	47	69	5	0	-.6	0	13.2	188	27.6	100	93	53	0	0	0	0	0	
WACO	74	51	82	39	62	3	0	-.4	0	7.8	120	17.6	71	83	29	0	0	0	0	0	
WICHITA FALLS	73	48	82	40	61	6	0	-.2	0	3.0	113	8.4	87	72	31	0	0	0	0	0	
UT BLANDING	54	29	61	20	41	0	0	-.2	0	1.5	74	11.7	130	67	25	0	5	1	0	0	
CEDAR CITY	58	32	66	20	45	3	0	-.2	0	6.2	254	20.0	153	84	43	0	4	1	0	0	
SALT LAKE CITY	53	36	61	32	44	2	0	.5	.2	5.0	113	11.7	130	67	25	0	4	1	0	0	
VT BURLINGTON	49	34	58	22	42	2	1.3	.6	-.9	6.1	88	31.4	106	81	48	0	1	3	4	0	
VA NORFOLK	62	47	72	39	55	2	.4	-.4	.3	2.9	33	40.2	100	83	50	0	0	0	0	0	
RICHMOND	62	37	70	29	50	2	.1	-.7	-.1	4.1	50	41.3	107	84	42	0	3	2	2	0	
ROANOKE	59	37	71	29	48	2	1.2	.5	1.0	4.1	50	40.2	107	84	42	0	3	2	2	0	
WA COLVILLE	43	31	48	26	37	1	.4	-.4	.3	5.3	70	40.2	116	81	40	0	2	4	3	1	
QUILLAYUTE	52	39	56	32	46	1	2.2	-.9	.7	3.1	118	20.3	150	88	74	0	4	3	0	0	
SEATTLE-TACOMA	52	42	53	38	47	1	1.5	-.3	.7	22.6	111	88.7	113	99	78	0	1	7	2	1	
SPOKANE	46	32	49	28	39	2	.5	-.7	.7	7.5	104	28.2	99	93	61	0	0	5	3	0	
YAKIMA	51	29	55	24	40	0	.5	-.2	.4	2.7	112	13.3	105	96	63	0	4	3	0	0	
WV BECKLEY	53	36	60	24	45	0	.5	-.8	.7	1.6	143	6.8	113	87	55	0	5	3	0	0	
CHARLESTON	58	40	63	27	49	1	1.7	1.1	.5	5.5	82	35.4	96	90	54	0	3	5	5	1	
HUNTINGTON	57	40	62	26	48	0	1.3	-.7	.7	8.2	126	34.4	92	90	44	0	3	4	2	1	
PARKERSBURG	57	42	60	29	49	2	1.8	1.2	.6	9.0	143	34.0	95	88	43	0	3	5	5	3	
WI GREEN BAY	47	32	56	23	39	2	.9	-.4	.5	6.5	113	27.9	76	99	55	0	3	5	5	1	
LA CROSSE	49	31	60	25	40	0	.5	-.2	.4	12.2	210	33.8	133	88	51	0	4	4	1	0	
MADISON	48	30	56	19	39	0	.8	-.3	.7	8.1	138	29.9	106	88	52	0	4	3	1	0	
MILWAUKEE	51	35	60	26	43	2	1.5	1.1	1.5	9.9	168	30.5	109	85	56	0	4	2	1	0	
WAUSAU	45	29	56	21	37	2	.9	-.5	.5	10.3	181	35.2	128	91	58	0	3	1	1	0	
WY CASPER	45	26	60	21	36	0	.5	-.1	.2	12.3	184	38.0	130	92	55	0	5	3	0	0	
CHEYENNE	49	26	60	17	38	1	.2	-.2	.2	1.5	76	12.1	115	82	43	0	7	2	0	0	
LANDER	46	24	60	17	35	1	.2	-.2	.2	2.2	112	17.0	135	80	31	0	7	0	0	0	
SHERIDAN	43	20	53	7	32	1	.2	0	.2	1.5	62	12.4	102	72	33	0	7	1	0	0	
PR SAN JUAN	82	76	85	74	79	1	2.5	1.2	1.0	2.4	92	13.3	97	85	46	0	7	2	0	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

HEATING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

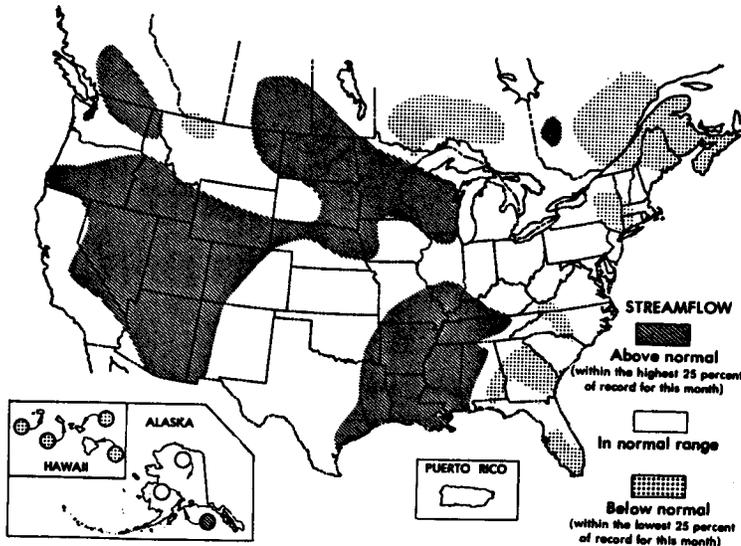
LAST DATE OF DATA COLLECTION PERIOD IS 11-10-1984
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM CUM CUM CUM, FROM FROM FROM FROM FROM, DEV DEV DEV DEV DEV, FROM FROM FROM FROM FROM, PRCT PRCT PRCT PRCT PRCT. Lists cities and their corresponding heating degree day data.



STREAMFLOW DURING OCTOBER

U.S. Geological Survey



OCTOBER STREAMFLOWS RISE IN WEST & CENTRAL UNITED STATES, DECLINE IN EAST

The U.S. Geological Survey (USGS), the Department of the Interior's monthly check of the Nation's surface and ground waters, revealed that October streamflows generally increased to normal or above-normal in much of the Mississippi River basin and in the western United States. Record- or near record-high flows occurred in 11 States from Oregon to Mississippi. Meanwhile, unseasonal declines in streamflows occurred in many East Coast States, with record- or near record-low flows occurring on two Florida streams.

Drought conditions existed in Hawaii. During October, all key streamflow stations measured well-below-average readings. Three streams, one each on the islands of Oahu, Maui, and Hawaii, recorded record-low flows.

From 174 key stations across the Nation, USGS hydrologists reported the average flows at 92 sites: well-above-average at 62 locations, and well-below-average at 20 stations.

Most above-average flows were in the Central and Northern Plains States, throughout the Mississippi River basin, and in Western States, including all six key stations in Arizona, all six in Utah, and all four in Colorado. Flows were below average at 15 stations in East Coast States, 1 station in Montana, as well as all 4 in Hawaii.

Record- or near record-high flows were recorded at 18 stations in 11 States: four sites in Louisiana, three in Utah, two each in Arkansas and Colorado, and one each in Idaho, Iowa, Minnesota, Mississippi, Nevada, Oregon, and Wyoming.

Hai C. Tang, of USGS in Reston, VA, said flows at key stations on two western rivers, the Humboldt River at Palisade, NY, and the Snake River at Weiser, ID, ranged above-normal for the 28th consecutive month.

Three major U.S. rivers (the Mississippi, St. Lawrence, and Columbia) reflected general conditions across the Nation, Tang said. Their combined average flow of 474 billion gallons per day (bgd) was 15 percent above average for October, up 9 percent from September. These rivers drain more than half of the conterminous 48 States, and serve as a convenient check on the overall status of the Nation's water resources.

Tang said October water reservoirs were generally average or above in the Central and Western States, but were generally average or just below average in States east of the Mississippi River basin.

The New York City reservoir system on the Delaware River was 15 percent below normal. The Hartford, CN, reservoir was 13 percent below average. In the West, the combined contents of lakes Meade and Mohave in Arizona were 30 percent above average. In California, the combined contents of 10 index reservoirs were 19 percent above average.

Ground water levels across the Nation varied, with record-highs measured at Chapel Hill, NC, and Steptoe, NV.

The U.S. Geological Survey, in cooperation with State and local organizations, routinely gathers data on the quantity and quality of surface and ground water resources from more than 60,000 hydrologic stations around the Nation.

Additional information on the Nation's streamflows:

* **FIVE LARGE RIVERS:** The Mississippi River at Vicksburg, MS, was 27 percent above the long-term average with 242 bgd during October, up 37 percent from September. The St. Lawrence River near Massena, NY, was 7 percent above average with 175 bgd, down 9 percent from September. The Ohio River at Louisville, KY, averaged 23 bgd, equal to the average but 20 percent above September. The Missouri River near Hermann, MO, averaged 50 bgd, 30 percent more than the average and 16 percent above September. The Columbia River at the Dalles, OR, averaged 58 bgd, 3 percent below average and 12 percent below September.

* **MINNESOTA:** Streamflows increased sharply, with three stations in West-Central Minnesota having record-high October flows. New October records were measured on the Pomme de Terre at Appleton, the Chippewa River near Milan, and the Minnesota River at Montevideo.

* **TEXAS:** Increased streamflows marked relief from a two-year-long dry spell. All index stations reported normal or above-normal flows.

National Agricultural Summary

November 5 to 11

HIGHLIGHTS: This week's open weather aided row crop harvesting and small grain seedings in many areas. Producers in the Delta States had 4-6 days suitable for fieldwork. Even with the good weather, harvesting of most crops continues to lag behind last year and the average. Soil moisture remained adequate to surplus across much of the Nation.

Winter wheat seeding was 91% complete, with 76% emerged; still behind the normal in the eastern Corn Belt and Delta States. Soybeans were 67% combined, 18 points behind normal. Corn harvest was 79% complete, 4 points behind the average. Sorghum was 83% harvested, compared with the 88% average. Cotton bolls opened on 90% of the acreage, and 45% was picked. Normally, 96% has open bolls and 59% is harvested. Rice harvesting reached 98% complete, 1 point behind the average. Pastures continued to improve in almost all areas, although additional moisture is needed in some areas. Livestock rated fair to good, with some supplemental feeding occurring in northern areas.

SMALL GRAINS: Winter wheat seeding in the 15 major producing States reached 91% completion, compared with the 94% average. Some seeding progress was made due to open weather. Illinois, Indiana, and Missouri continued to lag behind normal, although they were able to slightly close the gap. Seeding was virtually complete in the Plains. Plants emerged on 76% of the acreage, a gain of only 5 points from last week, 8 points behind last year and the average. Kansas wheat was mostly in good condition, with 95% seeded and 85% emerged. Montana wheat rated mostly fair, with fair to light wind damage. Texas seeding made good progress as fields dried enough for growers to get equipment in the fields. Rains benefited small grain growth and development.

CORN: The corn harvest continued to drop behind last year and the average. Only 19% was completed in the 17 major producing States, compared to 94% last year and the 83% average. Almost all States except Georgia and North Carolina were behind in their harvest.

SOYBEANS: Harvesting reached 67% in the 18 major producing States, 16 points behind last year's 83%, 18 points behind the average. Combining was behind in all States except Georgia and South Carolina. There were some reports of mold, mildew, and shattering in fields due to excess moisture.

COTTON: Bolls opened on about 90% of the acreage compared with 99% last year and the 96% average. Harvest was 45% complete in the 14 major producing States, well behind last year's 61% and the 59% average. Only Arizona, California, and Oklahoma were ahead of last year and the average. In the Delta, fair weather helped the cotton harvest but more open weather is needed.

OTHER CROPS: Sorghum harvest was 83% complete in the 7 major States, 6 points behind last year and 5 points behind the average. The Texas harvest advanced rapidly across the Plains. Winds caused some lodging in a few remaining fields.

Rice harvest neared completion in all States. Arkansas was the only exception, 4 points behind both a year ago and average.

Tobacco harvest was complete in South Carolina, and burley stripping was active in Tennessee. North Dakota's sunflower harvest was virtually complete. Fall tillage in preparation for Spring planting was behind last year and the average in most areas.

FRUITS AND NUTS: In Florida, reports of dry grove conditions have many growers irrigating. Cool weather slowed foliage growth. Granny Smith apples were packed in California. California grape growers began pruning vineyards, with a few being pulled out. Navel orange harvest continued at a slower pace, color and sugar levels have improved. Almond pruning started. Pecan and walnut harvest neared completion. In Texas, many nuts have high moisture content due to recent rains.

VEGETABLES: Scattered showers occurred in Florida's vegetable areas during the week. In Texas' Rio Grande Valley, tomato and bell pepper harvest continues. Reported onion, lettuce, and celery harvests progressed well. There were reports of insect problems in many fields. In the San Antonio-Winter Garden area, vegetable prospects improved after recent rains. Lettuce supply was heavy in the San Joaquin Valley of California, with harvest starting in the Palo Verde Valley. Fall potato digging neared completion in the Tulelake-Butte Valley.

PASTURES AND LIVESTOCK: Livestock rated mostly fair to good condition with some reports of light supplemental feeding. In a few areas, cattle are moving to winter pastures. Pastures and ranges continue to improve and green-up, but additional moisture is need for continued growth and development.

CROP PROGRESS

FOR WEEK ENDING NOV 11

COTTON			
	% BOLLS OPENING		
	1984	1983	AVG.
ALA	100	100	100
ARIZ	100	100	100
ARK	98	100	100
CALIF	100	100	100
GA	98	97	98
LA	100	100	100
MISS	100	100	100
MO	100	100	100
N MEX	100	100	100
N C	100	100	100
OKLA	100	90	99
S C	100	100	100
TENN	100	100	100
TEX	81	98	93
14 STATES	90	99	96

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

COTTON			
	% HARVESTED		
	1984	1983	AVG.
ALA	75	87	82
ARIZ	65	55	55
ARK	52	95	85
CALIF	80	70	78
GA	72	72	80
LA	55	87	86
MISS	52	91	86
MO	53	98	91
N MEX	35	29	46
N C	64	89	77
OKLA	30	10	20
S C	68	98	90
TENN	52	93	82
TEX	28	46	42
14 STATES	45	61	59

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

	CORN		
	% HARVESTED		
	1984	1983	AVG.
COLO	74	92	77
GA	99	98	98
ILL	80	98	92
IND	65	96	81
IOWA	92	99	84
KANS	95	98	90
KY	65	90	89
MICH	70	85	78
MINN	87	95	75
MO	85	93	83
NEBR	85	96	78
N C	97	97	96
OHIO	45	80	80
PA	46	70	68
S DAK	82	98	87
VA	80	88	88
WIS	60	82	65
17 STATES	79	94	83

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

RICE			
	% HARVESTED		
	1984	1983	AVG.
ARK	95	99	99
CALIF	99	100	99
LA	100	100	100
MISS	98	100	100
TEX	100	100	100
5 STATES	98	100	99

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

SORGHUM			
	% HARVESTED		
	1984	1983	AVG.
COLO	72	99	80
KANS	85	85	80
MO	82	89	84
NEBR	90	96	100
OKLA	45	50	65
S DAK	91	100	94
TEX	85	93	94
7 STATES	83	89	88

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

SOYBEANS			
	% HARVESTED		
	1984	1983	AVG.
ALA	61	72	77
ARK	36	66	64
GA	54	49	57
ILL	76	100	99
IND	75	99	95
IOWA	94	98	98
KANS	80	75	90
KY	35	77	80
LA	66	81	82
MICH	80	95	91
MINN	95	94	95
MISS	40	64	70
MO	57	83	86
NEBR	90	96	100
N C	27	25	37
OHIO	70	98	95
S C	25	22	31
TENN	30	71	73
18 STATES	67	83	85

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

WINTER WHEAT			
	% PLANTED		
	1984	1983	AVG.
CALIF	30	40	39
COLO	98	98	100
IDAHO	100	100	100
ILL	60	97	97
IND	80	99	97
KANS	95	95	98
MO	61	87	86
MONT	100	100	100
NEBR	100	100	100
OHIO	90	100	100
OKLA	90	90	95
OREG	92	96	96
S DAK	100	100	100
TEX	92	88	88
WASH	100	100	100
15 STATES	91	94	95

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

WINTER WHEAT			
	% EMERGED		
	1984	1983	AVG.
CALIF	15	20	23
COLO	94	84	92
IDAHO	98	98	96
ILL	50	89	88
IND	70	94	85
KANS	85	85	90
MO	52	75	73
MONT	65	100	90
NEBR	100	100	100
OHIO	80	95	85
OKLA	55	80	70
OREG	77	90	84
S DAK	100	100	100
TEX	74	69	72
WASH	95	100	97
15 STATES	76	84	84

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures were 2 to 4° below normal. General precipitation over the State, rainfall 0.06 to 1.82 in.

Fieldwork: 4.9 days. Soybeans harvested 61%, 72% 1983, 77% average. Cotton bolls open 100%, 100% 1983, 100% average. Cotton harvested 75%, 87% 1983, 82% average. Sorghum 93%, 84% 1983, 87% average. Wheat seeded 47%, 64% 1983, 68% average. Activities: harvesting cotton, soybeans, sorghum, and fall vegetables; planting small grains and winter grazing; and routine care of livestock and poultry. Conditions: soybeans fair; cotton, wheat, and livestock fair to good; sorghum and pastures mostly fair to good.

ARIZONA: Mostly sunny skies prevailed except isolated light showers over north and partly cloudy in south 8th. Cooler air spread over State last half week lowering temperatures 5 to 10°. Minimums dipped into teens in high country, 20's at 5,000 ft., 30's and 40's in lower deserts by 10th. Averages varied from 2° below normal to 6° above.

Cotton 65% picked, 55% last year and average. Some growers already plowed down stalks. Alfalfa harvest nearly complete. Sheeping-off increased. Corn and sorghum growers were completing harvest. Sesame harvest active. Seedbed preparation for small grains active. Lettuce packing light. Beets, broccoli, cabbage, greens, endive, rapini, green onions, radishes, spinach, turnips harvested Salt River Valley. Carrot harvest complete Willcox area. Navel orange harvest well underway; few tangerines picked. Lemons, grapefruit harvests active.

ARKANSAS: A mild week with a sharp cold front coming through the State on the 9th and 10th. Temperatures up to 7° above normal. High 82°, low 28°. Most rain 1.80 in., least trace or none.

Soil moisture generally surplus. Days favorable for fieldwork: 5.3. Cotton fair to poor; bolls open 98%, all in 1983 and average; harvested 52%, 95% 1983, 85% average. Rice harvested 95%, virtually done 1983 and average. Soybean condition fair, fields muddy; shedding leaves 91%, virtually all 1983 and average; harvested 36%, 66% 1983, 64% average. Sorghum fair; harvested 91%, virtually all 1983 and average. Pastures and cattle good condition.

CALIFORNIA: The more significant precipitation totals were restricted to the northern half of State and the coastal locations. The series of storm systems that moved through northern and central areas helped keep average temperatures below normal for northern districts and above normal for southern districts. Rice harvest, burning continues, 99% harvested, 100% last year, 99% average. Good yields. Cotton harvest 80% complete, 70% last year, 78% average. Some growers intend second-pick. Winter wheat 30% planted, 40% last year, 39% average; emerged at 15%, 20% last year, 23% average. Field preparation, small grain planting. Corn, milo harvests continue, wet conditions, central valley. Few dry bean fields remain for harvest. Some digging sugarbeets. Alfalfa mostly finished, good quality last cutting; new plantings emerging. Granny Smith apples packed. Avocado harvest continues. Date

harvest reached midpoint. Grape growers began pruning, a few vineyards pulled out. Kiwi harvest continuing, olive harvest winding down. Deciduous fruit growers pruned, applied herbicides, fumigated ground to be planted, pulled some old orchards. Navel orange harvest continued, slower pace, color and sugar levels improving. Lemon and grapefruit packing continued in Desert. Fairchild and Satsuma tangerines packed. Pruning started in almonds. Pecan and walnut harvest nearly complete. Broccoli fairly heavy supply central coast; moderate San Joaquin Valley, Southern California. Desert cantaloupe harvest heavy. Carrots light to moderate supply. Cauliflower light supply central coast. Moderate harvest, south coast, San Joaquin Valley. Lettuce heavy supply San Joaquin Valley, very light supply central coast, harvest starting Palo Verde Valley. Green bell pepper harvest nearly complete. Digging fall potatoes nearly complete Tulelake-Butte Valley. Digging sweetpotatoes nearly complete. Packing active. Market tomato harvest light. Rain beneficial, range, pastures. Grass continues green-up, however, more rain needed saturate soil. Supplemental feeding active some areas. Calving, lambing continue.

COLORADO: Mostly light rain or snow with high winds and thunderstorms on 14th and 15th. Precipitation was mostly less than 0.02 of an in. with remainder of the period dry. Temperatures were 3 to 6° above normal.

Winter wheat emergence is near completion with 94% emerged; 1983 84%; average 92%. Corn harvest is picking up after a slow start with 74% harvested; 1983 92%; average 77%. Sorghum harvest is 72% complete; 1983 99%; average 80%. Sugarbeet harvest is at 86%; 1983 100%; average 97%. There were 5.6 days suitable for fieldwork.

FLORIDA: Scattered light showers along the east coast the 5th and 6th. Spotty light showers again northern area and east coast during the weekend. Otherwise dry. Near normal temperatures.

Few scattered showers beneficial. More rain is needed for small grain seeding. Soybean harvest well advanced most areas. Peanut harvest is nearing completion. Cotton harvest is active, ahead of schedule. Sugarcane cutting is active. Yields are good. Small grain seeding delayed by dry soils. Land preparation active for late seedings. Hay harvest winding down. Preparation of winter pastures is in full swing as permanent pasture conditions continue a steady decline. Pastures remain poor to fair across most of the central and northern Peninsula, and the Panhandle. Conditions remain mostly good however in the lower southern Peninsula. Cattle condition remains good in the south and varies fair to good elsewhere. Dry grove conditions, many caretakers irrigating. Cool weather slowing foliage growth, good early fruit color, fresh early orange harvest active, grapefruit movement steady, caretaking slow due to citrus canker concern. Scattered showers occurred vegetable areas during week. A cold front brought cooler temperatures, daytime highs were in the 70's to 80's and nighttime lows were in the 50's and 60's. Shipments for most vegetable crops increased considerably during the week. Crops showing significant increases

are snap beans, celery, cucumbers, eggplant, escarole, lettuce, peppers, squash, tomatoes. Light harvest is getting underway for cabbage, carrots, Chinese cabbage. Supplies of sweet corn and radishes continue steady. Early transplanted fields are making good growth with some bloom appearing.

GEORGIA: Overall cool and dry across State except for rain that moved across during weekend. Temperatures averaged mid and upper 40's in extreme north to low and mid 50's in central and south or 3 to 9° below normal. Rainfall totals were just below 1.00 in. in extreme north, mostly below 0.50 in. in central and south, and under 0.25 in. in extreme southeast.

Soil moisture 44% adequate, 33% short, 22% very short. Average days suitable for fieldwork: 5.5. Main activities harvesting soybeans, cotton, pecans; seeding small grains. Corn 99% harvested, 98% last year and average. Cotton 98% bolls open this year and average, 97% last year, 72% harvested this year and last, average 80%. Condition 22% excellent, 49% good, 27% fair. Peanuts dug 100%, 99% last year and average; 99% threshed this year and average, 98% last year. Soybeans 99% dropping leaves, 98% last year and average; 54% harvested, 49% last year, average 57%; condition 17% good, 52% fair, 26% poor, 5% very poor. Apples 99% picked this year, last year and average. Pecans 37% harvested, 23% last year, average 38%, condition 29% good, 53% fair, 14% poor, 3% very poor. Wheat 31% seeded, 37% last year, average 45%. Rye 60% planted, 79% last year, average 77%. Other small grains 54% seeded, 66% last year, average 68%. Grain sorghum condition 24% good, 59% fair, 16% poor. Hay condition 14% good, 48% fair, 32% poor, 4% very poor. Pasture condition 18% good, 41% fair, 34% poor, 6% very poor. Cattle 3% excellent, 42% good, 48% fair, 7% poor. Hogs 3% excellent, 61% good, and 33% fair.

HAWAII: Light to heavy showers enveloped the islands during the week benefitting most agricultural crops. Rainfall was heaviest in the western part of the island chain with lighter, more sporadic, amounts precipitating in the eastern half. The major vegetable regions of Kula and Waimea did receive some shower activity late in the week. While rainfall was not enough to alleviate the water shortage problem, it may prevent a further tightening of current restrictions. On the 9th the Governor declared over half of Hawaii Island a disaster area due to the dry conditions. The declaration will make funds from federal and State agencies available to help ease the water shortage. Only the eastern tip of the island is not affected by the declaration. Plantings of most vegetables are down due to inadequate water supplies. Remaining crops are making fair to good growth as the days are cooler. Head lettuce supplies are expected to increase sharply to moderate volumes in the coming weeks, but spotted wilt problems may affect these projections. Head cabbage production will be relatively steady. The Chinese cabbage harvest has been seriously affected by the water shortage. Quality and yield are down and some plantings may wilt in the field. Banana production is active and will increase in the coming months. Papaya production is forecast to begin its seasonal increase. Recent rains have benefitted both fruit crops.

IDAHO: A westerly flow of air brought moderate temperatures and widespread precipitation to the State. Temperatures averaged near to slightly

above normal over most of the State. Precipitation was widespread in the form of rain at lower elevations. Reports of from 5 to 10 in. snow were common in the central mountains.

The 1985 winter wheat crop was 98% emerged, compared to the 98% last year and 96% average. Sugarbeet harvest was nearing completion in most areas. Livestock were reported to be in good condition with adequate supply of feed. Soil moisture was in good supply due to recent rains.

ILLINOIS: Temperatures normal to 4° above normal. Precipitation 0.11 to 2.20 in.

Soil moisture 43% adequate, 57% surplus. Corn harvested 80%, last year 98%, average 92%. Soybeans harvested 76%, last year 100%, average 99%. Sorghum harvested 60%, last year 96%, average 92%. Winter wheat seeded 60%, last year 97%, average 97%; emerged 50%, last year 89%, average 88%; condition, 16% excellent, 54% good, 18% fair and 12% poor. Fall tillage of 1985 intended corn and soybean acreage 25%, last year 56%, average 51%. Pasture condition 13% excellent, 70% good, 16% fair, 1% poor; supplying 58% livestock roughage requirements, last year 39%, average 40%. Days suitable for fieldwork: 5.3.

INDIANA: Temperatures averaged close to seasonal levels for the week. Precipitation widespread. Weekly totals generally heavy enough to dampen harvest activities. Four inch bare soil temperatures range from middle 40's north to lower 50's south.

Fieldwork averaged 4.5 days. Topsoil and subsoil moisture adequate to surplus. Corn 65% harvested, 1983 96%, average 81%. Corn moisture 24%, 1983 20%. Soybeans 75% combined, 1983 99%, average 95%. Soybean moisture 15%. Wheat 80% seeded, 1983 99%, average 97%. Wheat 70% emerged, 1983 94%, average 85%. Wheat stands 15% fair, 68% good, 17% excellent. Wheat condition 17% poor, 68% fair, 15% good. Spring cropland 23% tilled, 1983 47%, average 38%. Tobacco 15% processed for sale, 1983 15%.

IOWA: Precipitation was well above seasonal normals over the northern two-thirds of State while temperatures averaged slightly above normal.

Days suitable for fieldwork: 5.9. Corn harvesting 92% complete; 99% last year; 84% normal. Corn moisture content 19.6%. Soybean harvesting 94% complete; last year 98%; normal 98%. Soybean moisture content 14.2%. Sorghum acreage harvested 94% complete; last year 99%; normal 91%. Fall tillage 38% complete; 60% last year. Fall fertilizer application 35% complete; 55% last year. Availability of boxcars and trucks 4% short, 86% adequate, 10% surplus. Topsoil moisture conditions 2% short, 77% adequate, 21% surplus. Subsoil moisture conditions 14% short, 77% adequate, 9% surplus. Livestock in good condition.

KANSAS: Precipitation averaged 0.10 in. north central to little or none elsewhere. Temperatures averaged 45° northwest, 53° southeast and 48 to 51° elsewhere. These were 3 to 5° above normal.

Corn harvested 95%, 98% last year, 90% average. Sorghum harvested 85%, 85% last year, 80% average. Soybeans 80% harvested, 75% last year, 90% average. Wheat planted 95%, 95% last year, 98% average. Wheat emerged 85%, 85% last year, 90% average. Topsoil moisture mostly adequate. Pasture and rangeland poor to good. Days suitable for fieldwork: 5.5.

KENTUCKY: Seasonable mild weather for week. Mean temperatures near normal ranged from mid

40's to lower 50's. Rainfall averaged from 1.00 to 2.00 in.

Some progress with corn and soybean harvest but still slowest on record. Days favorable: 3.5. Soil moisture 56 adequate, 44 surplus. Corn for grain 65% harvested, 90% last year, 89% average. Soybean 35% harvested, 77% last year, 80% average. Early tobacco stripping 24% complete, 23% last year, 30% average. Quality generally good. Houseburn damage average or less. Wheat seeding 53% complete, 85% last year, 83% average. Seeded fields generally good condition. Pasture good benefitted from rain and mild temperatures.

LOUISIANA: Rainfall amounts ranged from none to 1.67 in. Temperatures averaged from 3 to 90 above normal. High 83°, low 35°. Soil moisture adequate northwest and southeast, adequate to surplus elsewhere in the State.

Days suitable for fieldwork: 5.3. Activities included harvesting cotton, soybeans, sugarcane, pecans, and sweetpotatoes, and planting winter wheat. Cotton harvest 55% 1984, 87% 1983, 86% average. Soybeans shedding leaves 99% 1984, 100% 1983, 99% average; harvest 66% 1984, 81% 1983, 82% average. Winter wheat planting 28% 1984, 65% 1983, 63% average; emerged 21% 1984, 41% 1983, 43% average; condition fair. Sweetpotato harvest 88% 1984, 94% 1983, 96% average. Sugarcane harvested 25% 1984, 43% 1983, 41% average; condition fair. Vegetable condition fair. Pecans harvested 25% 1984, 27% 1983, 36% average. Pasture condition fair. Livestock condition fair to good.

MARYLAND AND DELAWARE: **Maryland:** The week was cool with scattered showers. The first general killing frost occurred during the week. Temperatures averaged 1 to 3° below normal. Highs were in the mid to upper 60's and lows were mostly in the mid 20's in western and northern areas and close to 30 elsewhere. Rainfall average 0.71 in. ranging from 0.19 to 2.26 in.

Farmers were able to work 5.9 days harvesting corn and soybeans and planting the final fields of small grain. Topsoil moisture remains adequate. Field corn 95% harvested, 1983 and average 95%. Soybean harvest 65%, equal to 1983, average 70%. Barley seeding 100%, equal to both last year and average. Wheat seeding 90% complete, equal to last year, average 95%. Rye 100% seeded, equal to 1983, average 95%. Oats 95% seeded, equal to 1983, average 100%.

Delaware: Weather for the week was 1 to 3° cooler than normal north and near normal central and south with scattered showers averaging 0.40 in. Days suitable for fieldwork: 6.0. Harvesting corn and soybeans and planting small grains. Soil moisture remains adequate. Corn for grain harvest, 95% complete, 1983 and average 100%. Soybean harvest 55% complete, 1983 75%, average 80%. Barley 100% seeded, equal to 1983 and average. Wheat 80% seeded, last year 75%, average 85%. Rye 85% seeded, 1983 75%, average 80%.

MICHIGAN: Temperatures averaged 2° above normal. Highs ranged from the mid-40's to mid-60's. Lows ranged from the upper teens to low 30's. Precipitation was light to moderate.

Good progress was made for fall harvest until rains slowed fieldwork late in the week. Statewide 4.5 days were suitable for fieldwork. Corn 70% harvested, 85% last year, 78% average. Soybeans 80% harvested, 95% last year, 91% average. Sugarbeet 97% harvested, 100% last year, 99% average. Fall tillage 35% complete, 45% last year, 34% average.

MINNESOTA: The week began warm and dry but ended with cooler temperatures and a mixture of rain and snow in the south. Temperatures averaged 1 to 4° below normal for the northern 1/3 of the State and near normal elsewhere. High: 63°, low: 50°. Precipitation averaged 0.41 to 1.02 in. above normal for the south central and southeast, and 0.16 to 0.36 in. below elsewhere. Greatest weekly total: 1.70 in.

Soybean harvest neared completion while the harvest of corn and sunflowers made excellent progress. The favorable weather decreased the moisture content of field corn by two percent. The ground thawed out and fall tillage picked up in many areas across the State. Chemicals and fertilizers were applied where possible. The majority of the State reported an adequate supply of topsoil moisture. The west central and southeastern areas of the State had surplus quantities. Topsoil moisture: 2% short, 66% adequate and 32% surplus. Days suitable for fieldwork: 5.1. Field corn: Harvested 87%, 1983 95%, normal 75%; moisture content 22%, 1983 19%, normal 22%; stubble plowed or tilled 50%, 1983 80%, normal 49%. Soybeans: Harvested 95%, 1983 94%, normal 95%; moisture content 15%, 1983 14%, normal 13%; stubble plowed or tilled 62%, 1983 71%, normal 67%. Sunflowers: Harvested 89%, 1983 91%, normal 85%. Sugarbeets: harvested 99%, 1983 99%, normal 99%.

MISSISSIPPI: Temperatures averaged near normal for the week, extremes 30 and 80°. Greatest weekly rainfall was 1.85 in.

Soil moisture adequate to surplus. Fieldwork 4.9 days suitable, 4.8 1983, 4.5 average. Fair weather helped soybean and cotton harvest, as well as small grain plantings. Cotton was rated in fair condition; 52% harvested, 91% 1983, 86% average. Soybeans fair condition; 40% harvested, 64% 1983, 70% average. Rice 98% harvested, 100% 1983 and average. Corn 93% harvested, 96% 1983 and average. Sorghum 96% harvested, 97% 1983, 99% average. Wheat condition fair; 40% planted, 64% 1983, 67% average. Sweetpotatoes 93% harvested, 80% 1983, 98% average. Pecans in fair condition; 36% harvested, 20% 1983, 37% average. Peanuts 92% harvested, 91% 1983, 100% average. Livestock and pasture in fair to good condition.

MISSOURI: A warm week as temperatures averaged 6° above normal. Rainfall was generally confined to the eastern third where rainfall averaged around an inch and generally less than 0.25 in. elsewhere in the States.

Days suitable for fieldwork: 4.3. Soybeans harvested 57%, 83% last year, 86% normal. Corn harvested 85%, 93% last year, 83% normal. Grain sorghum harvested 82%, 89% last year, 84% normal. Cotton harvested 53% this year, 98% last year, 91% normal. Fall tillage for spring crops 32%, 49% last year, 48% normal. Winter wheat planted 61%, 87% last year, 86% normal. Winter wheat emerged 52%, 75% last year, 73% normal. Condition of pasture 10% excellent, 59% good, 30% fair, 1% poor. Topsoil moisture supply 52% surplus, 46% adequate, 2% short.

MONTANA: Most of week's precipitation came from Pacific low pressure system that moved across southern border of State during last half of week. Heaviest amounts in southwest mountains, favored upslope areas of south central State, and in southeast. Reports of 0.50 to 1.00 in. of moisture common in these areas with 2.00 in. to 5.00 in. of new snow received. Temperatures averaged near or slightly above normal for entire week. Warmest readings occurred during first half of week as Pacific low moved across Central Rockies.

Topsoil moisture adequate except in northeast. Subsoil moisture short except in northwest and southeast. Winter wheat condition mostly fair, good in west. Wind damage none to light. About 45% of cattle and 60% of sheep receiving supplemental feed. Heaviest feeding in east and central. Range conditions mostly fair; good in west, poor in north central and east.

NEBRASKA: First half week dry. Second half wet with snow and rain. Precipitation ranged from a few hundredths to 1.50 in. Temperatures ranged from normal to 2° above normal.

Winter wheat condition 24% fair, 72% good, 4% excellent. Wheat planted 100%, 100% last year, 100% average. Wheat emerged 100%, 100% last year, 100% average. Sorghum harvested 90%, 96% last year, 85% average. Soybeans harvested 90%, 96% last year, 100% average. Corn harvested 85%, 96% last year, 78% average. Days suitable for fieldwork: 6.3. Topsoil moisture 13% short, 79% adequate, 8% surplus. Subsoil moisture 33% short, 67% adequate.

NEVADA: High pressure system off western United States and State opened the week with fair skies and pleasant near normal temperatures. During the middle of the week the pattern was changed when precipitation, accompanied by strong winds dominated the weather of northern and central areas. Small accumulations of snow fell in the high mountains. The rest of the week showed considerable precipitation in the north and central areas of the State. The southern part of the State experienced little or no precipitation. Statewide, temperatures were moderate. The extreme south was slightly above normal in temperature.

All harvesting is complete. Livestock in good to excellent condition.

NEW ENGLAND: All locations received between 0.25 and 0.75 in. early in the week. Midweek remained generally precipitation-free with the bulk of rain falling over the weekend. ME averaged 1.00 to 2.00 in. for the week. NH and CT averaged 2.00 to 2.50 in. VT, MA and RI averaged 1.50 to 2.50 in. Temperatures were slightly above normal to the north and well above normal to the south. Average temperatures ranged from the upper 30's near the Canadian Border to the low 50's along the south coast.

Cranberry harvest winding down in MA. Fall tillage active throughout the region.

NEW JERSEY: Temperatures were near normal, averaging 45° north, 49° south and 49° coastal. Extremes were 18 and 72°. Precipitation this period below normal north, and near normal south and coastal, averaging 0.33 in. north, 0.84 in. south and 0.94 in. coastal. The heaviest 24-hour total reported was 1.48 in. on the 11th to 12th.

Fieldwork: 5.0 days suitable. Harvest of some hardy vegetables continues. Farmers experienced some difficulty in completing field corn harvest due to scattered precipitation. Soybean combining is nearing completion. Potatoes, sweetpotatoes and apples available from storage. Cranberry harvest about complete. Processing apple cider is active. Fall sown grains are in good condition.

NEW MEXICO: Average temperatures little above normal. Minimum temperature 50° northern mountains. Maximum temperatures: 83° southeastern plains. Few light showers in northern mountains at midweek. Precipitation totals between none and 0.10 in.

Soil moisture supplies short to adequate. Alfalfa fair to excellent; fifth cutting nearing completion. Cotton fair to good. Corn fair to excellent; grain harvest continued. Barley good to excellent. Irrigated, dryland wheat fair to excellent. Irrigated, dryland grain sorghum fair to excellent; grain harvest continued. Pecans good to excellent; harvest continued on small scale. Apples fair to good; harvest virtually complete. Peanuts fair; harvest over half completed. Chile fair to good; red chile harvest continued. Lettuce fair; harvest continued. Cattle, sheep fair to excellent. Range fair to excellent. Cotton: Open bolls: 100%, last year 100%, average 100%. Harvested: This year 35%, last year 29%, average 46%.

NEW YORK: Above normal precipitation occurred in most areas at the beginning and end of the week. It averaged from 0.50 to 1.50 in. with locally higher amounts over 2.50 in. Temperatures at or below freezing occurred everywhere with below normal averages from the mid 30's to mid 40's.

NORTH CAROLINA: Temperatures averaged 2° below normal in coastal areas and 3 to 6° below in mountains and Piedmont areas. Precipitation ranged from 0.02 to 2.05 in. with most areas receiving between 0.25 to 0.75 in.

Soil moisture: 1% very short, 42% short, 56% adequate and 1% surplus. Days suitable for fieldwork: 5.4. Condition: soybeans 7% poor, 34% fair, 58% good, 1% excellent. Pasture 8% poor, 42% fair, 49% good, 1% excellent. Phenological stages: soybeans dropping leaves 90%, 1983 90%, average 88%. Harvest: corn for grain 97%, 1983 97%, average 96%. Soybeans 27%, 1983 25%, average 37%. Sweetpotatoes 91%, 1983 91%, average 93%. Cotton 64%, 1983 89%, average 77%. Peanuts threshed 100%, 1983 62%, average 85%. Planted: wheat 70%, 1983 66%, average 68%. Major farm activities: Harvesting soybeans, seeding small grains, combining corn, grading burley tobacco, picking cotton, preparation of land for fall seeding, tobacco plant bed preparation, sorghum harvest, digging sweetpotatoes, tending livestock, cutting firewood and general farm maintenance.

NORTH DAKOTA: The week was dry and mild with temperatures 4° below normal in the northern districts and 1° above normal in the south. Only the southwest and east central districts reported measurable precipitation averaging 0.03 in.

Harvest of sunflower and corn for grain virtually complete, both ahead of normal. Sunflower combining 95% complete versus 100 last year and 85 average. Corn harvest 98% complete compared to 100 last year and 87 average.

OHIO: Temperatures near normal. Highs low to mid-50's, lows mid- to upper 30's. Precipitation totals generally between 0.50 in. and 1.50 in. Bare soil temperatures averaged mid-40's, little frost penetration. Topsoil moisture 35% adequate, 65% surplus. Days suitable for fieldwork: 3.5. Activities harvesting corn and soybeans, planting winter wheat. Corn harvested 45% 1983, 80% 1983, 80% average; progress 17 days behind normal. Soybeans harvested 70% 1984, 98% 1983, 95% average; progress 19 days behind normal. Winter wheat planted 90% 1984, 100% 1983, 100% average; emerged 80% 1984, 95% 1983, 85% average; good condition. Pastures good condition.

OKLAHOMA: Temperatures averaged 3° above normal central to 6° above normal southwest. Precipitation averaged zero all districts except

southeast which averaged 0.01 in.

High moisture content kept most row crops from being harvested. Wheat made marked development as warmer weather induced good growth. Rain needed for continued small grain growth, particularly west, wheat and livestock good to fair; cotton, sorghum, pastures fair condition. Wheat planted: 90%, 90% 1983, 95% average. Wheat emerged: 55%, 80% 1983, 70% average. Sorghum harvested: 45%; 50% 1983; 65% average. Cotton open bolls: 100%; 90% 1983; 99% average. Cotton harvested: 30%; 10% 1983; 20% average.

OREGON: Seasonally wet and cool. Precipitation averaged 3.30 in. at coast, 2.60 in. in western valleys, and less than 0.50 in. in eastern areas. Temperatures were 4° cooler than normal in east and normal in west.

Winter wheat 92% seeded, 77% emerged, last year 96% seeded, 90% emerged. Average 96% seeded, 84% emerged. Rains west of Cascades continue to slow field activities. Grain seeding and spraying much behind normal in this region. Some potatoes and onions still in fields awaiting drier weather. Cauliflower harvest, quality good. In east, most fall grain in ground. Cool weather has slowed development of emerged crop. Rains have greened-up pastures, condition good. Livestock condition good to excellent.

PENNSYLVANIA: The statewide average temperatures was 45°, 3° above normal. Lowest readings were in the high teens in the north central section on the 8th. Highest temperatures were reported on the 6th in the Philadelphia area. Average precipitation was 1.59 in., 0.76 in. more than normal for the period. The western and central parts of the State received the greatest amounts.

Days suitable: 4.0. Moisture mostly adequate. Activities: plowing; making hay; spreading fertilizer and lime; harvesting green chop, high moisture shelled corn, corn for grain, soybeans, and apples. Soybeans 49% harvested, last year 68%. Corn for grain 46% harvested, last year 70%, average 68%. Fourth crop alfalfa 84% harvested, last year 94%. Quality of hay made mostly fair to poor. Feed from pasture mostly average.

PUERTO RICO: Island average rainfall 6.84 in. or 5.23 in. above normal. Highest weekly total 18.22 in. Highest 24-hour total 6.82 in. Temperature averaged about 78 to 77° on coasts and 73 to 70° interior divisions. Mean station temperature ranged from 61.3 to 79.3°. Extremes 91 and 53°.

SOUTH CAROLINA: Week averaged 4 to 6° colder than normal. First below freezing temperatures were reported over western and central areas. Rainfall was generally below normal except in northwestern State, amounts were heavier.

Soil moisture short to adequate. Days available for fieldwork: 5.9. Soybean condition fair: 92% shedding leaves, 97% last year, 96% average; 78% mature, 74% last year, 80% average; 25% harvested, 22% last year, 31% average. Cotton condition fair to good; 68% harvested, 98% last year, 90% average. Sorghum condition fair to good: 82% harvested, 80% last year, 84% average. Tobacco harvest complete; 94% stalks destroyed, 100% last year. Wheat condition fair to good, 26% planted, 33% last year, 47% average, 15% emerged, 20% last year, 33% average. Oats condition fair to good, 63% planted, 69% last year, 66% average, 42% emerged, 52% last year, 51% average. Rye condition fair to good: 57% planted, 66% last

year, 68% average, 40% emerged, 52% last year, 56% average. Barley condition fair to good; 66% planted, 68% last year, 70% average, 50% emerged, 52% last year, 55% average.

SOUTH DAKOTA: Average temperatures were normal or slightly above normal. Extremes: 67 and -30. Outside the Black Hills the low was 3. More than 0.30 in. of precipitation fell over the western quarter and over the extreme southeast.

Days suitable for fieldwork: 6.0. Topsoil moisture supplies adequate to surplus east, short and critically short west and adequate extreme northwest and west central. Main farming activities were crop harvesting, working cattle and calves, fencing, fertilizing and fall tillage. Dry, windy weather helped speed crop dry-down and allowed farmers into the fields. Sorghum harvested 91%, 1983 100%, average 94%. Corn harvested 82%, 1983 98%, average 87%. Winter wheat planted 100%, 1983 100%, average 100%. Winter wheat emerged 100%, 1983 100%, average 100%.

TENNESSEE: A high pressure system pushed into the State early in the week and prevailed through midweek. An intense low pressure system caused strong, gusty winds over most of the State and also brought a return of moisture at week's end. Temperatures ranged from the mid 40's to the mid 50's. Light amounts of precipitation were experienced at the beginning of the week with more significant rainfall toward week's end.

Farmers averaged 4.5 days suitable for fieldwork. Soil moisture levels: 37% surplus, 53% adequate, 10% short. Corn harvested 71%, 1983 86%, average 87%. Cotton harvested 52%, 1983 93%, average 82%. Soybeans mature: 94%, 1983 98%, average 98%; harvested: 30%, 1983 71%, average 73%. Burley tobacco stripped 45%, 1983 50%, average 58%. Wheat sown 35%, 1983 73%, average 77%. Sorghum harvested 68%. Pastures and livestock are in mostly fair to good condition. No supplemental feeding is reported.

TEXAS: Fair skies dominated this week, high pressure combined with much drier air. Low pressure system tracked across State midweek, but because lack moist Gulf air, gusty surface winds resulted. Some showers, thunderstorms northeast, southeast early weekend. Temperatures above normal. Precipitation near normal northeast and southeast, remainder State slightly below average.

Crops: Warmer, drier weather allowed producers resume fieldwork during week. Open weather permitted harvesting, planting activities progress rapidly most State. Recent rains beneficial small grain growth, development. Range, pasture conditions continue improve under milder weather. Livestock improving because good grazing. Cotton harvesting rapid progress across High Plains. Warmer weather promoted opening more large bolls. Some open cotton too wet to harvest. Fields Low Plains being harvested; many producers in area awaiting frost to continue harvesting. Trans-Pecos, harvesting begun, good yields. Wind, rain caused some lint droppage. Statewide condition is rated at 64% of normal, compared with 49% year ago. Current reported conditions 1% excellent; 45% good; 31% fair; 18% poor; and 5% failure. Grain sorghum harvest also advanced rapidly across Plains. Producers reported good yields irrigated fields, low yields dryland fields. Winds causing severe lodging remaining fields. Weather permitting, harvesting should be complete couple of weeks.

Corn harvesting complete High Plains. Yields above normal. Peanut harvesting good progress many areas. High Plains, yields good. Harvesting continued Cross Timbers, Blacklands, southward into Edwards Plateau, south central area. Yields below normal, some producers plowing up fields. Quality deteriorated because recent rains. Small grain planting good progress as fields dried out enough, allow producers get equipment in. Fields showing good growth, providing some grazing High Plains. Outlook improving wheat, oats. Armyworms problems some areas. Soybean producers Plains resumed harvesting, completing operations. Both yield, quality good. Limited fields Plains too muddy to enter. Upper Coast, most fields wet. Some producers harvested high moisture beans. Losses occurring because mold, mildew, shattering. Sugarbeet harvesting continues, good yields, sugar content. Sugarcane harvesting resumed, good yields. Some wind damage remaining fields.

Cotton open bolls 81% 1984, 98% 1983, 93% average; harvested 28% 1984, 46% 1983, 42% average. Sorghum mature 99% 1984, 100% 1983, 100% average; harvested for grain 85% 1984, 93% 1983, 94% average. Wheat planted all purposes 92% 1984, 88% 1983, 88% average; emerged 74% 1984, 69% 1983, 72% average. Corn harvested for grain 100% 1984, 100% 1983, 100% average. Peanuts harvested 58% 1984, 29% 1983, 38% average. Soybeans harvested 65% 1984, 64% 1983, 66% average. Sugarbeets harvested 70% 1984, 70% 1983, 58% average. Pecans harvested 30%, 27% 1983, 25% average. Sunflowers harvested 65% 1984, 91% 1983, 85% average. Oats planted for grain 89% 1984, 84% 1983, 84% average.

Commercial vegetables: Rio Grande Valley, tomato, bell pepper harvest continues. Early cabbage harvest begun. Good progress onions, lettuce celery fields. Insects problems many fields. San Antonio-Winter Garden, vegetable prospects improved after recent rains. Harvest cucumbers, beets, cabbage continues. Planting resumed fall vegetables. Trans-Pecos, bell pepper harvest continuing. Cabbage, chili harvest slowing down. East area, sweetpotato harvest winding down with light volumes reported. Pecan harvesting advanced High Plains with open weather. Many nuts high moisture because recent rains. Predators, winds cause problems.

Range and Pasture: Ranges, pastures improve most areas. Frost, some freezing temperatures slowed growth High Plains. Other areas report good growing conditions. Few areas light armyworm infestations. Many parts State getting additional hay cuttings. Small grain fields providing grazing High Plains. Many cattle moved into area for grazing.

UTAH: Frontal storms first and last parts of week deposited moderate to heavy precipitation north half with very heavy accumulations at some mountainous stations. Amounts zero to light south half and Uinta Basin. Mean temperatures averaged 3° above normal, ranging normal to 5° above.

Sorting and marketing of apples, onions, and potatoes continued. A few fields of corn for grain still standing. Range livestock good condition.

VIRGINIA: Temperatures for week averaged near normal, with colder weather, first killing frost, and freezing temperatures for many sections occurring about mid-period. Average temperatures from lower 50's in eastern sections to upper 40's or near 50 in western sections. Precipitation moderate, averaging between 0.50

and 0.75 in.

A few areas still dry. Topsoil moisture ratings 24% short, 76% adequate. Days suitable for fieldwork averaged 5.1. Harvest of grain corn 80% complete, 88% last year and average. Soybean harvest 44% complete, 35% last year, 52% average. High moisture content in some corn and soybean fields slowing harvest. Recent cold and frost relieving problem. Small grain planting making good progress except in few very dry areas where planting difficult. Oats 97% seeded, 97% last year. Barley 95% seeded, 95% last year, 96% average. Wheat 70% seeded, 68% last year, 72% average. Grain sorghum harvest 51% complete, 46% last year, 53% average. Grading and stripping burley tobacco active. Flue-tobacco markets closed. Preparing dark-fire tobacco for market. Farmers marketing cabbage and apples. Livestock and pastures in good to excellent condition. Normal fall activities in progress such as fencing, machine repair, and firewood cutting.

WASHINGTON: Heavy rain west of the Cascades and rain and snow east of the mountains virtually halted fieldwork.

Winter wheat seeding was virtually complete while emergence reached 95%. Harvest of corn silage and potatoes was just about complete while some grain corn remained to be picked. Apple harvest was over and raspberries were being canned. Winter wheat seeded 100% 1984, 100% 1983, 100% average. Winter wheat emerged 95% 1984, 100% 1983, 97% average.

WEST VIRGINIA: Temperatures above normal except the northeast division averaged 1-2° below normal. Precipitation was 1-2 in. above normal except in the northeast where rainfall was near normal.

Soil moisture adequate to surplus. Days worked averaged 3.4. Fall seeding of wheat and barley has been completed. Corn is in good condition with 27% mature and 73% harvested. Pasture is in fair to good condition. Main activity: General maintenance.

WISCONSIN: Temperatures were cool to start and finish the week but warm weather occurred in between. There was from 0.50 to 1.10 in. of rain, most occurring on the 9th and 10th and followed a period of 5 to 6 mostly dry days. Snow occurred in some districts the 10th.

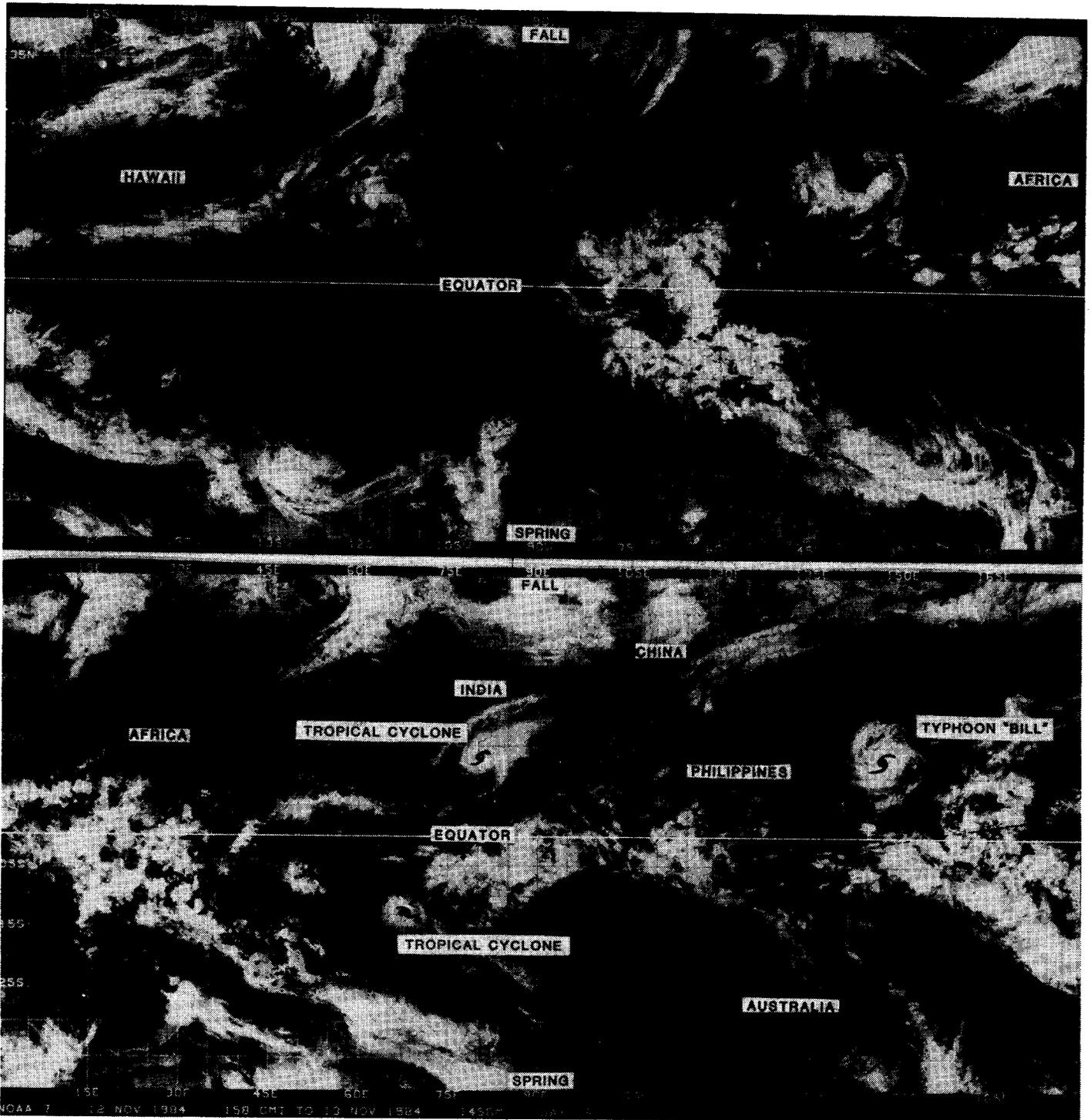
The period of dry days enabled some farmers to resume harvesting but others were inhibited by their still soggy fields. Corn for grain was 60% harvested, 82% last year and a 65% average. Most high ground and sandy soils had been previously harvested. There were a considerable number of reports of corn lodging. Soybeans were 64% harvested, 90% last year, 80% average. Fall plowing was 36% complete, 65% last year, 42% average. Soil moisture was 0% dry, 31% adequate, and 69% surplus. There were 3.9 days suitable for fieldwork with a few farmers reporting they were working in unsuitable weather.

WYOMING: Temperatures above normal most of State. Above normal precipitation in the northwest and northeast corners.

Winter wheat mostly good condition. Corn harvest continues. Fall plowing active. Livestock mostly good condition. Livestock producers continue to move stock to winter pastures, market livestock, pregnancy testing.

GLOBAL WEATHER SATELLITE PHOTO

Nov. 12 to 13

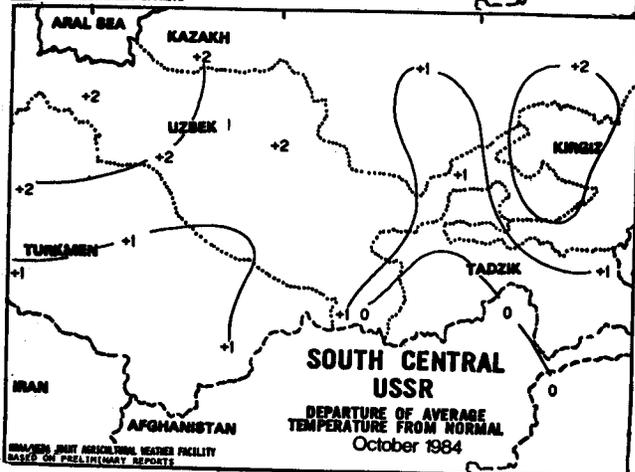
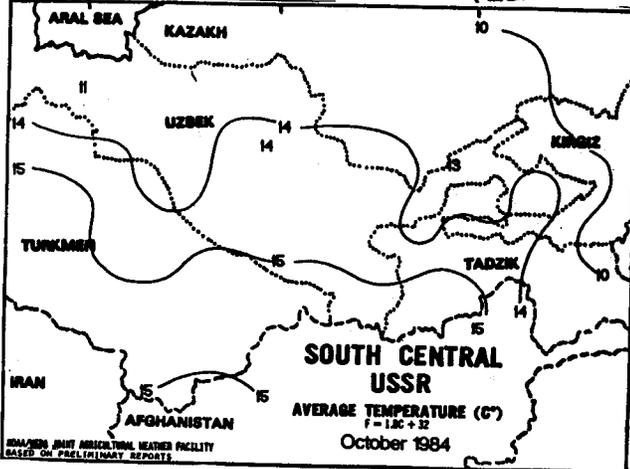
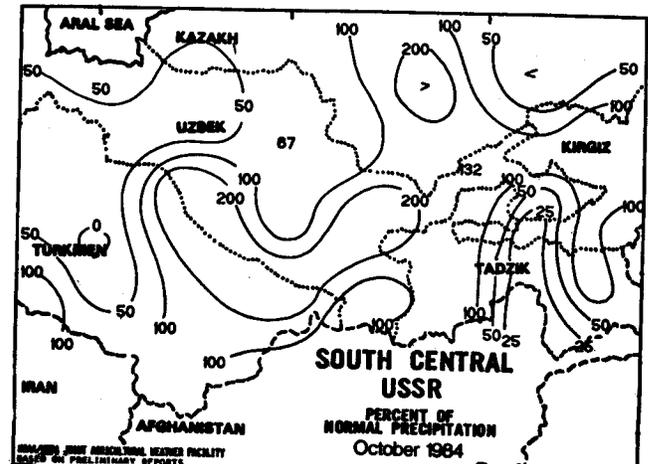
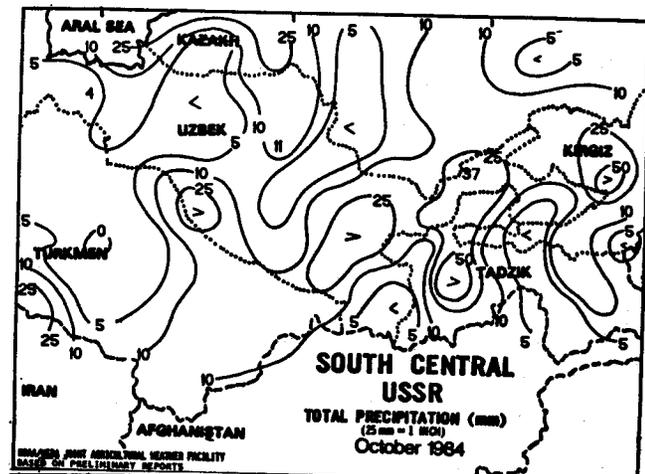
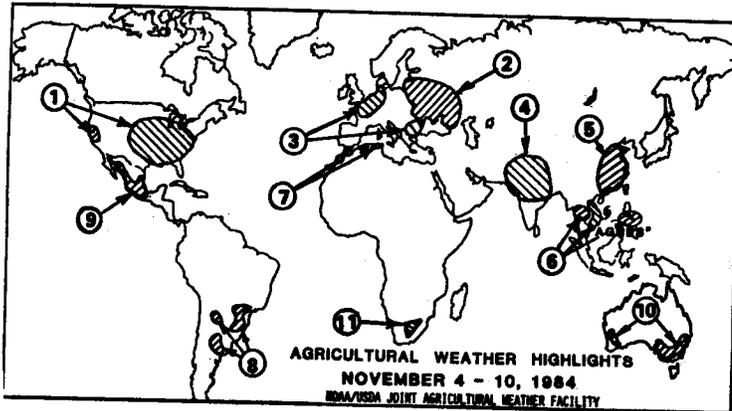


International Weather and Crop Summary

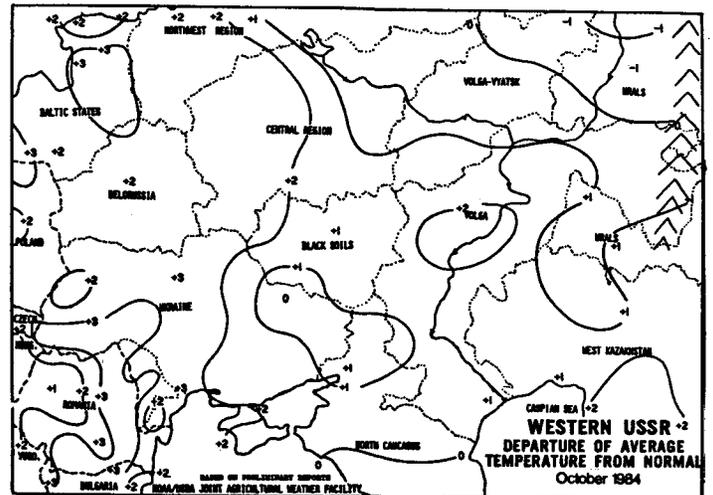
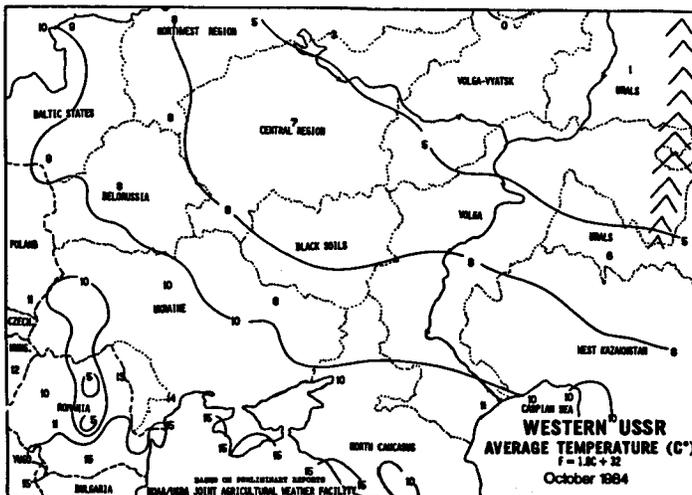
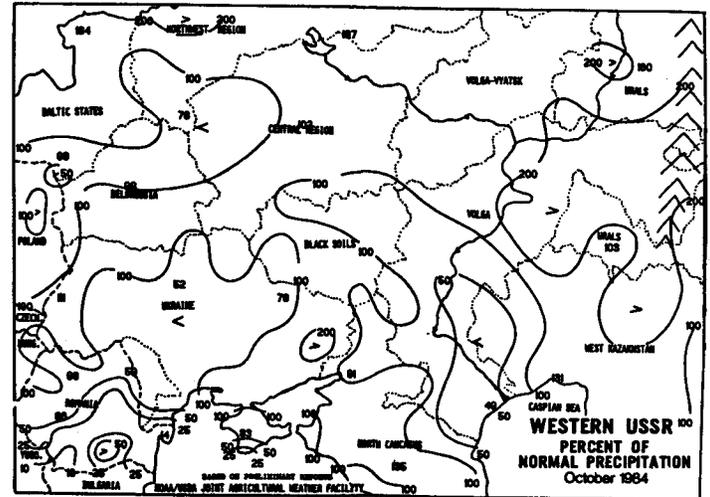
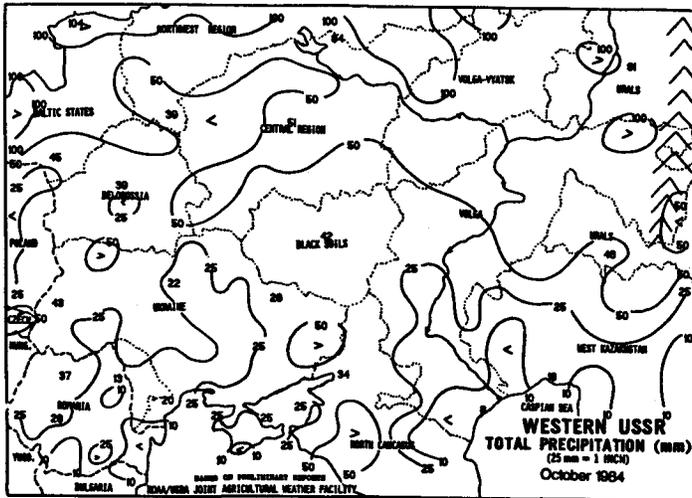
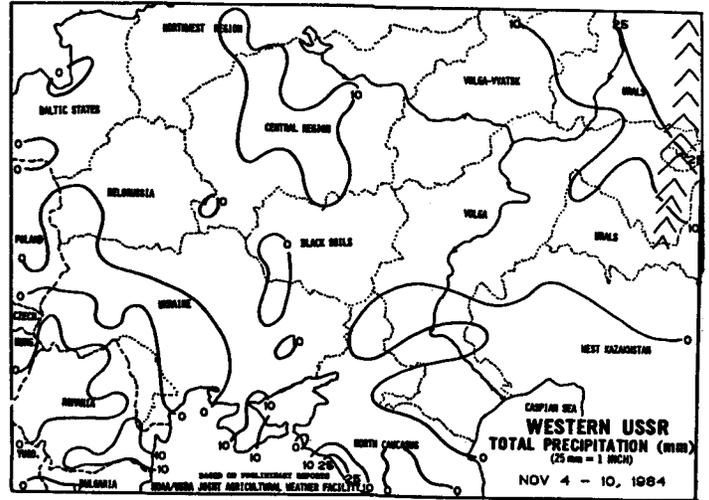
Nov. 4-10

HIGHLIGHTS:

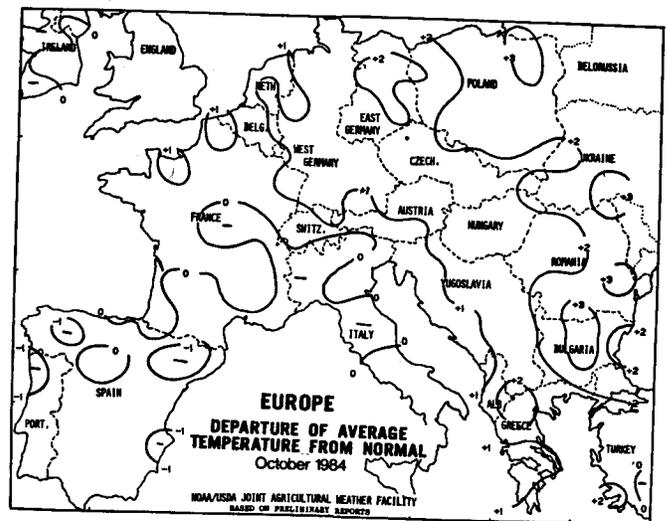
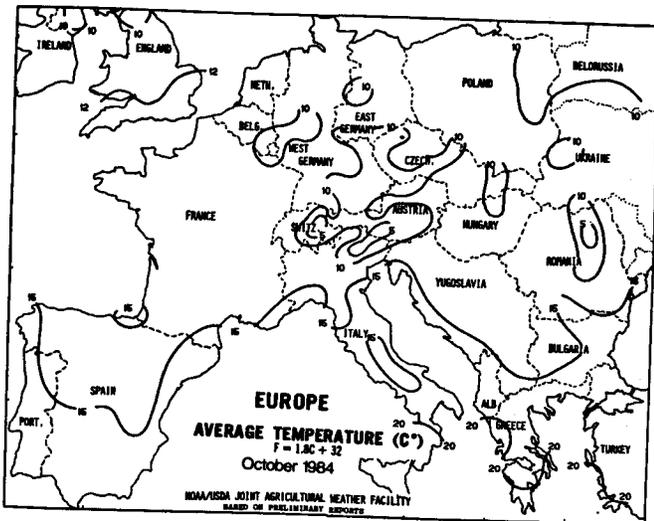
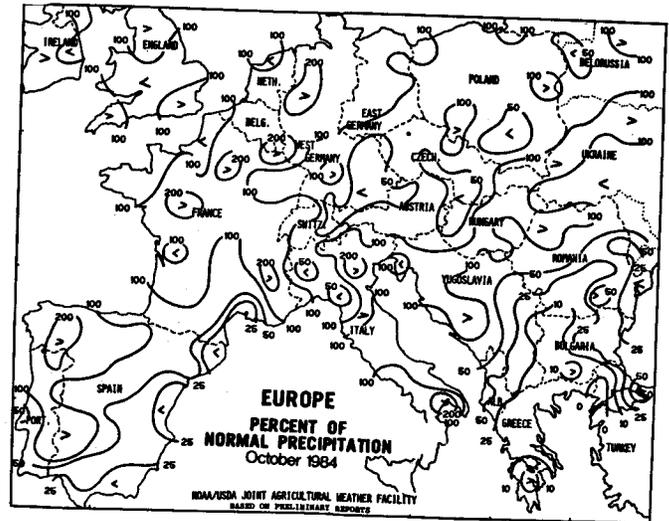
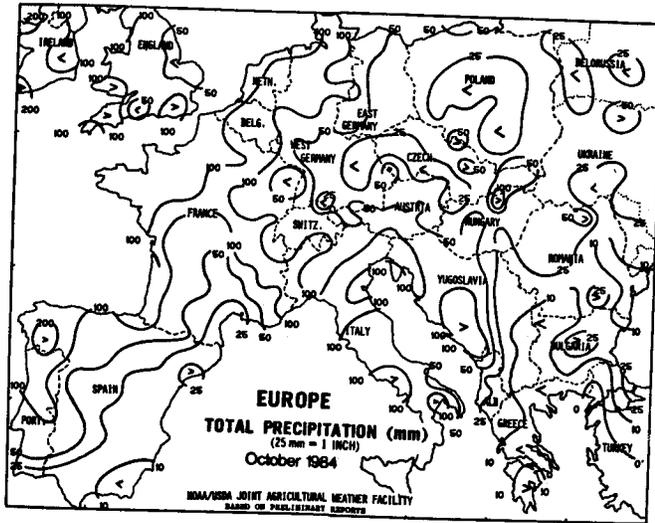
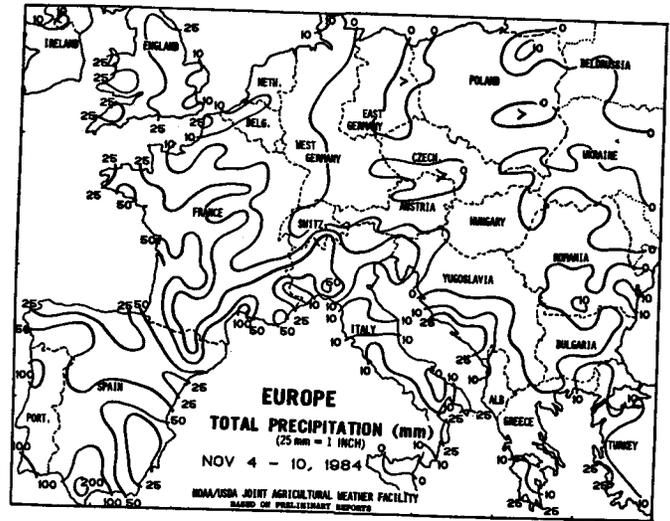
1. UNITED STATES ... Soils finally beginning to dry, allowing harvesting in parts of the Delta States and western Corn Belt. The eastern Corn Belt remains wet. Rain benefits small grains in northern California. Excellent harvest weather continues over most of the Southeast and the Great Plains.
2. WESTERN USSR ... Northern winter grains are cold hardening following October delays. Cold hardening has not started in the south.
3. EUROPE ... Dry weather aids fieldwork in the northwest. Autumn's first significant rains in southern Spain favors winter grain planting. However, winter grains remain unfavorably dry in some southeastern areas.
4. SOUTH ASIA ... Dry weather in the north favors cotton and sugarcane harvesting.
5. EASTERN ASIA ... Cool, wet weather late in the week replaces favorable harvesting conditions in the North China Plain. The moisture benefits winter wheat.
6. SOUTHEAST ASIA ... Typhoon Agnes possibly damages rice in the Philippines and Vietnam. Moisture supplies are adequate for Thai rice.
7. NORTHWESTERN AFRICA ... Autumn's first significant rains favor winter grain planting in Morocco and western Algeria.
8. SOUTH AMERICA ... Widespread rain improves planting conditions in Brazil's northern soybean area and keeps soils moist in the south. Locally heavy rain inundates northeastern Argentina, slowing cotton, sunflower, sorghum, and corn planting. Abundant moisture is available for filling wheat.
9. MEXICO ... Abundant sunshine favors crop harvesting and vegetable cultivating.
10. AUSTRALIA ... Showers delay wheat harvesting in southeastern Queensland, but aid filling wheat in southern Victoria and Western Australia.
11. SOUTH AFRICA ... Dry weather covers the Maize Triangle. Soil moisture remains adequate for corn planting and early growth.



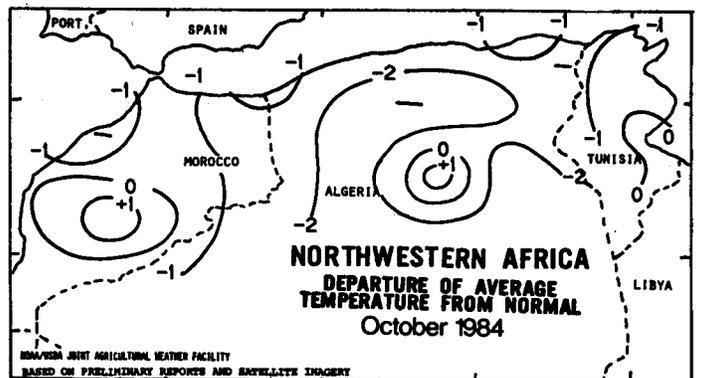
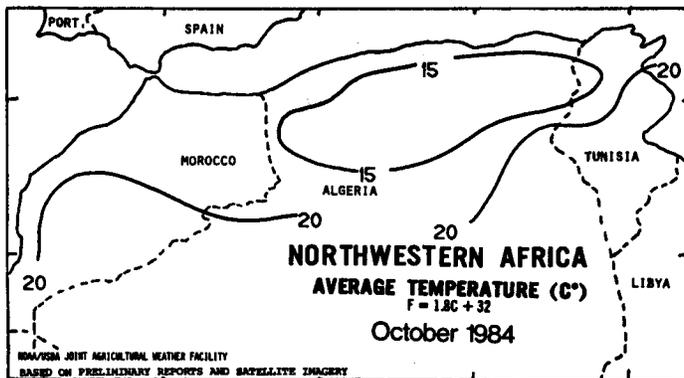
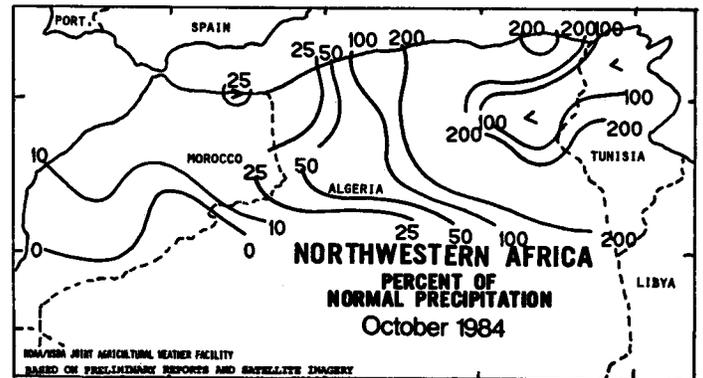
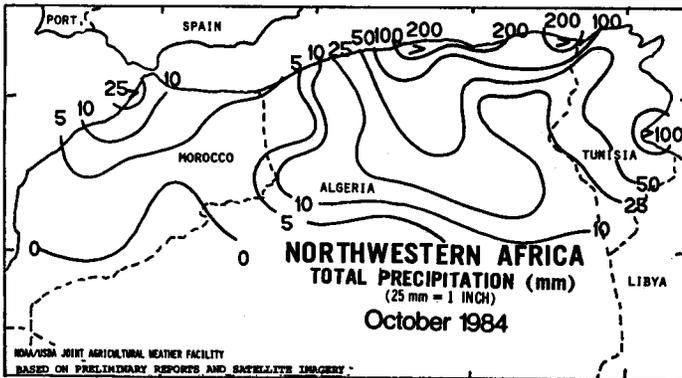
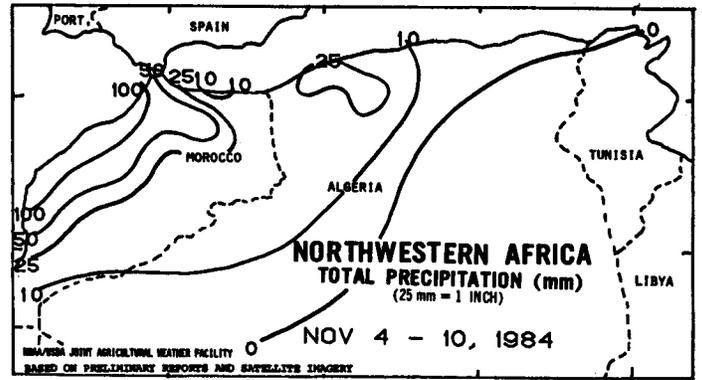
WESTERN USSR...Mostly dry weather in Moldavia and the south central Ukraine continued October's below-normal precipitation pattern. However, October precipitation was timely, falling throughout most winter wheat areas early in the month. These early October showers favored winter wheat emergence and early growth. Generally dry weather over the south since mid-October favored summer crop harvests. October's temperatures averaged several degrees above normal, slowing the north's cold hardening of winter grains. The south's cold hardening has not started, the normal date for hardening to begin is about November 10. Most winter grain areas lack a protective snow cover, making the crop more vulnerable to bitter cold weather. However, this past week's temperatures continued above normal, reducing the threat of winterkill.



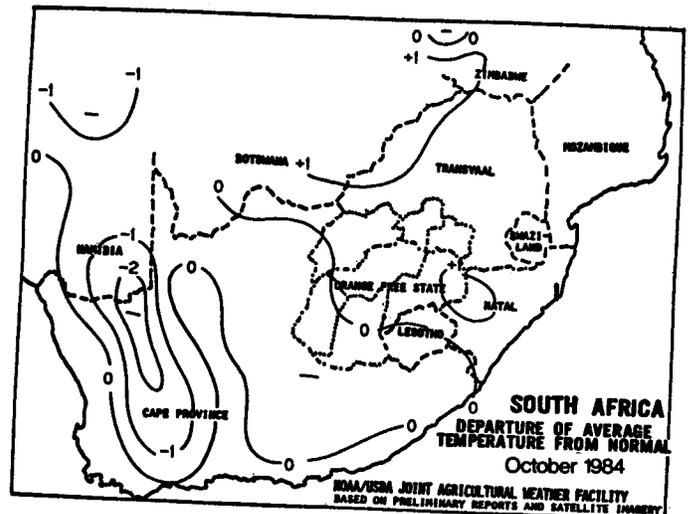
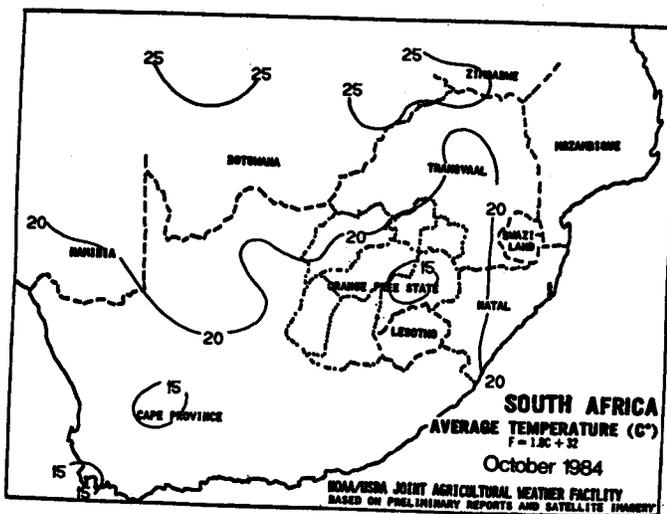
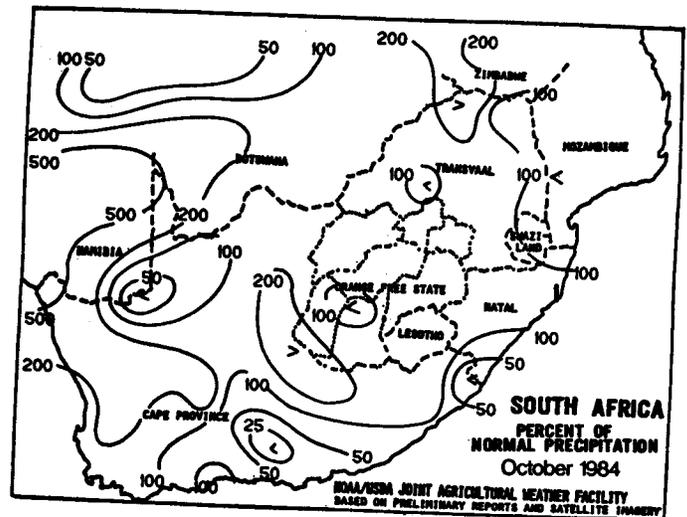
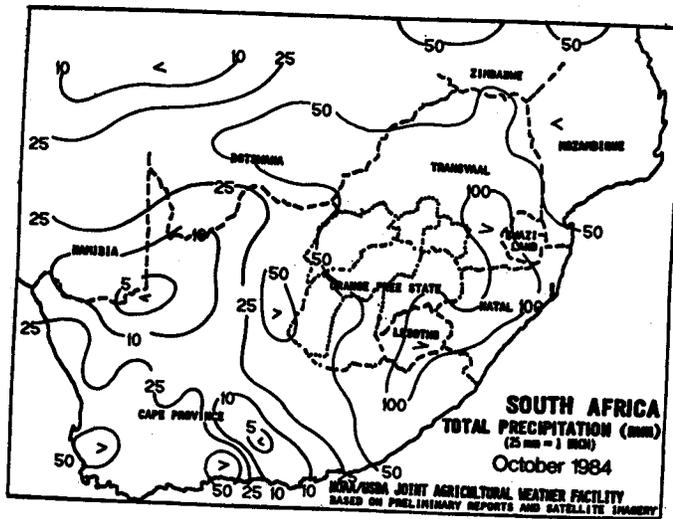
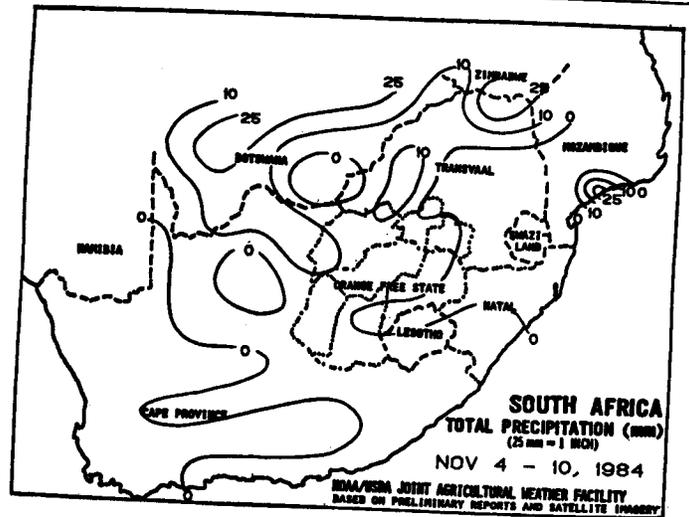
EUROPE...Beneficial dryness from northern France through northern West Germany aided fieldwork. October's above normal precipitation in these areas delayed fieldwork. Widespread showers (25-50 mm) in southwestern France slowed the corn harvest. The autumn season's first significant rains (50-100 mm) covered southern Spain's winter grain areas. Normally, Spain's winter grain planting is well underway in November. Overall, moisture conditions for early winter grain establishment across Europe are favorable, except for crop areas in parts of the southeast. Winter grains in southeastern Romania, eastern Yugoslavia, and Bulgaria received well-below normal precipitation since October. Although October's precipitation was below normal in Poland and Czechoslovakia, soil moisture was adequate for crop growth. Weekly temperatures averaged above normal across much of the region, favoring early plant growth.

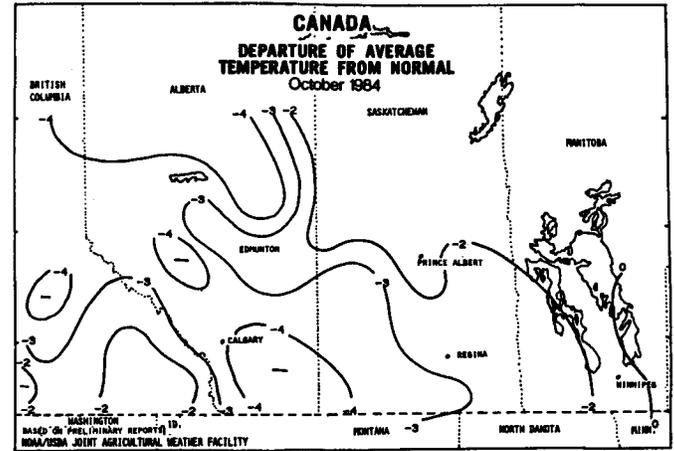
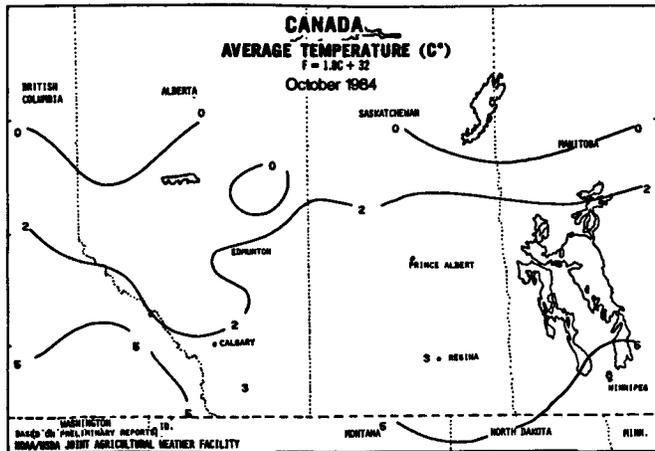
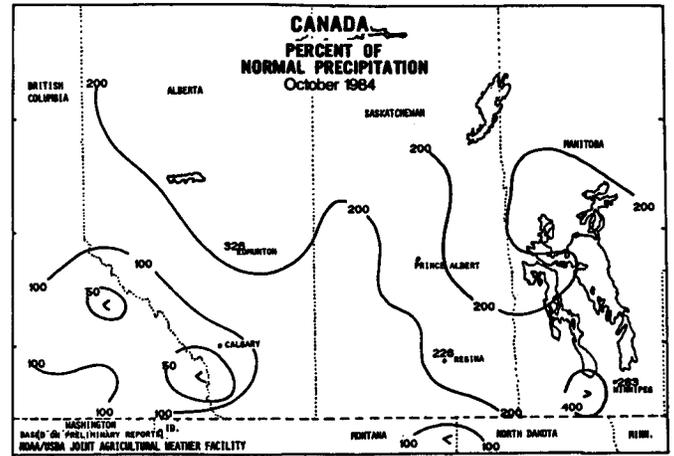
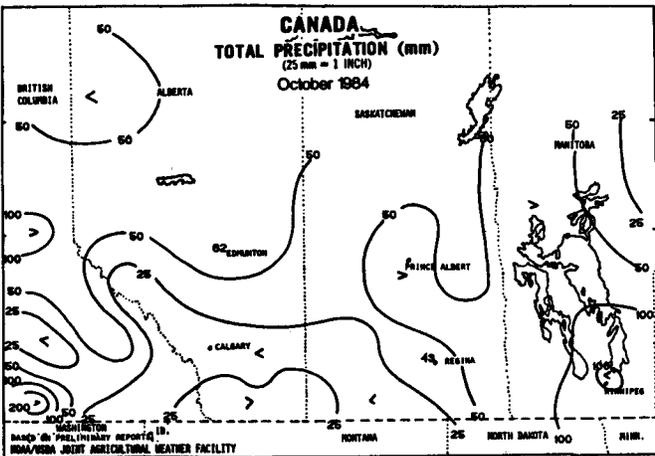
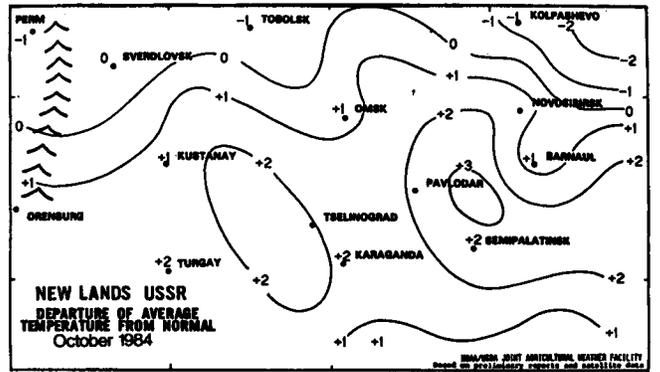
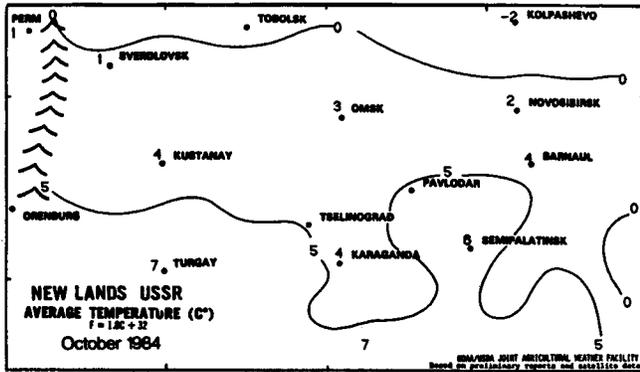
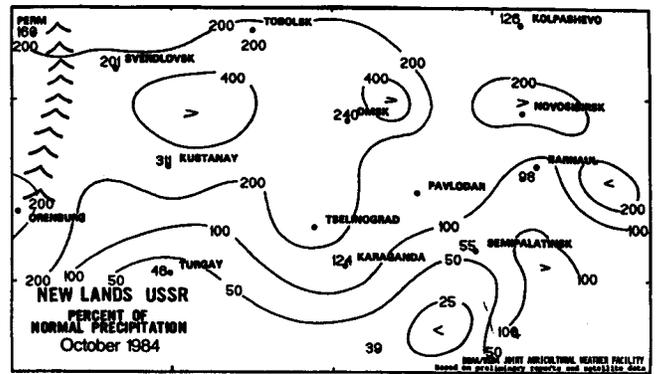
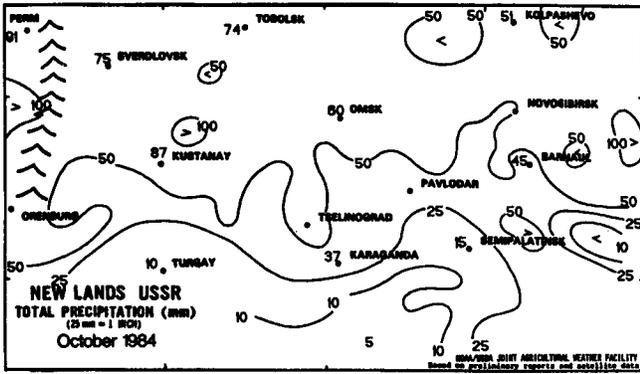


NORTHWESTERN AFRICA...The first significant autumn rains covered winter grain areas in western Morocco and northwestern Algeria. Morocco's rainfall ranged from 50-100 mm, while lighter precipitation (10-25 mm) covered western Algeria. The showers increased topsoil moisture, favoring winter grain planting. Winter grain areas in northeastern Algeria and northern Tunisia were mostly dry. However, near-normal to above-normal precipitation in these areas during October likely promoted early winter grain planting.

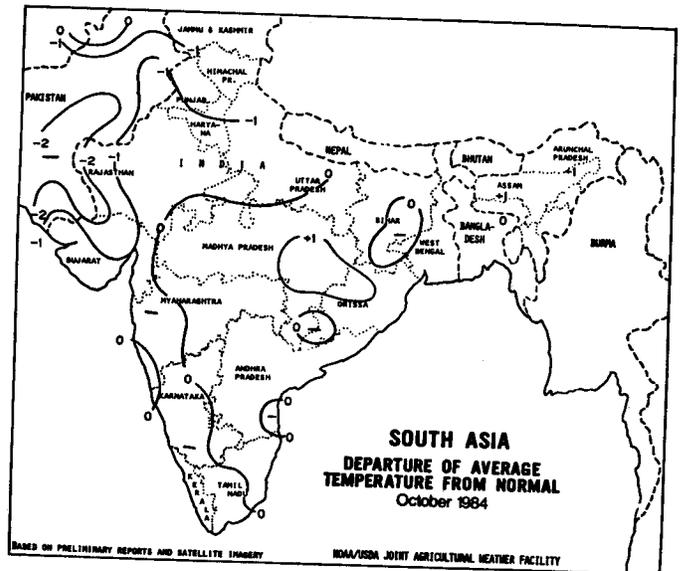
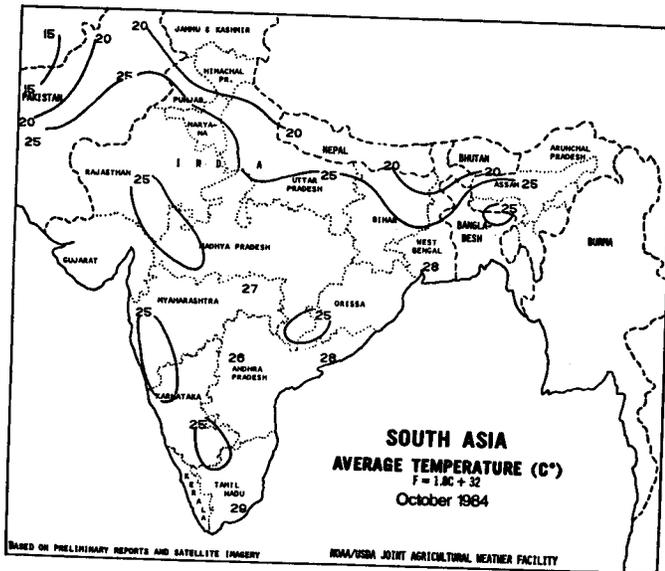
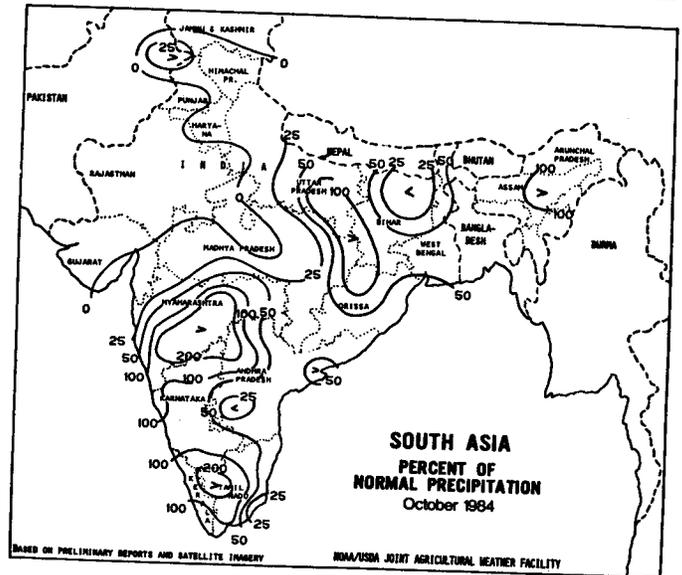
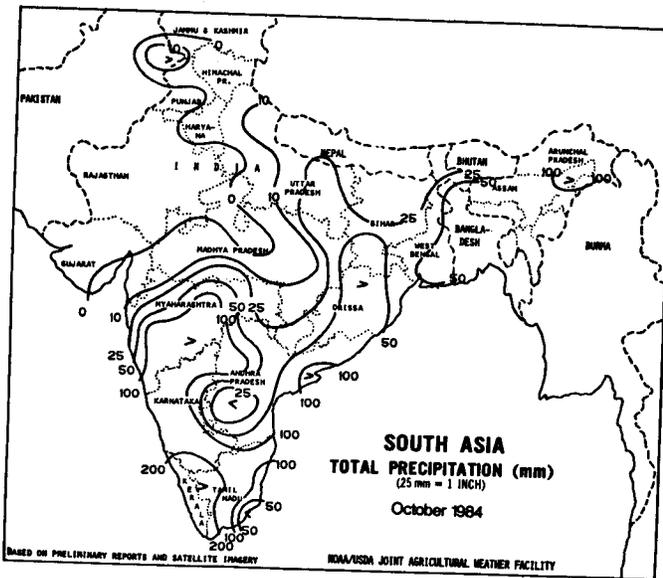
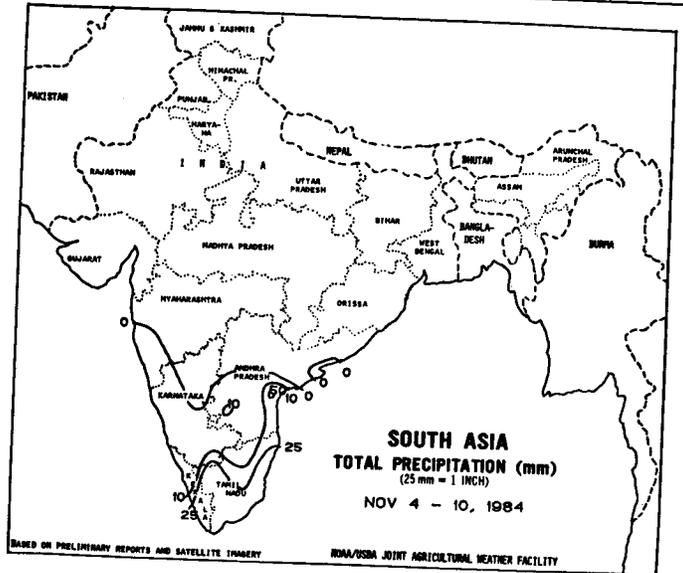


SOUTH AFRICA... Following several weeks of beneficial rains, mostly dry weather covered the agricultural areas in South Africa. Only light showers (about 5 mm) fell early in the week in the Maize Triangle, but soil moisture is adequate for early growth. Temperatures averaged cooler than normal in the east and slightly above normal in the western Maize Triangle. Above-normal October precipitation fell in nearly all of the corn area, similar to last season's early rain. Planting normally continues through November. October temperatures averaged near normal.

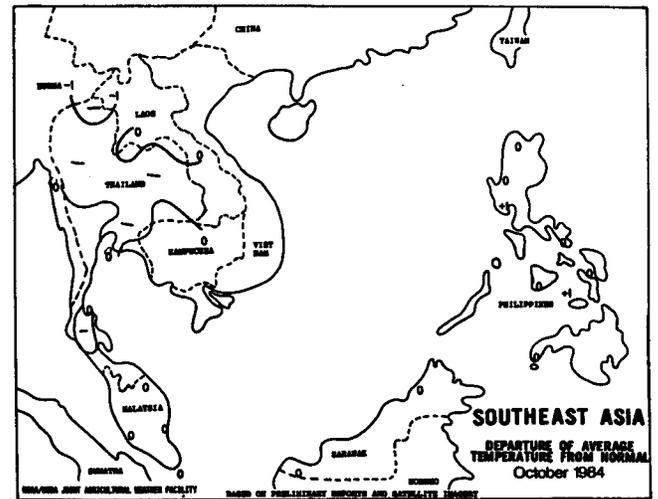
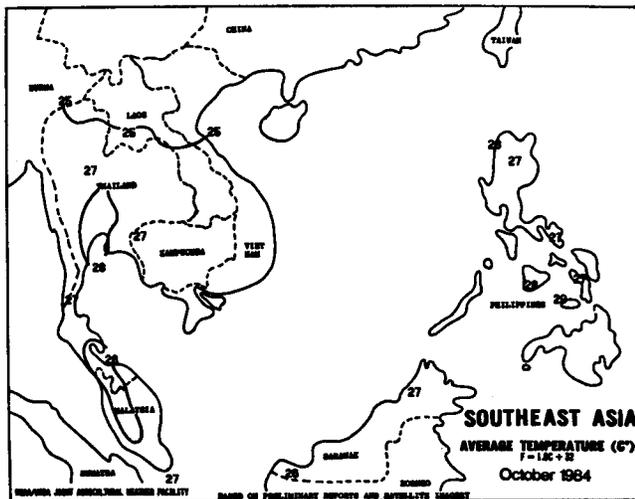
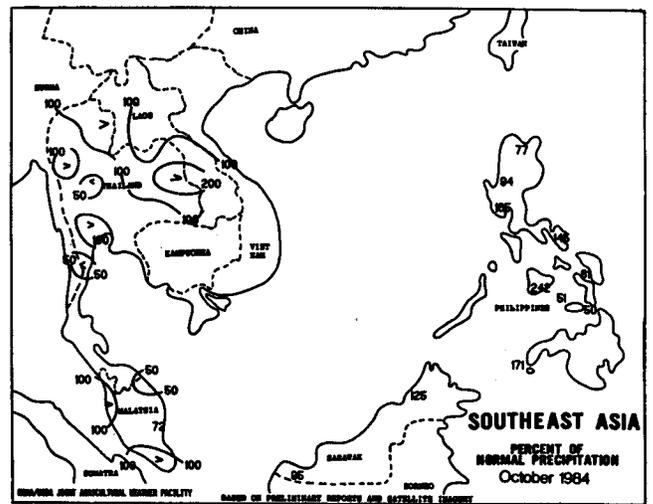
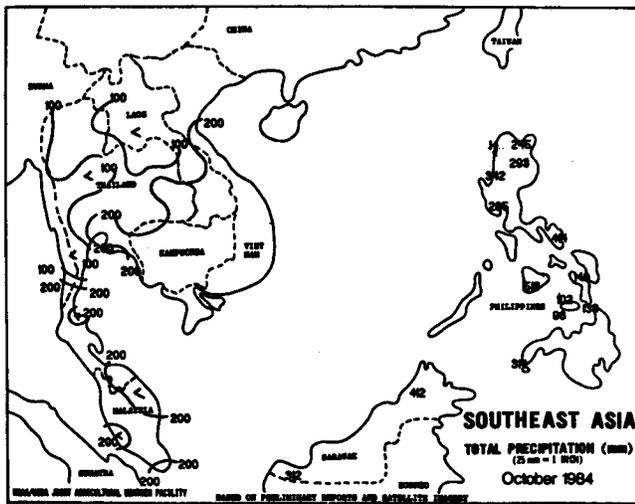
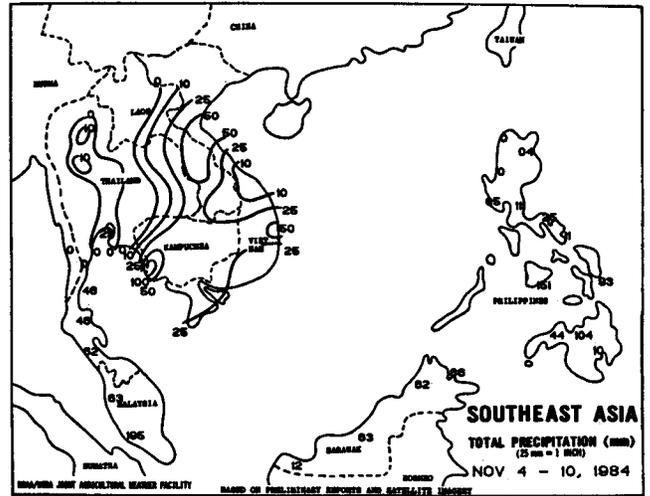




SOUTH ASIA...Light to moderate rain (5-40 mm) fell in southern India. Dry weather covered central and northern India and Pakistan, favoring cotton and sugarcane harvesting. Winter rice is maturing; some harvesting normally begins in November. Temperatures averaged cooler than normal in the north, reducing evaporation rates for jointing wheat. October precipitation was mostly below normal in the east. Following earlier dry weather, above-normal October rain in Maharashtra was favorable for developing cotton bolls.

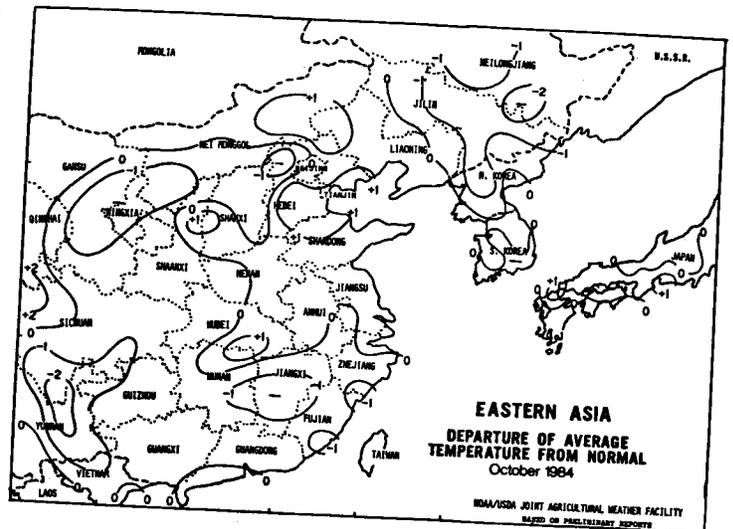
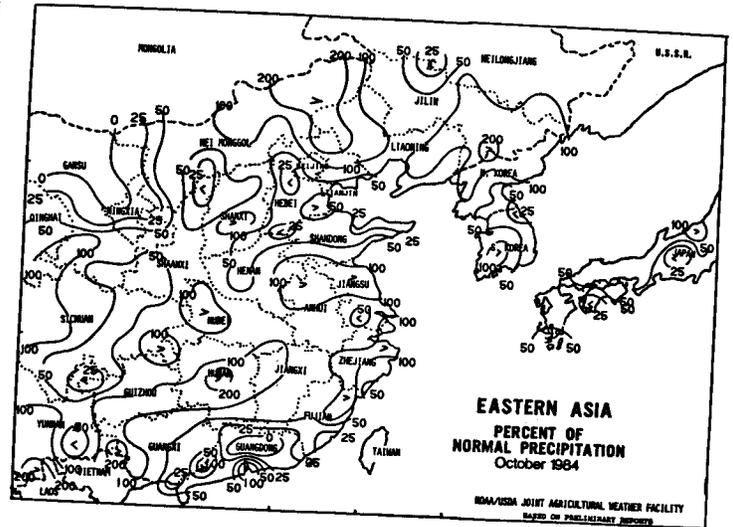
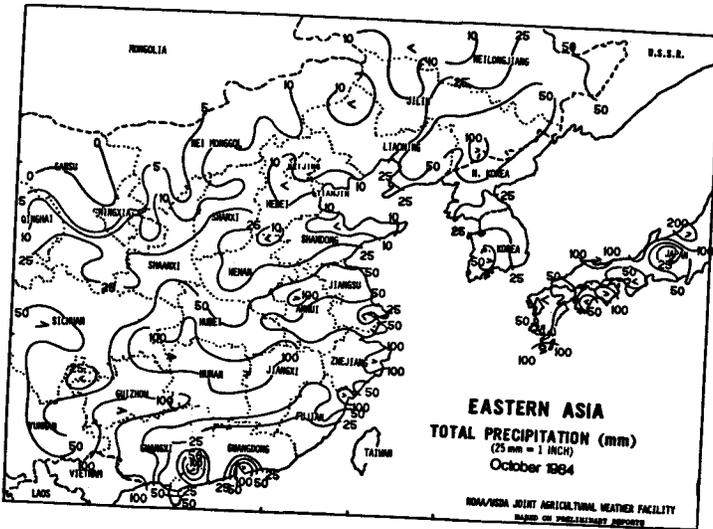


SOUTHEAST ASIA... Typhoon Agnes crossed the central Philippines early in the week. Heavy rain and strong winds possibly damaged rice, coconuts, and sugarcane. Agnes weakened as it exited the Philippines, but intensified over the South China Sea. The storm then reached Vietnam with moderate rain and high winds before rapidly weakening. Several tropical storms struck Vietnam during the past month, likely damaging coastal rice. Mostly dry weather covered Thailand this week; but moisture is adequate for rice following above-normal October rain in the east and north. Temperatures averaged slightly below normal during October, reducing evaporation rates for reproductive Thai rice.



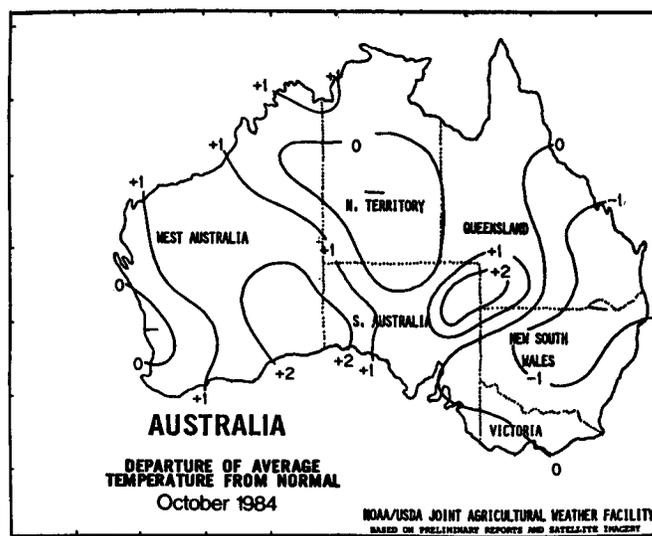
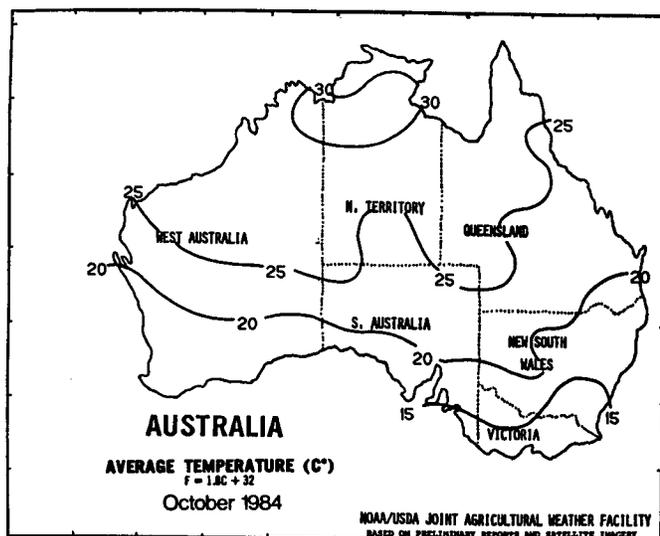
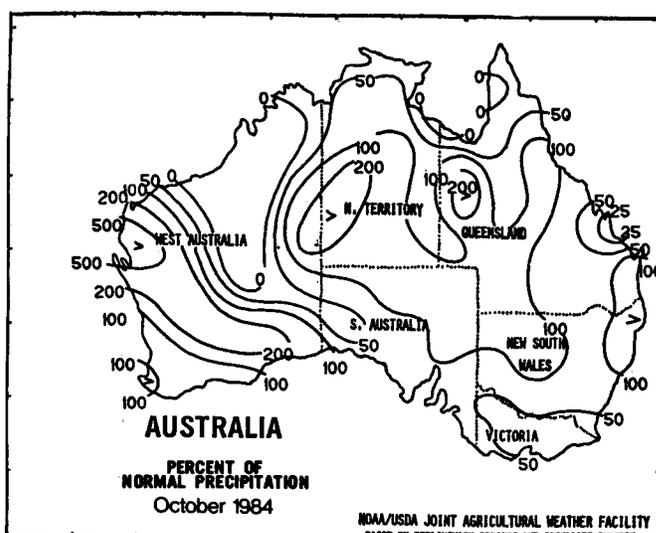
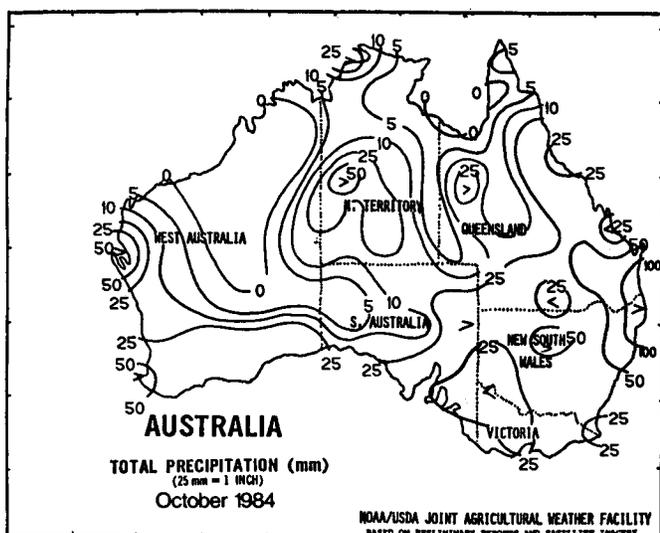
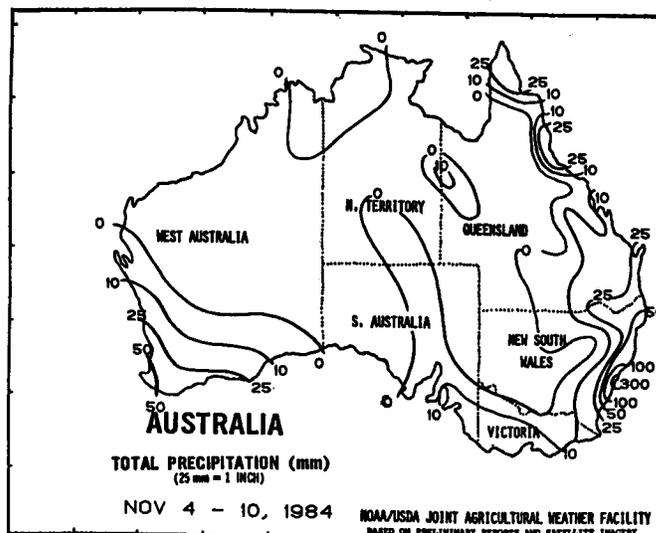
EASTERN ASIA...Favorable harvest weather in the North China Plain continued. Temperatures averaged 3-5°C above normal, favoring late cotton development and winter wheat establishment. However, late-week moderate rain (20-75 mm) fell in the southern North China Plain. The moisture was unfavorable for late cotton harvesting but benefited winter wheat. Cooler temperatures accompanied the rain. Moderate rain in Hunan was unfavorable for late rice harvesting. Dry weather covered the rest of the south. A dry, warm October benefited cotton, corn, and soybean harvesting. Above-normal October temperatures favored the cotton yield prospect which was raised by USDA to 847 kilograms per hectare.*

*For current area and production estimates, see the November 9, 1984 USDA World Crop Production Report.

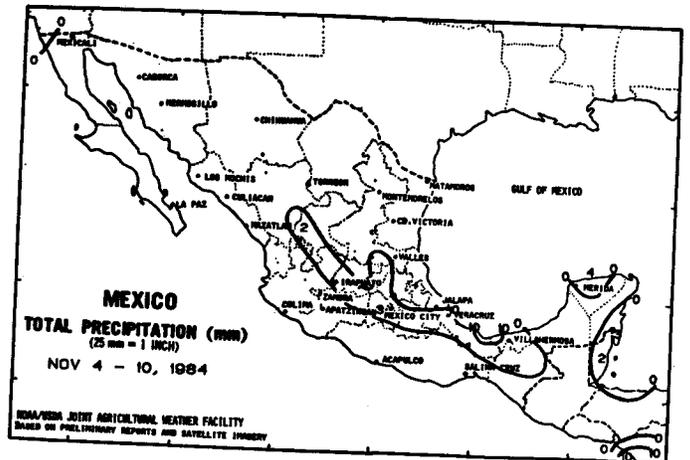
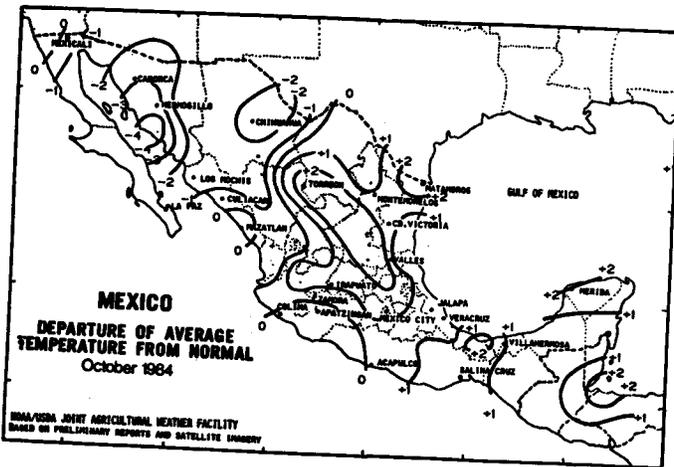
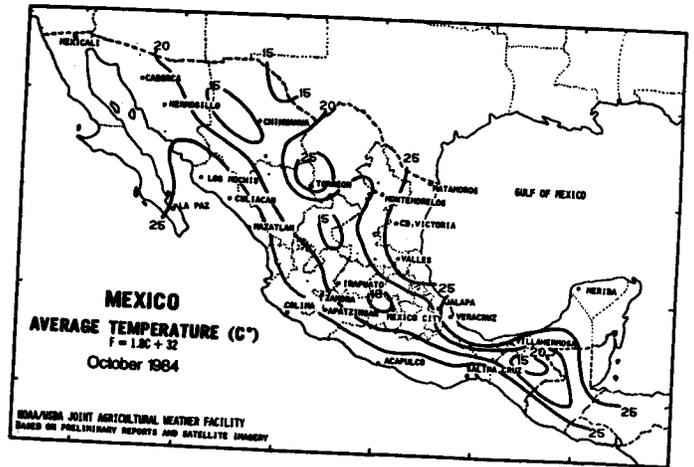
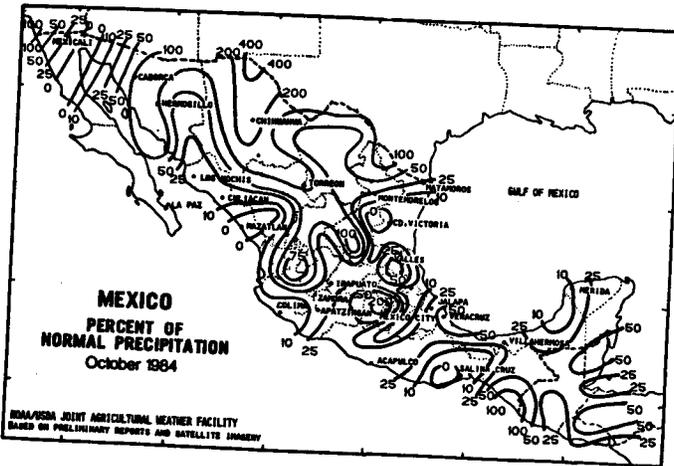
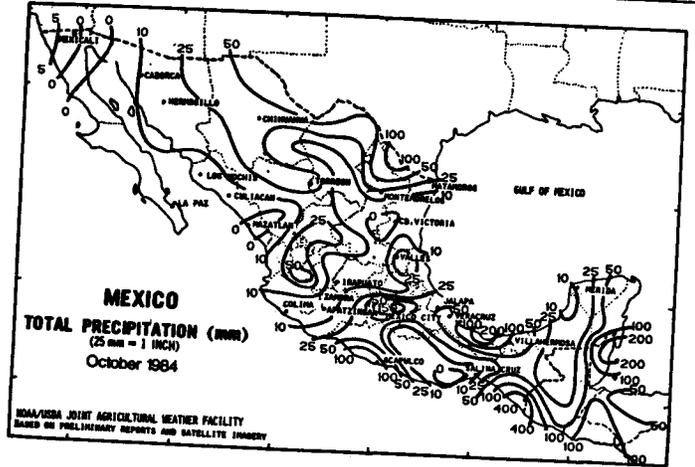


AUSTRALIA... Showers in southeastern Queensland and northern New South Wales delayed wheat harvesting but aided summer crop growth. Drier, warm weather favored maturing wheat over the remainder of New South Wales, but limited available moisture for late maturing crops in some southern areas. October rainfall was significantly below average over southern New South Wales, Victoria, and South Australia, where wheat is grain filling. Recent showers improved conditions somewhat in southern portions of Victoria and South Australia. Recent, timely showers over Western Australia's crop area maintained very good growing conditions for wheat in the grain filling stage. USDA boosted Australia's wheat yield potential by 4 percent to 1.46 metric tons per hectare due to favorable growing conditions in most areas.*

*For current area and production estimates, see the November 9, 1984 USDA World Crop Production Report.

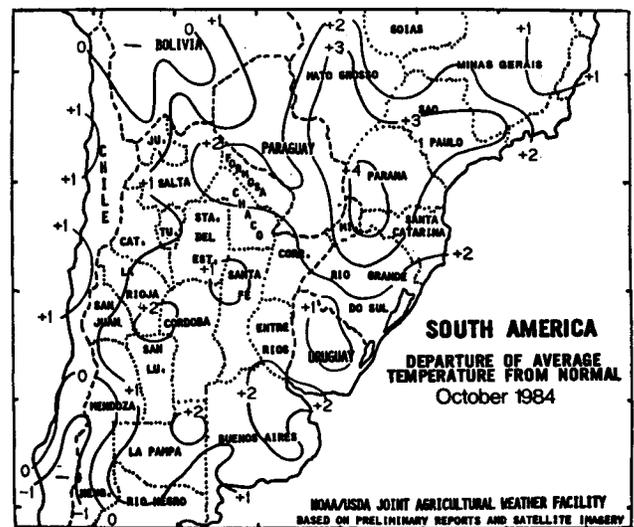
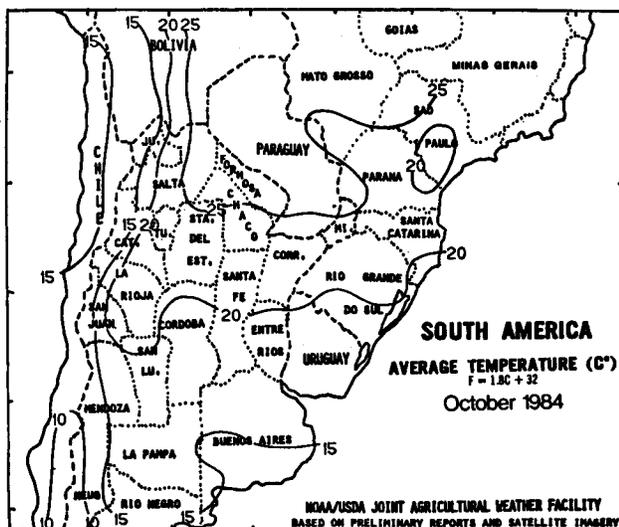
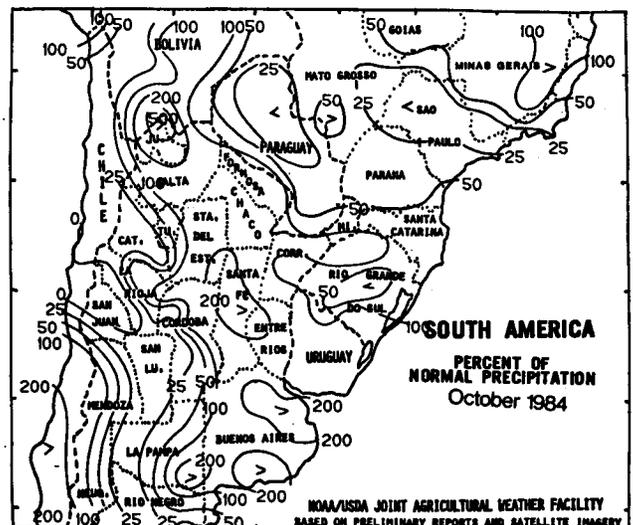
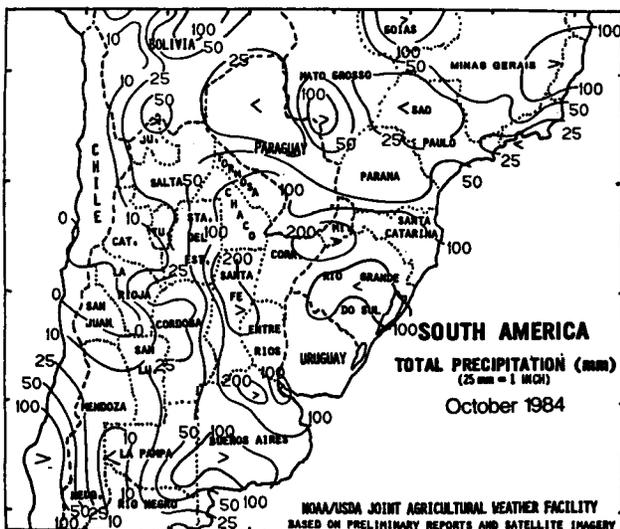
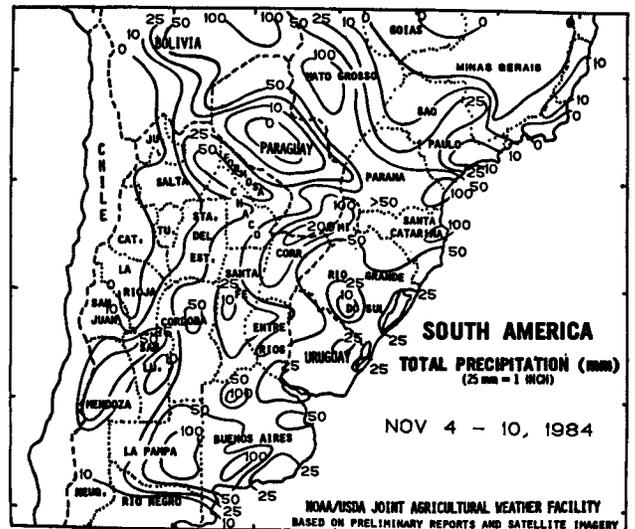


MEXICO...Mostly sunny weather favored harvesting mature crops and cultivating winter vegetables as seasonally dry weather began. A few showers dotted parts of the south but interfered only slightly with outdoor activities. In October, rainfall was generally below normal, except in the east central part of the southern Plateau corn belt. The dry pattern was ideal over most of the country for harvesting corn, soybeans, dry beans, and late cotton. However, October showers slowed corn harvest around Mexico City. Parts of the north central region continued very dry, stressing rangeland vegetation, and in turn, livestock.



SOUTH AMERICA...Locally heavy rain (75 to over 100 mm) fell over most crop areas of Argentina and southern Brazil. Dry weather was confined to northernmost crop areas in Minas Gerais and Goias. Showers moistened topsoils in Sao Paulo, and heavier rain fell over the remainder of Brazil's soybean belt. Weekly temperatures averaged 3-7°C above normal in northern crop areas. October rainfall was much below average over Parana and Sao Paulo, slowing early soybean planting. The recent moisture improved planting conditions. Soybean planting extends into mid-December. In Argentina, widespread rain delayed fieldwork and likely caused localized flooding in the northeast. Moisture is abundant for wheat in the grain filling period. Due to favorable October weather, USDA raised Argentina's wheat yield potential by 10 percent, to 1.88 metric tons per hectare.* Recent wetness slowed planting progress for cotton, sunflowers, corn, and other summer crops.

*For current area and production estimates, see the November 9, 1984 USDA World Crop Production Report.



The Weekly Weather and Crop Bulletin (ISSN 0043-1974) 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 Chronicle. It is issued under general authority of the Act of January 12, 1895, (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic \$25, foreign \$33 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C., and additional mailing offices.

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