

WEEKLY WEATHER AND CROP BULLETIN

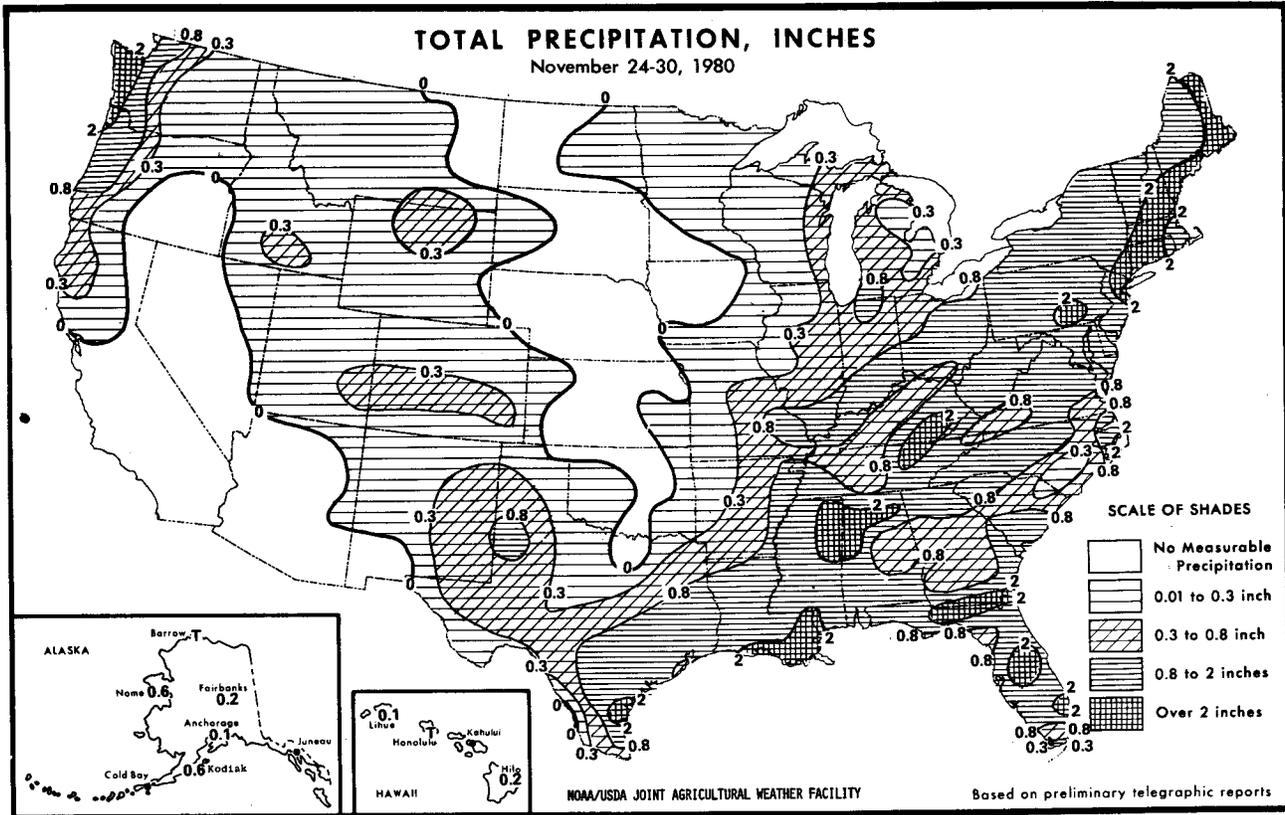
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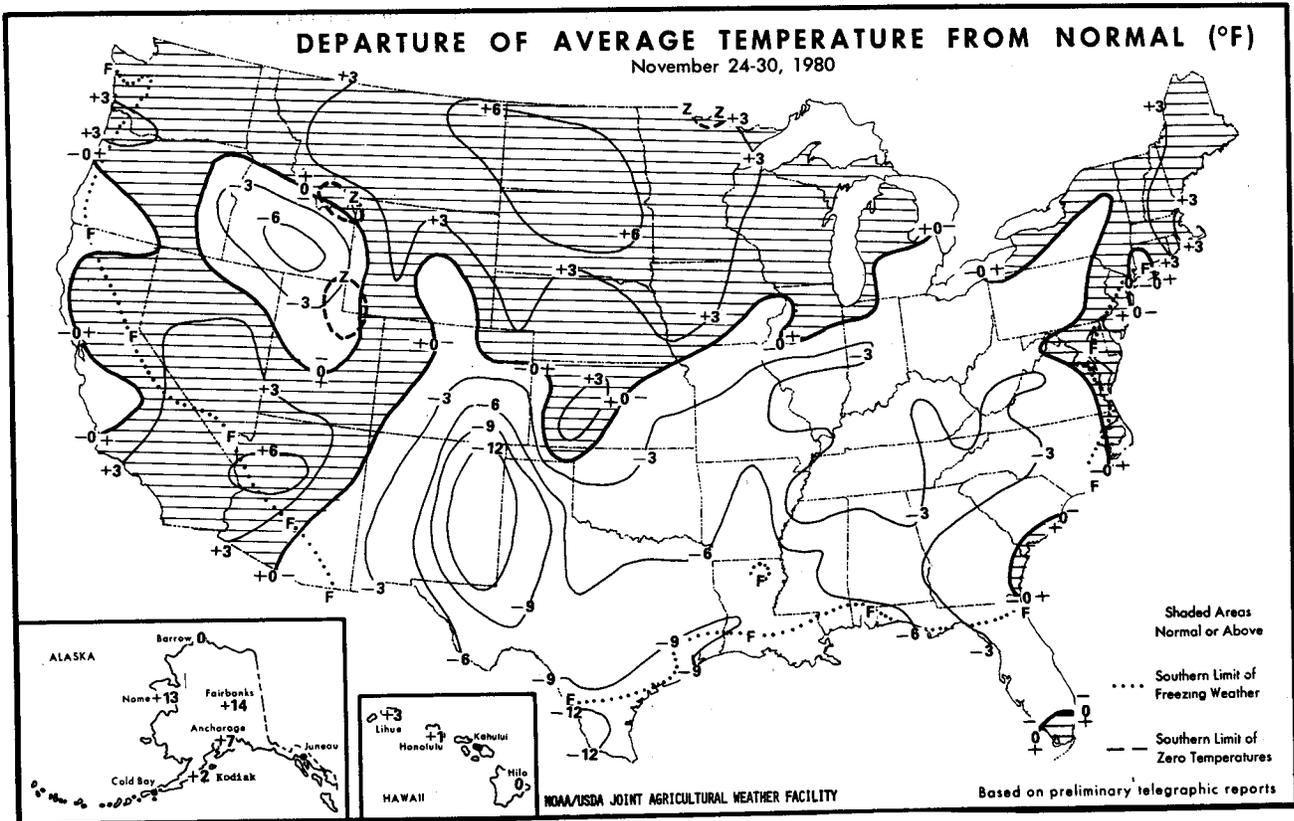
National Weather Summary

November 24-30

HIGHLIGHTS: A winter storm moved southeastward out of the Rockies early in the week and spread snow along the east slopes of the mountains and over the high Plains of Texas. Sleet and wet snow extended as far east as northern Louisiana. The storm moved into the Gulf of Mexico and, after midweek, spread snow northward through Arkansas and Missouri and northeastward through New England. Rain covered the rest of the East. Freezing temperatures reached into northern Florida as the winter storm moved northward. At the end of the week, some of the coldest air of the season was moving into the northern Plains. On the average for the week, temperatures were well above normal in the northern Plains and colder than normal in the midwest and South. Moderate to heavy rain along the northeast coast should help fill some reservoirs that are still low.

MONDAY...A complex storm system extended from a low pressure center in the Gulf of Mexico northward through the eastern Great Lakes. Rain spread from the Southeast along the east coast, through the eastern Lakes. Precipitation over much of the latter area began as snow. Elsewhere, a storm system developing in the Southwest pulled moisture from the Gulf of Mexico and spread snow from southeastern Idaho to the Texas Panhandle and light rain to central and southwestern Texas. High winds continued to plague the Southwest, exacerbating fires in southern California and kicking up dust in Arizona.

TUESDAY...The weather system in the Southwest moved southeastward to the western Gulf of Mexico and spread precipitation from eastern New Mexico and the Texas Panhandle through Mississippi. Much



colder air followed the storm and snow continued to fall in eastern New Mexico and western Texas. Nine to ten inches of snow accumulated in parts of Texas and New Mexico and the low temperature was 6° at Amarillo in the Texas Panhandle. Freezing rain extended from central Texas through northern Louisiana. Rain was heavy at times along the western gulf coast. Light rain or snow continued in New England as the old storm moved out. Some light rain or snow fell in the Pacific Northwest.

WEDNESDAY...The winter storm gathered strength over the Gulf of Mexico overnight and curved northward along the coast. Warm, moist gulf air being lifted over the colder air to the north and west of the storm caused widespread precipitation that reached from eastern Texas to central Illinois and Ohio, to the southern Appalachians, and the Southeast. Snow covered the ground from Shreveport, Louisiana, to central Illinois and Indiana. Rain was heavy from western Kentucky southward through parts of Mississippi and Alabama. Such rains would have been welcomed in southern California where strong winds and dry weather greatly increased the fire danger.

THURSDAY...The storm that moved out of the Gulf of Mexico was complex on Thanksgiving Day. One low pressure center moved northward to the west of the Appalachians and another formed and moved along the east coast. Precipitation was widespread east of a line from eastern Texas to the western Great Lakes but was of only light to moderate intensity. Snow was heavy in parts of the area from northern Arkansas through Illinois and Indiana and in New England. Another cold front moved onto the northwest coast and left moderate rain west of the Cascades and light snow or rain eastward into Montana.

FRIDAY...The winter storm intensified in the Great Lakes region and the coastal storm continued up the east coast into New England. Snow was widespread from the upper Mississippi Valley through the Great Lakes and Ohio Valley. A mixture of snow, sleet, freezing rain and rain was common over much of the North Atlantic Coast and in New England. The cold front from the Northwest moved into the central northern Plains with snow falling ahead of it and colder air dropping in behind it. Early morning temperatures dropped to freezing through most of Texas and to the Mississippi River and the Great Lakes.

SATURDAY...Snow, rain and/or freezing rain continued through New England as the winter storm moved through the area. Light snow covered parts of the Appalachians, much of the Great Lakes region Ohio, and western Pennsylvania. Meanwhile, an intense low pressure system approaching the Pacific Northwest buffeted that coast area with strong winds that reached 50 mph. There was rain along the coast from northern California through Washington and rainshowers, with snow at higher elevations eastward into Montana. In the Southeast, cooler air continued to push toward the coast and early morning temperatures were in the high twenties and thirties from north central Florida northward.

SUNDAY...The low pressure system off the Pacific Northwest weakened but another low moved through the Plateau to the central Rockies. A cold front formed from the western Great Lakes to the central Rockies. Very cold air, the coldest so far this season, moved into the northern Plains behind the front. Showers continued from northern California and the northern Plateau northward. Snow fell at

(continued on page 3)

National Agricultural Summary

November 24 - 30

HIGHLIGHTS: Rains across the Delta and throughout the southeastern region of the Nation brought field activities to a near standstill. Farmers in these areas only had 1 to 4 days suitable for fieldwork; in parts of the Corn Belt, 4 to 7 days were available. Soil moisture supplies improved and were rated short to mostly adequate, except in parts of the Delta and Southeast where heavy rains resulted in adequate to surplus moisture supplies. Plowing in the Corn Belt continued ahead of schedule. Corn harvest was nearly complete in most States, but advanced only a few points during the week in States with acreage standing. Soybean harvest neared completion in all areas except the Southeast where wet conditions continued to delay progress. Grain sorghum harvest was virtually complete. Winter wheat planting neared completion and had emerged on most of the acreage; the crop showed fair to mostly good condition, although more moisture was needed in most areas for optimum development. Cotton picking advanced to 80% complete, compared with 75% a year ago. Pastures declined seasonally but were rated fair to good in most areas; limited grazing was available on winter wheat fields.

CORN: Corn harvest was nearly complete in most States, but advanced only a few points during the week in areas with acreage standing. Rains slowed harvests throughout the South Atlantic and South Central States. Even though harvesting was slowed in these areas, progress remained ahead of schedule.

SOYBEANS: Soybean combining centered in two areas: the Delta and the Southeast. Wet conditions continued to delay progress in these areas and progress lagged last year and the average. Harvests ranged from 51% in South Carolina and 64% in North Carolina to 76% in Georgia and 80% in Virginia. Combining reached 85% in Arkansas, 91% in Mississippi, 94% in Alabama, and 99% in Louisiana.

SMALL GRAINS: Minor acreages of winter wheat remained to be seeded across the South. Seeding was virtually completed in other States, except California where planting was 58% finished. Rains were beneficial for germination of recently planted fields and for growth of emerged fields. More moisture is needed in nearly all producing areas for optimum development. Mild temperatures in Nebraska slowed the transition to dormancy and dry conditions increased the chance of winterkill. In Montana, light to moderate wind damage was reported in eastern areas. Kansas fields rated good and provided limited grazing.

COTTON: Cotton picking advanced to 80% complete, surpassing last year's 75%. Harvesting was finished in Louisiana, Missouri, and Tennessee. Progress in

all States except New Mexico was ahead of schedule. The Arizona harvest made excellent progress under near-ideal conditions; defoliation was complete and stalk shredding and discing was active. Harvesting in Texas was slowed by snow and rain; freezing temperatures caused some cotton stringing. Dry field conditions are needed for harvest resumption.

OTHER CROPS: The grain sorghum harvest was practically finished. Sunflower combining reached 83% finished in Texas. The sugarcane harvest was active in Florida and was 64% complete in Louisiana. The Texas peanut harvest was delayed by bad weather. Many poor fields were baled. Harvesting in south Texas will resume when weather conditions permit. Tobacco growers marketed their crop with strong burley sales reported in Virginia, Kentucky, and Tennessee. Growers prepared the sun-cured and fire-cured crops for auctions.

FRUITS AND NUTS: Growers pruned and cleaned up deciduous orchards. The pecan harvest advanced across the South, ranging from a late 40% in Texas, to 60% in Georgia, 68% in Louisiana, and 69% in Mississippi.

Florida citrus groves improved following recent rains; irrigation was discontinued. Cool temperatures helped prevent new foliage growth. Arizona growers harvested lemons, grapefruit, Navels, sweets, and early variety tangerines. Growers pruned, fertilized, and controlled weeds in California orchards and vineyards. The avocado harvest continued; some fruit drop was reported due to high winds. The lemon and Navel orange harvest was active. The Valencia crop looked good.

VEGETABLES: Florida vegetable shipments decreased 10% from the previous week. Crops gaining were carrots, squash, and tomatoes; lettuce movement held steady; all other crops decreased. Strawberry plants were growing well with some bloom and fruit set in early fields. Texas harvesting was delayed by rains, reducing the need for irrigation. The California market tomato harvest slowed. Lettuce, broccoli, and celery harvests increased slightly.

PASTURES AND LIVESTOCK: Pastures declined seasonally but were rated fair to good in most areas. Limited grazing was available on winter wheat fields. Supplemental feeding increased. Livestock were in fair to good condition, although some losses were reported on the High Plains of Texas due to a blizzard. Mild weather in the northern Plains has saved feed supplies by permitting cattle to utilize stubble fields, corn stalks, and winter range. Winter feed supplies in this area are expected to be tight. Calves were being sold and many herds were reduced in size.

(continued from page 2)

the higher elevations and in the northern Rockies. Light snow extended into the Dakotas. With the exception of a few showers in the northeast corner of the Nation, the remainder of the country was mild and dry.

Weather Data for the Week Ending Nov. 30, 1980

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	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	53	34	65	27	43	-5	.7	-.2	.1	11.5	115	90	55	0	3	2	1
MOBILE	58	40	68	34	49	-6	1.2	-.2	1.2	10.7	85	92	58	0	0	2	1
MONTGOMERY	58	39	67	29	49	-3	.3	-.7	.2	8.2	81	90	50	0	0	2	0
AK ANCHORAGE	29	19	38	3	24	8	.1	-.2	T	5.9	120	82	65	0	6	2	0
BARROW	2	-13	23	-16	-6	0	0	-.1	T	1.3	100	88	76	0	5	0	0
FAIRBANKS	16	6	18	-3	10	14	.2	-.1	.1	2.2	92	66	48	0	5	3	0
KODIAK	40	32	45	26	35	2	.6	-.6	.3	20.7	112	71	58	0	3	2	0
NOME	28	17	31	2	23	13	.6	-.4	.2	3.8	78	74	69	0	5	2	0
AZ FLAGSTAFF	54	28	67	22	41	8	T	-.3	T	1.8	39	---	16	0	6	0	0
PHOENIX	73	44	81	38	59	3	0	-.1	0	.1	7	39	16	0	0	0	0
TUCSON	69	39	81	32	54	-1	0	-.2	0	3.1	124	38	15	0	1	0	0
WINSLOW	56	27	68	17	41	3	.1	-.1	.1	.9	47	---	---	0	5	1	0
YUMA	76	49	82	46	63	3	0	-.1	0	0	0	34	16	0	0	0	0
AR FORT SMITH	53	33	69	31	43	-3	.2	-.5	.2	8.3	83	80	43	0	4	2	0
LITTLE ROCK	50	34	68	29	42	-4	.6	-.3	.6	12.4	122	79	55	0	4	1	0
CA BAKERSFIELD	68	39	71	33	53	1	0	-.2	0	0	0	---	28	0	0	0	0
EUREKA	57	41	61	37	49	-1	.6	-.7	.4	4.0	41	98	68	0	0	2	0
FRESNO	63	36	68	31	50	-1	T	-.3	T	.1	6	83	41	0	2	0	0
LOS ANGELES	76	51	81	47	63	3	0	-.4	0	0	0	52	30	0	0	0	0
RED BLUFF	64	38	72	34	51	1	.3	-.4	.3	1.3	30	---	38	0	0	0	0
SAN DIEGO	73	51	82	47	62	3	0	-.4	0	.1	6	55	45	0	0	0	0
SAN FRANCISCO	63	45	66	40	54	1	T	-.8	T	.2	6	77	42	0	0	0	0
STOCKTON	65	35	68	30	50	1	0	-.5	0	.1	4	---	39	0	3	0	0
CO DENVER	48	24	65	14	36	0	.2	.1	.2	1.4	47	71	39	0	5	2	0
GRAND JUNCTION	45	27	51	24	36	0	.4	.3	.4	2.4	104	82	50	0	6	1	0
PUEBLO	45	17	66	3	31	-5	.6	.5	.6	1.2	57	85	54	0	7	2	1
CT BRIDGEPORT	46	34	53	28	40	-1	2.4	1.4	1.3	10.6	110	71	50	0	2	4	2
HARTFORD	44	32	51	25	38	2	2.6	1.4	1.8	8.2	75	67	50	0	5	4	2
DC WASHINGTON	51	39	57	35	45	2	1.1	.4	.7	6.9	79	72	56	0	0	3	1
FL APALACHICOLA	64	46	70	33	55	-3	.8	.2	.5	10.4	73	84	52	0	0	4	0
DAYTONA BEACH	71	49	79	35	60	-2	2.0	1.6	.9	7.5	51	92	55	0	0	5	2
FORT MYERS	75	61	85	43	68	0	1.1	.9	.5	9.5	66	97	65	0	0	5	1
JACKSONVILLE	68	47	72	32	57	0	1.4	1.1	1.2	7.9	56	88	56	0	1	2	1
KEY WEST	78	69	85	60	74	1	.1	-.3	.1	36.7	237	88	72	0	0	1	0
MIAMI	78	64	83	51	71	1	.4	-.1	.1	15.0	76	83	62	0	0	2	0
ORLANDO	73	51	82	39	62	-2	2.8	2.5	1.4	10.8	84	94	55	0	0	4	2
TALLAHASSEE	64	41	68	28	53	-3	2.2	1.5	1.3	14.4	116	91	55	0	3	3	2
TAMPA	70	54	80	43	62	-2	1.2	.8	.6	8.2	77	91	65	0	0	3	1
WEST PALM BEACH	78	59	85	45	69	0	2.1	1.6	1.3	14.3	67	92	56	0	0	3	1
GA ATLANTA	52	36	63	30	44	-3	.6	-.4	.3	8.7	94	79	51	0	3	4	0
AUGUSTA	59	40	68	29	49	-1	.9	-.2	.3	9.1	117	75	52	0	1	4	0
MACON	61	40	69	29	51	-1	.4	-.3	.3	7.6	95	90	51	0	1	4	0
SAVANNAH	63	45	70	32	54	0	1.3	.9	.3	9.6	91	81	52	0	1	4	1
HI HILO	---	---	---	---	73	0	.2	-.3	---	28.2	88	---	---	0	---	---	---
HONOLULU	85	69	88	67	76	1	T	-.8	T	.8	16	48	81	0	0	0	0
KAHALUI	---	---	---	---	77	3	0	-.6	---	---	---	---	---	0	---	---	---
LIHUE	---	---	---	---	77	3	.1	-.4	---	16.8	147	---	---	0	---	---	---
ID BOISE	41	22	56	16	32	-4	.1	-.2	.1	3.4	142	88	57	0	7	1	0
LEWISTON	46	33	55	27	39	2	.1	-.2	T	2.7	87	78	60	0	4	2	0
POCATELLO	34	19	53	9	27	-5	.3	-.1	.2	4.3	195	95	70	0	7	2	1
IL CAIRO	46	35	64	30	40	-4	.7	-.3	.5	---	---	---	---	0	1	2	0
CHICAGO	40	29	51	22	35	1	.6	-.1	.4	8.7	110	87	59	0	6	4	0
MOLINE	41	25	58	15	33	-1	.1	-.3	.1	5.2	63	73	47	0	6	2	0
PEORIA	41	26	57	16	34	0	.3	-.1	.2	7.3	91	86	57	0	7	2	0
ROCKFORD	40	27	54	17	34	2	.2	-.3	.1	8.3	88	81	52	0	7	0	0
SPRINGFIELD	41	26	55	15	34	-3	.3	-.1	.1	7.1	84	95	67	0	7	3	0
IN EVANSVILLE	45	32	62	30	39	-1	1.0	-.1	.5	7.8	91	85	57	0	4	3	1
FORT WAYNE	39	28	48	19	34	-1	.4	-.2	.1	5.1	65	73	61	0	6	4	0
INDIANAPOLIS	40	28	57	20	34	-2	.8	-.1	.6	6.4	75	88	59	0	7	4	1
SOUTH BEND	41	32	48	24	37	3	1.0	.5	.6	10.5	121	90	71	0	3	3	1
IA BURLINGTON	42	26	58	18	34	0	.1	-.2	.1	9.4	112	---	---	0	5	1	0
DES MOINES	46	23	60	12	35	3	T	-.3	T	3.6	54	75	35	0	6	0	0
DUBUQUE	38	23	52	14	31	1	.2	-.4	.1	10.2	101	85	55	0	7	3	0
SIoux CITY	48	20	57	12	34	4	0	-.2	0	2.7	50	82	33	0	7	0	0
KS CONCORDIA	52	23	66	17	38	2	0	-.2	0	3.3	57	72	45	0	6	0	0
DODGE CITY	51	22	67	14	37	4	T	-.1	T	.3	7	73	30	0	6	0	0
GOODLAND	47	21	62	13	34	0	T	-.1	T	2.6	87	88	45	0	7	2	0
TOPEKA	48	24	64	16	36	-1	0	-.3	0	8.8	122	81	41	0	6	0	0
WICHITA	50	25	63	19	38	-2	T	-.3	T	2.5	33	74	35	0	6	0	0
KY LEXINGTON	44	31	59	25	38	-2	.5	-.4	.4	6.5	80	86	60	0	4	2	0
LOUISVILLE	47	33	63	28	40	-1	.9	0	.6	9.1	102	80	50	0	3	3	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Nov. 30, 1980

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	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPI- TATION
																.01 INCH OR MORE	.50 INCH OR MORE	
LA	BATON ROUGE	58	40	69	35	49	-7	1.8	.7	1.5	19.0	179	86	47	0	0	0	1
	LAKE CHARLES	59	38	71	32	48	-9	1.9	.8	1.8	12.9	108	91	47	0	1	1	
	NEW ORLEANS	62	41	71	36	52	-6	2.4	1.4	1.7	16.1	138	93	52	0	2	2	
	SHREVEPORT	57	36	75	30	46	-6	.9	0	.5	7.8	80	91	52	0	2	1	
ME	CARIBOU	34	25	40	17	29	5	2.1	1.3	.7	9.7	95	85	71	0	5	5	
	PORTLAND	47	31	50	29	39	6	3.1	2.0	1.5	10.9	97	67	60	0	6	3	
MD	BALTIMORE	49	33	54	27	41	0	1.2	.4	.9	6.9	77	83	53	0	4	1	
MA	BOSTON	48	35	54	29	42	2	1.1	-.1	.3	8.0	75	71	38	0	3	1	
	CHATHAM	48	36	53	32	42	--	1.5	--	--	--	68	58	0	1	2		
MI	ALPENA	37	25	41	19	31	1	.3	-.2	.2	4.5	58	--	0	7	0		
	DETROIT	40	27	46	15	34	-1	.5	0	.4	5.1	72	78	61	0	7	0	
	FLINT	38	28	45	21	33	0	.2	-.3	.1	7.6	107	88	70	0	6	0	
	GRAND RAPIDS	39	29	44	23	34	1	.6	0	.3	8.0	92	89	66	0	7	0	
	HOUGHTON LAKE	36	26	40	19	31	2	.2	-.3	.2	7.3	85	90	71	0	7	0	
	LANSING	37	27	46	21	32	0	.3	-.3	.1	6.1	84	90	73	0	6	0	
	MARQUETTE	33	18	36	12	26	2	.4	-.3	.2	11.8	131	94	73	0	7	0	
	MUSKEGON	38	31	45	26	35	1	.6	-.1	.2	8.5	92	82	69	0	4	0	
	SAULT STE. MARIE	34	21	38	12	28	1	.4	-.3	.2	7.8	79	96	75	0	7	0	
MN	DULUTH	31	18	36	11	25	3	.1	-.3	.1	8.9	124	90	66	0	7	0	
	INT'L FALLS	29	14	34	-3	21	4	.1	-.2	T	7.6	121	93	71	0	7	0	
	MINNEAPOLIS	40	21	50	14	31	5	T	-.2	.1	4.6	81	79	47	0	7	0	
	ROCHESTER	38	20	48	11	29	3	T	-.3	T	4.9	79	86	50	0	7	0	
	SAINT CLOUD	37	17	46	8	27	3	.1	-.1	.1	7.1	125	85	--	0	7	0	
MS	JACKSON	56	36	70	30	46	-6	1.4	.3	1.1	10.8	116	90	52	0	3	1	
	MERIDIAN	57	36	69	29	47	-4	1.3	.2	1.2	14.6	160	90	38	0	4	1	
MO	COLUMBIA	41	26	66	19	34	-5	.4	0	.2	7.2	72	73	51	0	5	0	
	KANSAS CITY	45	26	62	18	36	-1	0	-.4	0	6.1	69	69	43	0	2	0	
	SAINT LOUIS	44	32	67	25	38	-2	.7	-.1	.4	7.3	91	85	63	0	5	0	
	SPRINGFIELD	46	28	68	19	37	-4	.3	-.2	.1	7.2	73	84	52	0	5	0	
MT	BILLINGS	47	25	63	19	36	5	.2	-.1	.2	3.6	116	57	25	0	6	0	
	GLASGOW	42	17	51	5	29	6	T	-.1	T	2.4	141	87	43	0	7	0	
	GREAT FALLS	46	21	59	-3	34	2	T	-.1	T	2.6	104	58	31	0	7	0	
	HAVRE	43	20	51	13	31	7	.1	0	T	2.9	138	84	38	0	7	0	
	HELENA	47	20	60	12	33	6	T	-.1	T	4.2	221	73	36	0	7	0	
	KALISPELL	37	19	44	12	28	1	.1	-.2	T	2.0	53	77	69	0	7	0	
	MILES CITY	44	20	52	13	32	5	T	-.1	T	2.8	122	71	39	0	6	0	
	MISSOULA	41	22	49	16	32	3	.1	-.2	.1	2.3	79	86	55	0	7	0	
NE	GRAND ISLAND	50	20	62	13	35	2	0	-.1	0	2.4	60	77	32	0	6	0	
	LINCOLN	52	23	63	12	37	4	0	-.2	0	2.4	45	72	27	0	6	0	
	NORFOLK	47	20	56	13	34	3	0	-.2	0	2.8	65	76	34	0	7	0	
	NORTH PLATTE	49	16	59	12	32	1	0	-.1	0	1.5	43	84	28	0	7	0	
	OMAHA	48	25	55	17	36	4	0	-.2	0	5.0	82	95	29	0	2	0	
	VALENTINE	47	18	56	7	33	3	T	-.1	T	2.0	69	81	36	0	7	0	
NV	ELY	49	19	62	9	34	4	0	-.2	0	2.4	160	61	29	0	7	0	
	LAS VEGAS	66	41	79	34	54	5	0	-.1	0	.2	18	30	13	0	0	0	
	RENO	52	22	65	13	37	1	T	-.2	T	1.0	67	68	32	0	5	0	
	WINNEMUCCA	49	20	65	11	34	1	T	-.2	T	1.0	53	74	40	0	7	0	
NH	CONCORD	45	29	50	26	37	5	2.1	1.2	1.2	7.9	81	60	53	0	6	2	
NJ	ATLANTIC CITY	50	32	57	24	41	0	1.8	.9	.6	8.7	83	85	55	0	4	3	
	TRENTON	48	37	56	33	43	1	1.6	.8	1.2	8.6	91	--	--	0	3	1	
NM	ALBUQUERQUE	48	24	60	16	36	-4	.2	-.2	.2	2.2	122	82	40	0	7	0	
	ROSWELL	38	20	51	5	29	-14	.4	-.3	.2	7.6	238	--	--	0	6	0	
NY	ALBANY	41	30	46	20	35	2	1.5	.9	1.0	7.5	87	83	55	0	4	1	
	BINGHAMTON	36	28	40	21	32	-1	1.1	.3	.7	8.8	95	91	77	0	6	1	
	BUFFALO	42	32	51	27	37	2	1.0	.2	.5	11.1	110	82	68	0	3	1	
	NEW YORK	47	37	54	32	42	-1	2.8	1.9	1.8	8.5	86	74	63	0	1	2	
	ROCHESTER	41	31	45	23	36	1	1.2	.7	.7	9.8	126	90	72	0	3	1	
	SYRACUSE	41	30	48	21	35	0	1.1	.4	.7	8.9	98	87	75	0	4	1	
NC	ASHEVILLE	50	30	61	23	40	-2	1.4	.8	.8	10.0	102	94	53	0	4	2	
	CHARLOTTE	51	33	59	28	42	-5	1.3	.7	.6	10.8	123	86	55	0	4	1	
	GREENSBORO	49	33	56	26	41	-3	1.0	.3	.3	7.7	85	85	57	0	4	1	
	HATTERAS	60	44	70	33	52	0	2.3	1.3	1.4	13.1	87	81	61	0	3	1	
	RALEIGH	54	33	64	26	43	-2	1.0	.3	.9	8.7	94	90	48	0	4	1	
	WILMINGTON	60	43	68	30	51	-1	.7	-.1	.5	9.3	78	74	58	0	1	0	
ND	BISMARCK	41	19	46	9	30	8	.1	0	.1	3.6	138	84	40	0	7	0	
	FARGO	35	18	41	11	27	6	.1	-.1	.1	4.0	108	85	58	0	7	0	
	WILLISTON	39	17	45	1	28	6	T	-.1	T	4.4	200	83	46	0	7	0	
OH	AKRON-CANTON	41	29	47	19	35	-1	1.1	.7	.4	5.8	78	78	60	0	6	0	
	CINCINNATI	43	30	56	22	37	-2	1.3	.6	.8	8.1	101	80	64	0	4	1	
	CLEVELAND	40	28	50	19	34	-2	.8	-.1	.3	6.7	82	82	63	0	5	0	
	COLUMBUS	42	30	52	20	36	-1	1.2	.6	.6	6.6	96	86	63	0	3	1	
	DAYTON	41	30	54	20	35	-1	.9	-.3	.7	5.1	75	92	65	0	4	1	
	TOLEDO	40	27	50	14	33	-1	.5	-.1	.3	4.5	65	84	65	0	6	0	
	YOUNGSTOWN	38	29	46	19	33	-1	1.1	.5	.5	8.4	100	88	64	0	6	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Nov. 30, 1980

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	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK OKLAHOMA CITY	53	31	71	20	42	-3	T	-.3	T	3.7	50	77	38	0	5	1	0
TULSA	51	32	71	25	42	-3	T	-.5	T	6.3	68	76	38	0	4	0	0
OR ASTORIA	55	41	61	37	48	3	2.5	1.0	17.5	87	68	76	38	0	0	0	0
BURNS	44	22	52	15	33	1	T	-.4	T	2.0	69	91	54	0	0	0	0
MEDFORD	49	32	59	28	41	-1	.2	-.7	4.0	68	97	69	62	0	4	2	2
PENDLETON	47	32	58	28	39	1	.1	-.2	2.8	88	89	62	73	0	4	4	0
PORTLAND	52	40	57	36	46	3	1.2	-.3	9.1	82	92	73	78	0	0	0	0
SALEM	51	40	59	36	46	3	1.1	-.4	6.7	95	78	67	95	0	2	2	0
PA ALLENTOWN	46	35	49	29	41	4	1.6	-.9	7.9	67	85	72	57	0	4	3	6
ERIE	40	32	45	24	36	1	1.1	-.3	14.5	139	--	--	--	0	4	3	1
HARRISBURG	43	33	48	28	38	-1	2.0	1.4	7.7	92	71	56	56	0	2	2	3
PHILADELPHIA	49	36	56	32	42	1	1.3	-.5	10.9	121	76	52	65	0	5	4	0
PITTSBURGH	40	30	46	20	35	-2	1.3	-.7	6.1	79	80	65	57	0	2	3	3
SCRANTON	42	33	46	27	37	2	1.3	-.7	6.4	76	75	57	73	0	2	3	2
RI PROVIDENCE	51	35	56	28	43	5	1.9	-.8	8.2	73	76	49	49	0	3	3	3
SC CHARLESTON	62	44	71	32	53	1	1.5	1.0	7.1	68	84	51	51	0	1	1	0
COLUMBIA	58	40	68	29	49	-1	.8	-.1	10.5	109	79	52	52	0	3	2	2
GREENVILLE	51	35	59	28	43	-4	1.8	1.0	12.8	128	85	54	54	0	7	7	0
SD ABERDEEN	42	21	50	15	31	7	T	-.1	T	2.4	71	79	40	0	0	0	0
HURON	45	21	53	12	33	7	T	-.1	T	1.6	41	80	37	0	7	7	0
RAPID CITY	47	22	60	17	35	4	.1	0	3.3	127	70	34	40	0	7	7	0
STOUX FALLS	44	19	52	13	32	5	0	-.2	2.2	42	77	40	40	0	7	7	0
TN CHATTANOOGA	50	36	60	26	43	-2	.9	-.1	10.7	102	80	53	53	0	1	2	1
KNOXVILLE	48	35	57	31	42	-3	1.3	-.4	7.8	87	84	69	69	0	2	0	1
MEMPHIS	51	38	69	36	45	-2	1.1	0	13.7	141	74	53	53	0	2	1	1
NASHVILLE	50	35	64	29	42	-2	.6	-.3	4.9	54	82	51	51	0	4	2	0
TX ABILENE	55	35	70	29	45	-5	.1	-.3	8.5	139	84	47	47	0	7	2	1
AMARILLO	42	19	66	3	31	-12	.4	-.3	2.9	69	88	53	53	0	1	2	0
AUSTIN	59	38	73	32	48	-7	1.2	-.8	10.4	118	86	49	49	0	1	2	1
BEAUMONT	59	39	73	32	49	-8	.6	-.4	34.1	260	93	55	55	0	0	1	0
BROWNSVILLE	67	45	77	39	56	-9	.3	-.1	6.4	65	88	51	51	0	0	1	1
CORPUS CHRISTI	64	41	76	34	52	-10	2.1	1.8	10.4	116	89	53	53	0	1	2	0
DEL RIO	60	38	70	29	49	-7	.2	-.1	3.7	63	86	48	48	0	6	0	0
EL PASO	58	27	71	18	43	-5	0	-.5	8.8	110	82	44	44	0	2	0	0
FORT WORTH	56	36	72	30	46	-6	T	-.6	6.5	55	88	64	64	0	0	1	0
GALVESTON	56	45	67	37	51	-10	.3	-.6	12.1	95	95	48	48	0	3	2	1
HOUSTON	61	36	77	30	49	-9	1.0	-.1	8	125	90	62	62	0	5	2	1
LUBBOCK	45	25	68	8	35	-10	1.2	1.1	6.0	105	95	50	50	0	6	2	0
MIDLAND	52	27	71	21	40	-10	.4	-.3	10.5	292	95	50	50	0	3	1	0
SAN ANGELO	57	32	71	25	45	-7	.3	-.2	13.6	247	85	45	45	0	3	1	1
SAN ANTONIO	63	35	76	28	49	-7	1.3	-.8	9.6	113	90	41	41	0	3	1	1
VICTORIA	62	38	75	30	50	-9	1.0	-.5	8.8	83	90	51	51	0	2	2	1
WACO	58	36	74	28	47	-7	.7	0	5.3	64	93	50	50	0	2	1	1
WICHITA FALLS	54	33	74	27	44	-4	T	-.3	13.3	190	78	43	43	0	3	0	0
UT BLANDING	48	25	56	18	36	2	.3	0	--	--	77	47	47	0	6	1	0
SALT LAKE CITY	42	24	55	15	33	-2	.3	0	3.7	116	86	55	55	0	6	4	1
VT BURLINGTON	37	27	44	16	32	1	1.7	1.1	9.9	115	80	72	72	0	2	3	3
VA LYNCHBURG	49	33	55	27	41	-2	1.2	-.5	7.2	83	72	--	--	0	1	3	0
NORFOLK	57	39	65	32	48	1	.4	-.3	7.7	77	80	59	59	0	2	2	1
RICHMOND	53	35	59	27	44	-1	1.0	-.3	11.5	119	78	56	56	0	4	4	0
ROANOKE	47	32	56	23	40	-2	.7	-.1	5.8	64	70	41	41	0	4	4	0
WA COLVILLE	36	28	42	16	32	1	.2	-.3	-.1	--	--	--	--	0	5	4	0
OMAK	40	30	47	18	35	--	.2	--	2.1	34.3	126	97	82	0	1	5	2
QUILLAYUTE	50	35	54	31	43	1	3.7	3.7	10.1	84	93	76	76	0	0	5	1
SEATTLE-TACOMA	48	39	56	33	43	0	1.4	-.1	6	10.1	70	96	80	0	7	2	0
SPOKANE	38	28	48	20	33	1	.1	-.5	3.1	80	96	80	73	0	2	0	0
WALLA-WALLA	46	34	58	29	40	1	T	-.5	6.8	158	85	73	73	0	6	1	0
YAKIMA	46	27	53	19	37	2	.1	-.1	1.8	90	91	67	67	0	6	6	0
WV BECKLEY	41	27	51	17	34	-3	1.0	-.2	5.7	65	80	57	57	0	2	6	1
CHARLESTON	47	32	58	19	40	-1	1.1	-.4	7.4	89	81	57	57	0	6	6	0
HUNTINGTON	45	34	56	21	39	-2	1.0	-.3	6.4	82	88	66	66	0	1	5	0
PARKERSBURG	43	33	53	23	38	-2	1.0	-.4	6.1	82	89	65	65	0	1	2	1
WI GREEN BAY	36	25	40	19	30	3	.7	-.4	6.8	97	82	62	62	0	7	2	0
LA CROSSE	38	21	49	12	30	1	T	-.3	11.1	161	99	58	58	0	7	3	0
MADISON	39	24	54	15	32	3	.2	-.2	10.4	144	87	55	55	0	7	3	0
MILWAUKEE	39	28	49	21	34	3	.4	0	6.9	97	78	54	54	0	7	1	0
WY CASPER	40	18	53	8	29	-1	T	-.1	1.5	63	79	45	45	0	7	1	0
CHEYENNE	42	21	57	11	31	-1	.1	0	2.0	80	69	45	45	0	7	1	0
LANDER	42	18	57	8	30	3	.1	0	2.4	75	77	42	42	0	7	1	0
SHERIDAN	45	22	64	10	33	4	.7	-.5	3.5	109	71	26	26	0	6	2	0
PR SAN JUAN	88	77	88	73	82	3	.1	-1.1	12.7	73	54	77	77	0	0	3	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

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 ESS State offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 5° below normal. Rain during midweek 0.25 to 1.20 in.

Fieldwork: 2.4 days. Soil moisture adequate to surplus. Activities: Harvest, sowing small grains, chores, care of livestock and poultry. Soybeans harvested 94%, 92% 1979, 87% average. Cotton harvested 99%, 81% 1979, 85% average. Wheat seeded 94%, 89% 1979. Condition: Wheat, livestock, fair to good; pasture, pecans, fair.

ARIZONA: Mostly fair, dry. Weak storm early part week, light amounts rain, snow north, east central. White mountains 2 to 6 in. Temperatures mostly 2 to 6° above normal.

Cotton harvest excellent progress, near ideal conditions. Harvest 75% complete exceeded average, but running behind last year. Defoliation complete. Stalk shredding, discing, plowing active. Planting small grains mostly wheat, barley, active, substantial plantings small grains, mostly wheat, being double cropped behind cotton. Current planting rate wheat running well ahead normal. Harvest late sorghum active, nearing completion. Sugarbeets good top, tap root growth, planting new, renovation old alfalfa fields active, cutting continues but slowing rapidly. Lettuce harvest full swing. Mixed vegetable harvest making good progress. Honeydew melon harvest virtually complete. Land preparation, planting vegetables winter harvest active. Harvest lemons, grapefruit, Navels, sweets, early variety tangerines good progress. Ranges northern, central poor to fair, southern Deserts very poor to poor. Livestock fair, water supplies short.

ARKANSAS: Temperatures below normal. Precipitation midweek included snow. Highest normal 50°, lowest 41°; highest mean 47°, lowest 36°. Highest temperature 74°, lowest 12°. All departures from normal ranged from -1 to -6°. Most rainfall 1.14 in., least 0.18.

Soil moisture adequate. Fieldwork possible 4 days. Soybeans 85% harvested, 97% 1979, 92% average. Cotton 99% harvested, 92% 1979, 94% average. As of 28th, cotton classing offices had classed 422,000 bales. Oats 98% planted, 93% 1979, 97% average. Wheat 92% planted, 97% 1979, 95% average. Cattle fair condition. Protein supplements being fed due to hay shortage. Cool temperatures slowed pasture growth.

CALIFORNIA: A weak disturbance in upper atmospheric levels brushed across portions of north early in week. Precipitation amounts were light and grouped into the first two days of the period. The north Coast received the most but generally less than 0.33 in.; amounts tapered down rapidly to a few hundredths of an inch at the northern edge of the San Joaquin Valley. Trend of average temperatures was mixed. In keeping with the time of the year, all districts reported freezing temperatures at least one morning.

Stubble burning in rice fields, very active. Field corn and dry bean harvests reported complete in many areas. Milo harvest slowing down. Winter wheat crop 58% planted, 15% emerged. Cotton harvest 90% complete. Barley crop 30% planted. Pruning, fertilizing, weed control active in orchards and vineyards. Avocado harvest continues. Some fruit drop reported due to high winds. Date and kiwi harvests continue. Grapefruit demand

light. Lemon picking active. Navel orange harvest active; sizes small. Valencia crop looks good. Artichokes light supply. Broccoli slight increase Santa Maria, continues steady Salinas. Carrot harvest active Kern district, Salinas Valley. Cauliflower moderate. Celery increased slightly central and south Coast. Lettuce harvest increasing Palo Verde, nearly done San Joaquin Valley. Potato shipments from Tulelake-Butte Valley continue ahead of last year. Market tomato harvest slowing south Coast. Range conditions poor due to lack rainfall. Rain needed to start grasses, sustain growth. Supplemental feeding necessary. Stock water supplies short many areas. Calving, lambing active.

COLORADO: Winter storm over the mountains and southern half of State until 25th with up to 10 in. reported at some locales. Northwest and northeast quarters got 2 in. or less. Only scattered snow showers over mountains remainder of week. Temperatures ranged from 3° below normal in Kansas River Basin to 11° below normal in San Luis Valley.

Winter wheat emerged 100%, 100% 1979 and average.

FLORIDA: A cold front, bringing rain on the 24th moved out that night. The front moved north as a warm front on the 26th bringing warmer temperatures while another front moved across the State on the 27th and off the southeast coast by the 28th. High pressure dominated over the weekend with fair skies and cool temperatures. High readings were mostly in the 70's through the 27th except in the 50's in the Panhandle 27th and 28th, and 60's in the north while 60's prevailed weekend. Lows ranged from the 40's Panhandle to near 70° in the south on the 25th to the 50's north and 60's south on the 26th and cooled to the 20's in the Panhandle by the 30th. There was scattered frost over much of north mornings of 29th and 30th.

Rains in most areas sometime during week improved topsoil moisture most areas. More rain needed to replenish subsurface moisture in many central, upper northern Peninsula areas. Seeding, harvest activities generally slowed by rainy weather and Thanksgiving. Soybean harvest about finished. Sugarcane, cotton harvest continues. Rains very beneficial to winter forage and small grains. Some late planting, delayed by dry soils earlier, continues. Pastures poor to fair condition. Cattle mostly fair condition. Citrus grove condition improved last week with day-long soaking rains. Irrigation discontinued. Cool temperatures helped prevent new foliage growth. Harvest slowed by rain and Thanksgiving. Warm days and mild nights prevailed vegetable areas most of week. A cold front moved in the 27th with numerous showers and lower temperatures all areas. Showers and the Holiday reduced harvest most crops. Overall vegetable shipments down 10% from previous week. Crops gaining were carrots, squash and tomatoes. Lettuce movement held steady. Shipments declined for snap beans, cabbage, cauliflower, celery, chinese cabbage, sweet corn, cucumbers, eggplant, escarole, okra, parsley, peppers, and radishes. Strawberry plants growing well. Some bloom and fruit set in early fields. Light harvest expected in December. Harvest most crops expected to hold steady up to this week.

GEORGIA: Temperatures near normal. Rainfall averaged 1.00 in. north and central, over 2.00 in. extreme south. Fair and cold 23th and 30th.

Soil moisture adequate. Soybean and pecan harvest and small grain seeding major activities. Three days suitable for fieldwork. Corn harvest virtual standstill, 99% harvested, 98% last year, 95% average. Soybeans poor to fair, 76% harvested, 85% last year, 82% average. Cotton mostly poor to fair, 100% bolls open, same as last year, 98% harvested, 93% last year, 86% average. Pecans poor to mostly fair, 60% harvested, 74% last year, 71% average. Wheat seeded 75%, 86% last year, average 83%. Rye 89% planted, 91% last year, 88% average. Other small grains planted 87%, last year 91%, 88% average. Pastures fair to good, hay crops poor to fair. Cattle fair to good. Hogs fair to mostly good.

HAWAII: Weather favorable, sunny days more frequent. Showers occasional, mainly windward and higher elevations.

Heavy irrigation some crop areas. Crop conditions fair to good. Vegetables: Head cabbage supplies increasing. Others light to moderate. Bananas: Supplies adequate. Papayas: Orchards seasonal decline. Will bounce back some time near mid-December. Sugar: Harvesting declining. Most mills, Islands of Kauai, Maui, Oahu are closed or closing very shortly. However, all mills, Island of Hawaii, are still grinding. Pineapples: Slow. Pastures: Generally favorable. Some dry areas need more moisture.

IDAHO: Temperatures average up to 10° below normal, ranging from a high of 53° at Lewiston to a low of -9° at Fairfield. Precipitation levels were above normal. Snow fell in many areas. Farm activities minimal due to adverse weather. Some limited late corn and sugarbeet harvest. Livestock in good condition, feed supplies adequate.

ILLINOIS: Temperatures normal to 2° below northern one-third, 3 to 6° below normal southern two-thirds. Precipitation 0.10 to 0.20 in. north, 0.15 to 0.25 in. south; snow most areas 27th.

Winter wheat mostly good condition. Some fall plowing, fertilizer application continuing.

INDIANA: Wet cool week. Temperatures ranged from 14 to 63°. Snow in north and rain in south averaged 0.60 in. in north, and 0.80 in. in central and south. Four-week rainfall deficient 1.00 to 1.60 in. compared to normal.

Fieldwork averaged 4 days. Topsoil moisture short to mostly adequate, subsoil moisture short to adequate. Spring cropland 70% tilled, 1979 45%, average 45%. Wheat condition fair to good. Tobacco 40% stripped, 1979 40%.

IOWA: Continued warm and dry with only light precipitation southeast quarter. Temperatures varied from near normal southeast to 5° above normal northwest. Temperatures ranged from lows in the teens the 25th to highs in the low 60's and upper 50's the 30th.

Corn acreage harvested: 100%, 1979 92%, normal 97%. Soybean acreage harvested: 100%, 1979 100%, normal 99%.

KANSAS: Light precipitation most areas, some snow cover southwest and extreme west 25th. Temperatures 36 to 39°, 1 to 3° below normal southern one-third, 2° above normal elsewhere.

Corn harvested 100%, last year 97%, average 99%. Grain sorghum 99%, last year 98%, average 96%. Soybeans 100%, last year 99%, average 94%. Wheat planted 100%, last year 99%, average 100%. Wheat emerged 95%, last year 90%. Wheat good condition but short moisture supplies. Grazing limited, confined mostly corn and sorghum stubble.

KENTUCKY: Temperatures averaged near or a few degrees below normal. Precipitation occurring during the first five days of the period, ranged from 0.75 to 2.00 in.

Fall seeded wheat in good condition. Burley market strong with price averaging around \$166.00 per cwt. Poundage marketed to date above a year ago. Soil moisture ample. Pastures holding well, but some feeding necessary in most areas.

LOUISIANA: Rains Statewide. Temperatures 0 to 6° below normal. Extremes: 29 and 75°.

Soil moisture adequate to surplus. Fieldwork: 2.5 days suitable. Cotton harvested 100%, 96% 1979, 96% average. Soybeans harvested 99%, 99% 1979, 98% average. Sugarcane fair to good; harvested 64%, 78% 1979, 70% average. Vegetables fair. Pecans harvested 68%, 76% 1979. Pastures fair. Wheat planted 95%, 98% 1979, 97% average; emerged 86%. Livestock fair. Supplemental feeding continues.

MARYLAND & DELAWARE: Temperatures averaged normal to near normal. Highs upper 40's to mid 50's. Lows upper 20's to mid 30's. West and south received the most rain with about 2.00 in.

NEW ENGLAND: Temperatures near normal. Precipitation occurred early week and by weekend total amounts 1.25 in. in the interior to 2.00 to 3.00 in. along the coast.

MICHIGAN: Temperatures near normal, ranging from 1 to 2° above northern sections to 1° below southern areas. Precipitation below normal except southwest which was normal. Snowfall of 1 to 3 in. Lower and 2 to 5 in. Upper.

Corn harvest 98% complete. Getting ready for winter major farm activity. Supplemental feeding of livestock general.

MINNESOTA: Temperatures averaged from near normal southeast to 10° above normal northwest. Extremes: 53° at Redwood Falls, -3° at International Falls. Precipitation averaged from 0.09 to 0.35 in. below normal. Precipitation totals less than 0.12 in. Snowfall 0 to a trace except 1 to 2 in. extreme north. Snow depth at week's end 0 south and central, 1 and 6 in. north.

MISSISSIPPI: Temperatures 5 to 10° below normal. Extremes: 23 and 70°. A cold front at midweek brought rain. Greatest 24-hour rainfall 2.00 in.

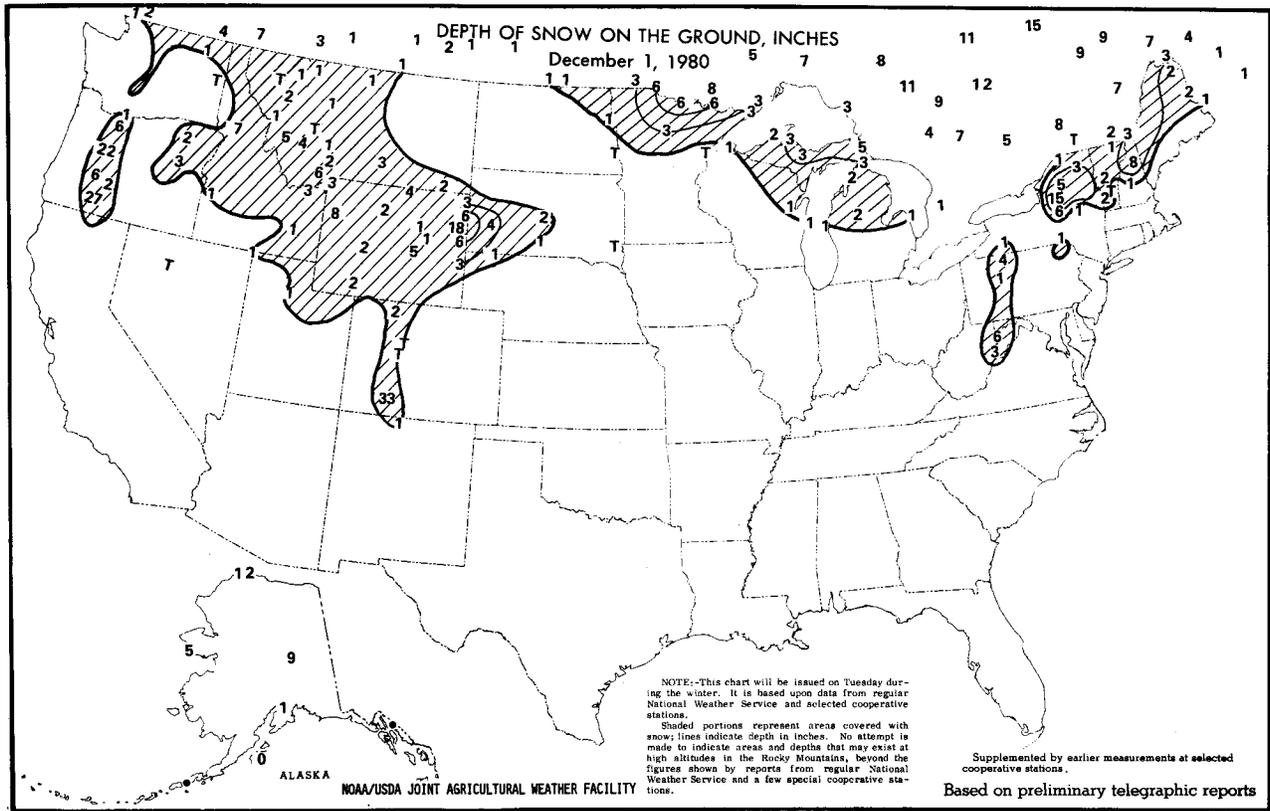
Soil moisture surplus to adequate. Fieldwork: 1.1 days suitable. Cotton 99% harvested, 89% 1979, 91% average. Soybeans 91% harvested, 95% 1979, 91% average. Pecans 69% harvested, 78% 1979, 74% average. Winter wheat 91% planted, 94% 1979; fair to good condition. Pasture condition fair; livestock condition fair. Hay and roughage and grain supplies mostly short.

MISSOURI: Temperatures averaged 5 to 7° below normal with coldest readings in the East Ozarks and warmest readings in the Bootheel and Northwest Prairie. Precipitation ranged from traces in the extreme northwest to 1.50 in. in the Bootheel.

Cotton 100% harvested, last year 100%, normal 94%.

MONTANA: Temperatures averaged 5° above normal northeast, 4° above normal central and southeast, about 2° above normal west and southwest. Cool temperatures early in week gave way to very warm temperatures by end of week. Highest 63° at Billings, lowest 9° below at Cut Bank. It was dry over area east of Divide. Light to moderate amounts of rain fell west of Divide.

Topsoil moisture mostly adequate. Subsoil moisture short to adequate. Winter wheat condition fair to good. Some light to moderate wind damage



reported some eastern areas. About 70% cattle and 80% sheep receiving supplemental feed. Cattle and sheep condition fair to good. Stock water supplies short east, adequate elsewhere.

NEBRASKA: Temperatures near normal to slightly above. Precipitation, only light amounts in west.

Wheat condition mostly fair to good. Mild temperatures slowing transition into dormancy. Dry conditions increasing chance of winterkill. Topsoil moisture short. Subsoil moisture short. Pasture and range feed supplies mostly short to adequate. Days suitable: 7.0.

NEVADA: Mostly sunny and mild until weekend when major storm front moved across north. High winds gusting up to 90 mph common. Some wind damage. Precipitation scattered and mostly light. Cotton harvest full swing. Livestock good condition.

NEW MEXICO: Soil moisture short most areas, adequate in southern and mountain region. Harvest of cotton, pecans, and chile resumed actively late in week. Cotton harvest 50% complete. Winter wheat, barley good condition as grazing continues. Grain sorghum harvest complete except for late fields. Chile harvest beginning to wind down. Pecan harvest increasing. Ranges poor to fair condition. Livestock reported in good condition. Some supplemental feeding occurring. Cotton harvested 50%, 63% 1979, 82% average.

NEW JERSEY: Temperatures near normal, averaging 38° north, 41° south and 43° coastal. Extremes: 18° at Newton and 58° at Toms River. Precipitation was above normal, averaging 1.80 in. north, 2.03 in. south and 2.30 in. coastal. Heaviest 24-hour total: 2.47 in. at Long Branch.

Recent rains beneficial for reservoirs and ground water supplies. Fruit pruning continues.

A few soybean fields remain for harvest. Farmers cutting wood and caring for livestock.

NEW YORK: Near to slightly below normal temperatures mainly in the 30's. Above normal precipitation 0.50 to 1.50 in. except for southeast where rainfall totaled 1.50 to 2.75 in. Most precipitation was rain or freezing rain except near the Great Lakes in snow belt areas.

NORTH CAROLINA: Temperatures below normal through midweek, normal by weekend. Precipitation averaged 0.40 to 1.30 in.

Fieldwork: 2.8 days suitable. Soil moisture: 2% short, 76% adequate, 22% surplus. Conditions: Wheat, oats, barley, rye good; pastures fair to good. Harvested: Cotton 97%, 1979 84%, average 87%; sorghum grain 93%, 1979 93%, average 94%; soybeans 64%, 1979 72%, average 68%; corn for grain 97%, 1979 98%, average 96%. Planted: Wheat 92%, average 88%; oats 94%, 1979 97%; barley 95%, 1979 96%; rye 94%, 1979 93%.

NORTH DAKOTA: Mostly mild and dry throughout the week. Temperatures averaged 4 to 6° above normal. Extremes: +5 and 46°. Precipitation mostly light.

Last week had mild weather with above normal temperatures and little snow. Harvest is almost complete, with sunflower 94% combined, corn 99% complete, and flax 97% done compared to 99, 97 and 100%, respectively, last year. Condition of winter wheat and rye mostly fair to good. Colder temperatures in the north froze the ground hard enough to allow combining of wet fields. An open fall permitted cattle to utilize the pasture available, and conserve scarce hay supplies. Normal fall activities continued. Cattle marketing mostly normal to above normal. Winter livestock feed supplies mostly short to adequate. Seventy-five percent of the cattle and 83% of the sheep are

receiving supplemental feed. Snow cover mostly none to light, and roads are in generally good condition.

OHIO: Most areas suffered through mild but wet 7 days on warm side of holiday frontal advance and missed most of snowfall. Temperatures averaged about normal with morning lows 1 to 3° above seasonal levels and afternoon temperatures a few degrees below normal. Precipitation totals ranged from 0.50 in. northwest to over 1.00 in. southwest. Bare soil temperatures at 4 in. holding in mid-30's overnight.

Most fieldwork finished. Holiday and late week storm interrupted most field activity still going on.

OKLAHOMA: Temperatures averaged 6° below normal Panhandle, south central and southeast divisions and 3 to 5° below normal elsewhere. Light precipitation ranged 0.01 in. southwest to 0.31 in. Panhandle.

Precipitation beneficial to completion of small grain seeding and germination of recently seeded small grains. Cooler temperatures and precipitation have been beneficial to small grain development and winter grazing prospects. Cotton harvested 70%, 55% last year and 40% average. Harvest of oilseed crops nearing completion. Livestock fair to good condition. Short forage supplies and higher feed costs major concerns of cattlemen. Ranchers busy feeding, culling herds, and preparing corn and sorghum fields for winter grazing. Days suitable for fieldwork 5.4.

OREGON: Temperatures remained near or slightly above normal except in the northeastern section, where temperatures were 4 and 5° below normal. Rainfall along the coast and Willamette Valley averaged 2.00 in. Southwestern valleys received almost 1.00 in. of rain, 3.00 in. of rain fell in the northern Cascades. South central and eastern stations reported 0.20 in. of rain, while the north central reported 0.50 in.

Soil moisture supplies mostly adequate to surplus. Winter wheat condition mostly good. Livestock condition good; range and pasture condition good. Feed supply availability adequate.

PENNSYLVANIA: Rain fell late 24th and dumped up to 2.00 in. of rain in south central areas. A mixture of rain, sleet and snow fell on 27th and 28th. Temperatures were mild early in the week and again at week's end. Seasonal middle of week. Extremes: 56 and 12°.

Normal chores.

PUERTO RICO: Island average rainfall 0.84 in. or 0.31 in. below normal. Temperatures averaged about 80° on Coasts and 74 to 73° Interior divisions. Extremes: 93 and 55°.

SOUTH CAROLINA: Most temperatures near normal, first two days considerably warmer than usual, then trended lower. Moderate rainfall first half for most areas.

Soil moisture adequate. Days available for fieldwork: 3.0. Cotton 97% harvested, will complete scrapping with suitable weather, 95 last year, 92 average. Soybean condition poor, most yields disappointing; 97% maturity lags 1979. Weather delays held harvest at 51%, lagging 74 last year. Livestock fair to good condition, feed supplies short. Winter grazing nearly planted, 91% emerged in fair to good condition, 94 last year. Wheat 82% planted, 86 year ago; 71% emerged in good condition, 76 year ago.

SOUTH DAKOTA: Temperatures were mild and above average while precipitation continued to be scarce. Temperatures generally 3 to 6° above normal ranging from 1° below normal to 12° above normal.

Yankton was the only reporting station below normal. Extremes: 60 and 2°. Again, little precipitation reported. The most significant amount occurred on the 20th at Newell with 7 in. of snow. Rapid City received 0.09 of an inch.

The harvest is complete except for an occasional isolated field. Grain storage and the transportation situation is normal except for Pennington, Custer and Miner Counties which are having a problem with insects in stored grain. An abnormally high amount of fall fieldwork could lead to an increase in wind erosion losses if snow cover is lacking throughout the winter. Moisture supplies short to adequate. Seedings of winter wheat and rye mostly fair to good condition. Livestock generally fair to good condition. Winter feed supplies will be tight in the western two-thirds of the State, although most producers have made arrangements for additional supplies. The recent mild weather has saved feed supplies by permitting stock to utilize stubble fields, corn stalks and winter range. Many herds have been reduced to just foundation stock in the West River counties and only a few producers are holding on to their calves until next year.

TENNESSEE: Cold frontal systems brought all areas rain 24th and 27th. Amounts generally 0.25 to 0.50 in., some light snow on Cumberland Plateau and eastern mountains before ending 28th. Low temperatures mostly in 30's, low 25° at Bristol. Highs were in the 40's and 50's.

Farmers busy marketing tobacco and caring for livestock. Cotton 100% harvested, 1979 80%, average 85%. Cattle fair, winter feed supplies adequate.

TEXAS: Weather: Snow over Panhandle, parts of Southwest. Light snow parts of South, North Central. Light rain South, first half of the week. Temperatures 8 to 10° below normal Panhandle, Southwest, upper Gulf coastal areas; 4 to 7° below normal extreme South, North; 3° below normal Low Rolling Plains, Edwards Plateau. Temperatures ranged mid 40's Panhandle to mid 50's North Central, South Central to low 60's along Coast. Rainfall 1 in. above normal Edwards Plateau, South, 0.25 in. above normal elsewhere. Rainfall averages up to 0.25 in. Western half to 1.00 in. East.

Crops: Rain, snow limited field operations. Dry, open weather needed to complete harvest. Cotton harvest slowed. Heavy snows on High and Low Plains affected cotton grade and yield. Freezing temperatures, caused some cotton stringing. Dry field conditions needed for harvest resumption. Small grains benefitted from recent moisture. Additional moisture still needed. Wheat fields northern High Plains moisture stressed. Drylands fields supplying limited grazing. Freeze damage reported to oats Cross-Timbers areas. Open, warm weather necessary to improve germination, grazing prospects. Wheat condition is 10% excellent; 35% good; 32% fair; 23% poor. Soybean harvest made little progress. Harvest on Upper Coast slowed by wet weather. Lower Valley reports soybeans nearing maturity. Peanut harvest slowed by bad weather. Many poor fields being baled. Peanut harvest South will resume when weather conditions permit.

Range and livestock: Pastures benefitted from snow, rains. Moisture helped wheat fields Plains. Pastures improving but generally poor. Supplemental feeding continues. Livestock fair to good. High Plains some cattle losses due to blizzard.

Commercial vegetables: Lower Rio Grande Valley, harvest of broccoli, cabbage, bell peppers, lettuce, cucumbers continued. Rains delayed progress. Irrigation reduced. Coastal Bend fall vegetables fair condition. Harvest slowed by rains. Cucum-

ber harvest continued. San Antonio-Winter Garden area, cabbage harvest continued. Fall vegetables good. East Texas sweetpotato harvest complete. Yields, quality affected by the prolonged drought. Trans-Pecos region, activities slowed by rain. Harvest of peppers, cabbage continued. Pecan harvest delayed. Yields, quality are poor.

Cotton harvested 69%, 66% 1979, 61% average. Wheat planted all purposes 96%, 97% 1979, 97% average. Wheat emerged 89%, 82% 1979. Peanuts harvested 84%, 97% 1979, 97% average. Soybeans harvested 85%, 96% 1979, 97% average. Sugarbeets harvested 57%, 100% 1979, 93% average. Pecans harvested 40%, 51% 1979, 61% average. Sunflowers harvested 83%, 99% 1979, 98% average.

UTAH: Scattered areas of rain and snow forepart period and in the north over weekend. Accumulated amounts moisture generally light to moderate but locally heavy. Cooling trend temperatures. Averages ranged between normal and 6° below.

Fieldwork limited to daily chores and care of livestock most northern areas. Apple, onion, and potato producers continued to process and market from storage.

VIRGINIA: Rainy, cool with moderating temperatures till mid-period, then warming over weekend. Temperatures averaged near normal. Extremes: Upper 60's to upper teens. Precipitation moderate, averaging near 1.00 in., occurring on 24th, 27-28th, with heaviest in north. Mixed frozen precipitation occurred in west on 27th, 28th, but no accumulation reported.

Wet conditions halted most outside work. Top-soil moisture mostly adequate. Fieldwork: 2.8 days suitable. Corn 96% picked, 95% 1979, and average. Soybeans 80% combined, 85% 1979, 82% usual. Tidewater, southeast soybeans 80% harvested, 83% 1979. Wheat 91% seeded. Grain sorghum 90% combined, 80% 1979. Winter grains in good condition, pastures mostly fair. Burley tobacco sales active; preparing sun-cured, fire-cured for auctions. Other activity: Livestock feeding and care; firewood cutting for home use and sale; harvesting winter greens; butchering hogs; reviewing farm re-

cords for taxes; applying for loans; fencing; winterizing equipment for storage; hauling manure; planning spring seedings; hunting deer.

WASHINGTON: West: Cool, wet weather continued with strong wind and heavy rain by week's end. Carrot harvest, pruning, and tying of bushberries continued. Christmas tree and holly harvest also continued. Livestock in good shape and on winter rations. Hay and feed supplies available and in good supply.

East: Overcast skies continued with cold nights and cool days. Some snow flurries reported. Fieldwork continued on limited basis. Winter wheat, barley in average to above average condition. Hay, forage adequate. Soil moisture ranged from adequate to good. Winter wheat planting 100% complete with 99% emergence.

WEST VIRGINIA: Temperatures averaged 5° below normal. High 56°, low 9°. Precipitation well above normal.

Soil moisture adequate. Days suitable for fieldwork: 3.4. Hay, grain and other feed supplies adequate.

WISCONSIN: Temperatures averaged near normal. Highs 30's and 40's except reaching 50's 30th. Lows mostly teens and 20's except few single digits 25th. Extremes: 55 and -1°. Precipitation light. Snow 1 to 3 in. south and east 27th, flurries and light snow 28th. Mild temperatures 30th melted snow cover. Very little ground frozen yet.

WYOMING: Overall temperatures averaged below normal except Snake River drainage where temperatures averaged 3.8° above normal. Coldest temperatures in eastern half. Highest temperature reported 58° while lowest was -3°. Precipitation averaged slightly below normal.

Winter wheat mostly good. Additional moisture needed for optimum development. Some corn for grain still being harvested. Livestock generally good condition, marketing continues. Little supplemental feeding thus far.

CROP PROGRESS

FOR WEEK ENDING NOV 30, 1980

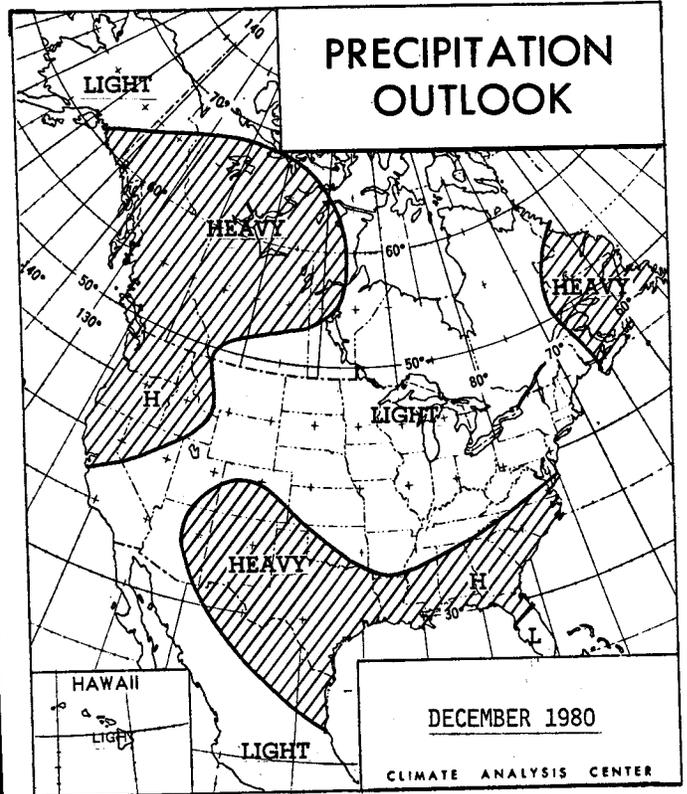
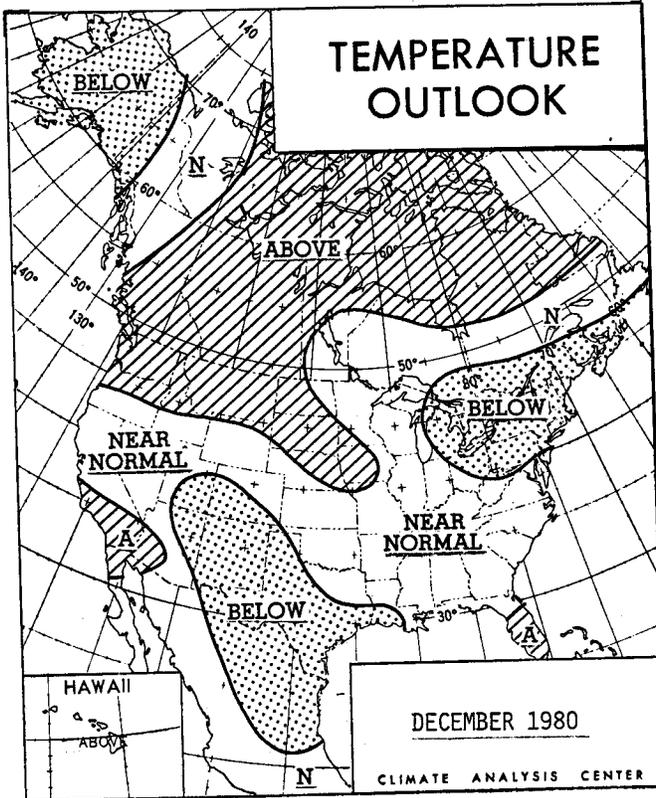
	COTTON % HARVESTED		
	1980	1979	AVG.
ALA	99	81	85
ARIZ	75	81	70
ARK	99	92	94
CALF	90	94	NA
GA	98	93	86
LA	100	96	96
MISS	99	89	91
MD	100	100	94
N MEX	50	63	82
N C	97	84	87
OKLA	90	55	40
S C	97	95	92
TENN	100	80	85
TEX	69	66	61

14 STATES	80	75	NA
EXCL. STATES WITH NA	78	73	69

THESE 14 STATES PRODUCED 99% OF THE 1979 COTTON CROP.

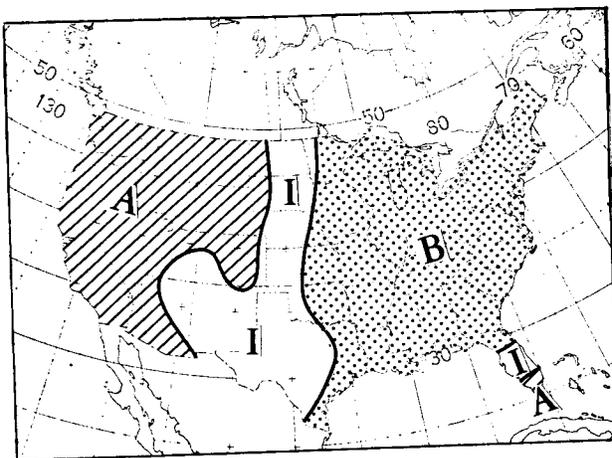
NA - NOT AVAILABLE

Average Monthly Weather Outlook



OUTLOOK FOR WINTER AVERAGE TEMPERATURES

DECEMBER 1980 THROUGH FEBRUARY 1981



-  **A** ABOVE NORMAL, 60% CHANCE OF OCCURRENCE
-  **B** BELOW NORMAL, 60% CHANCE OF OCCURRENCE
-  **I** INDETERMINATE, 50% CHANCE OF ABOVE NORMAL
50% CHANCE OF BELOW NORMAL

The two categories Above and Below are to be compared to the long-term average or "normal" temperatures of the year 1941-70. Each category has a natural climatic frequency or probability of 50%. Each carries a 60% probability of occurring where forecast (shaded area), based on the verification scores of twenty-one years of experimental seasonal predictions.

NOAA, National Weather Service, Climate Analysis Center

International Weather and Crop Summary

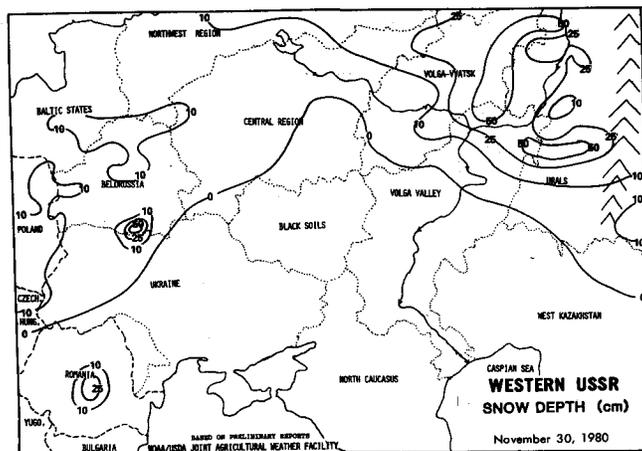
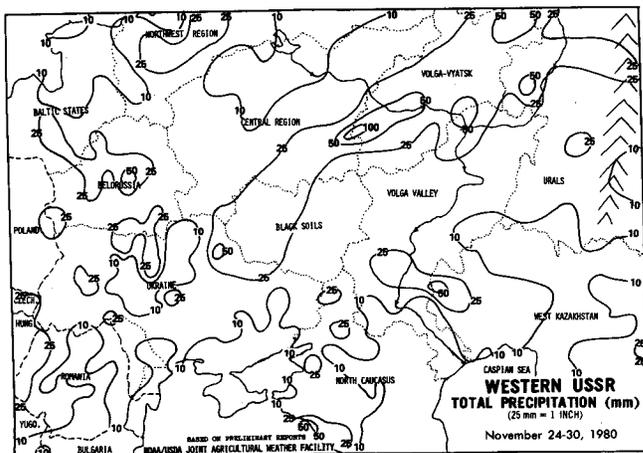
November 24 - 30

HIGHLIGHTS

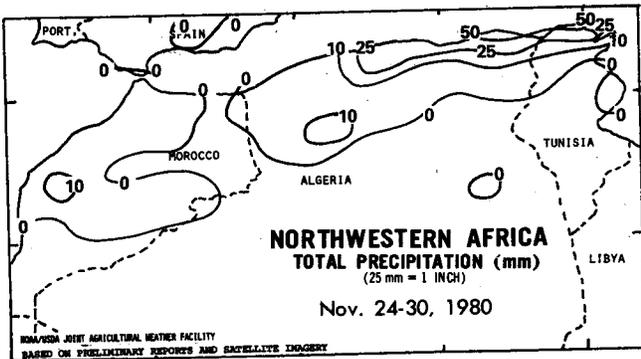
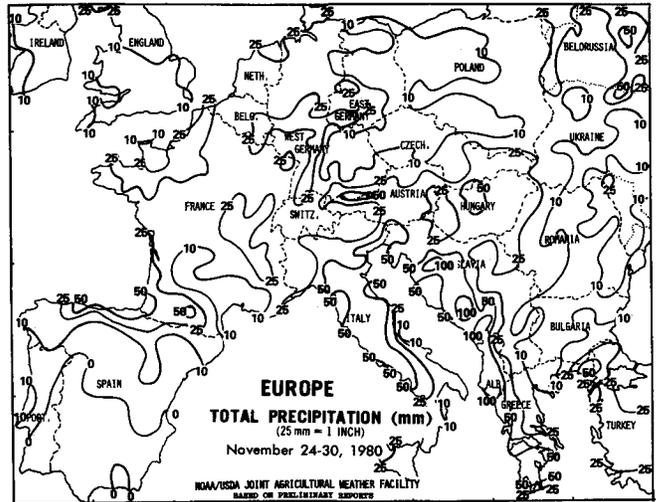
- WESTERN USSR:** Relatively warm and wet weather across the south benefited winter grains. Snow in northern winter grain areas afforded the crop needed protection.
- EUROPE:** A storm developed in the Mediterranean and dumped above-normal precipitation over much of Italy, Austria, Hungary, and western Yugoslavia.
- NORTHWESTERN AFRICA:** Winter grains in northern Tunisia and northeastern Algeria should be in good condition due to above-normal rain late in the week.
- SOUTH AFRICA:** Above-normal rainfall provided much needed moisture to southern and western portions of The Maize Triangle. Maize sowing is underway in areas previously too dry.
- EASTERN ASIA:** Above-normal rainfall in parts of China's double-crop rice area may have interfered with already delayed harvesting.
- SOUTH ASIA:** Rainfall in Haryana and Punjab states of India benefited unirrigated wheat fields very much.
- AUSTRALIA:** The wheat harvest advanced, with dry weather providing favorable conditions for harvesting in nearly all areas.
- MEXICO:** Excellent weather for vegetable development prevailed over the West Coast, while a two-week cool snap is helping color citrus in the North East.
- SOUTH AMERICA:** Moisture conditions are generally favorable for maize and soybean planting and growth in northern crop areas of Brazil and Argentina. Prolonged wet weather in Rio Grande do Sul may delay fieldwork.

WESTERN USSR. Warm weather crept a little further north, allowing some renewed winter grain growth in the southern half of the belt. Greatest departures above normal occurred in the North Caucasus. Late-sown winter grains in this area benefited from the extended warmth, which will allow them to become

more winterhardy. Most of European USSR received above-normal precipitation. The moisture fell as rain in the south, but renewed the snow cover in the northwest and increased snowdepths in the northeast. The snow in the northwest gave much-needed protection to poorly developed winter grains.

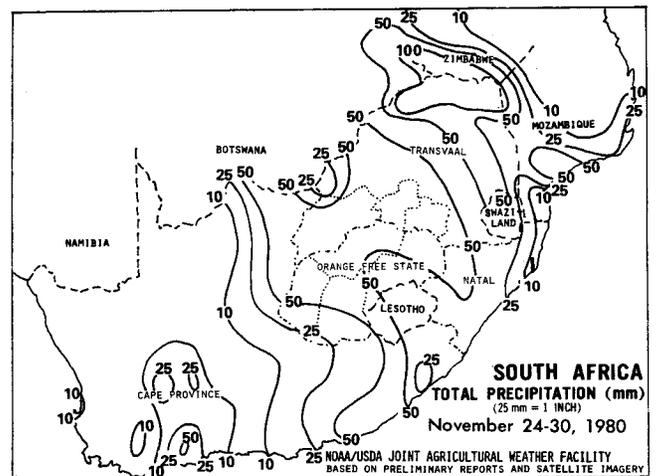


EUROPE. Temperatures dropped back to near normal in most countries, curtailing winter grain development in central and northern portions of the region. Average temperatures for the week tended slightly below normal in the west and slightly above in the east. Only in Romania and Bulgaria did much warmer than normal conditions persist. Accompanying drier weather in these two countries permitted late harvesting of maize. Wetter weather returned to many areas, with the greatest precipitation occurring in western Yugoslavia late in the week. Other wet areas included much of Italy, Austria, and Hungary, but only in Hungary were conditions detrimentally wet, with maize harvesting reportedly still in progress.

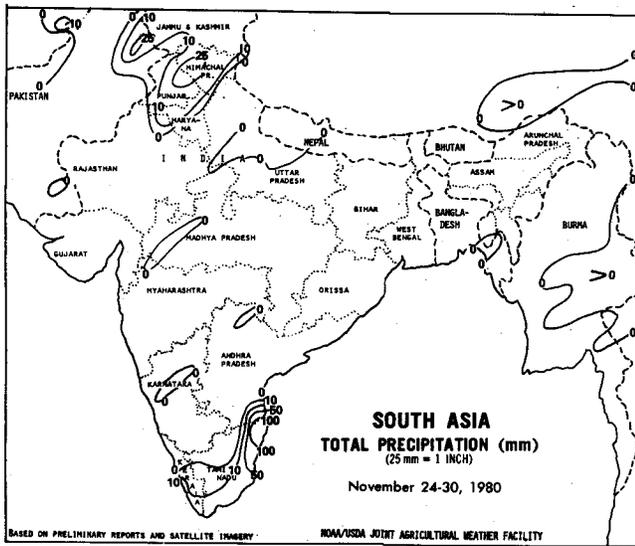
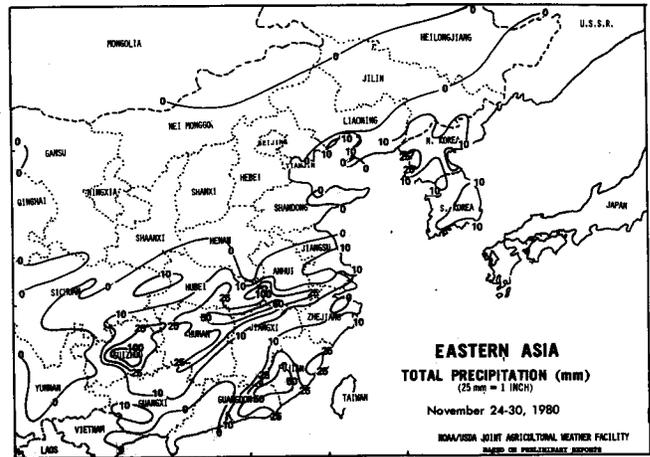


NORTHWESTERN AFRICA. Crop areas in northern Tunisia and northeastern Algeria benefited from above normal rainfall late in the week as a storm developed in the Mediterranean. Winter grains in these areas should be in good condition. Moroccan crop areas received only light rainfall for a second consecutive week, but soil moisture remains in good supply for winter grains. Only in western Algeria are conditions still too dry.

SOUTH AFRICA. Widespread showers produced above normal rainfall over much of the Maize Triangle. Weekly totals in the Orange Free State ranged from 40 mm in southern portions to 75-85 mm in western and northern portions. The moisture improved conditions for sowing and germination of maize, especially in southern and western portions which had not yet received significant rainfall. The maize crop needs to be planted by mid-December in most all areas to provide sufficient time to complete its growth cycle. In the Transvaal, weekly rainfall averaged 50 mm. Soil moisture supplies are adequate in this portion of the Maize Triangle. Additional moisture will be necessary to support crop development during the warm summer months.

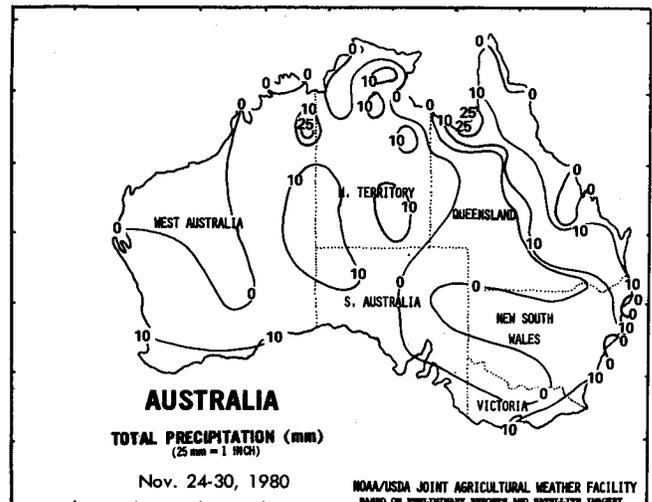


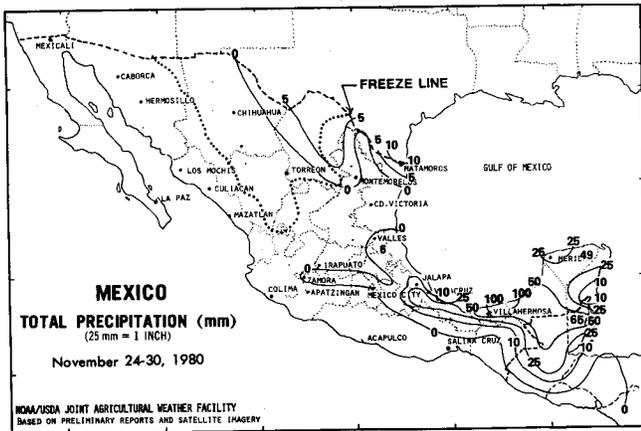
EASTERN ASIA. Above-normal rainfall spread to cover a substantial portion of southern China. Harvesting of the late rice crop should have already been completed, but some of the crop may still have been exposed to the moisture. The rains brushed southern portions of the winter grain belt, benefiting recently sown crops. Most of the belt received no precipitation, but soil moisture remained adequate for crop needs. Temperatures stayed above normal, promoting winter grain growth in all areas south of the Yellow River.



SOUTH ASIA. Rainfall continued in coastal areas of extreme southern India, a normal pattern for this season. Some winter grain areas in northern India received beneficial rainfall early in the week, raising totals for the month above normal. Unirrigated fields benefited very much from the moisture. A second westerly weather system was brushing the northern parts of the area at weeks' end.

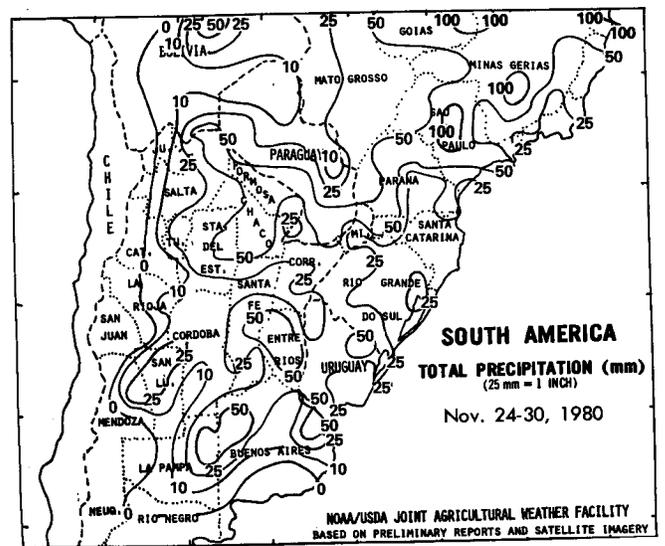
AUSTRALIA. Dry weather in most Australian wheat areas provided favorable conditions for the harvest which should now be concentrated primarily in southern portions of the wheat belt. In south-eastern Queensland, a few showers produced 10 to 20 mm of rain which will benefit sorghum and other spring-planted crops as the demand for moisture increases during vegetative growth. Dry weather prevailed along the coastal region of Queensland where the harvest season for sugarcane is in its final phase.



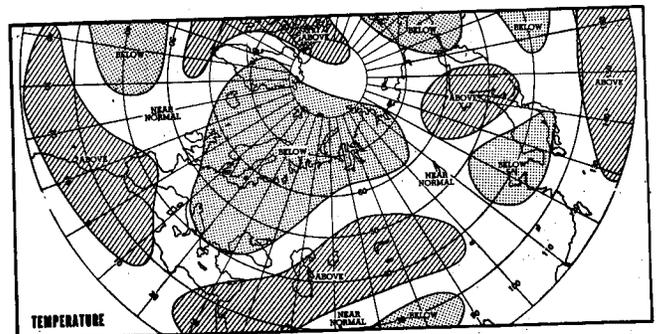
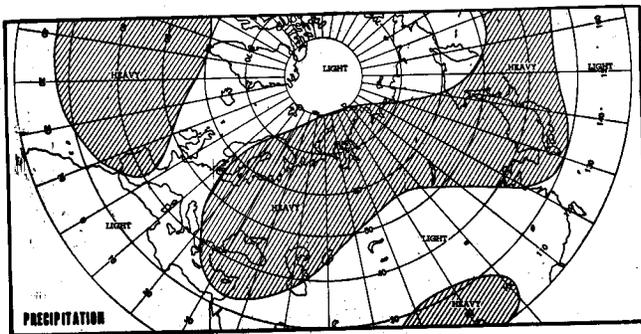


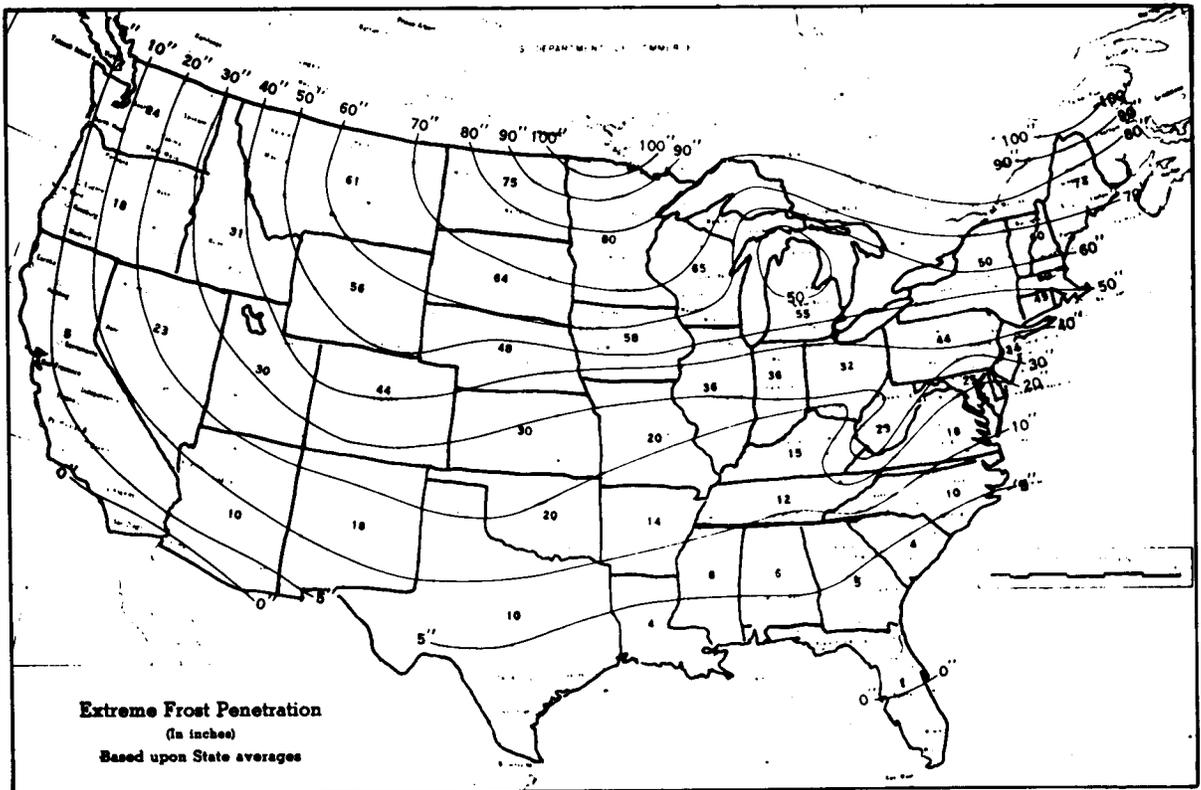
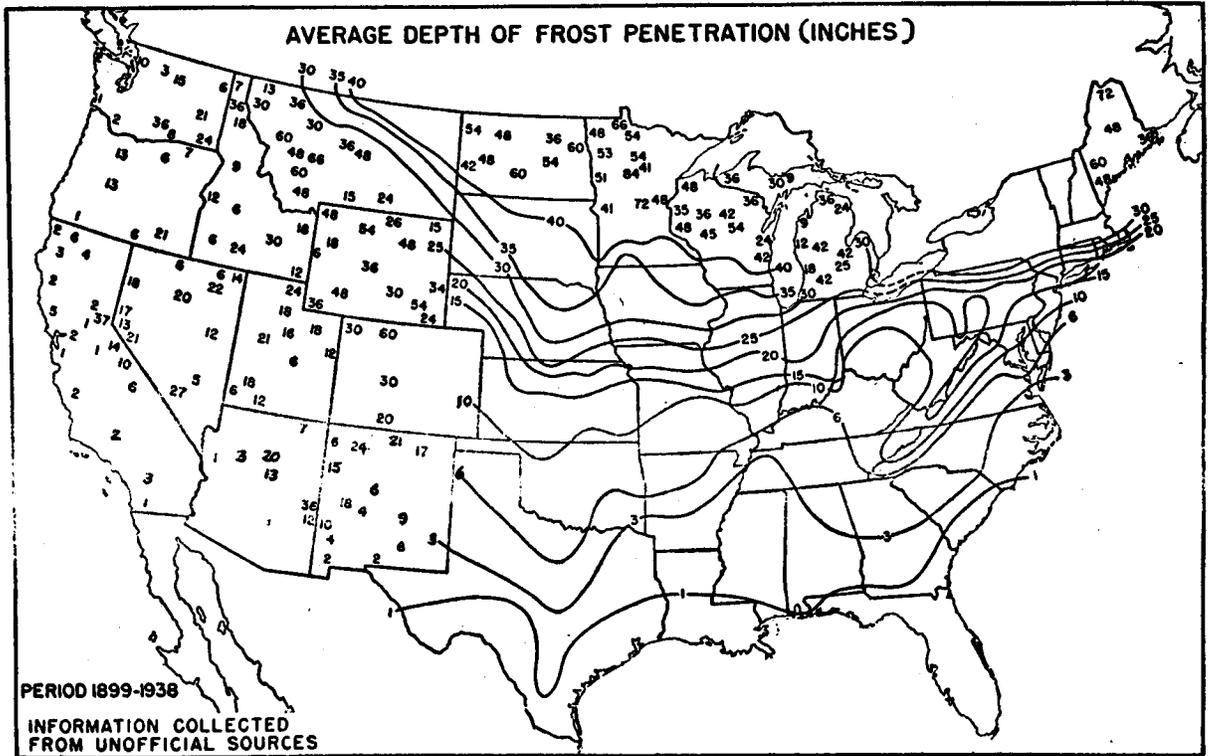
MEXICO. Warm, sunny weather over the west coast kept tomatoes and other winter vegetables progressing well. Unseasonable coolness of the past few weeks is helping color citrus fruit in the northeast. Mostly dry conditions favored corn harvesting in the southern plateau while heavy rains slowed harvest of minor crops from the Bay of Campeche coastal plains into the southern Yucatan Peninsula.

SOUTH AMERICA. Weekly rainfall averaged 25 to 50 mm in most of the maize- and soybean-producing areas of Brazil and Argentina. A frontal system moved through the region during the latter half of the week, producing heavy showers in some crop areas of Brazil. After a late start due to lack of adequate rain, soybean planting is nearly completed in Brazil's northern crop area. Showers improved soil moisture conditions in portions of northern Parana which had been somewhat dry. The rain-delayed wheat harvest and continued wet weather have slowed planting progress in Rio Grande do Sul. Abundant moisture has fallen in Brazil's southern crop area over the past several weeks. Argentina's wheat harvest is underway with favorable harvest weather in southern Buenos Aires and La Pampa. Shower activity may have delayed the wheat harvest in northern Buenos Aires and Santa Fe, but the additional moisture benefited the newly sown maize and soybeans.



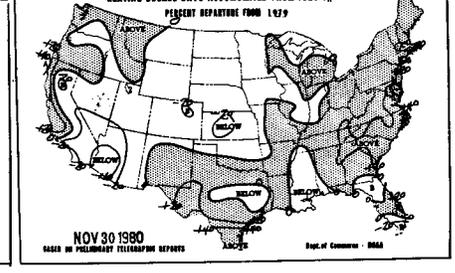
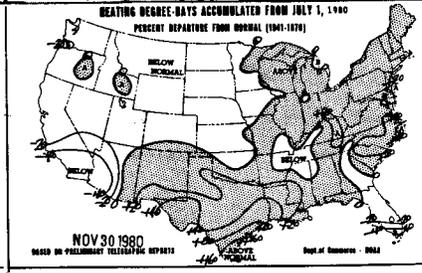
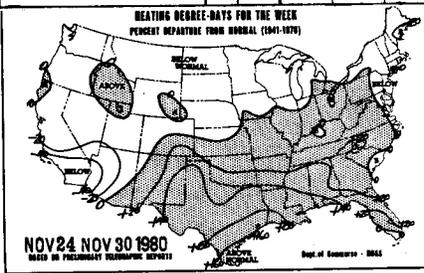
EURASIA WEATHER OUTLOOK...DECEMBER 1980...CLIMATE ANALYSIS CENTER

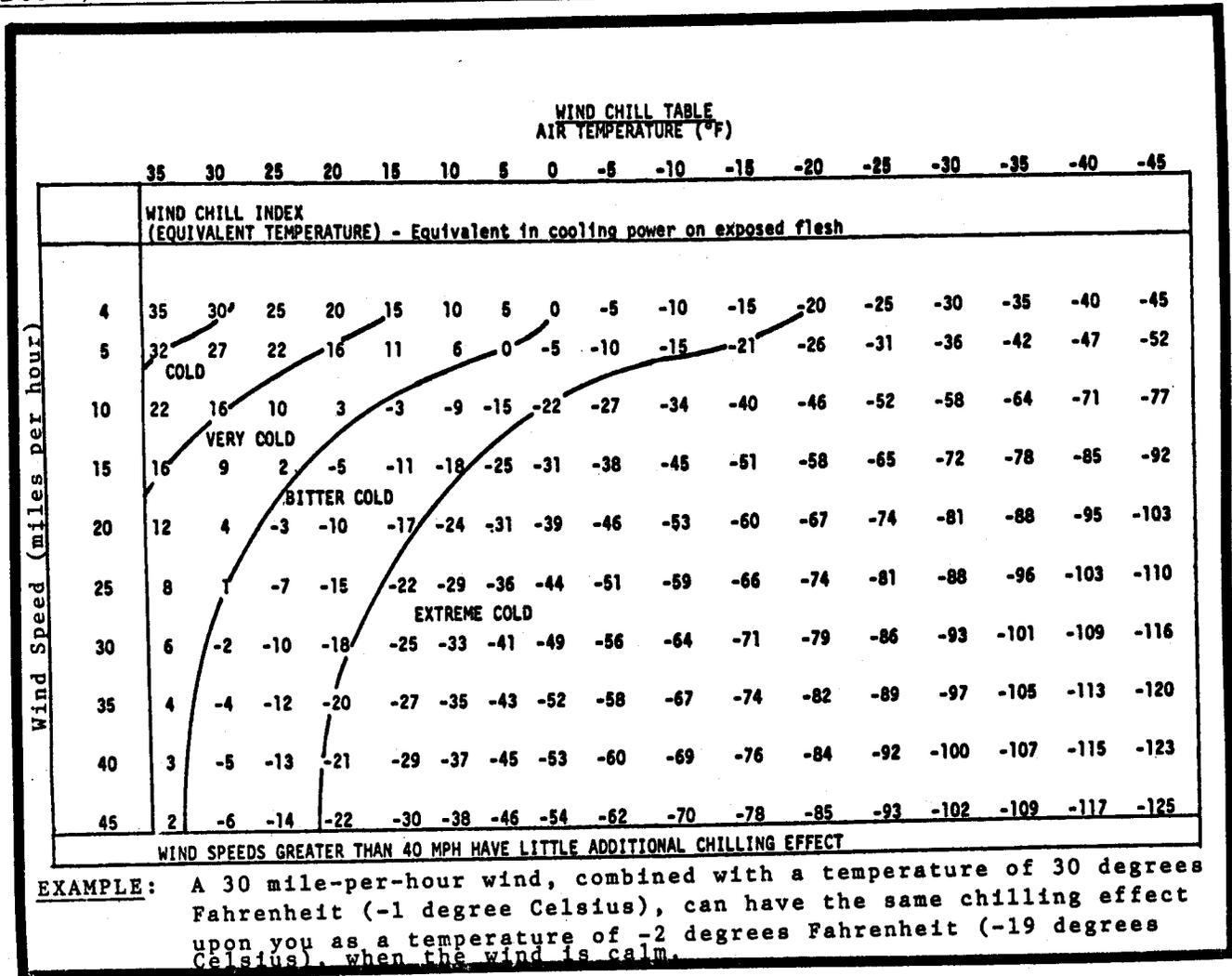




HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 30, 1980.
BASED ON 1941-70 NORMALS.
* ACCUMULATION FROM JULY 1, 1980.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +, and DEPARTURE FROM 1979-80. Rows list various cities across the United States.





National Oceanic and Atmospheric Administration

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CONTENTS

	<u>Page</u>
NATIONAL WEATHER SUMMARY	1
NATIONAL AGRICULTURAL SUMMARY	3
WEATHER DATA FOR SELECTED CITIES	4-6
STATE SUMMARIES OF WEATHER AND AGRICULTURE	7-12
SNOW MAP	9
CROP PROGRESS TABLES	11
DECEMBER OUTLOOK & OUTLOOK DEC THRU FEB(1981)	12
INTERNATIONAL WEATHER & CROP SUMMARY	13
EURASIA DECEMBER OUTLOOK	16
FROST PENETRATION	17
WEEKLY HEATING DEGREE TABLE	18
WIND CHILL TABLE	19
