WEEKLY WEATHER AND CROP BULLETIN

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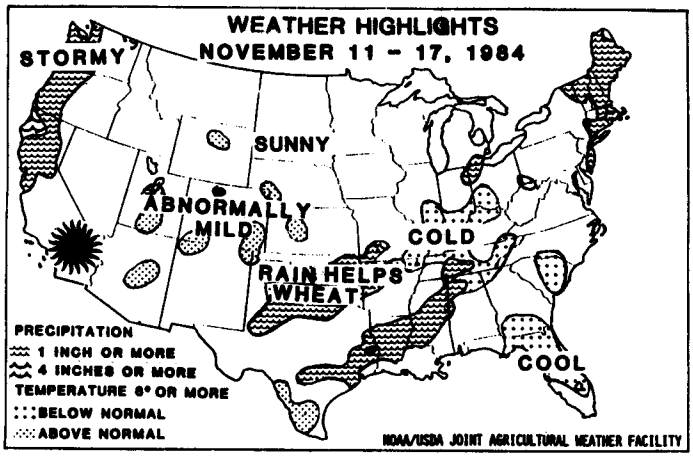
National Weather Summary

November 11 to 17



HIGHLIGHTS: A line of moderate showers moved through the upper Mississippi Delta late in the week. Heavy showers developed from the Texas Panhandle to southern Missouri on the last day of the week. Showers fell for several days on the middle Ohio Valley through New England. Snow fell through Michigan, northern Indiana, and parts of the Northeast. Several rainy days contributed to moderate to heavy accumulations on the west coast from northern California through Washington; showers covered all of the coast. Snow fell over the northern Plateau and Rockies. Average temperatures were colder than normal from the Midwest through the Southeast--freezing temperatures reached into northern Florida. It was warmer than normal from western Texas through the Rockies and Plateau. Very cold air in south central Canada barely got into the northern Plains.

SUNDAY...Snow fell through Michigan and into northern Indiana. Rain fell in the rest of the eastern Great Lakes region, and from the upper Ohio Valley and the mid-Atlantic Coast through New England. Rain fell over the northern and central Pacific Coast and spread over the northern Plateau. Freezing temperatures reached into the central Plains and western Great Lakes region.

MONDAY...Freezing temperatures spread through the Mississippi Valley as far as parts of Louisiana and Mississippi. Light rainshowers covered the Northeast. Showers covered the west coast with some moderate amounts falling in northern California and the Oregon coast.

TUESDAY...Freezing weather reached into the lower Mississippi Valley and the Southeast, as far as south as northern Florida. Showers continued in the West Coast States, and spread across the northern and central Plateau to the Northern Rockies. A few light showers fell from Pennsylvania through New England.

WEDNESDAY...Cold weather covered the area from the central Great Lakes to the gulf coast and eastward; while warmer weather pushed northward through the Plains. Showers scattered along a line from southern Missouri to the eastern Great Lakes. A few Light snowshowers reached from the northern Rockies to the upper Mississippi Valley.

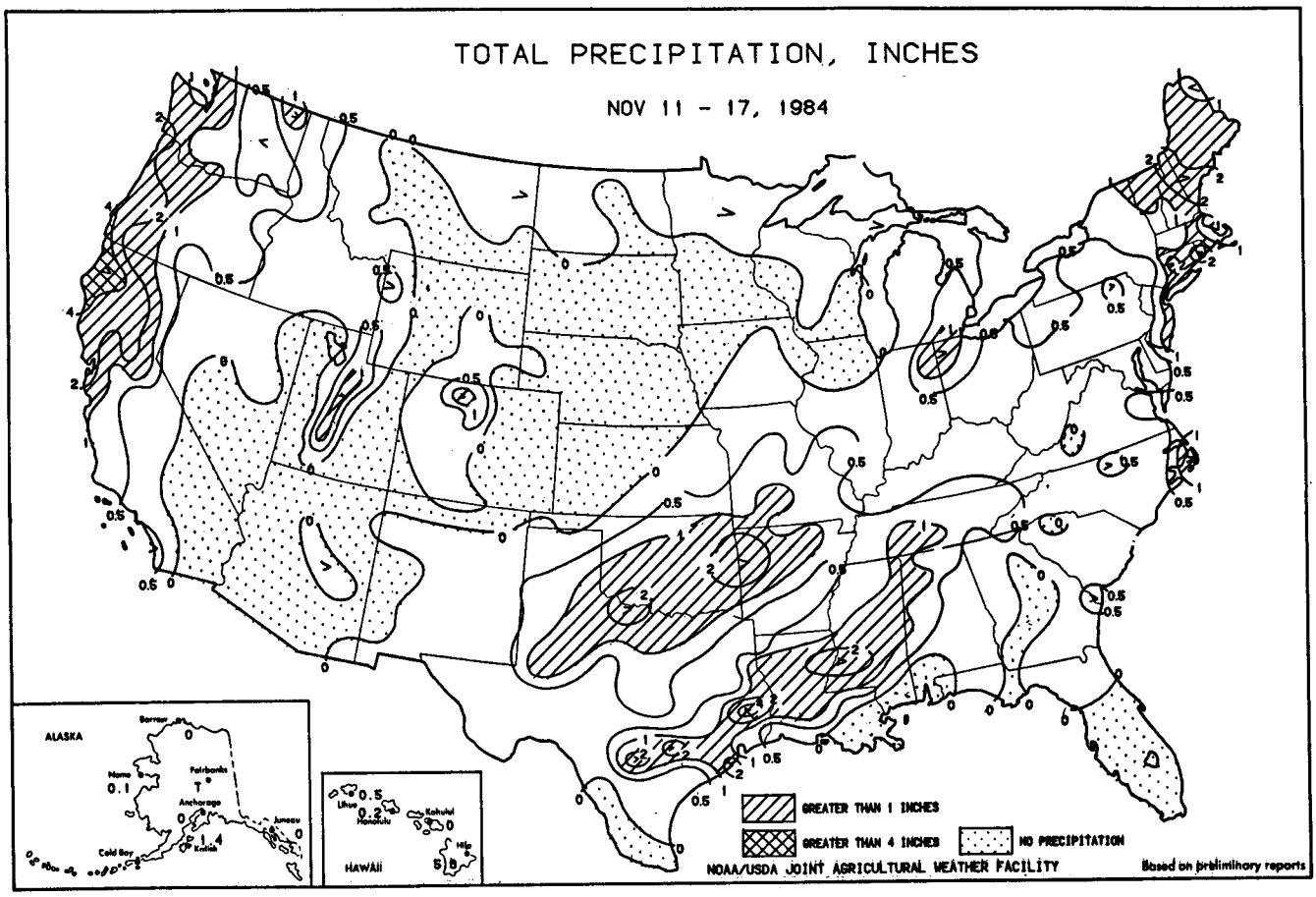
THURSDAY...Showers fell along and ahead of a cold front moving eastward on a line from Michigan to Southeastern Texas. Thunderstorms triggered moderate to heavy rain from central Louisiana to eastern Tennessee. Another storm system began spreading showers over the west coast. The tounge of warm air pushed northward through the Great Lakes, but more cold air was sweeping into the northern Plains.

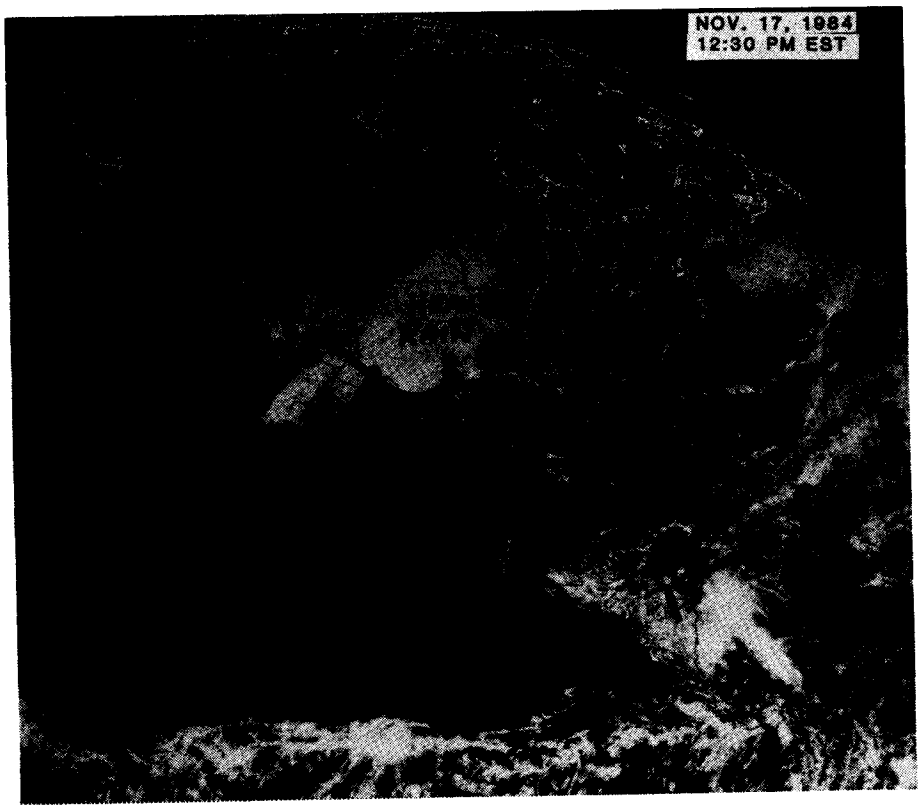
FRIDAY...Snow squalls covered the eastern Great Lakes and the Northeast, and a few showers lingered along the gulf coast. High-level moisture from the Pacific Ocean combined with low-level moisture from the Gulf of Mexico to trigger showers and thunderstorms in western Texas an Oklahoma. Light showers scattered throughout California.

SATURDAY...The two moisture sources combined to drop moderate to heavy showers and thunderstorms from central Texas to southern Illinois, and lighter showers from Texas to Michigan. Showers covered the west coast and spread onto the northern Plateau. Morning temperatures were cold in the East, but warmed during the day from Texas to the mid-Atlantic States.

Contents

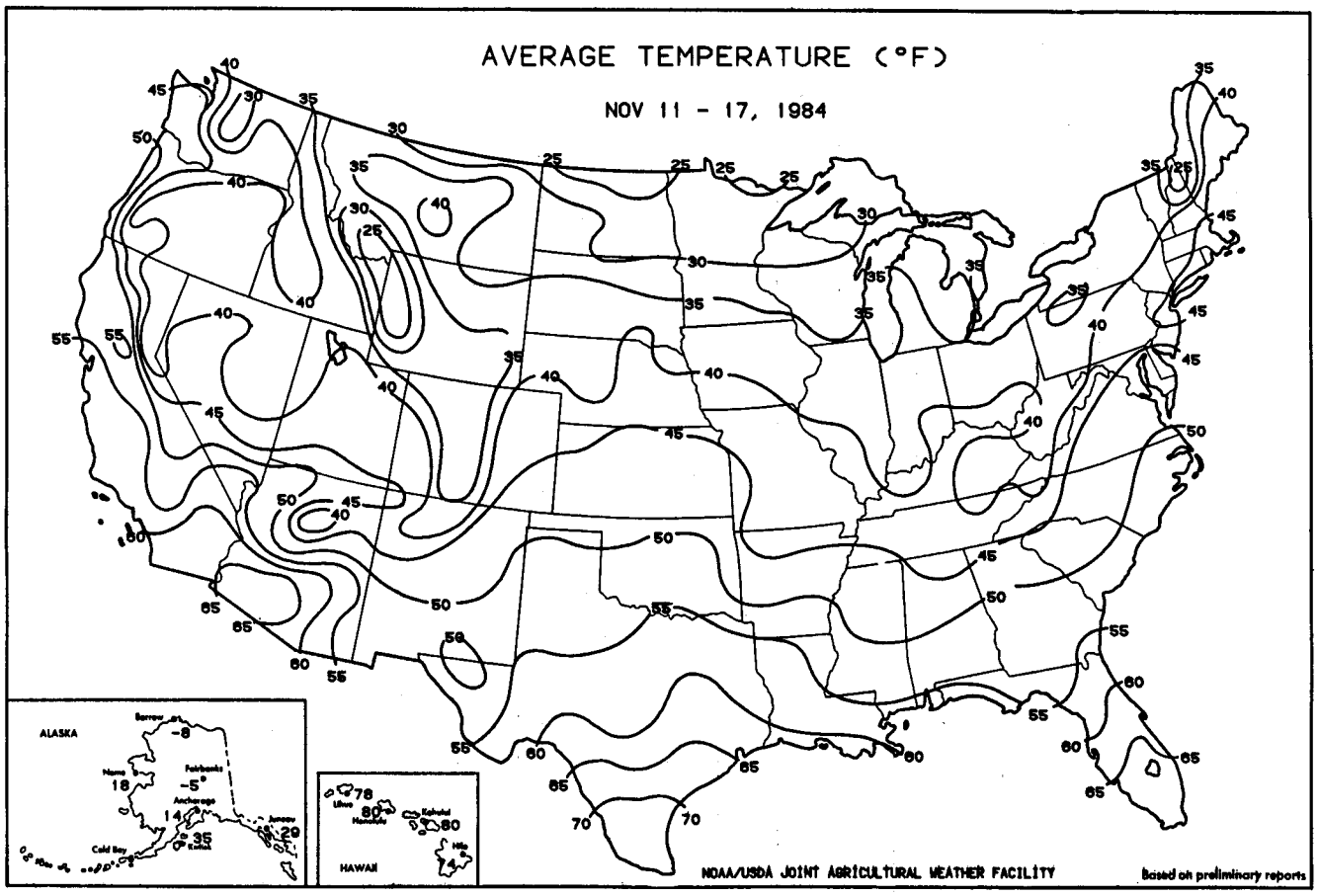
	Page
National Weather Summary	1
Precipitation & North American Satellite Photo	2
Average Temperature & Departure	3
Weather Data for Selected Cities	4
Heating Degree Days Table	7
National Agricultural Summary	8
Crop Progress Tables & Subscription & Mailing Permit Information	9
State Summaries of Weather & Agriculture	10
Global Weather Satellite Photo	16
International Weather & Crop Summary	17
Extreme Minimum Temperature	20

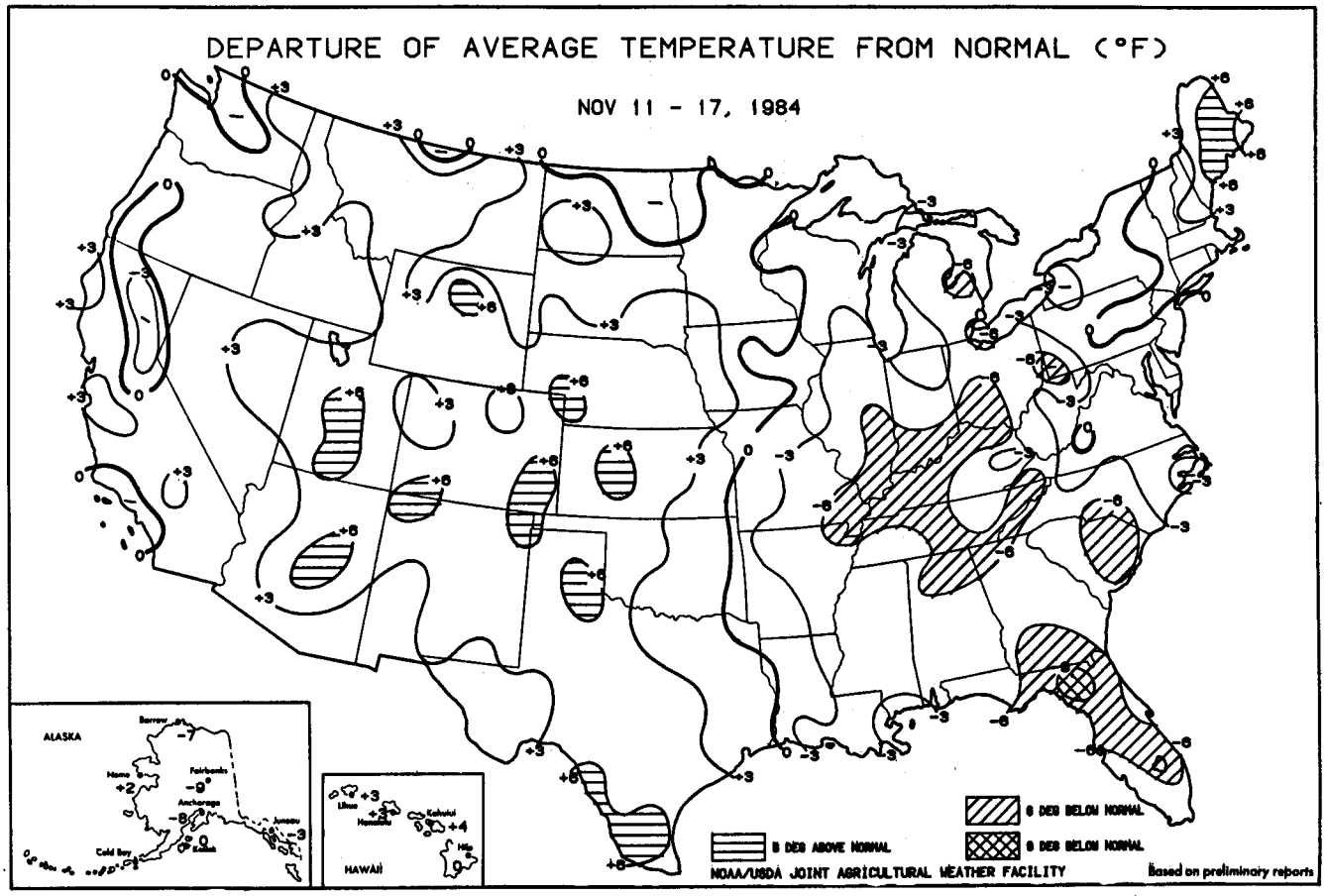




HEAVY RAIN, TRIGGERED BY AN APPROACHING TROUGH OF LOW PRESSURE, DRENCHES THE SOUTHERN PLAINS, ESPECIALLY FROM CENTRAL TEXAS INTO SOUTHWESTERN MISSOURI.

COLD AIR PUSHES INTO THE EAST IN ASSOCIATION WITH A POLAR HIGH PRESSURE SYSTEM. A STORMY FRONTAL BAND SPREADS RAIN INLAND ALONG THE PACIFIC COAST.


AVERAGE TEMPERATURE (°F)
NOV 11 - 17, 1984
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
NOV 11 - 17, 1984
ALASKA
HAWAII
6 DEG ABOVE NORMAL
6 DEG BELOW NORMAL
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

Weather Data for the Week Ending November 17, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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	.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	.1	-.6	.1	7.0	70	50.1	89	82	41	0	0	1	0
MONTGOMERY	70	44	79	34	57	0	.6	0	.6	6.6	85	46.3	110	89	41	0	0	1	1
AK ANCHORAGE	28	16	38	6	22	-2	T	-.3	T	4.0	87	13.7	102	94	76	0	7	0	0
BARROW	-2	-10	7	-13	-6	-10	T	-.1	T	.5	41	3.7	86	95	74	0	7	1	0
FAIRBANKS	9	-1	16	-9	4	-4	.2	.1	.1	1.1	55	8.8	96	94	80	0	7	4	0
JUNEAU	38	27	40	15	33	-2	.2	-1.2	.1	10.2	64	44.9	99	99	79	0	7	3	0
KODIAK	41	27	45	22	34	-2	.1	-1.6	.1	11.5	57	57.9	90	84	55	0	6	1	0
NOME	23	11	32	3	17	-2	.1	-.1	.1	2.6	67	13.3	99	96	80	0	7	5	0
AZ PHOENIX	80	53	88	47	67	3	0	-.1	0	3.7	259	11.2	190	57	22	0	0	0	0
PRESCOTT	67	34	77	23	50	4	0	-.3	0	2.1	68	11.5	71	73	23	0	2	0	0
TUCSON	81	48	88	40	65	4	0	-.1	0	2.6	109	11.7	119	47	13	0	0	0	0
YUMA	81	55	90	50	68	2	0	-.1	0	.1	13	4.1	186	57	22	1	0	0	0
AR FORT SMITH	71	46	81	34	59	6	0	-.8	0	20.0	262	41.5	119	84	40	0	0	0	0
LITTLE ROCK	68	49	74	41	58	4	1.4	.5	1.4	20.3	261	47.9	122	78	55	0	0	1	1
CA BAKERSFIELD	71	45	81	38	58	-1	T	-.1	T	.1	15	1.4	30	80	37	0	0	0	0
EUREKA	61	48	69	45	54	2	2.3	1.0	.7	7.9	142	24.6	87	90	67	0	0	6	2
FRESNO	68	45	75	40	57	1	.4	.1	.4	1.1	113	3.2	40	83	43	0	0	2	0
LOS ANGELES	68	56	71	51	62	-1	.1	-.2	.1	.5	53	2.4	26	76	44	0	0	1	0
RED BLUFF	59	44	70	39	52	-4	1.1	.4	.4	3.3	125	8.0	51	97	61	0	0	4	0
SACREMENTO	65	49	73	43	57	1	1.1	.6	.3	2.1	117	5.1	40	98	62	0	0	4	0
SAN DIEGO	69	59	71	54	64	1	.3	0	.3	.5	63	2.0	28	90	64	0	0	1	0
SAN FRANCISCO	62	49	67	44	56	0	1.9	1.4	.8	3.9	200	8.0	55	91	58	0	0	4	2
CO DENVER	58	30	67	23	44	3	T	-.2	T	4.0	159	15.8	111	74	22	0	6	1	0
GRAND JUNCTION	57	35	63	28	46	3	.2	.1	.2	3.1	173	10.8	154	68	29	0	3	1	0
PUEBLO	61	29	73	21	45	2	T	-.1	T	2.8	159	15.4	151	80	21	0	5	0	0
CT BRIDGEPORT	57	43	66	33	50	2	.5	-.3	.4	4.8	63	38.9	111	84	55	0	0	2	0
HARTFORD	56	34	66	23	45	0	.9	-.1	.8	4.8	55	38.6	103	82	44	0	4	2	1
DC WASHINGTON	59	42	66	33	50	-1	.9	.3	.9	6.6	94	34.0	100	80	44	0	0	2	1
FL APALACHICOLA	72	50	82	42	61	-2	.4	-.2	.4	4.0	33	54.3	111	88	46	0	0	1	0
DAYTONA BEACH	78	57	85	50	67	0	.1	-.6	.1	12.3	101	43.4	97	86	47	0	0	1	0
JACKSONVILLE	70	50	78	43	60	-3	.1	-.4	.1	15.4	139	47.1	96	93	55	0	0	1	0
KEY WEST	80	70	84	67	75	-2	0	-.8	0	8.8	71	38.2	107	73	51	0	0	0	0
MIAMI	81	61	89	56	71	-3	T	-.8	T	13.6	83	56.1	103	88	47	0	0	1	0
ORLANDO	77	57	84	51	67	-2	0	-.4	0	7.0	78	42.2	94	96	45	0	0	0	0
TALLAHASSEE	74	44	82	32	59	-2	.3	-.4	.3	4.3	41	52.9	92	91	39	0	1	1	0
TAMPA	78	55	84	44	66	-2	0	-.4	0	4.8	53	31.8	73	87	45	0	0	0	0
WEST PALM BEACH	80	62	86	54	71	-2	T	-.9	T	12.7	69	57.5	103	93	50	0	0	1	0
GA ATLANTA	62	42	73	37	52	-2	.5	-.2	.3	2.1	31	50.2	120	81	38	0	0	2	0
AUGUSTA	68	39	79	30	53	-3	.1	-.3	.1	1.5	24	42.5	111	93	39	0	3	2	0
MACON	69	43	80	33	56	-2	.6	.2	.5	1.7	29	41.1	105	87	37	0	0	2	1
SAVANNAH	69	44	78	34	56	-3	T	-.4	T	9.2	117	47.9	105	88	41	0	0	0	0
HI HILO	80	67	83	64	73	-1	4.9	1.5	4.2	11.4	53	74.2	70	90	62	0	0	5	1
HONOLULU	85	74	87	73	80	2	.1	-.7	.1	3.3	92	8.4	47	80	55	0	0	1	0
KAHULUI	89	71	93	65	80	4	T	-.5	T	T	0	6.8	44	78	48	2	0	0	0
LIHUE	82	74	83	72	78	2	.8	-.5	.4	4.6	53	15.1	43	80	61	0	0	5	0
ID BOISE	46	36	50	30	41	-1	.6	.4	.3	2.3	133	11.0	116	81	51	0	1	4	0
LEWISTON	53	37	59	32	45	3	.3	0	.2	1.1	52	9.8	92	84	47	0	1	2	0
POCATELLO	44	28	49	24	36	-2	.3	0	.2	1.9	101	12.2	131	83	53	0	7	3	0
IL CHICAGO	54	34	64	23	44	1	.7	.2	.6	8.5	135	29.5	99	96	63	0	4	3	1
MOLINE	58	38	73	25	48	6	.9	.4	.8	11.1	157	35.1	103	84	48	0	2	3	1
PEORIA	59	38	75	25	49	5	1.7	1.2	1.2	10.6	157	36.1	114	90	51	0	2	2	2
QUINCY	60	41	76	28	50	6	.8	.3	.8	10.4	127	35.5	102	88	47	0	2	3	1
ROCKFORD	53	34	63	22	44	3	1.2	.6	.9	9.7	131	29.3	88	89	54	0	2	3	1
SPRINGFIELD	60	39	73	26	50	4	1.3	.8	1.3	11.5	184	36.3	119	89	51	0	2	2	1
IN EVANSVILLE	61	41	69	31	51	3	1.2	.4	1.0	14.2	230	40.9	114	89	51	0	2	2	1
FORT WAYNE	56	40	65	28	48	5	.9	.2	.4	7.4	125	26.6	88	86	60	0	2	2	0
INDIANAPOLIS	59	40	68	28	50	5	1.6	.9	1.2	10.7	172	35.8	105	92	58	0	2	4	1
SOUTH BEND	54	41	60	31	47	4	.8	.1	.5	9.6	129	28.9	87	85	60	0	1	3	1
IA DES MOINES	57	36	65	29	47	4	.4	0	.2	9.4	164	38.5	133	89	47	0	3	2	0
SIOUX CITY	55	32	63	24	43	3	1.7	1.5	1.7	7.0	155	32.4	135	78	42	0	4	1	1
WATERLOO	54	34	61	22	44	5	.5	.1	.5	8.1	130	32.0	104	90	53	0	3	2	0
KS CONCORDIA	60	38	70	25	49	5	.1	-.2	.1	6.1	118	25.1	97	86	45	0	1	1	0
DODGE CITY	63	38	74	31	51	5	T	-.2	T	3.2	95	16.4	83	69	29	0	1	1	0
GOODLAND	57	32	67	27	45	4	T	-.1	T	3.5	138	20.2	130	79	28	0	2	0	0
TOPEKA	65	41	73	30	53	7	T	-.4	T	8.7	127	35.4	114	91	42	0	2	1	0
WICHITA	65	41	70	32	53	6	T	-.4	T	4.9	76	22.5	84	88	37	0	1	0	0
KY BOWLING GREEN	61	41	69	29	51	2	2.2	1.3	1.2	11.6	162	50.9	121	96	52	0	1	5	2
LEXINGTON	56	40	65	29	48	1	1.7	1.0	.6	8.0	124	35.0	88	94	50	0	2	5	3
LOUISVILLE	58	41	65	31	50	1	2.2	1.4	.6	8.8	124	39.1	103	85	55	0	1	4	3
LA ALEXANDRIA	72	52	77	43	62	3	T	-1.1	T	14.0	169	57.3	122	84	47	0	0	0	0
BATON ROUGE	75	51	80	43	63	2	0	-.8	0	18.5	227	46.4	97	90	44	0	0	0	0
LAKE CHARLES	76	54	80	46	65	3	.4	-.4	.4	19.6	201	55.6	122	95	48	0	0	1	0
NEW ORLEANS	74	54	78	47	64	2	.2	-.6	.2	6.9	72	46.9	91	77	41	0	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 17, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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	.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	2	0
ME CARIBOU	44	28	53	19	36	1	.6	-.2	.3	4.1	53	31.0	99	86	59	0	4	2	0
PORTLAND	50	32	54	21	41	-1	.8	-.3	.6	4.9	56	41.7	116	92	56	0	5	2	1
MD BALTIMORE	58	38	68	28	48	-1	.8	.1	.5	5.0	66	32.8	90	85	41	0	2	2	1
SALISBURY	62	39	68	30	51	1	.1	-.6	.1	2.0	23	37.3	94	96	48	0	2	2	0
MA BOSTON	54	39	66	30	47	-1	.4	-.5	.4	6.8	84	46.0	126	83	51	0	2	2	0
CHATHAM	53	44	57	37	49	1	.1	-.9	.1	7.4	83	45.0	116	—	—	0	0	1	0
MI ALPENA	48	29	56	17	39	0	.4	-.1	.4	8.0	143	27.7	110	95	61	0	5	2	0
DETROIT	54	36	61	20	45	2	1.0	.5	.6	6.1	120	22.5	84	82	57	0	2	3	1
FLINT	54	38	62	26	46	4	1.2	.7	.7	6.9	133	25.3	98	89	62	0	2	4	1
GRAND RAPIDS	54	39	59	27	47	5	1.1	.4	1.1	7.8	111	23.7	79	87	61	0	2	1	1
HOUGHTON LAKE	47	31	52	20	39	1	.7	.1	.6	5.2	91	25.2	102	93	69	0	3	3	1
LANSING	53	35	61	23	44	3	1.0	.5	.8	7.4	137	24.4	95	92	61	0	2	2	1
MARQUETTE	41	25	50	17	33	0	.5	-.2	.3	7.2	88	28.2	86	95	67	0	6	5	0
MUSKEGON	51	37	55	26	44	2	1.5	.8	1.4	6.0	92	24.4	91	89	61	0	2	3	1
SAULT STE. MARIE	42	31	48	22	36	0	.8	0	.3	11.3	145	28.7	100	98	69	0	4	6	0
MN ALEXANDRIA	42	27	63	20	35	1	T	-.3	T	10.0	219	31.0	134	95	59	0	6	0	0
DULUTH	38	25	54	17	31	-1	.1	-.3	.1	9.2	154	24.4	89	85	58	0	7	2	0
INT'L FALLS	35	21	44	12	28	-2	.1	-.3	0	6.4	119	18.9	84	90	64	0	7	2	0
MINNEAPOLIS	47	31	59	22	39	2	T	-.3	T	8.2	171	34.2	138	73	44	0	5	1	0
ROCHESTER	45	31	57	23	38	2	1.3	.9	1.2	7.4	132	25.9	98	84	54	0	4	2	1
MS GREENWOOD	68	49	74	39	58	3	.8	-.1	.8	15.4	206	46.9	105	92	45	0	0	1	1
JACKSON	71	48	77	38	60	3	.2	-.7	.2	9.6	131	42.0	95	95	42	0	0	1	0
MERIDIAN	72	45	78	37	59	3	T	-.7	T	11.7	165	46.5	103	92	40	0	0	1	0
MO CAPE GIRARDEAU	64	46	70	34	55	—	1.4	.6	1.4	18.6	259	39.5	103	93	51	0	0	2	1
COLUMBIA	63	42	77	30	52	6	.1	-.4	.1	12.2	158	43.8	133	87	42	0	1	1	0
KANSAS CITY	62	41	70	31	51	5	T	-.4	T	9.9	127	34.4	105	93	44	0	2	1	0
SAINT LOUIS	63	43	73	32	53	5	1.2	.6	.7	18.9	325	44.2	147	91	50	0	1	3	1
SPRINGFIELD	63	43	75	31	53	5	T	-.6	T	12.5	149	36.0	103	81	47	0	1	1	0
MT BILLINGS	46	29	55	14	38	0	.5	.3	.5	2.3	84	9.2	67	74	42	0	4	1	1
GLASGOW	43	26	51	23	35	2	0	-.1	0	1.3	87	5.9	54	94	59	0	7	0	0
GREAT FALLS	47	29	55	22	38	1	.1	-.2	.1	1.7	79	10.5	75	73	38	0	6	1	0
HAVRE	43	28	50	22	35	2	T	-.1	T	1.7	104	6.0	58	89	58	0	5	0	0
HELENA	46	28	49	21	37	3	T	-.1	T	1.7	100	8.4	81	77	40	0	6	2	0
KALISPELL	41	30	47	25	36	3	.1	-.2	.1	4.7	190	13.7	101	80	55	0	5	2	0
MILES CITY	48	28	55	23	38	3	.1	-.1	.1	.9	41	7.6	58	87	42	0	6	1	0
MISSOULA	41	30	49	22	36	2	T	-.2	T	2.2	104	12.1	105	89	58	0	6	1	0
NE GRAND ISLAND	57	32	71	26	45	4	1.2	1.0	1.2	4.9	131	30.1	136	77	36	0	4	1	1
LINCOLN	59	32	70	25	46	4	.1	-.2	.1	5.3	108	33.0	129	87	42	0	3	1	0
NORFOLK	57	31	67	23	44	4	1.5	1.3	1.5	6.5	176	32.5	143	74	32	0	3	1	1
NORTH PLATTE	54	24	69	20	39	1	.4	.2	.4	3.1	115	20.0	107	84	37	0	7	1	0
OMAHA	57	36	67	27	47	5	.6	.3	.5	8.4	144	33.3	117	75	56	0	2	2	1
SCOTTSBLUFF	54	25	62	19	40	1	.1	0	.1	1.5	72	12.2	89	72	28	0	7	2	0
VALENTINE	53	24	63	11	39	1	.1	0	.1	1.2	48	18.5	111	77	36	0	6	1	0
NV ELY	52	25	65	17	38	2	.1	0	.1	5.3	354	13.1	166	82	33	0	5	1	0
LAS VEGAS	70	48	80	40	59	3	0	-.1	0	.5	69	4.2	120	45	17	0	0	0	0
RENO	52	30	58	26	41	-1	.5	.3	.3	1.1	144	3.0	52	83	35	0	5	2	0
WINNEMUCCA	50	28	56	21	39	-1	.6	.4	.3	3.0	268	11.4	178	79	38	0	5	4	0
NH CONCORD	52	29	60	16	40	0	1.2	.3	1.0	6.7	90	38.0	124	98	56	0	4	3	1
NJ ATLANTIC CITY	61	42	71	28	51	3	.4	-.5	.4	3.2	45	35.1	98	86	51	0	2	2	0
NM ALBUQUERQUE	63	34	70	25	49	2	0	-.1	0	4.3	231	10.2	138	62	19	0	1	0	0
CLOVIS	67	39	76	29	53	4	0	-.1	0	5.1	129	22.4	137	59	21	0	1	0	0
ROSWELL	73	40	83	36	57	5	0	-.1	0	3.2	117	15.8	172	60	17	0	0	0	0
NY ALBANY	52	34	61	22	43	1	1.0	.3	.8	5.1	71	33.4	108	94	48	0	3	3	1
BINGHAMTON	49	34	57	22	41	0	1.0	.3	.3	4.6	63	33.9	106	88	52	0	3	4	0
BUFFALO	50	38	57	29	44	1	1.1	.2	.5	6.4	86	32.7	104	90	55	0	3	4	0
NEW YORK	59	44	70	35	51	1	1.8	1.0	1.8	7.5	95	46.7	128	83	48	0	0	2	1
ROCHESTER	52	38	59	26	45	1	.6	0	.3	4.8	80	29.6	110	85	50	0	2	4	0
SYRACUSE	49	34	55	20	41	-2	1.6	.8	.8	6.3	83	31.5	94	97	55	0	3	4	1
NC ASHEVILLE	55	33	62	25	44	-4	1.4	.6	1.0	4.3	52	43.2	103	97	47	0	4	2	1
CHARLOTTE	59	36	70	30	48	-5	1.1	.5	.9	3.6	50	41.5	109	92	45	0	2	3	1
GREENSBORO	58	36	68	28	47	-4	.3	-.2	.3	2.6	34	46.9	125	87	41	0	3	1	0
HATTERAS	66	55	78	50	60	2	2.2	1.1	1.7	6.6	54	40.8	85	91	64	0	0	3	1
NEW BERN	66	45	74	37	56	-1	.8	.1	.8	15.3	152	57.1	120	94	53	0	0	2	1
RALEIGH	61	37	69	29	49	-4	.4	-.3	.3	3.4	50	42.6	116	91	42	0	3	3	0
WILMINGTON	67	44	76	39	56	-2	.3	-.5	.3	19.7	206	55.5	116	92	46	0	0	1	0
ND BISMARCK	43	22	51	16	33	0	T	-.1	T	1.9	81	13.5	93	89	48	0	7	0	0
FARGO	40	24	52	18	32	-1	T	-.2	T	7.8	228	19.1	103	85	56	0	6	1	0
GRAND FORKS	36	20	47	12	28	-3	T	-.2	T	3.3	97	19.3	113	84	58	0	7	0	0
WILLISTON	39	21	52	15	30	-1	T	-.1	T	2.7	118	9.9	76	90	58	0	7	0	0
OH AKRON-CANTON	52	38	56	28	45	1	1.9	1.3	.9	7.9	132	31.8	101	90	56	0	3	5	2
CINCINNATI	56	40	62	28	48	2	2.9	2.2	1.1	11.5	179	35.8	102	90	57	0	2	4	3
CLEVELAND	52	38	55	26	45	1	1.9	1.3	1.2	7.2	115	36.4	118	81	50	0	3	5	1
COLUMBUS	53	39	57	27	46	2	2.0	1.4	.9	7.9	143	29.4	90	86	53	0	2	5	2

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 17, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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	.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
TOLEDO	53	37	60	22	45	3	.7	.2	.3	5.1	99	26.5	96	95	64	0	2	3	0
YOUNGSTOWN	51	38	54	29	45	2	2.0	1.4	.8	7.3	110	33.3	102	96	63	0	2	5	2
OK OKLAHOMA CITY	69	49	76	36	59	7	0	-.4	0	7.8	117	23.5	82	78	28	0	0	0	0
TULSA	71	50	79	38	60	8	0	-.6	0	11.0	127	38.5	109	78	30	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	6	3
BURNS	44	23	46	14	34	-5	.4	.2	.3	1.6	90	8.9	141	92	67	0	7	5	0
MEDFORD	54	41	64	36	48	2	.5	-.1	.3	4.2	126	11.7	81	97	64	0	0	5	0
PENDLETON	54	37	61	32	45	2	.2	-.1	.1	2.0	96	10.4	108	83	49	0	1	4	0
PORTLAND	56	43	59	36	49	2	1.3	.2	.6	9.5	151	29.2	106	93	62	0	0	6	1
SALEM	54	37	59	31	46	0	2.1	.8	1.0	10.8	161	34.1	116	98	70	0	2	6	2
PA ALLENTOWN	58	38	66	25	48	3	.7	-.1	.5	6.1	75	48.4	127	78	37	0	3	4	1
ERIE	53	41	58	28	47	3	1.7	.8	.7	9.1	108	32.1	95	89	52	0	1	5	2
HARRISBURG	55	37	63	26	46	-1	1.1	.3	.6	3.9	53	38.4	114	88	41	0	2	5	1
PHILADELPHIA	59	41	68	30	50	1	.8	0	.7	5.2	72	40.6	113	79	40	0	1	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	5	2
SCRANTON	53	37	62	23	45	1	.7	-.1	.4	4.6	65	34.6	113	84	46	0	2	4	0
RI PROVIDENCE	57	38	68	28	48	1	.6	-.4	.6	6.6	77	44.1	116	81	48	0	3	2	1
SC CHARLESTON	66	44	74	35	55	-4	.6	.1	.6	7.6	90	44.8	95	88	48	0	0	1	1
COLUMBIA	64	35	75	27	50	-6	.2	-.4	.1	1.7	23	42.2	96	97	45	0	3	2	0
FLORENCE	63	38	73	30	51	-6	T	-.5	T	2.1	30	38.4	97	97	49	0	3	1	0
GREENVILLE	60	37	69	29	48	-5	1.1	.4	.6	4.9	55	54.7	123	86	43	0	2	3	1
SD ABERDEEN	45	25	56	16	35	1	T	-.1	T	3.7	139	20.7	122	86	51	0	6	0	0
HURON	51	26	60	19	38	2	T	-.2	T	4.3	143	29.0	164	82	43	0	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	0
SIOUX FALLS	53	28	63	20	41	4	T	-.2	T	5.0	108	27.7	121	76	40	0	5	1	0
TN CHATTANOOGA	61	39	67	29	50	-1	.8	-.1	.7	7.9	94	43.5	98	89	44	0	2	2	1
KNOXVILLE	62	39	68	30	51	0	1.0	.2	.8	5.2	76	44.2	110	79	36	0	2	3	1
MEMPHIS	68	50	74	41	59	6	2.4	1.5	1.5	12.8	179	50.1	114	89	46	0	0	4	2
NASHVILLE	62	43	72	31	53	2	1.0	.3	1.0	8.7	120	49.7	120	86	46	0	1	3	1
TX ABILENE	72	49	81	38	60	5	0	-.4	0	9.1	156	17.5	81	69	28	0	0	0	0
AMARILLO	68	40	79	35	54	6	0	-.2	0	4.1	125	17.1	93	55	19	0	0	0	0
AUSTIN	77	56	83	46	66	5	0	-.5	0	11.2	145	21.2	75	88	43	0	0	0	0
BEAUMONT	78	59	82	49	68	6	.6	-.4	.6	20.2	184	52.6	116	90	48	0	0	2	1
BROWNSVILLE	83	64	85	55	74	4	0	-.4	0	20.4	220	38.4	163	91	53	0	0	0	0
CORPUS CHRISTI	80	61	84	52	71	4	0	-.4	0	10.7	109	20.7	74	96	53	0	0	0	0
DEL RIO	75	54	83	45	65	3	T	-.2	T	4.7	90	11.9	73	88	36	0	0	0	0
EL PASO	76	47	81	36	61	7	0	-.1	0	4.3	191	15.0	208	56	16	0	0	0	0
FORT WORTH	75	52	83	42	63	5	0	-.4	0	7.6	120	25.5	96	84	35	0	0	0	0
GALVESTON	75	65	78	56	70	5	.1	-.5	.1	14.8	160	31.1	91	80	53	0	0	1	0
HOUSTON	79	56	84	45	67	5	T	-.8	T	20.5	212	43.7	112	79	40	0	0	0	0
LUBBOCK	72	42	82	37	57	6	0	-.2	0	1.8	44	11.5	68	59	18	0	0	0	0
MIDLAND	73	44	82	36	58	4	0	-.1	0	3.9	105	13.3	103	74	20	0	0	0	0
SAN ANGELO	73	46	82	36	59	2	0	-.3	0	6.7	123	14.4	85	89	29	0	0	0	0
SAN ANTONIO	79	55	89	41	67	5	0	-.6	0	7.0	95	19.5	74	85	39	0	0	0	0
VICTORIA	80	58	85	47	69	5	0	-.5	0	11.1	109	28.5	86	92	48	0	0	0	0
WACO	74	51	82	39	62	3	0	-.6	0	13.2	188	27.6	100	93	53	0	0	0	0
WICHITA FALLS	73	48	82	40	61	6	0	-.4	0	7.8	120	17.6	71	83	29	0	0	0	0
UT BLANDING	54	29	61	20	41	0	0	-.2	0	3.0	113	8.4	87	72	31	0	5	0	0
CEDAR CITY	58	32	66	20	45	3	T	-.2	T	1.5	74	11.7	130	67	25	0	4	1	0
SALT LAKE CITY	53	36	61	32	44	2	.5	.2	.5	6.2	254	20.0	153	84	43	0	1	3	0
VT BURLINGTON	49	34	58	22	42	2	1.3	.6	.9	6.1	88	31.4	106	81	48	0	3	4	1
VA NORFOLK	62	47	72	39	55	0	.4	-.4	.3	2.9	33	40.2	100	83	50	0	0	3	0
RICHMOND	62	37	70	29	50	-2	.1	-.7	.1	4.1	50	41.3	107	84	42	0	3	2	0
ROANOKE	59	37	71	29	48	-1	1.2	.5	1.0	5.3	70	40.2	116	81	40	0	2	3	1
WA COLVILLE	43	31	48	26	37	1	.4	0	.3	3.1	118	20.3	150	88	74	0	4	3	0
QUILLAYUTE	52	39	56	32	46	1	2.2	-.9	.7	22.6	111	88.7	113	99	78	0	1	7	2
SEATTLE-TACOMA	52	42	53	38	47	1	1.5	.3	.7	7.5	104	28.2	99	93	61	0	0	5	1
SPOKANE	46	32	49	28	39	2	.5	.1	.2	2.7	112	13.3	105	96	63	0	4	3	0
YAKIMA	51	29	55	24	40	0	.5	.2	.4	1.6	143	6.8	113	87	55	0	5	3	0
WV BECKLEY	53	36	60	24	45	0	1.5	.8	.7	5.5	82	35.4	96	90	54	0	3	5	1
CHARLESTON	58	40	63	27	49	1	1.7	1.1	.5	8.2	126	34.4	92	90	44	0	3	4	2
HUNTINGTON	57	40	62	26	48	0	1.3	.7	.7	9.0	143	34.0	95	88	43	0	3	5	1
PARKERSBURG	57	42	60	29	49	2	1.8	1.2	.6	6.5	113	27.9	76	99	55	0	3	5	3
WI GREEN BAY	47	32	56	23	39	2	.9	.4	.5	12.2	210	33.8	133	88	51	0	4	4	1
LA CROSSE	49	31	60	25	40	1	.5	.2	.4	8.1	138	29.9	106	88	52	0	4	3	0
MADISON	48	30	56	19	39	0	.8	.3	.7	9.9	168	30.5	109	85	56	0	4	2	1
MILWAUKEE	51	35	60	26	43	2	1.5	1.1	1.5	10.3	181	35.2	128	91	58	0	3	1	1
WAUSAU	45	29	56	21	37	2	.9	.5	.5	12.3	184	38.0	130	92	55	0	5	3	0
WY CASPER	45	26	60	21	36	0	.2	.1	.2	1.5	76	12.1	115	82	43	0	7	2	0
CHEYENNE	49	26	60	17	38	1	T	-.1	T	2.2	112	17.0	135	80	31	0	7	0	0
LANDER	46	24	60	17	35	1	T	-.2	T	1.5	62	12.4	102	72	33	0	7	1	0
SHERIDAN	43	20	53	7	32	-4	.2	0	.2	2.4	92	13.3	97	85	46	0	7	2	0
PR SAN JUAN	82	76	85	74	79	-1	2.5	1.2	1.0	13.0	95	38.8	85	84	72	0	0	7	2

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 11-17-1984
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE	CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM NORM PRCT	CUM DEV FROM L YR PRCT
AL	BIRMINGHAM	BHM	124	34	-1	245	-101	-78	-29	-24
AL	MOBILE	MOB	76	23	-6	136	-28	-54	-17	-28
AL	MONTGOMERY	MGM	95	25	-3	171	-73	-14	-30	-8
AK	ANCHORAGE	ANC	355	52	62	2512	-162	-132	-6	-5
AK	BARROW	BRW	503	43	37	5113	-274	-757	-5	-13
AK	FAIRBANKS	FAI	484	57	67	3274	-15	-11	0	0
AK	JUNEAU	JNU	248	21	27	2361	2	86	0	4
AK	KODIAK	ADQ	208	-3	-13	2123	-261	159	-11	8
AK	NOME	OME	325	-13	9	3495	-81	49	-2	1
AZ	FLAGSTAFF	FLG	181	-20	29	1354	-22	190	-2	16
AZ	PHOENIX	PHX	4	-31	4	14	-69	12	**	**
AZ	TUCSON	TUS	31	-13	17	92	-31	69	-25	300
AZ	WINSLOW	INW	140	-14	20	689	55	223	9	48
AZ	YUMA	YUM	3	-17	3	7	-38	7	**	**
AR	FORT SMITH	FSM	110	3	-17	346	-45	15	-12	5
AR	LITTLE ROCK	LRI	118	20	-6	330	-24	8	-7	2
CA	BAKERSFIELD	BFL	53	-8	31	243	69	183	40	305
CA	EUREKA	EKA	67	-28	-1	1019	-317	309	-24	44
CA	FRESNO	FAT	64	-18	23	251	-14	159	-5	173
CA	LOS ANGELES	LAX	39	6	25	97	-85	80	-47	471
CA	RED BLUFF	RBL	99	17	25	399	135	211	51	112
CA	SAN DIEGO	SAN	15	-13	15	24	-76	24	-76	**
CA	SAN FRANCISCO	SFO	63	-10	7	380	-207	181	-35	91
CA	STOCKTON	SCK	80	-2	3	318	68	175	27	122
CO	DENVER	DEN	172	-15	19	1175	186	394	19	50
CO	GRAND JUNCTION	GJT	161	-16	16	848	51	340	6	67
CO	PUEBLO	PUB	153	-22	20	937	93	274	11	41
CT	BRIDGEPORT	BDR	130	-4	-16	588	-56	-137	-9	-19
CT	HARTFORD	BDL	155	-6	-15	858	-20	-38	-2	-4
DE	WILMINGTON	ILG	143	9	-10	560	-68	-128	-11	-19
DC	WASHINGTON	DCA	129	17	-14	374	-92	-102	-20	-21
FL	APALACHICOLA	AQQ	68	33	-3	114	16	19	**	**
FL	DAYTONA BEACH	DAB	28	9	-34	37	2	-33	**	**
FL	FORT MEYER	FMY	11	6	1	11	2	1	**	**
FL	JACKSONVILLE	JAX	71	35	-11	117	17	10	17	9
FL	KEY WEST	EYW	0	0	0	0	0	0	**	**
FL	MIAMI	MIA	7	7	3	7	7	3	**	**
FL	ORLANDO	MCO	31	21	-4	40	22	5	**	**
FL	TALLAHASSEE	TLH	80	30	-6	144	4	-7	3	-5
FL	TAMPA	TPA	32	18	4	43	14	13	**	**
FL	WEST PALM BEACH	PBI	10	10	-1	10	10	-1	**	**
GA	ATLANTA	ATL	125	34	-21	264	-79	-117	-23	-31
GA	AUGUSTA	AGS	111	33	-2	214	-66	-49	-24	-19
GA	MACON	MCN	95	27	-11	187	-52	-12	-22	-6
GA	SAVANNAH	SAV	83	27	-5	157	-21	16	-12	11
HI	HILO-HAWAII	ITO	0	0	0	0	0	0	**	**
HI	HONOLULU-OAHU	HNL	0	0	0	0	0	0	**	**
HI	KAHULUI-MAUI	OGG	0	0	0	0	0	0	**	**
HI	LIHUE-KAUAI	LIH	0	0	0	0	0	0	**	**
ID	BOISE	BOI	166	-11	29	1156	173	367	18	47
ID	LEWISTON	LWS	160	-16	37	1034	55	208	6	25
ID	POCATELLO	PIH	193	-17	19	1332	70	275	6	26
IL	CHICAGO	ORD	210	35	-3	970	113	68	13	8
IL	MOLINE	MLI	200	20	11	870	4	41	0	5
IL	PEORIA	PIA	200	24	5	784	-52	48	-6	7
IL	ROCKFORD	RFD	208	17	-4	956	-33	-16	-3	-2
IL	SPRINGFIELD	SPI	181	21	-6	674	-47	12	-7	2
IN	EVANSVILLE	EVV	176	37	3	512	-105	-40	-17	-7
IN	FORT WAYNE	FWA	184	11	-9	704	-189	-34	-21	-5
IN	INDIANAPOLIS	IND	179	17	-8	600	-167	-60	-22	-9
IN	SOUTH BEND	SBN	187	15	1	762	-130	-43	-15	-5
IA	DES MOINES	DSM	183	-1	0	935	76	115	9	14
IA	DUBUQUE	DBQ	209	4	-7	1002	-74	18	-7	2
IA	SIOUX CITY	SUX	178	-23	-15	1019	57	164	6	19
KS	CONCORDIA	CNK	141	-28	-31	779	54	75	7	11
KS	DODGE CITY	DDC	113	-46	-15	668	13	155	2	30
KS	GOODLAND	GLD	148	-42	-9	1016	64	253	7	33
KS	TOPEKA	TOP	139	-17	-23	696	-3	144	0	26
KS	WICHITA	ICT	125	-20	-27	592	7	74	1	14
KY	LEXINGTON	LEX	191	51	15	522	-129	-61	-20	-10
KY	LOUISVILLE	SDF	172	40	5	483	-104	-68	-18	-12
LA	BATON ROUGE	BTR	64	12	-8	113	-43	-49	-28	-30
LA	LAKE CHARLES	LCH	56	11	10	99	-47	7	-32	8
LA	NEW ORLEANS	MSY	51	8	-15	88	-34	-33	-28	-27
LA	SHREVEPORT	SHV	65	-4	-21	158	-67	-70	-30	-31
ME	CARIBOU	CAR	186	-47	-57	1575	-207	18	-12	1
ME	PORTLAND	PWM	147	-35	-34	1114	-113	11	-9	1
MD	BALTIMORE	BWI	141	12	-20	521	-67	-143	-11	-22
MA	BOSTON	BOS	126	-9	-24	824	93	145	13	21
MI	ALPENA	APN	231	24	-42	1416	-30	9	-2	1
MI	DETROIT	DTW	212	35	-11	921	-43	-41	-4	-4
MI	FLINT	FNT	213	31	-14	970	-103	12	-10	1
MI	GRAND RAPIDS	GRR	190	6	-21	938	-99	-67	-10	-7
MI	HOUGHTON LAKE	HTL	232	23	-7	1282	-147	17	-10	1
MI	LANSING	LAN	218	35	-15	1067	12	-35	1	-3
MI	MARQUETTE	MQT	253	10	-9	1717	-40	145	-2	9
MI	MUSKEGON	MKG	192	13	-12	1017	-21	-7	-2	-1
MI	SAULT ST MARIE	SSM	251	28	-13	1642	-29	200	-2	14
MN	DULUTH	DLH	259	2	3	1681	-89	233	-5	16
MN	INT'L FALLS	INL	283	3	11	1876	-16	239	-1	15
MN	MINNEAPOLIS	MSP	219	-3	-9	1203	13	76	1	7
MN	ROCHESTER	RST	224	-2	-17	1294	22	65	2	5
MN	SAINT CLOUD	STC	246	0	8	1448	6	172	0	13
MS	JACKSON	JAN	103	30	3	195	-70	-70	-26	-26
MS	MERIDIAN	MEI	101	24	-9	188	-112	-101	-37	-35
MO	COLUMBIA	COU	171	21	0	660	-5	-7	-1	-1
MO	KANSAS CITY	MCI	148	-5	-23	718	71	63	11	13
MO	SAINT LOUIS	STL	163	20	-6	557	-66	27	-11	5
MO	SPRINGFIELD	SGF	151	11	7	559	-44	84	-7	18
MT	BILLINGS	BIL	169	-44	16	1522	281	624	23	69
MT	GLASGOW	GGW	209	-42	25	1670	158	407	10	32
MT	GREAT FALLS	GTF	181	-39	25	1689	275	431	19	34
MT	HAVRE	HVR	259	10	93	1918	376	569	24	42
MT	HELENA	HLN	203	-35	24	1597	-8	191	0	14
MT	KALISPELL	FCA	215	-25	33	1889	69	192	4	11
MT	MILES CITY	MLS	222	-11	54	1492	174	417	13	39
MT	MISSOULA	MSO	208	-25	25	1611	4	-1	0	0
NE	GRAND ISLAND	GRI	167	-26	-16	972	15	192	2	25
NE	LINCOLN	LNK	164	-22	-25	908	33	174	4	24
NE	NORFOLK	OFK	178	-26	-22	975	-70	87	-7	10
NE	NORTH PLATTE	LBF	187	-25	12	1201	74	306	7	34
NE	OMAHA	ON4	168	-10	-26	906	83	80	10	10
NE	VALENTINE	VTN	196	-23	12	1252	77	264	7	27
NV	ELY	ELY	192	-26	30	1446	2	296	0	26
NV	LAS VEGAS	LAS	71	-9	37	251	20	187	9	292
NV	RENO	RNO	163	-14	13	1063	-65	292	-6	38
NV	WINNEMUCCA	WMC	171	-20	-1	1223	26	239	2	24
NH	CONCORD	CON	154	-37	-41	1125	-98	-23	-8	-2
NJ	ATLANTIC CITY	ACY	146	13	-11	489	-148	-233	-23	-32
NM	ALBUQUERQUE	ABQ	122	-25	15	731	141	302	24	70
NM	ROSWELL	ROW	83	-29	20	457	55	206	14	82
NY	ALBANY	ALB	175	-2	-31	938	-99	-167	-10	-15
NY	BINGHAMTON	BGM	196	8	-27	1027	-139	-17	-12	-2
NY	BUFFALO	BUF	200	29	-27	1030	32	54	3	6
NY	NEW YORK	LGA	128	4	-16	445	-118	-173	-21	-28
NY	ROCHESTER	ROC	177	9	-43	880	-99	-54	-10	-6
NY	SYRACUSE	SYR	189	21	-35	1095	106	8	11	1
NC	ASHEVILLE	AVL	167	37	3	540	-107	-72	-17	-12
NC	CAPE HATTERAS	HAT	86	24	-4	152	-63	-71	-29	-32
NC	CHARLOTTE	CLT	137	38	-10	346	-54	-107	-13	-24
NC	GREENSBORO	GSO	142	28	-17	432	-65	-159	-13	-27
NC	RALEIGH DURHAM	RDU	130	26	-12	366	-68	-139	-16	-28
NC	WILMINGTON	ILM	79	13	-25	181	-63	-80	-26	-31
ND	BISMARCK	BIS	237	-19	5	1588	75	187	5	13
ND	FARGO	FAR	260	2	29	1524	52	107	4	8
ND	WILLISTON	ISN	255	-8	34	1837	244	547	15	42
OH	AKRON-CANTON	CAK	198	31	-8	858	-43	34	-5	4
OH	CLEVELAND	CLE	193	32	-18	866	-12	-9	-1	-1
OH	COLUMBUS	CMH	192	33	-15	715	-95	-94	-12	-12
OH	CINCINNATI	CVG	188	38	1	591	-128	-140	-18	-19
OH	DAYTON	DAY	200	40	-9	751	-32	-90	-4	-11
OH	TOLEDO	TOL	208	30	-21	927	-39	-33	-4	-3
OH	YOUNGSTOWN	YNG	197	25	-21	889	-106	-78	-11	-8
OK	OKLAHOMA CITY	OKC	93	-21	-13	416	7	91	2	28
OK	TULSA	TUL	99	-12	-10	376	-30	93	-7	33
OR	ASTORIA	AST	121	-9	28	1224	34	125	3	11
OR	BURNS	4BW	204	-1	26	1691	388	221	30	15
OR	MEDFORD	MFR	129	-21	-6	777	-30	51	-4	7
OR	PENDLETON	PDT	154	-15	48	1036	91	186	10	22
OR	PORTLAND	PDX	117	-20	31	733	-123	67	-14	10
OR	SALEM	SLE	134	-9	47	906	-52	146	-5	19
PA	ALLENTOWN	ABE	144	-11	-32	632	-190	-191	-23	-23
PA	ERIE	ERI	174	6	-22	779	-213	-8	-21	-1
PA	HARRISBURG	CXY	152	6	-27	556	-164	-298	-23	-35
PA	PHILADELPHIA	PHL	143	10	-11	517	-96	-165	-16	-24
PA	PITTSBURGH	PIT	195	33	-21	761	-127	-148	-14	-16
PA	SCRANTON	AVP	171	4	-18	747	-212	-188	-22	-20
RI	PROVIDENCE	PVD	131	-17	-24	709	-106	-2	-13	0
SC	CHARLESTON	CHS	94	35	3	189	-20	31	-10	20
SC	COLUMBIA	CAE	119	42	-6	262	-37	-62	-12	-19
SC	GREENVILLE	GSP	125	27	-34	323	-69	-187	-18	-37
SD	ABERDEEN	ABR	235	-8	0	1396	65	207	5	17
SD	HURON	HON	205	-24	-12	1266	16	204	1	19
SD	RAPID CITY	RAP	185	-27	10	1251	33	207	3	20
SD	SIOUX FALLS	FSD	190	-34	-21	1180	-18	145	-2	14
TN	CHATTANOOGA	CHA	155	43	3	347	-111	-112	-24	-24
TN	KNOXVILLE	TYS	161	48	5	348	-127	-154	-27	-31
TN	MEMPHIS	MEM	126	29	2	279	-83	-26	-23	-9
TN	NASHVILLE	BNA	157	42	-2	386	-87	-44	-18	-10
TX	ABILENE	ABI	59	-26	14	305	23	180	8	144
TX	AMARILLO	AMA	97	-43	3	600	42	209	8	53
TX	AUSTIN	AUS	33	-19	1	115	-31	59	-21	105
TX	BROWNSVILLE	BRO	0	-14	-7	2	-23	-11	**	**
TX	CORPUS CHRISTI	CRP	5	-22	-9	14	-55	-14	**	**
TX	DEL RIO	DRT	20	-27	-13	78	-47	28	-38	56
TX	EL PASO	ELP	74	-22	36	271	-33	135	-11	99
TX	FORT WORTH	DFW	57	-12	-5	208	0	31	0	18
TX	GALVESTON	GLS	15	-18	6	22	-57	-2	**	**
TX	HOUSTON	IAH	35	-12	-4	74	-63	-16	-46	-18
TX	LUBBOCK	LBB	85	-32	25	440	9	196	2	80
TX	MIDLAND ODESSA	MAF	72	-19	26	344	41	200	14	139
TX	SAN ANGELO	SJT	53	-25	11	266	23	179	9	206
TX	SAN ANTONIO	SAT	32	-14	-11	93	-47	13	-34	16
TX	VICTORIA	VCT	14	-22	-13	36	-58	-17	**	**
TX	WACO	ACT	45	-18	-7	162	-16	30	-9	23
TX	WICHITA FALLS	SPS	76	-15	-10	339	17	130	5	62
UT	SALT LAKE CITY	SLC	143	-33	19	901	15	314	2	53
VT	BURLINGTON	BTV	191	-4	-26	1167	-100	14	-8	1
VA	LYNCHBURG	LYH	135	10	-34	432	-148	-206	-26	-32
VA	NORFOLK	ORF	105	15	-18	240	-118	-157	-33	-40
VA	RICHMOND	RIC	125	13	-33	389	-113	-236	-23	-38
VA	ROANOKE	ROA	121	-5	-54	470	-128	-194	-21	-29
WA	QUILLAYUTE	UIL	143	-7	31	1493	38	94	3	7
WA	SEATTLE-TACOMA	SEA	127	-16	31	1025	-50	98	-5	11
WA	SPOKANE	GEG	190	-22	39	1406	68	317	5	29
WA	WALLA WALLA	ALW	139	-21	50	884	76	192	9	28
WA	YAKIMA	YKM	181	-8	54	1204	62	213	5	21
WV	BECKLEY	BKW	182	23	-48	739	-170	-255	-19	-26
WV	CHARLESTON	CRW	164	26	-17	486	-188	-143	-28	-23
WV	HUNTINGTON	HTS	173	38	-12	517	-153	-129	-23	-20
WV	PARKERSBURG	PKB	166	26	-17	501	-185	-168	-27	-25
WI	GREEN BAY	GRB	224	9	1	1199	-69	20	-5	2
WI	LACROSSE	LSE	210	2	-25	1087	-3	17	0	2
WI	MADISON	MSN	226	18	-2	1140	-41	-33	-3	-3
WI	MILWAUKEE	MKE	204	11	1	1005	-49	61	-5	6
WY	CASPER	CPR	192	-35	5	1606	232	522	17	48
WY	CHEYENNE	CYS	196	-18	20	1602	250	495	18	45
WY	LANDER	LND	212	-30	-11	1520	82	381	6	33
WY	SHERIDAN	SHR	215	-15	37	1627	188	593	13	57

National Agricultural Summary

November 12 to 18

HIGHLIGHTS: Fair weather in the Delta States allowed rapid cotton and soybean harvests until late-week showers slowed activities. Beneficial rain aided winter wheat growth across portions of the southern Plains. Heavy rain halted field activities in portions of northern California and the Pacific Northwest. Freezing temperatures pushed southward into northern Florida; crop damage was minimal. Soil moisture rated short to adequate in the southeast, southwest, and northern Plains, and generally adequate to surplus elsewhere in the Nation. Farmers had less than 4 days suitable for fieldwork in the lake States and generally 4-6 days available in all other regions.

Winter wheat seeding advanced to 94% completion, 2 points slower than last year and the average. Plants emerged on 81% of the seeded acreage, compared with the 87% average. Corn combining reached 87%, 4 points slower than normal. Sorghum was 93% harvested, equaling the average. Soybeans were 78% combined, trailing the 89% average. Cotton picking advanced to 56%, 10 points behind schedule. Fruit and vegetable harvests centered in Florida, Texas, Arizona, and California. Pastures and ranges were in fair to good condition in nearly all regions. Livestock rated fair to mostly good, with supplemental feeding in most northern areas.

SMALL GRAINS: Winter wheat seeding was 94% complete in the 15 major producing States, 2 points behind both last year and the average. Previous wet conditions left planting 33 points behind schedule in Illinois, 20 points behind in Missouri, and 15 points slower than normal in Indiana. Some acreage in the Corn Belt and Delta States may not be seeded as previously intended. Wheat emerged on 81% of the seeded acreage, 6 points behind usual. Emergence was 40 points behind schedule in Illinois, 25 points in Montana, 17 points in Indiana, and 15 points in both Missouri and Oklahoma. Planting and emergence were on schedule in Kansas. Favorable weather and adequate moisture spurred crop growth. Much needed rain benefited Oklahoma wheat. Stands rated good to fair with some weed problems in northwestern areas. Texas producers seeded wheat after harvesting corn and sorghum on the Plains. Early seeded fields showed excellent growth with favorable moisture. Montana's crop rated mostly fair with light wind damage in some areas.

CORN: Harvesting in the 17 major producing States was 87% complete, well behind last year's 97% and 91% average. Combining lagged normal by 30 points in Ohio, 18 points in Kentucky, 17 points in Indiana, and 16 points in Pennsylvania. Producers in the eastern Corn Belt were 79% finished, 12 points behind schedule. In contrast, western Corn Belt growers combined 94% of their acreage, 3 points ahead of normal.

SOYBEANS: Combining advanced to 78% completion in the 18 major producing States, compared to 89% last year and the average. Producers trailed normal by 20 points in the south central States, 18 points in the eastern Corn Belt; and were only 2 points behind scehdule in the southeast and western Corn Belt. During the week, growers in Arkansas harvested 27% of their acreage, and those in Mississippi harvested 23%.

COTTON: In the 14 major producing States, 56% of the acreage had been harvested, compared with 68% in 1983 and the 66% average. Progress was 25 points behind schedule in Arkansas and Missouri, and 23 points slower than normal in Louisiana and Mississippi. Only Arizona, California, and Oklahoma were ahead of schedule. During the week, picking ranged from 5% in Oklahoma to 20% harvested in New Mexico. Delta producers were able to harvest 15-16% of their acreage during the week. Texas producers are waiting for a killing freeze before harvesting in some areas. Harvesting was 38% finished in that State, 11 points behind average.

OTHER CROPS: Sorghum harvesting advanced to 93% completion, 1 point ahead of a year ago and equal to the average. Oklahoma growers harvested 40% of their acreage during the week, while Colorado producers combined 20%. Kansas and Texas producers harvested 10 and 8% during the week, respectively.

Peanut digging was virtually complete in the southeast. In Texas, 66% was harvested, 14 points behind normal. Digging gained momentum in the Cross Timbers and Edwards Plateau areas.

Tobacco growers graded, stripped, and marketed their crop. Kentucky burley was one-third stripped. The market is scheduled to open on the 19th. Burley, sun, and fire-cured tobacco were prepared for market in Virginia. Tobacco seedbed fumigation began in many areas.

FRUITS AND NUTS: Florida's citrus groves received increased irrigation. Fruit showed good color and almost no softening. Early harvesting was active. Arizona's Yuma growers picked lemons, grapefruit, Navel oranges, and a few sweet oranges. Salt River Valley producers harvested lemons, grapefruit, and a few tangerines. Avocado picking began in California. Harvests of dates, Emperor table grapes, kiwifruit, persimmons, Navel oranges, grapefruit, lemons, and tangerines continued. Growers pruned and sprayed vineyards and deciduous fruit orchards.

VEGETABLES: Freezing temperatures pushed southward into northern Florida, ending tender vegetable growth across most of southeast. Florida vegetable shipments increased 6% from the previous week. Volumes increased for most crops, except cucumbers held steady and sweet corn declined. Strawberries showed increasing bloom and fruit set. Fall vegetables made good growth in Texas. Producers harvested beets, broccoli, celery, cabbage, cucumbers, lettuce, onions, peppers, and tomatoes. Arizona lettuce harvesting was active. The Salt River Valley and Yuma growers harvested a variety of vegetables. California growers harvested light volumes of artichokes, cauliflower, and market tomatoes. Volumes of broccoli, celery, and lettuce were heavy. Onion planting continued in the San Joaquin Valley. Wet fields in the Tulelake-Butte Valley halted potato digging.

PASTURES AND LIVESTOCK: Pastures and ranges rated fair to good in all regions. Dry conditions limited grass growth in the southeast, but ample moisture aided growth in all other areas. Feed supplies were adequate in most regions. Supplemental feeding continued across the north. Mild weather was needed to promote wheat pasture growth in Oklahoma. Cattle movement onto small grain pastures increased at a steady rate in Texas. Livestock rated fair to mostly good.

CROP PROGRESS

FOR WEEK ENDING NOV 18

winter wheat

% PLANTED

	1984	1983	AVG.
CALIF	40	50	45
COLO	99	99	100
IDAHO	100	100	100
ILL	65	100	98
IND	85	100	100
KANS	98	96	98
MO	70	91	90
MONT	100	100	100
NEBR	100	100	100
OHIO	95	100	100
OKLA	95	95	95
OREG	93	98	98
S DAK	100	100	100
TEX	96	92	92
WASH	100	100	100
15 STATES	94	96	96

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

% EMERGED

	1984	1983	AVG.
CALIF	20	30	30
COLO	95	88	94
IDAHO	100	100	100
ILL	55	97	95
IND	75	98	92
KANS	90	90	90
MO	54	80	79
MONT	65	100	90
NEBR	100	100	100
OHIO	90	98	95
OKLA	60	85	75
OREG	85	94	90
S DAK	100	100	100
TEX	81	80	79
WASH	98	100	100
15 STATES	81	89	87

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

corn

% HARVESTED

	1984	1983	AVG.
COLO	87	94	88
GA	99	98	98
ILL	88	100	96
IND	73	98	90
IOWA	97	100	91
KANS	98	99	95
KY	75	94	93
MICH	80	95	85
MINN	95	97	97
MO	88	95	89
NEBR	90	98	85
N C	98	98	97
OHIO	60	90	90
PA	62	78	78
S DAK	93	100	93
VA	87	94	92
WIS	80	94	80
17 STATES	87	97	91

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

cotton

% HARVESTED

	1984	1983	AVG.
ALA	83	92	88
ARIZ	75	85	70
ARK	67	97	92
CALIF	90	80	85
GA	83	75	85
LA	70	95	93
MISS	68	94	91
MO	72	100	97
N MEX	55	41	55
N C	74	95	82
OKLA	35	15	25
S C	87	99	93
TENN	68	95	87
TEX	38	52	49
14 STATES	56	68	66

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

sorghum

% HARVESTED

	1984	1983	AVG.
COLO	92	99	86
KANS	95	85	90
MO	85	93	88
NEBR	95	96	100
OKLA	85	70	80
S DAK	97	100	97
TEX	93	97	97
7 STATES	93	92	93

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

soybeans

% HARVESTED

	1984	1983	AVG.
ALA	74	80	86
ARK	63	81	81
GA	69	59	68
ILL	83	100	100
IND	78	100	98
IOWA	98	99	99
KANS	90	80	90
KY	45	85	89
LA	85	92	90
MICH	85	100	95
MINN	99	98	84
MISS	63	79	82
MO	72	88	89
NEBR	97	96	100
N C	47	40	50
OHIO	80	100	99
S C	39	34	44
TENN	50	83	84
18 STATES	78	89	89

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

(continued on p. 15)

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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 1 to 3° below normal. Rainfall 0.11 to 2.27 in.

Fieldwork: 4.8 days. Soybeans harvested 74%, 80% 1983, 86% average. Cotton bolls open 100%, 100% 1983, 100% average. Cotton harvested 83%, 92% 1983, 88% average. Wheat seeded 58%, 71% 1983, 76% average. Activities: Harvesting cotton, soybeans, and fall vegetables; planting small grains and winter grazing; applying lime; and routine care of livestock and poultry. Conditions: Soybeans fair; cotton, wheat, and livestock fair to good; pastures mostly fair to good.

ARIZONA: Sunny to partly cloudy through 15th. Upper level low pressure system caused partly cloudy skies, cooler temperatures 16th and 17th. Precipitation limited to central mountains, extreme southeast. Light snow in White Mountains above 7,000 ft. Average temperatures varied from 2° below normal to 6° above.

Cotton 75% picked, 85% last year, 79% average. Growers were picking all cotton first time through on about half the acreage picked. Wheat, barley growers preparing seed beds; small acreage already planted. Sorghum grain harvest continued. Number of sheep grazing alfalfa stands increased. Very litte hay, green chop harvested. Lettuce harvest continued all areas; increasing in Yuma area. Mixed vegetable harvest active in Salt River Valley. Cauliflower harvest started, cabbage harvest winding down Yuma Area. Citrus harvest increased Yuma Area with lemons, grapefruit, navel oranges, few sweet oranges picked. Lemons, grapefruit, few tangerines harvested Salt River Valley.

ARKANSAS: Temperatures up to 6° below normal with widespread rainfall at midweek. High 73°, low 23°. Most precipitation 4.35 in., least 0.55 in.

Days favorable for fieldwork 5.1, crop growth moderate to slow and moisture adequate to surplus. Cotton fair to poor condition; all bolls open, same as 1983 and average; harvested 67%, 97% 1983, 92% average. Soybeans fair condition, fields very muddy; harvested 63%, 81% 1983 and average. Corn and sorghum virtually harvested, same as 1983 and average. Wheat fair to poor; planted 35%, 85% 1983, 86% average. Pastures good to fair. Cattle good condition.

CALIFORNIA: Westerly flow aloft brought a series of storm systems to the State this week with total amouts over 5.00 in. on the north coast and 0.20 to 0.30 of an in. the south coast and deserts. The State remained under mostly cloudy skies all week so there were very few above normal temperatures. All of the storms were cold, therefore, there were good snow packs in the Sierra above 5,000 ft.

Cotton bolls set 100%, 100% last year, 100% average. Cotton harvest near completion, 90% harvested, 80% last year, 85% average. Second picking. Shredding, discing continues for plowdown requirements. Rain slowed fieldwork, north. Small grain planting, winter wheat 40% planted, 50% last year, 45% average. Emerged 20%, 30% last year, 30% average. Alfalfa, oat hay planting. Few sugarbeets, corn, dry beans remain for harvest. Rice field burning hampered by rain. Avocado harvest has begun. Deglet Noor date harvest continues in Coachella Valley. Emperor table grape harvest continues. Pruning and spraying main activities in vineyards and deciduous orchards. Kiwifruit and persimmon harvests continue. Navel orange harvest continues in early varieties with good quality and maturity. Desert grapefruit, lemon, and tangerine harvests continue. Good quality and fair demand. Artichokes fairly light supply. Broccoli harvest fairly heavy central coast, starting desert. Carrot harvest active Kern district, fairly light Salinas Valley. Cauliflower harvest fairly light central coast, very light San Joaquin Valley, southern California. Celery harvest heavy central coast, very light south coast. Lettuce harvest fairly heavy San Joaquin Valley. Harvest starting desert ending Santa Maria. Onion planting continued San Joaquin Valley. Potato harvest stopped by wet fields Tulelake-Butte Valley. Market tomato harvest very light. Range feed continues improve with rainfall. Few areas still require supplemental feeding. Calving tapering off some southern areas but peak northern districts. Lambing increasing. Alfalfa fields being sheeped off.

COLORADO: Windy conditions with very little precipitation at the lower elevations and only 3 to 5 in. of snow in the mountains on 14th and again on 17th. Temperatures were 1 to 3° above normal.

Winter wheat emergence nearly complete with 95% of the plants showing; 1983, 88%; average, 94%. Corn harvest 87% complete; 1983, 94%; average, 88%. Sorghum harvest 92% complete; 1983, 99%; average, 86%. Sugarbeet harvest 99% complete; normally harvest is complete. There were 6.4 days suitable for fieldwork.

FLORIDA: Generally sunny skies with light, southeasterly winds. Virtually no rain continued statewide under high pressure and mild temperatures.

Soil moisture mostly short except southern areas remain adequate. Localized rains provided adequate moisture few northern areas but majority extremely dry. Soybean harvest declining seasonally. Peanut harvest complete. Cotton harvest active, well advanced. Sugarcane cutting active, increasing. Small grain planting limited due to dry soils. Earlier grain plantings making slow progress. Hay harvest virtually complete. Pasture condition remains good lower southern Peninsula; generally fair elsewhere. Winter pastures growing but remain short for grazing. Cattle condition remains good, south; continues mostly fair elsewhere. Citrus groves dry, many growers irrigating. Very little wilt. Almost no fruit softening. Good natural fruit color. Early harvest active for Thanksgiving trade. Weather in vegetable producing areas was generally favorable. Mild days, cool nights prevailed. Weather was very good for harvesting crops; shipments of fall crops gained 6% from previous week. Crops showing most increase were snap beans, carrots, cauliflower, celery, eggplant, escarole, lettuce, parsley, peppers, tomatoes. Cucumbers held steady. Sweet corn harvest declined. Light harvest of cabbage, Chinese cabbage getting underway. Strawberries showing good growth; bloom, fruit set increasing.

GEORGIA: The week started cool and dry and ended warmer with some light rain over all but eastern portion. Average temperatures were 1 to 5° below normal. Rainfall totaled just below 0.50 in. in the extreme north to less than 0.25 in. in central and south with no significant rain east. This was around 0.50 in. below normal.

Soil moisture 2% surplus, 42% adequate, 41% short and 15% very short. Average days suitable for fieldwork: 5.7. Main activities: Harvesting cotton, pecans, soybeans; planting small grains. Corn 99% harvested, 98% last year and average. Cotton 99% bolls open, same as last year and average; 83% harvested, 75% last year, 85% average; condition 13% excellent, 68% good, 18% fair. Peanut harvest virtually complete. Soybeans 69% harvested, 59% last year and 68% average; condition 14% good, 53% fair, 23% poor and 10% very poor. Pecans 50% harvested, last year 36%; average 50%; condition 31% good, 46% fair and 20% poor. Wheat 45% planted, last year 49%, average 58%. Rye 72% planted, 84% last year, 83% average. Other small grains 67% planted, 76% last year, 78% average. Grain sorghum condition 4% excellent, 21% good, 63% fair and 12% poor. Pasture condition 18% good, 49% fair, 28% poor, and 5% very poor. Cattle 42% good, 52% fair, 5% poor. Hogs 60% good, 39% fair.

HAWAII: Scattered showers and cooling, gusty trade winds typified weather for much of the State. Drought conditions on Hawaii Island eased somewhat with rain continuing to fall in the Kohala mountains through midweek.

As reservoirs began to fill, mandatory water restrictions were eased some in Waimea, a major vegetable growing area, and farmers took advantage of the situation by planting new acreage. Heavy rains fell along the Hamakua coast, Island of Hawaii late in week easing serious drought conditions. Water restiction continued unchanged on Maui where little rain fell during the week. Elsewhere in the State rainfall was adequate, temperatures cooler than recent weeks and growing conditions generally good. Head lettuce, green cabbage production expected to increase next two weeks. Chinese cabbage output continues light. Banana production remains heavy while papaya production forecast to begin seasonal decline.

IDAHO: A Pacific storm system moved through the State bringing variable amounts of precipitation and mild temperatures. The southern and southwestern sections of the State received above average rainfall amounts. Sections of the north and east recorded no precipitation. Temperatures averaged near to slightly above normal over most of the State.

The 1985 winter wheat crop was virtually all emerged. Corn for grain harvest was still underway in some areas. Wet weather hampered fall plowing in several locations. Livestock remained in good condition with feed in adequate supply.

ILLINOIS: Temperatures 3 to 10° below normal. Precipitation none to 1.47 in., mostly south.

Soil moisture 46% adequate, 54% surplus. Corn harvested 88%, last year 100%, average 96%. Soybeans harvested 83%, last year 100%, average 100%. Sorghum harvested 65%, last year 100%, average 96%. Winter wheat seeded 65%, last year 100%, average 98%; emerged 55%, last year 97%, average 95%; condition, 11% excellent, 62% good, 17% fair and 10% poor. Fall tillage of 1985 intended corn and soybean acreage 37%, last year 63%, average 60%. Pasture condition 11% excellent, 70% good, 18% fair, 1% poor; supplying 56% livestock roughage requirements, last year 26%, average 32%. Days suitable for fieldwork: 5.0.

INDIANA: Highs for the week averaged in the 40's and lows from the mid 20's to low 30's. Precipitation totals ranged from less than 0.10 in. northwest to over 1.00 in. southwest. Soil temperatures at the four inch depth averaged in the upper 30's to lower 40's under bare ground exposure and generally in the 40's under sod.

Fieldwork: averaged 3.0 days. Topsoil moisture adequate to mostly surplus. Subsoil moisture mostly adequate to surplus. Corn 73% harvested, 1983 98%, average 90%. Corn moisture 23%, 1983 20%. Soybeans 78% harvested, 1983 100%, average 98%. Soybean moisture 16%. Wheat 85% seeded, 1983 100%, average 100%. Wheat 75% emerged, 1983 98%, average 92%. Wheat stands 1% poor, 22% fair, 67% good, 10% excellent. Wheat condition 23% poor, 67% fair, 8% good. Spring cropland 27% tilled, 1983 50%, average 45%. Tobacco 20% progressed, 1983 25%.

IOWA: Very dry week. Temperatures near normal in the east to slightly above normal in west. Precipitation in form of rain, snow and sleet on the 17th.

Days suitable for fieldwork; 5.4. Corn harvesting 97% complete; 100% last year; 91% normal. Corn moisture content 18.8%. Soybean harvesting 98% complete; last year 99%; normal 99%. Soybean moisture content 13.7%. Sorghum acreage harvested 97% complete; last year 100%; normal 95%. Fall tillage 53% complete. Fall fertilizer application 49% complete. Availability of boxcars and trucks 3% short, 84% adequate, 14% surplus. Topsoil moisture conditions 1% short, 89% adequate, 10% surplus. Subsoil moisture conditions 13% short, 82% adequate, 5% surplus. Livestock in good to excellent condition.

KANSAS: Little to no precipitation until 18th, 2 to 6 in. snow southeast. Temperatures averaged 44 to 48°. These were 1° below normal southeast, 6° above normal northeast and west central, 2 to 5° above normal elsewhere.

Sorghum harvested 95%, 85% last year, 90% average. Soybeans 90% harvested, 80% last year, 90% average. Corn 98% harvested, 99% last year, 95% average. Wheat planted 98%, 96% last year, 98% average. Emerged 90%, 90% last year and average. Soil moisture mostly adequate. Pasture and rangeland fair to good. Days suitable for fieldwork: 6.0.

KENTUCKY: Hard freeze as temperatures dipped into upper teen's and lower 20's. Cold readings were offset by highs in 60's during middle portion. Average temperatures ranged from 3 to 10° below normal. First of week was precipitation free. Showers occurred along with warm temperatures midweek and again on weekend. Rainfall totals were generally above normal averaging 0.50 to over 2.50 in.

Favorable for fieldwork 3.0 days. Soil moisture 45% surplus, 55% adequate. Surplus in western half. Burley markets opened Nov. 19. Nearly one-third burley stripped, last year 30%, average 36%. Corn 75% harvested, 94% last year, 93% average. Many fields too wet to support harvesting equipment. Soybean harvest only 45% complete, 85% last year, 89% average. Fall wheat seeding 58% complete, 90% last year, 92% average. Reporters indicate a third of intended wheat acreage may not be seeded. Pastures and early seeded wheat in good condition.

LOUISIANA: Rainfall was heaviest across the central part of State. Greatest amount reported 2.25 in. Average temperatures ranged from normal to 4° below normal. High 81°; low 29°.

Soil moisture adequate south; adequate to surplus elsewhere. Days suitable for fieldwork: 5.4. Activities included harvesting cotton, soybeans, sugarcane, pecans, and sweetpotatoes; and planting winter wheat. Cotton harvest 70% 1984, 95% 1983, 93% average. Soybeans shedding leaves 100% 1984, 100% 1983, 100% average; harvest 85% 1983, 92% 1983, 90% average. Winter wheat planting 41% 1984, 80% 1983, 75% average; emerged 28% 1984, 58% 1983, 55% average; condition fair. Sweetpotato harvest 92% 1984, 96% 1983, 97% average. Sugarcane harvested 39% 1984, 57% 1983, 54% average. Vegetable condition fair. Pecans harvested 43% 1984, 28% 1983, 45% average. Pasture condition fair. Livestock condition fair to good.

MARYLAND AND DELAWARE: Maryland: The week was mostly 1 to 3° above normal with light rainfall averaging 0.27 in. Highs were mostly in the mid 60's and lows were in the mid 20's to low 30's.

Farmers worked 5.2 days completing corn harvest and winding up small grain seeding. Corn for grain harvest 100% complete; equal to the normal pace. Soybean harvest 75% complete; last year 85%, average 80%. Wheat seeding 95% complete; slightly behind the 100% seeded in 1983 and average. Tobacco crop 20% stripped, last year 5% stripped, average 10%.

Delaware: Weather was near normal north and south and 3 to 4° above normal central. High temperatures were in the mid 60's north to near 70 central and south. Precipitation averaged near 0.25 in.

Six days were suitable for fieldwork. Corn now all harvested, equal to 1983 and the normal. Soybean harvest 80% complete; last year 85%, average 90%. Wheat seeding 90% complete; 1983 80%, average 95%. Rye 90% seeded; about 1 week behind last year's 75%. Average rye seeding is 85%.

MICHIGAN: Weather conditions more typical of winter than fall. Snow fell over much of the State. Temperatures averaged 3° below normal.

Statewide 3.5 days suitable for fieldwork. Corn 80% harvested, 95% last year, 85% average. Soybeans 85% harvested, 100% last year, 95% average. Condition of winter wheat normal or above normal in most areas. Fall tillage operations made very little progress during the week. Farmers that have completed harvesting operations winterizing buildings and equipment.

MINNESOTA: A series of low pressure systems passed through the northern portion of the State during the week resulting in cool temperatures with gusty winds across the State and some scattered showers in the north. Temperatures averaged 2 above normal to 3° below normal. High: 65°, low: 1°. Precipitation averaged 0.07 to 0.35 in. below normal. Greatest weekly total: 0.18 in.

A combination of warm temperatures and dry weather during the early part of the week allowed many farmers to complete their planned fall fieldwork. Virtually all soybeans had been harvested and corn harvest was close to completion. Moisture content of both soybeans and field corn dropped from the previous week. Moldboard and chisel plowing was very active in many localities. Producers were able to apply fertilizers and chemicals the first part of the week. Many producers had their cattle confined and had most their livestock on full supplemental feed. An adequate supply of topsoil moisture existed in most the State, however, the central and southeast corner had surplus quantities. Topsoil moisture: 1% short, 70% adequate and 29% surplus. Field corn: Harvested 95%, 1983 98%, normal 84%; moisture content 21%, 1983 18%, normal 21%. Soybeans: Harvested 99%, 1983 97%, normal 97%; moisture content 14%, 1983 14%, normal 13%.

MISSISSIPPI: Temperatures averaged below normal, extremes 23 and 80°. Greatest weekly rainfall was 2.76 in.

Soil moisture surplus. Fieldwork 4.2 days suitable, 4.5 1983, 3.8 average. Rain latter part of the week delayed harvest. Cotton 68% harvested, 94% 1983, 91% average. Soybeans 63% harvested, 79% 1983, 82% average. Corn 94% harvested, 98% 1983 and average. Wheat condition fair; 47% planted, 78% 1983 and average. Pecans poor to fair condition; 48% harvested, 27% 1983, 48% average. Peanuts 96% harvested. Sorghum 97% harvested. Sweetpotatoes 94% harvested. Livestock and pasture in fair to good condition.

MISSOURI: Cool air prevailed as temperatures averaged 6° below normal, ranging from 1° below in the northwest to 9° below normal in the southeast. Precipitation was generally less than 0.25 in. until rain and snow fell at weeks end when around 1.00 in. of rain fell over the southern third of the State and 1 to 3 in. of snow fell across a narrow band of central region.

Days suitable for fieldwork: 5.4. Soybeans harvested 72%, 85% last year, 89% normal. Corn harvested 88%, 95% last year, 89% normal. Grain sorghum harvested 85%, 93% last year, 88% normal. Cotton bolls open 100%, 100% last year, 100% normal. Cotton harvested 72%, 100% last year, 97% normal. Fall tillage for spring crops 38%, 52% last year, 51% normal. Winter wheat planted 70%, 91% last year, 90% normal. Winter wheat emerged 54%, 80% last year, 79% normal. Condition of pasture, 8% excellent, 60% good, 31% fair, 1% poor. Topsoil moisture supply 33% surplus, 66% adequate, 1% short.

MONTANA: Mild week. Temperatures averaged about 5% above normal. Precipitation confined to area west of the Divide and over the mountains. Amounts ranged from 0.10 to 0.50 in.

Topsoil moisture adequate except northeast. Subsoil moisture short except northwest and southeast. Winter wheat mostly fair condition, good in west. Wind damage none to light. Winter wheat 65% emerged, last year 100%, average 90%. About 50% of cattle and 65% of sheep receiving supplemental feed. Heaviest feeding east and central. Range conditions mostly fair; good west, poor north central and east.

NEBRASKA: Last week was mild and dry. Temperatures averaged 2 to 5° above normal. Precipitation was limited to a few traces.

Winter wheat condition 35% fair, 50% good, 15% excellent. Wheat planted 100%, 100% last year, 100% average. Wheat emerged 100%, 100% last year, 100% average. Sorghum harvested 95%, 96% last year, 92% average. Soybean harvested 97%, 96% last year, 100% average. Corn harvested 90%, 98% last year, 85% average. Days suitable for fieldwork: 5.5. Topsoil moisture 9% short, 80% adequate, 11% surplus. Subsoil moisture 20% short, 77% adequate, 3% surplus. Pasture and range mostly adequate.

NEVADA: Temperatures throughout period averaged well below normal most areas. Successive cold fronts brought gusty winds and scattered snow

showers northern areas. Temperatures moderated end of week and sunshine again prevailed.

Lettuce harvest well along extreme south. Grading and marketing potatoes active north. Livestock feeding made more difficult by inclement weather. Pneumonia reported some weaners due cold, wet conditions.

NEW ENGLAND: Precipitation averaged from 0.50 to 0.75 in. in northern areas, central regions averaged 0.25 to 0.50 in. and southern areas ranged from a trace to 0.25 in. Temperatures averaged near normal, ranging from the low 30's near the Canadian Border to the mid 40's along the south coast.

Cranberry harvest complete. Fall tillage active in southern areas.

NEW JERSEY: Temperatures were below normal, averaging 38° north, 42° south and 44° coastal. Extremes were 22 and 62°. Precipitation this period was below normal, averaging 0.07 in. north, 0.34 in. south and 0.63 in. coastal. The heaviest 24-hour total was 0.98 in. on the 18th and 19th.

Fieldwork: Harvest of fall crops winding up. Farmers tending to livestock and general chores.

NEW MEXICO: Average temperatures little above normal. Minimum temperature: 12° northern mountains. Maximum temperature: 81° southeastern plains. Scattered showers over west central and eastern locations. Precipitation totals between 0.25 and 0.50 in.

Soil moisture supplies short to adequate. Alfalfa fair to good; fifth cutting virtually completed. Corn good to excellent; grain harvest continued. Barley good to excellent. Irrigated wheat good to excellent, dryland fair to excellent. Irrigated, dryland grain sorghum good to excellent; grain harvest neared completion. Pecans fair to excellent; harvest continued. Red chile fair to good; over half harvested. Lettuce fair; harvest continued. Cattle fair to good; good gains reported. Sheep fair to excellent. Ranges fair to good. Cotton open bolls: 100%, last year 100%, average 100%; harvested: 55%, last year 40%, aveage 58%.

NEW YORK: Generally mild early in the week. Cold air pushed into the State on 11th and 12th setting off some significant rains in east ranging from around 0.50 in. in the Adirondacks to more than 1.25 in. on Long Island. In west, precipitation was less than 0.25 in. There was a brief warming trend on 15th but overall temperatures averaged near normal for mid November. The temperatures ranged from the mid 60's on Long Island to around 10 above in the Adirondacks morning of 14th.

NORTH CAROLINA: Temperatures averaged 2 to 5° below normal across the State. Precipitation varied from 0.02 to 1.63 in. with most areas receiving between 0.25 to 0.75 in.

Soil moisture: 3% very short, 46% short, 51% adequate. Days suitable for fieldwork: 6.1. Condition: Pasture 7% poor, 36% fair, 57% good. Harvest: Soybeans 47%, 1983 40%, average 50%. Sweetpotatoes 98%, 1983 97%, average 97%. Cotton 74%, 1983 95%, average 82%. Planted: Wheat 75%, 1983 80%, average 77%. Farm feed supplies: Hay and roughage 96% adequate, 4% surplus. Feed grains 93% adequate, 7% surplus. Major farm activities: Harvesting soybeans, seeding small grains, combining corn, preparing tobacco plant beds, picking cotton, harvesting sorghum, grading burley tobacco, cutting Christmas trees, tending livestock, cutting firewood and general farm maintenance.

NORTH DAKOTA: Weather was varied during the week. Warm, dry weather early gave way to colder temperatures with some precipitation by midweek. Temperatures averaged from 3° below normal northeast to 4° above normal southwest. The central and southeast districts did not receive measurable precipitation during the week. Elsewhere precipitation amounts were light.

Virtually all late season crops harvested. Much fall tillage left undone due to frozen ground early this year. Ranchers continue with preparations for winter.

OHIO: Temperatures 4 to 7° below normal. Highs low to mid-40's, lows upper 20's to 30's, some readings in the teens. Precipitation generally light, most under 0.50 in. Four-inch bare soil temperatures 40°.

Topsoil moisture 45% adequate, 55% surplus. Days suitable for fieldwork: 3.0. Activities included harvesting corn, soybeans, seeding winter wheat; grain moisture contents relatively high. Corn harvested for grain 60% 1984, 90% 1983, 90% average; 17 days behind normal; corn grain condition good. Soybeans harvested 80% 1984, 100% 1983, 99% average; 21 days behind normal; soybeans oilseed quality good. Winter wheat planted 95% 1984, 100% 1983, 100% average; emerged 90% 1984, 98% 1983, 95% average; good condition. Pastures good condition.

OKLAHOMA: Temperatures averaged normal across central portions and northeast, and ranged from 3° above normal Panhandle to 1° above southeast. Precipitation ranged from average low of 0.74 in. Panhandle to 2.96 in. east central.

Favorable weather early week advanced crop progress; however, weekend showers postponed row crop harvest and restricted small grain development. Mild weather needed to promote wheat pasture growth most areas. Weeds troubled northwest areas. Most cotton producers await hard freeze before harvest. Wheat and livestock good to fair; cotton, sorghum, and pastures fair condition. Wheat planted: 95%; 95%, 1983; 95%, average. Wheat emerged: 60%; 85%, 1983; 75%, average. Sorghum harvested: 85%; 70%, 1983; 80%, average. Cotton harvested: 35%; 15%, 1983; 25% average.

OREGON: Temperatures warmed to 4° above normal across State. Rain continued. Coastal precipitation over 5.00 in.; western valleys up to 3.00 in.; eastern areas up to 1.10 in.

Winter wheat 93% seeded, 85% emerged. In 1984, 98% seeded, 94% emerged. Average 98% seeded and 90% emerged. Crops in mostly good condition in eastern areas. In Willamette Valley, many acres of winter wheat not seeded due to excessive soil moisture and rain. Filbert harvest continues between showers. Dry onions and potatoes still in fields; many onions lost; potatoes need break in rain to harvest. Harvest of late season vegetables as weather allows. Soil moisture mostly adequate east of Cascades; surplus in west. In east, cattle on aftermath or stubble. Livestock condition mostly good.

PENNSYLVANIA: This week was cooler and much drier than normal for the period. Statewide average temperature for the week was 38°, 2° below normal. Average precipitation was 0.24 in., 0.53 in. less than normal.

Days suitable: 5.0. Moisture adequate to surplus. Activities: Making small amounts of hay; baling and chopping corn stalks; harvesting grain corn, soybeans and green chop. Soybeans

63% harvested, last year 78%. Corn for grain 62% harvested; last year 78%, average 78%. Harvest of fourth crop alfalfa 93% complete, last year virtually complete. Quality of hay made mostly fair to poor. Feed from pastures mostly average.

PUERTO RICO: Island average rainfall 1.04 in. or 0.42 in. below normal. Highest weekly total 3.98 in. Highest 24-hour total 2.00 in. Temperature average about 77 to 76° on coasts and 70 to 69° interior divisions. Mean station temperature ranged from 61.1 to 78.2°. Extremes 90 and 53°.

SOUTH CAROLINA: Weather during past week was cold, dry. Colder air moved into State early week, freezing temperatures reported midweek. Late week temperatures were above normal, lower readings over weekend. Very light rainfall or no rain reported during week.

Soil moisture short; days available for fieldwork: 5.9. Soybean condition fair; yields better than earlier anticipated; 97% shedding leaves, 99% last year, 98% average; 90% mature, 86% last year, 90% average, 39% harvested, 34% last year, 44% average. Cotton growing condition good, quality excellent; 87% harvested, 99% last year, 93% average. Sorghum condition fair to good; 84% harvested, 91% last year, 88% average. Tobacco harvest complete; 94% stalks destroyed, 100% last year. Wheat condition fair to good, 40% planted, 44% last year, 60% average, 25% emerged, 32% last year, 46% average. Oats condition fair to good, 75% planted, 75% last year, 77% average; 59% emerged, 64% last year, 63% average; rye condition fair to good; 71% planted, 73% last year, 78% average, 54% emerged, 62% last year, 68% average; barley condition fair to good; 74% planted, 79% last year, 78% average, 60% emerged, 64% last year, 67% average.

SOUTH DAKOTA: Average temperatures were normal to 7° above normal. Extremes: 70 and 2°. Only a trace of precipitation fell across parts of the State during the week.

Days suitable for fieldwork: 6.0. Topsoil moisture supplies mostly adequate, east, short and critically short west, adequate western border. Main farming activities were crop harvesting, working cattle and calves, and fall tillage. Continued dry weather helped push harvest to near completion. Sorghum harvested 97%, 1983 100%, average 97%. Corn harvested 93%, 100% 1983, average 93%. Winter wheat planted 100%, 1983 100%, average 100%. Winter wheat emerged 100%, 1983 100%, average 100%.

TENNESSEE: The week began cool and dry followed by a strong midweek cold front which produced statewide rainfall on the 15th. Rain returned to the western sections of the Statelate on the 17th and spread eastward on the 18th. Rainfall for the week totaled less than 1.00 in. with lesser amounts across the east. Temperatures aveaged 4 to 6° below normal. Portions of west experienced the first freeze of the season.

Farmers averaged 3.5 days of fieldwork. Soil moisture levels: 56% surplus, 42% adequate, 2% short. Soybeans harvested: 50%, 1983 83%, average 84%. Cotton harvested: 68%, 1983 95%, average 87%. Corn harvested: 78%, 1983 90%, average 93%. Sorghum harvested: 75%. Burley tobacco stripped: 59%, 1983 57%, average 66%. Wheat sown: 39%, 1983 83%, average 85%. Pastures and livestock in mostly good condition.

TEXAS: High pressure system dominated weather across State first part week. Late week, cold front moved into State, bringing showers northwest Texas. Near end week, warm, moist air from Gulf overrunning cool air at surface producing widespread, low level cloudiness, rain across most State. Temperatures near normal High Plains, Low Plains, Trans-Pecos. Above normal rest of the State. Precipitation near normal Trans-Pecos, South Central Texas, below normal South Texas, Lower Valley. High Plains, Upper Coast, North Central, East Texas above normal.

Crops: Outdoor activity progressed steady pace, favorable conditions prevailed. Planting remaining small grains active, moisture conditions generally favorable. Cotton harvest gained momentum, where possible, from defoliation, frost; most West Texas not had killing freeze. Harvest other crops good progress only minimal delays. Fieldwork active, land preparation, fertilizing crops widespread. Haying active, many areas producing first cutting. Livestock, fall forage prospects improve. Cotton harvest gain momentum mild weather prevailed. Cotton bolls continue develop, open much of West Texas, producers waiting for killing freeze. Some cotton harvested with green plants, bolls, causing cotton in modules to "heat up" before being ginned. Yields early harvested fields West Texas extrmely good both irrigated, dryland cotton. Statewide condition 64% of normal compared with 47% a year ago. Current reported conditions 1%, excellent; 45%, good; 32%, fair; 16% poor; and 6%, failure. Grain sorghum harvest advanced rapidly Plains. Good drying conditions prevailed, minimal delays encountered. Except few late fields with green heads, most grain harvested soon. Most yields good, some dryland fields disappointing. Peanut harvest gained momentum Cross Timber, Edwards Plateau. Some good irrigated yields, dryland fields not fared as well. Drier areas yields, quality below normal. Recent showers damaged some recently dug peanuts. Soybean harvest moved ahead in major areas. Along coast, on Plains, fields dried, combines began to roll. Some losses from mildew and shattering, producers expecting excellent crop. Sugarbeet harvest full swing High Plains. Beets pile up at unload stations. Sugarcane harvest normal progress. Seeding wheat, other small grains active. Plains some wheat seeded following harvest corn, grain sorghum. Early-planted fields excellent growth with favorable moisture conditions. Some rust beginning occur, some insects reported. Acreage grazing continues stocked.

Cotton open bolls 87%, 99% 1983, 96% average; harvested 38%, 52% 1983, 49% average. Sorghum mature 100%, 100% 1983, 100% average; harvest for grain 93%, 97% 1983, 97% average. Wheat planted all purposes 96%, 92% 1983, 92% average; emerged 81%, 80% 1983, 79% average. Peanuts harvested 66%, 81% 1983, 80% average. Soybeans harvested 79%, 77% 1983, 78% average. Sugarbeets harvested 82%, 80% 1983, 72% average. Pecans harvested 42%, 39% 1983, 35% average. Sunflowers harvested 74%, 95% 1983, 90% average. Oats planted for grain 94%, 92% 1983, 88% average.

Commercial Vegetables: Rio Grande Valley, fall vegetables good progress. Onions, broccoli, celery, lettuce benefitted mild conditions, making good growth. Harvesting peppers, tomatoes, cucumbers, cabbage continued ample supplies. Citrus growers evaluate groves. San Antonio-Winter Garden, vegetable prospects improve. Some movement cucumbers, beets, cabbage reported. Some white rust spinach reported. Trans-Pecos, light volumes bell peppers available. Onions making normal progress. Some irrigation necessary. East

Texas, last sweetpotatoes harvested most areas. Few tomatoes, peppers, squash, green beans, okra available. Pecan harvest gained momentum. Because short crop, harvest advancing rapidly. Quality below average.

Range and Livestock: Ranges, pastures improve. Native, improved pastures responded recent moisture, cooler temperatures promoted growth fall vegetation. Hay cuttings made to replenish hay supplies. Wheat and oats providing excellent grazing opportunities, cattle continue move onto small grain pastures steady rate. Most livestock heading into winter months good condition.

UTAH: Recurring storm periods deposited light to moderate precipitation in mountainous areas with heavy amounts at isolated stations. Accumulations generally zero to light rest of State. Temperatures near normal, ranging 3° below to 4° above.

Routine care and feeding of on farm livestock. Sorting and marketing of apples and onions continued. Sorting of potatoes as orders needed.

VIRGINIA: Seasonal temperatures first and middle of period, giving way to colder weather at end of period with averages a little below normal for period. Extremes ranged from 70 to 16°. Precipitation occurred mainly on 18th but averaged less than 0.25 in. First snowfall of year occurred in northwestern portions of State but snowfall was light, less than .1 in. was reported.

Mostly fair weather allowed 5.5 days suitable for fieldwork. Topsoil moisture ratings 36% short, 64% adequate. Corn for grain harvest 87% complete, 94% last year, 92% average. Harvest behind normal due to late planting and high moisture content. Soybean harvest 62% complete, 46% last year, 64% average. Sorghum harvest 62% complete, 59% last year, 63% average. Wheat seeding 79% complete, 80% last year and average. Burley, sun, and fire-cured tobacco being prepared for market. Fumigating flue tobacco plant beds. Livestock and pastureland in good to excellent condition. Marketing lambs. Normal fall chores in progress.

WASHINGTON: Relatively dry conditions towards the end of the week allowed some fieldwork to progress.

Orchardists were cleaning up after harvest and putting out rodent bait. Raspberries were being canned and tied. Harvest of carrots, cauliflower, celery and other late season vegetables continued, weather permitting. Winter wheat was in good condition and emergence reached 98%. Winter wheat seeded 100% 1984, 100% 1983, 100% average. Winter wheat emerged 98% 1984, 9100% 1983, 100% average.

WEST VIRGINIA: Temperatures averaged 1 to 6° below normal. High 62° at Burlington, low 17° at Belington. Precipitation averaged below normal. Range 0.48 in. at Terra Alta to zero at Burlington.

Soil moisture adequate. Days worked averaged 3.5. Main activities: Corn harvesting and general maintenance. Corn in good condition with 75% harvested due to poor drying conditions. Pasture conditions vary across the State.

WISCONSIN: The week was cold with no significant precipitation. Ground was starting to freeze as a result of low temperatures which were in the low teens.

Soil moisture remained high, 0% dry, 27% adequate and 73% surplus. There were 5.6 days suitable for fieldwork. Fair weather, especially towards the end of the week allowed harvesting progress to spurt ahead. Corn for grain harvest was 80% complete, 89% last year and 80% average. Soybeans were 85% harvested, 94% last year and 89% average. Fall plowing was 55% complete, 74% last year and 55% average.

WYOMING: Average temperatures near normal to about 5° above. Dry with precipitation averaging a trace.

Winter wheat mostly good condition. Corn harvest continues. Fall plowing active. Livestock mostly good condition. Livestock producers weaning calves, marketing, moving livestock to winter pastures.

(continued from p. 9)

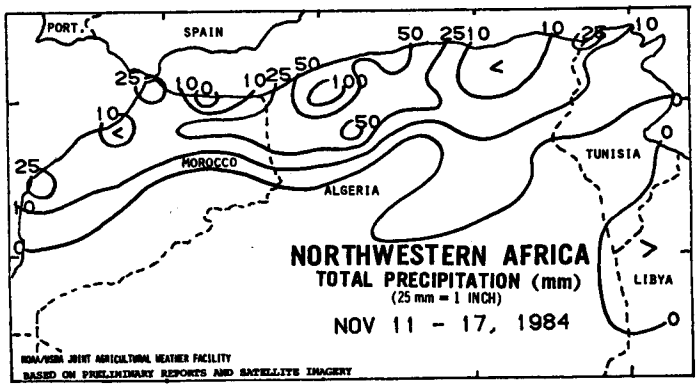
cotton

% BOLLS OPENING

	1984	1983	AVG.
ALA	100	100	100
ARIZ	100	100	100
ARK	100	100	100
CALIF	100	100	100
GA	99	99	99
LA	100	100	100
MISS	100	100	100
MO	100	100	100
N MEX	100	100	100
N C	100	100	100
OKLA	100	95	99
S C	100	100	100
TENN	100	100	100
TEX	87	99	96
14 STATES	93	99	98

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

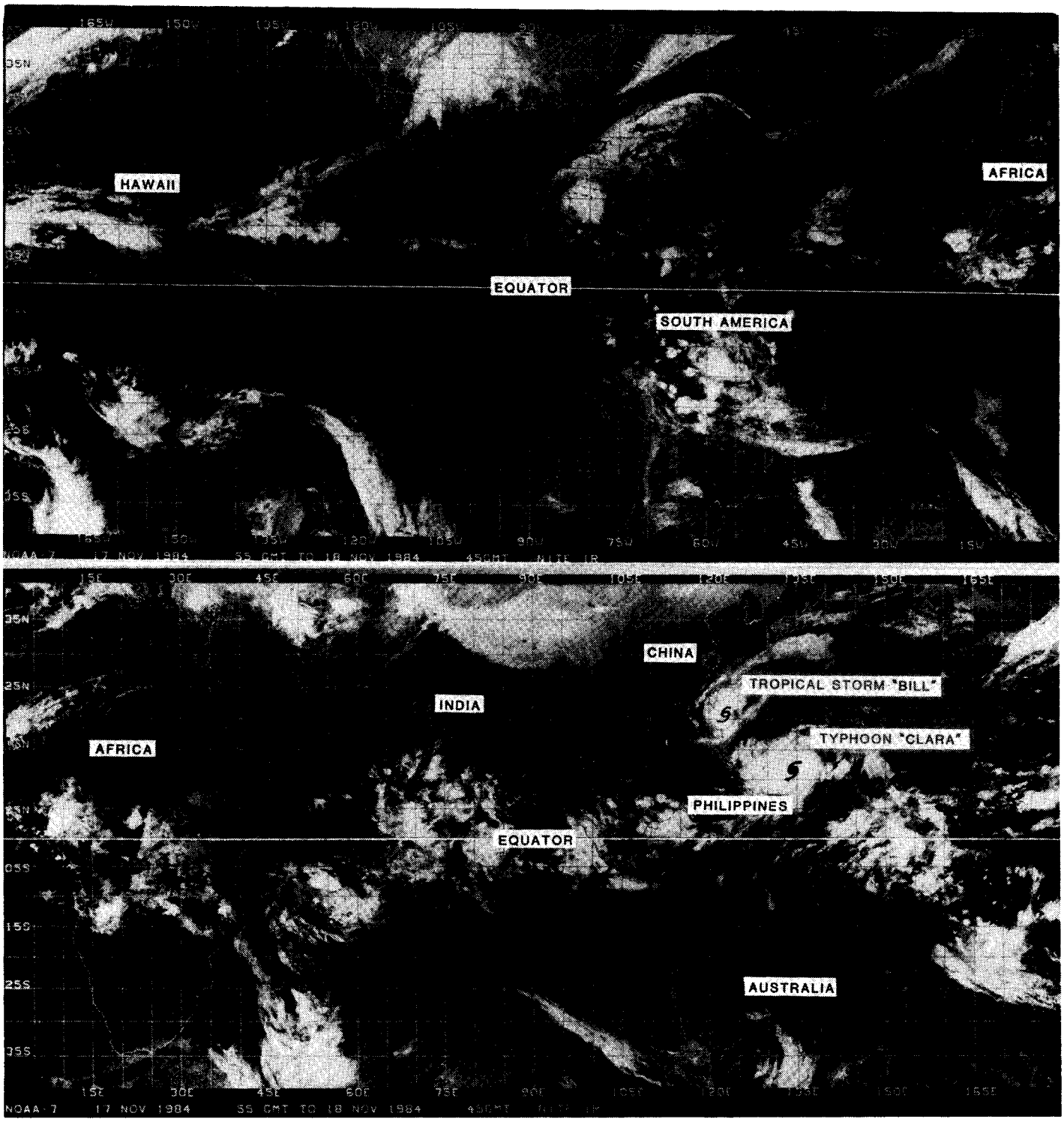
(continued from p. 19)



NORTHWESTERN AFRICA...Widespread showers continued over winter grain areas. Heaviest amounts of precipitation (50-100 mm) fell on crop areas in northwestern Algeria. Localized flooding is possible in this area. Overall, the rain was beneficial, increasing soil moisture for winter grain planting. Elsewhere, light showers favored planting and moisten topsoils in western Morocco, northeastern Algeria, and northern Tunisia.

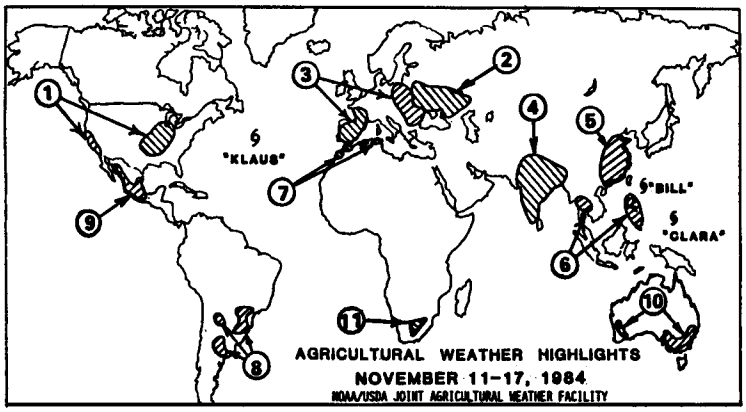
GLOBAL WEATHER SATELLITE PHOTO

Nov. 17 - 18



International Weather and Crop Summary

November 11 - 17



HIGHLIGHTS:

1. UNITED STATES ... Fair weather speeds harvest in the Delta States and Corn Belt. Much-needed rain finally falls on the drought-stricken Oklahoma wheatlands. Rain delays coastal California fruit and vegetable harvesting and other field activities.

2. WESTERN USSR ... Bitter cold air forces southern winter wheat into dormancy with minimal hardening.

3. EUROPE ... Cold air spills into eastern Europe, stopping crop growth. Rains continue to slow France's harvest but benefit Spain's wheat planting.

4. SOUTH ASIA ... A tropical cyclone damages maturing winter rice in the south. Dry weather favors harvesting in the remainder of the region.

5. EASTERN ASIA ... Moderate rain benefits winter wheat, but hampers cotton and rice harvesting.

6. SOUTHEAST ASIA ... Mostly dry weather favors Thai rice. Tropical Storm Bill produces only moderate rain in the Philippines.

7. NORTHWESTERN AFRICA ... Beneficial planting rains continue.

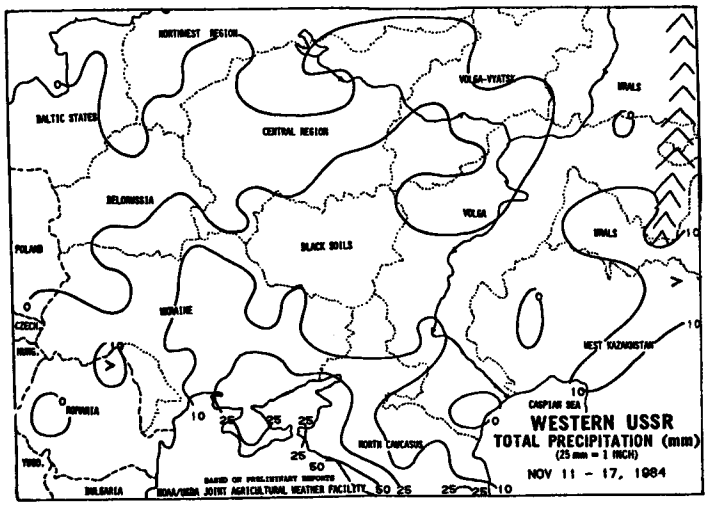
8. SOUTH AMERICA ... In Brazil, drier weather in the south aids soybean planting. Showers in the north improve moisture conditions for early growth. Soybean planting lags behind last year. In Argentina, rain fell over all crop areas; slowing summer crop planting but maintaining sufficient moisture for filling wheat.

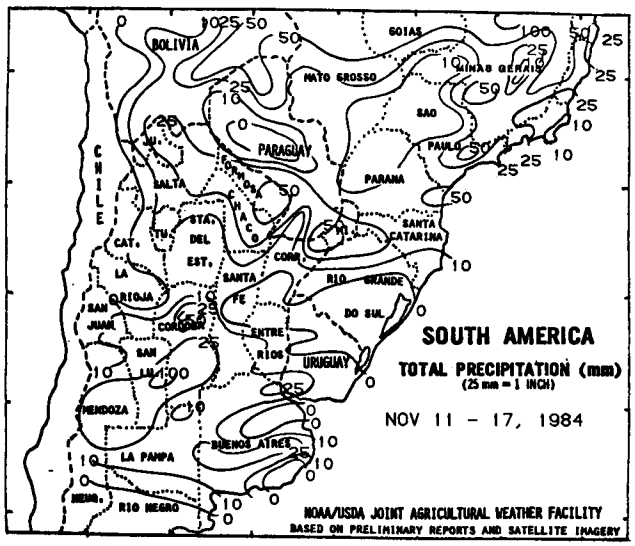
9. MEXICO ... Sunny, warm weather hastens harvesting.

10. AUSTRALIA ... Drier weather settles over eastern Australia, aiding fieldwork for summer crops. Wheat and barley advance into late grain filling stages with adequate moisture for late growth throughout the grain belt.

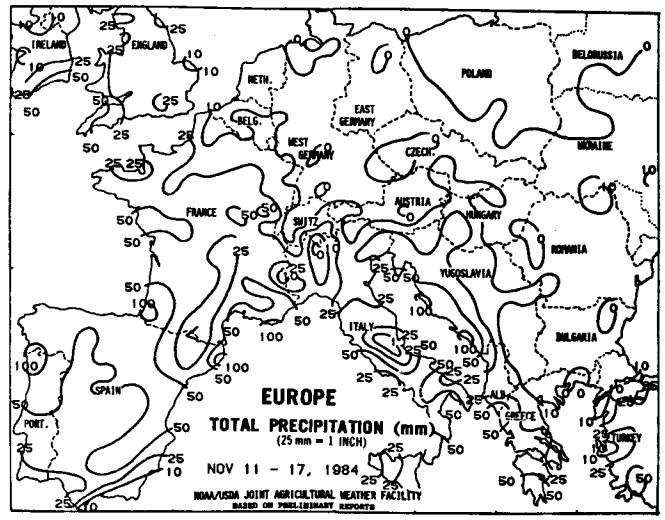
11. SOUTH AFRICA ... Beneficial rain returns to the Maize Triangle. Corn planting continues in the west.

WESTERN USSR...Bitter cold air pushed southward early in the week, dropping temperatures to well-below freezing. Nighttime lows of around -10 °C were reported as far south as the southern Ukraine and northern North Caucasus. Light snow accompanied this push of cold air, particularly in the central Ukraine; but most of the precipitation observed in the southern Ukraine and North Caucasus was in the form of early-week rains. Temperatures moderated later in the week, but remained below freezing. The cold weather reversed a persistent above normal-temperature pattern, stopping wheat growth over all crop areas. Top growth was burned in some areas. Winter wheat in the south was forced into dormancy with minimal hardening, making the crop more vulnerable to potential winterkill.



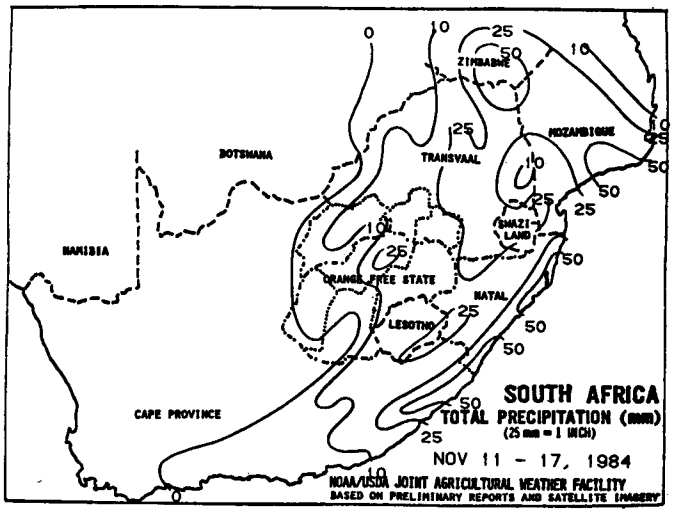


SOUTH AMERICA...A complex rainfall pattern covered Brazil's soybean belt. Soybean planting made progress in southern Rio Grande do Sul, and western portions of Parana and Sao Paulo where less than 10 mm of rain fell. Locally heavy rain (40-80 mm) slowed planting progress in western Santa Catarina, Mato Grosso do Sul, and Minas Gerais. Soybean planting fell behind last year's pace, but the recent drier weather in the south and showers in the north improved conditions. Rain fell over most Argentine crop areas recently, maintaining sufficient to abundant moisture supplies, but slowing summer crop planting. Moisture is favorable for grain filling wheat over major growing areas. Some early harvesting has already begun in northern Santa Fe and other minor producing areas of the north.

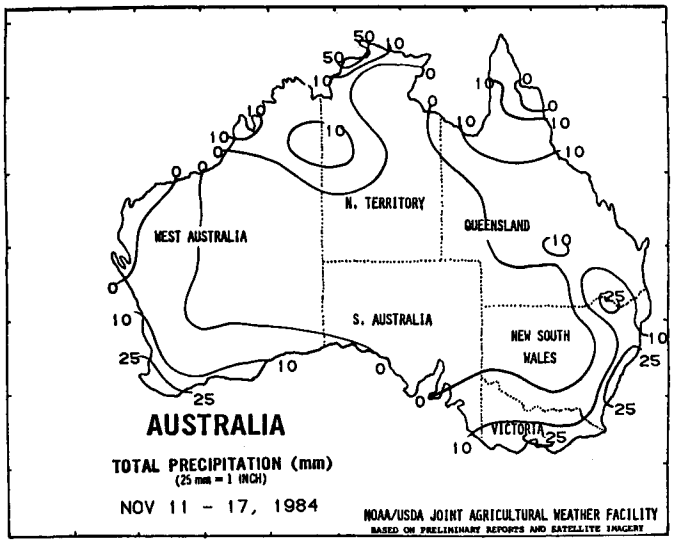


EUROPE...The cold air which dominated the Soviet Union spilled over into eastern Europe. Lowest temperatures occurred on November 15, where nighttime lows of around -8 °C were common in Poland, eastern Czechoslavakia, eastern Hungary, Romania, and Bulgaria. The cold weather stopped crop growth. Prolonged dryness and cold weather in southeastern Romania and Bulgaria is limiting winter wheat establishment, making the crop more susceptible to potential winterkill. Wet weather (25-50 mm) continued in England, France, Spain, and northern Italy. The rains in southwestern France slowed the corn harvest, but were mostly beneficial for Spain's winter grain planting. Weekly temperatures averaged above normal in France and England. Temperatures were near normal in West Germany and northern Italy, where winter grains began cold hardening.

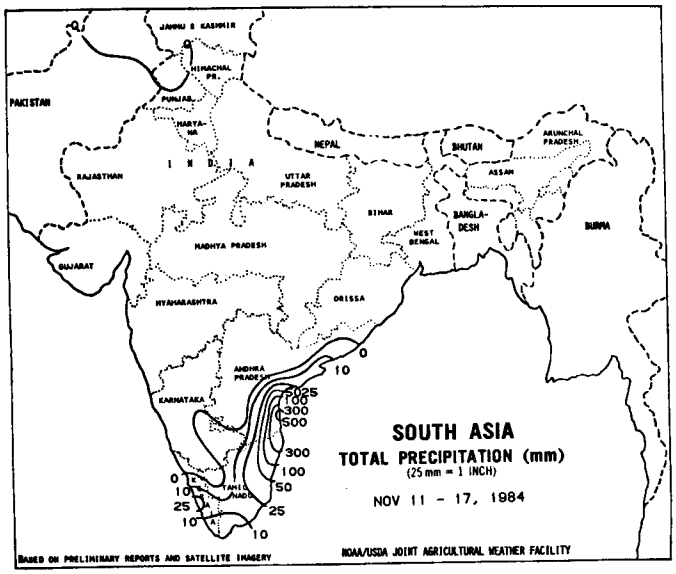
MEXICO...Ideal harvest weather continued over most of the country. Abundant sunshine and warm temperatures favored field activities, especially summer field crop, sugarcane, coffee, and fall vegetable havesting. It was unusually warm over the northeast; some afternoon readings were up to 31 °C. A few light showers dotted the eastern Veracruz State and parts of Central America. However, the rain was too light to significantly interfere with harvesting tropical crops or improve soil moisture.



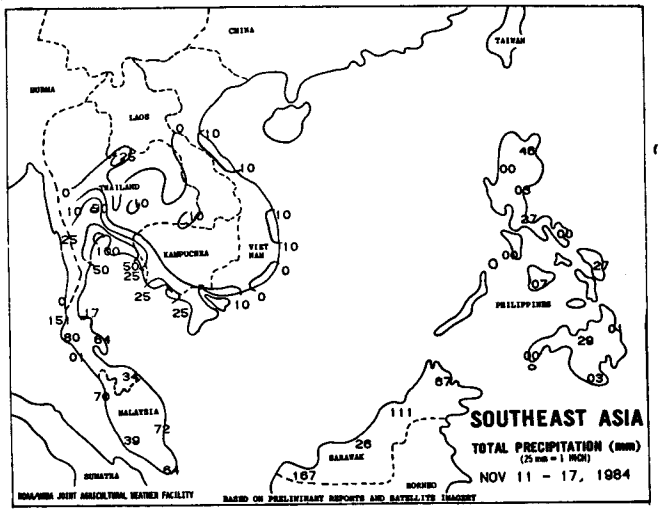
SOUTH AFRICA...Moderate rain (15-35 mm) fell over most of the corn region. The showers maintained favorable growing conditions in the eastern three fourths of the Maize Triangle. Drier weather and above-normal temperatures along the western fringe of the Maize Triangle were unfavorable for emerging corn. Cooler temperatures prevailed in the remaining corn area. Moderate rain benefited corn in the northern Transvaal. Precipitation increased in the Natal sugar region, which received slightly below-normal moisture this season.



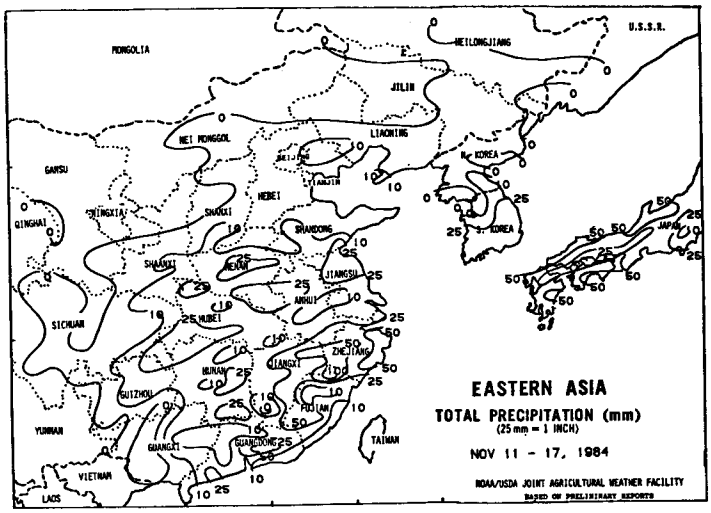
AUSTRALIA...Early-week scattered showers lingered over eastern and southern wheat areas, slowing Queensland's harvest but helping Victoria's late-maturing crop. Drier weather and seasonable temperatures settled over the region by midweek, aiding fieldwork in summer crop areas of northern New South Wales. Showers developed over Western Australia during the latter half of the week, maintaining adequate moisture for immature wheat. The early planted crop is maturing throughout the wheat belt. The barley harvest is underway in Western Australia and just beginning in South Australia and Victoria. In contrast to the unfavorable planting season weather over large portions of the wheat belt, temperature and precipitation patterns during much of the growing season have greatly enhanced crop prospects.



SOUTH ASIA...A slow-moving tropical cyclone struck southeastern India with inundative rain and high winds. The heaviest rain (300-500 mm) fell in southern Andhra Pradesh and northern Tamil Nadu. Coastal flooding damaged maturing winter rice. The effects of the cyclone did not penetrate far enough inland to cause extensive damage to maturing cotton and groundnuts. Seasonably-dry weather covered central and northern India, favoring the harvests. Above-normal temperatures in Madhya Pradesh, where soil moisture is limited, increased the evaporative demand of jointing wheat. Light showers fell in northern Pakistan. Dry weather in Punjab and Sind provinces favored cotton harvesting.

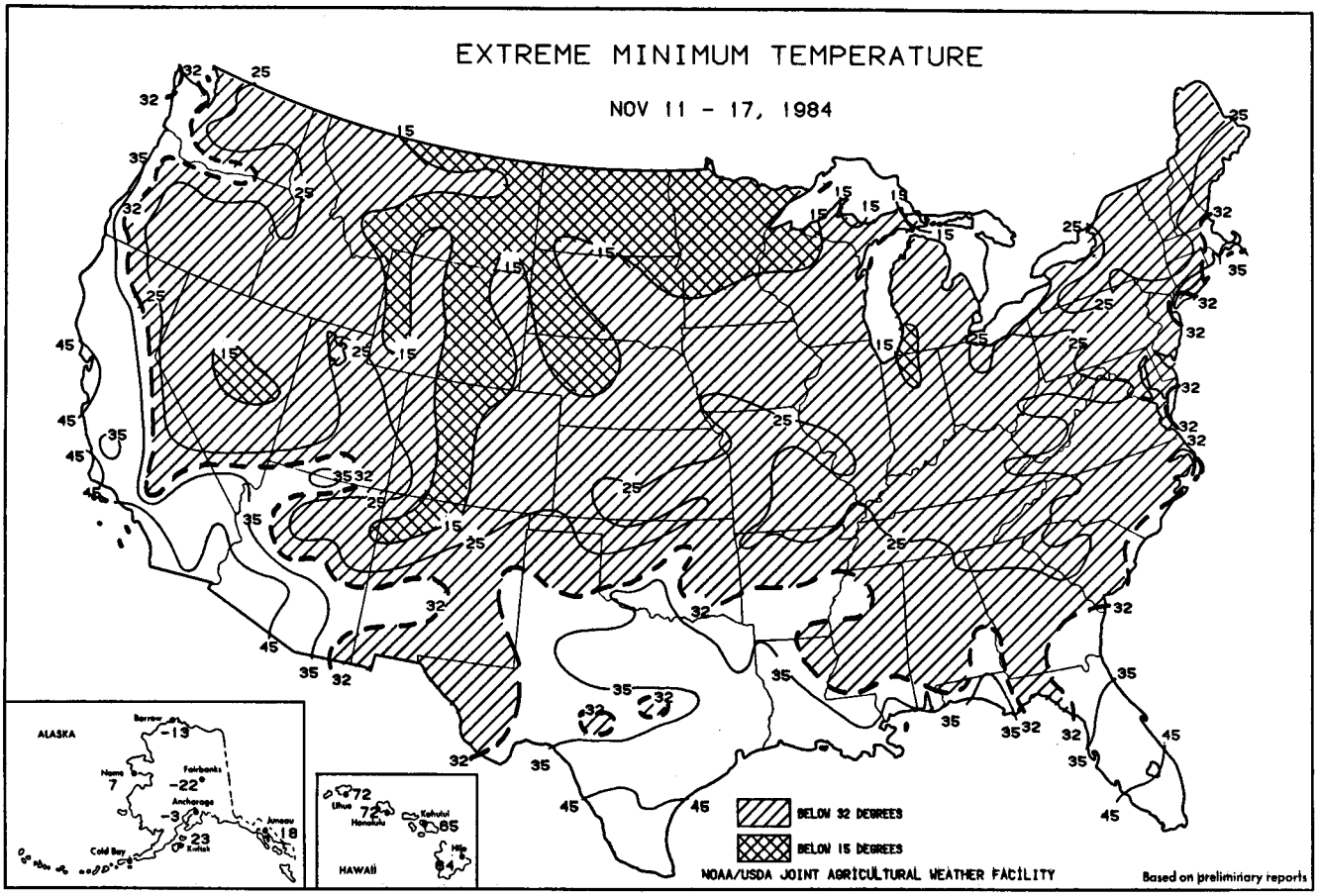


SOUTHEAST ASIA...Clear skies covered much of northern and eastern Thailand, favoring rice development. Moderate to heavy rain (25-100 mm) fell in the south-central rice region. Temperatures were slightly above normal, but favorable for rice. Tropical Storm Bill grazed the northern Philippines. Moderate rain fell only along the eastern edge of the islands.



EASTERN ASIA...Light to moderate rain (10-50 mm) covered nearly all of eastern China. The moisture benefited winter wheat establishment in the North China Plain. However, the rain was unfavorable for cotton harvesting. Light showers (less than 10 mm) in Hebei moistened topsoils, but nonirrigated areas are unfavorably dry. Above-normal temperatures continued in the North China Plain, keeping winter wheat in active growth. Normally, northern winter wheat enters dormancy in mid-November. Variable precipitation fell in the south, hampering late-rice harvesting. Moderate rain and above-normal temperatures benefited winter grains in South Korea.

(continued to p. 15)



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