

WEEKLY WEATHER AND CROP BULLETIN

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

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

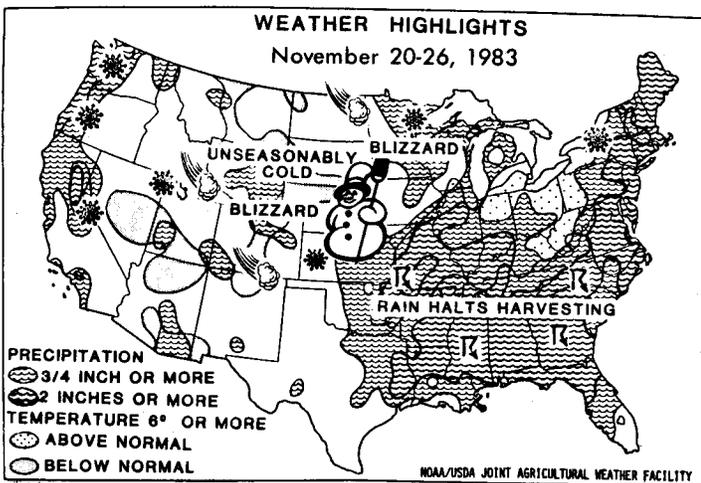
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Nov. 29, 1983

National Weather Summary

November 20 to 26



TUESDAY...The winter storm moved out of the Rockies into the central Plains and spread snow through the central Rockies, the western portion of the central Plains, the northern Plains, and the western Great Lakes region. Thunderstorms developed in the warmer air through Texas, Oklahoma, and eastern Kansas and spread through the lower and central Mississippi Valley, the lower Lakes States, and the Ohio Valley. Unusually warm weather spread through the East Coast States.

WEDNESDAY...Heavy snow fell over the upper Mississippi Valley with lighter amounts in the central and northern Plains. Showers and thunderstorms covered the rest of the East through the Appalachians and New England. Moderate to heavy thunderstorms occurred from Mississippi to western Georgia and northward through the Ohio Valley. Another Pacific storm approaching the west coast spread showers from central California through the Pacific Northwest.

THURSDAY...Light snow continued in the upper Mississippi Valley and over the western Great Lakes. Showers ahead of a cold front covered all of the East Coast States. The latest Pacific storm moved onto the west coast and spread showers all along the coast to southern California and over the Plateau to the central and northern Rockies. Very cold temperatures covered much of the Plateau and Rockies.

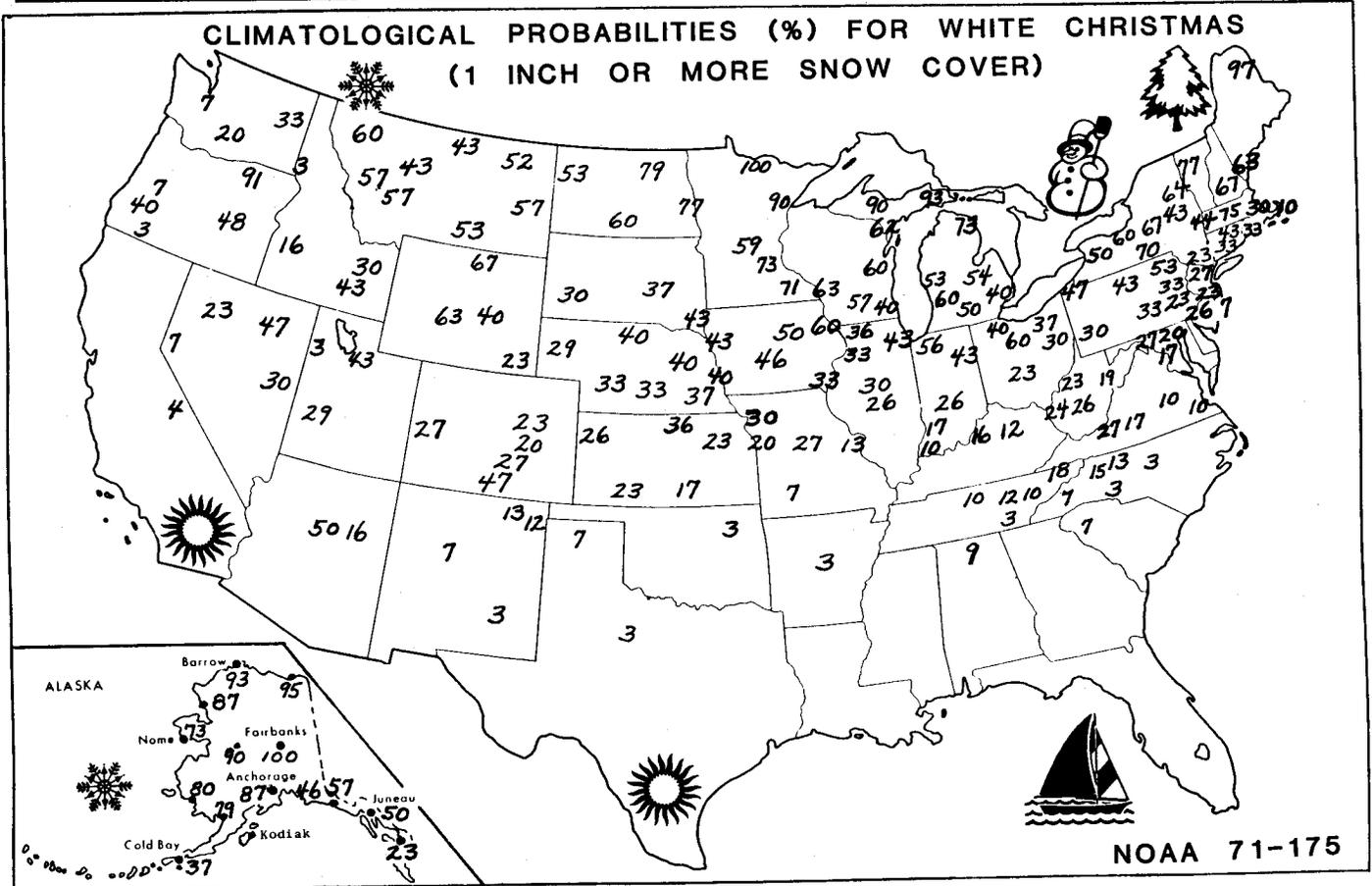
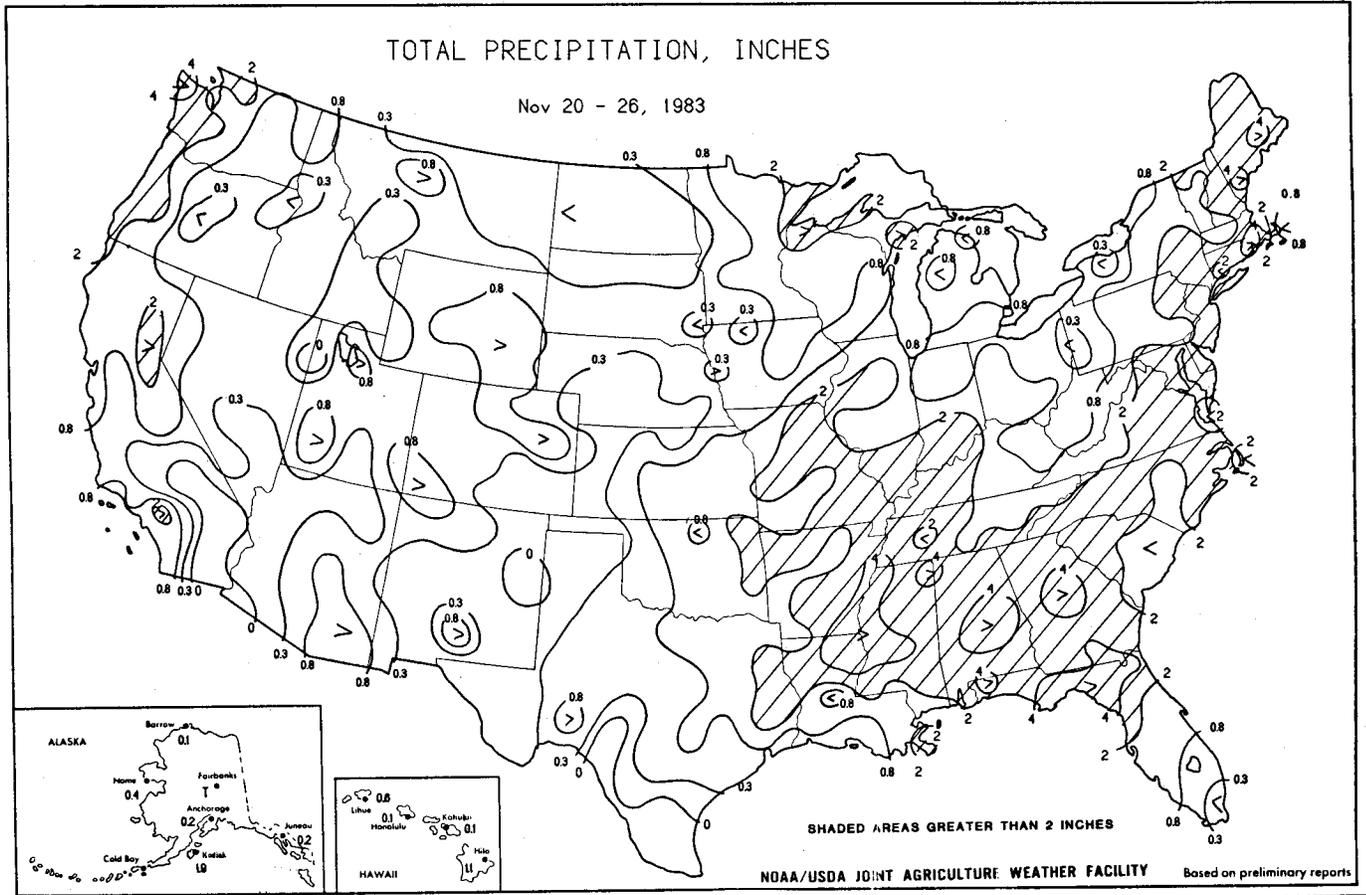
FRIDAY...Showers continued in the Northeast early in the day and snow showers fell along the lakeshore as cold air moved in behind the front. In the West, a strong winter storm dumped heavy snow over most of the Rockies. Moderate rainshowers fell in parts of Arizona and New Mexico.

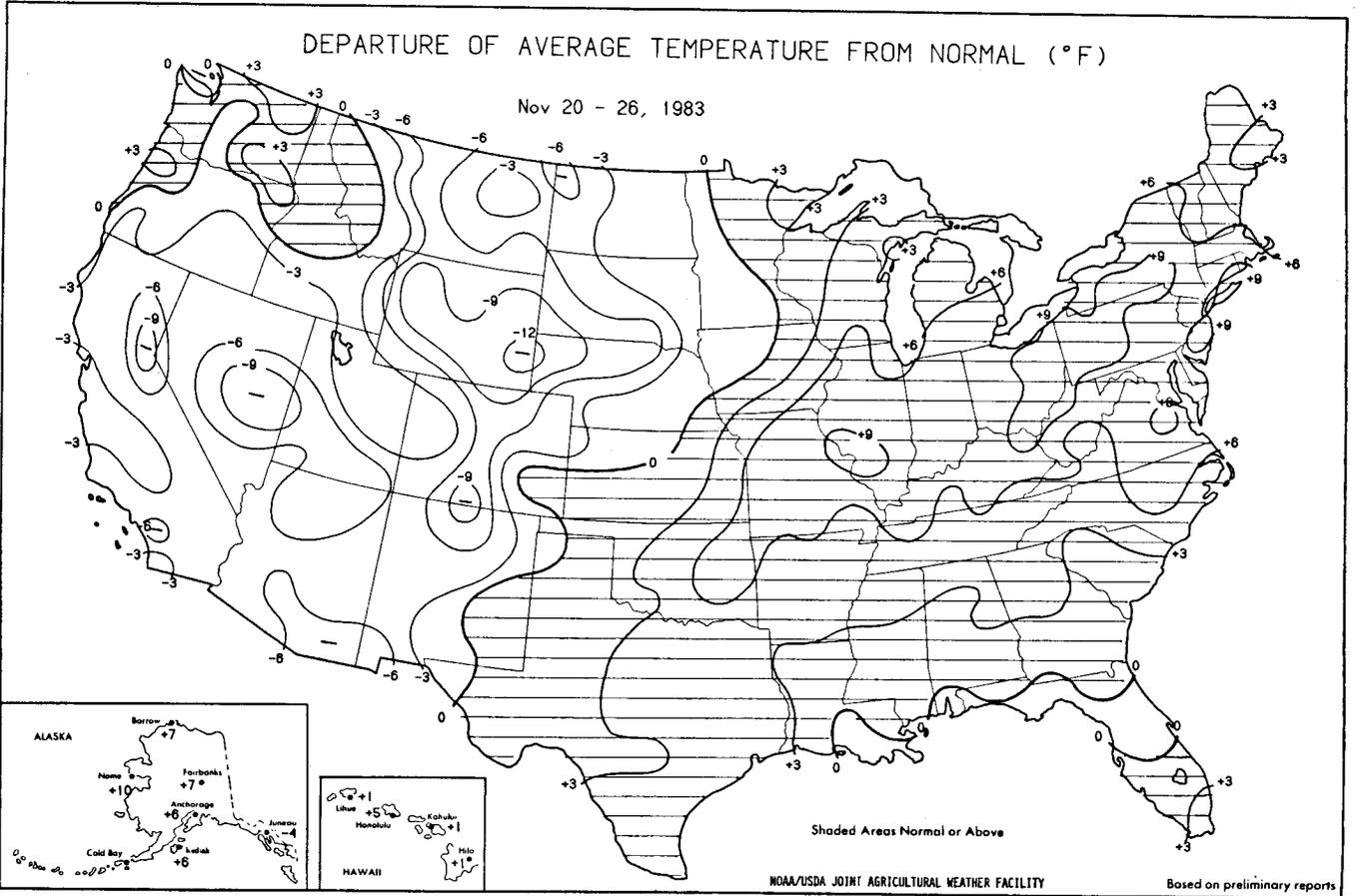
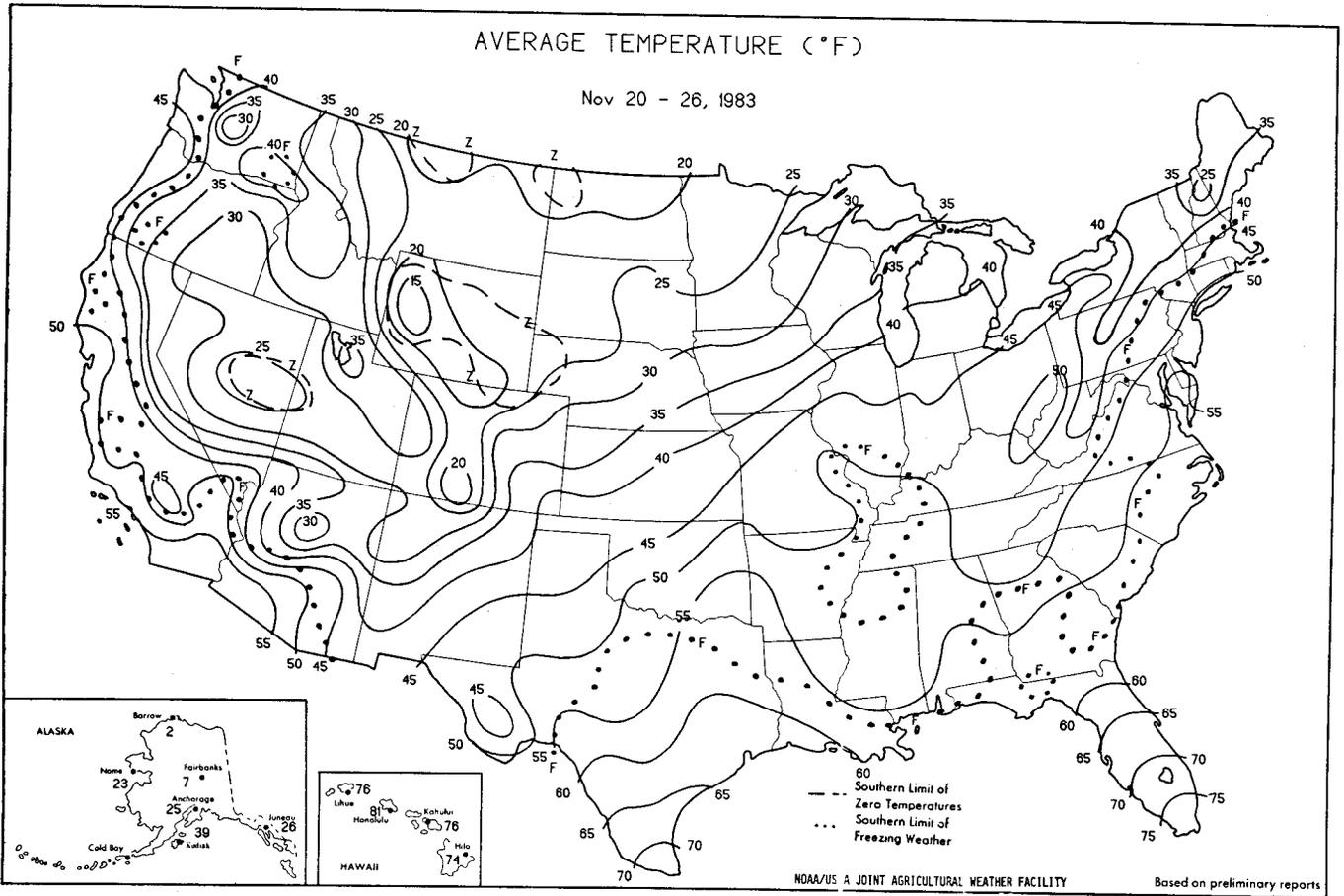
HIGHLIGHTS: A succession of Pacific storms brought heavy rain to the west coast and heavy snow to the Cascades and Sierras. Snow fell over most of the Plateau and Rockies with moderate rainshowers in the Southwest. Heavy snow and high winds combined with very cold air to create blizzard conditions in Utah, Colorado, and Wyoming and from Nebraska to the western Great Lakes. Moderate to heavy rain or rainshowers covered the eastern half of the Nation, and heavy thunderstorms spawned tornadoes across the South. Freezing temperatures reached into the valleys of California, the Texas Panhandle, and northern Florida.

SUNDAY...A cold front spread showers and thunderstorms across the eastern seaboard. Tornadoes were spotted in the Southeast. Showers fell through the Ohio Valley and the Great Lakes States. A Pacific storm spread rainshowers along the west coast with snow at the higher elevations and mostly snow over the high Plateau and the Rockies. Rainshowers spread over Arizona. Freezing weather covered part of the Plateau, the Rockies, and the western portion of the Plains into the Texas Panhandle.

MONDAY...A major winter storm was developing over the central Rockies and slowly moving eastward. Showers were widespread from Arizona and New Mexico through the Rockies to Montana and moved into Nebraska and South Dakota. Snow accumulated through most of this area and became very heavy in Wyoming. Skies cleared over the South and most of the East, but some rain continued in New England.

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Weather Data for the Week Ending Nov. 26, 1983

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 /AUG 26	PCT. NORMAL SINCE /AUG 26	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	65	39	76	29	52	2	3.2	2.3	1.9	11.3	105	54.5	108	94	46	0	1	3	2
MOBILE	68	45	78	32	56	0	2.8	1.8	1.1	16.7	125	74.5	122	90	56	0	1	5	3
MONTGOMERY	70	41	81	33	56	3	4.5	3.7	1.7	16.0	169	67.3	151	96	51	0	0	3	3
AK ANCHORAGE	30	19	36	3	25	6	.2	0	.2	5.1	96	11.8	86	90	70	0	7	4	0
BARROW	6	-2	10	-14	2	7	.1	.1	.1	1.5	107	3.0	59	90	64	0	7	5	0
FAIRBANKS	16	-3	31	-14	7	7	T	-	T	4.1	171	9.6	99	86	61	0	7	1	0
JUNEAU	32	21	35	16	26	-4	.2	-.9	.2	11.4	58	40.0	80	100	86	0	7	2	0
KODIAK	44	35	47	29	39	6	1.9	-.5	.9	18.5	76	68.9	108	89	64	0	1	5	2
NOME	27	18	35	11	23	10	.4	-.2	.2	5.7	116	12.7	81	83	70	0	7	4	0
AZ PHOENIX	62	43	72	38	52	-6	.4	.3	.4	3.7	218	11.8	182	84	28	0	0	2	0
PRESCOTT	46	28	54	24	37	-4	.3	0	.3	10.5	239	18.6	108	87	43	0	6	2	0
TUCSON	60	37	73	33	48	-8	.9	.8	.8	11.2	386	21.5	201	78	27	0	0	2	1
YUMA	67	48	79	42	57	-4	0	-.1	0	.3	30	4.3	165	48	22	0	0	0	0
AR FORT SMITH	64	40	76	27	52	5	2.7	1.9	1.9	11.6	116	32.8	86	90	46	0	3	3	2
LITTLE ROCK	64	41	72	30	53	4	1.3	-.2	.9	7.7	73	34.3	78	84	56	0	1	3	1
CA BAKERSFIELD	61	41	67	36	51	-2	.1	-.1	.1	.9	82	8.8	187	98	52	0	0	2	0
EUREKA	56	42	60	37	49	-2	1.8	.4	.7	15.9	183	52.8	166	92	74	0	0	6	2
FRESNO	55	41	63	35	48	-2	1.2	-.9	.8	3.7	218	20.0	238	92	59	0	0	3	1
LOS ANGELES	62	49	64	42	55	-4	1.0	.6	.8	5.7	285	27.5	272	65	55	0	0	3	1
RED BLUFF	53	38	59	33	45	-5	1.1	.3	.7	7.2	164	37.3	217	95	53	0	0	3	1
SACRAMENTO	56	42	59	36	49	-1	.7	.2	.5	5.9	197	29.7	223	87	50	0	0	4	1
SAN DIEGO	66	53	69	47	59	-1	1.3	1.1	.7	2.2	183	16.8	227	77	44	0	0	4	2
SAN FRANCISCO	57	45	61	40	51	-2	1.9	1.2	1.3	6.6	206	32.0	212	88	57	0	0	5	1
CO DENVER	40	19	59	6	30	-7	.9	.7	.7	2.5	76	19.0	126	84	51	0	7	3	1
GRAND JUNCTION	41	28	49	22	35	-1	.5	.4	.2	3.5	152	13.1	172	85	47	0	4	5	0
PUEBLO	52	23	66	14	38	0	T	0	T	1.1	48	12.0	104	84	35	0	7	2	0
CT BRIDGEPORT	56	44	64	36	50	8	1.7	.8	1.1	11.0	106	49.7	133	82	53	0	0	3	1
HARTFORD	54	38	62	32	46	7	2.1	1.1	1.3	13.2	115	49.3	122	89	46	0	1	4	1
DC WASHINGTON	64	43	73	35	53	7	2.7	2.0	1.0	13.5	152	45.9	127	85	49	0	0	3	3
FL APALACHICOLA	68	47	76	40	58	-1	4.8	4.1	2.5	15.2	98	57.6	109	93	66	0	0	2	2
DAYTONA BEACH	74	51	83	42	62	-1	1.1	.6	.6	20.5	142	61.4	131	92	59	0	0	2	1
JACKSONVILLE	72	47	81	35	59	1	2.6	2.1	2.2	12.8	96	55.8	109	96	50	0	0	3	1
KEY WEST	81	73	84	70	77	3	.3	-.4	.2	4.7	31	47.3	121	88	71	0	0	2	0
MIAMI	84	68	85	62	76	4	.2	-.3	.1	13.7	74	53.3	93	93	60	0	0	4	0
ORLANDO	78	53	85	44	66	0	1.1	.7	1.1	10.8	104	50.1	106	96	52	0	0	2	1
TALLAHASSEE	71	40	78	30	56	-1	5.0	4.1	2.5	11.1	82	59.5	98	98	55	0	2	2	2
TAMPA	76	56	82	46	66	1	1.5	1.0	1.4	11.1	99	55.9	121	98	62	0	0	2	1
WEST PALM BEACH	79	63	84	57	71	1	.7	.1	.5	21.0	100	74.7	127	93	62	0	0	2	1
GA ATLANTA	64	40	74	31	52	2	3.8	2.9	1.7	15.8	172	41.1	94	88	42	0	1	3	3
AUGUSTA	68	39	78	30	54	2	2.6	2.1	1.8	12.2	149	47.3	119	86	44	0	2	2	2
MACON	69	42	78	32	55	2	4.8	4.2	3.0	8.7	114	44.4	109	85	45	0	1	2	2
SAVANNAH	69	44	75	32	56	1	1.8	1.3	1.0	8.6	88	50.0	103	92	52	0	1	3	2
HI HILO	81	67	83	63	74	1	1.1	-2.5	.5	23.1	75	64.4	56	90	64	0	0	5	0
HONOLULU	87	74	88	69	81	5	.1	-.7	-.1	1.5	28	3.9	20	77	49	0	0	1	0
KAHULUI	86	65	90	61	76	1	.1	-.5	-.1	1.8	55	6.9	45	87	59	1	0	1	0
LIHUE	82	71	87	68	76	1	.6	-.7	.5	4.7	40	15.5	40	88	64	0	0	2	0
ID BOISE	43	26	51	18	34	-3	.6	.2	.6	2.9	121	14.6	143	93	52	0	6	2	1
LEWISTON	47	33	50	26	40	2	.1	-.2	.1	2.7	93	12.2	109	91	62	0	3	1	0
POCATELLO	35	26	42	17	30	-2	.2	0	.1	5.0	227	16.5	170	86	60	0	7	4	0
IL CHICAGO	50	30	60	22	40	3	1.8	1.3	1.6	10.8	135	43.7	136	90	57	0	6	2	1
MOLINE	52	31	60	20	41	6	1.1	.7	.5	12.2	145	32.8	92	90	62	0	4	4	1
PEORIA	56	36	65	29	46	9	2.1	1.7	1.1	12.2	144	37.9	111	86	61	0	2	3	2
QUINCY	58	37	72	30	47	9	1.5	1.1	.8	13.5	138	30.7	83	85	59	0	3	3	2
ROCKFORD	50	30	63	23	40	6	1.8	1.3	.9	9.7	105	31.0	85	88	59	0	6	3	2
SPRINGFIELD	57	37	67	28	47	8	1.3	.8	.7	8.3	106	27.6	85	85	56	0	3	3	1
IN EVANSVILLE	61	38	72	31	49	7	2.4	1.6	1.7	10.9	127	43.7	111	85	49	0	2	3	0
FORT WAYNE	56	37	65	30	46	9	.6	0	.4	7.9	100	26.7	80	86	61	0	2	2	0
INDIANAPOLIS	56	34	65	25	45	6	1.2	.5	1.1	8.8	105	31.6	86	88	59	0	2	3	1
SOUTH BEND	53	35	64	28	44	7	.5	-.1	.4	6.2	66	26.3	74	82	57	0	2	2	0
IA DES MOINES	43	27	50	15	35	0	.8	.5	.5	16.6	234	38.6	126	85	61	0	4	3	0
SIoux CITY	39	26	46	21	32	0	.2	0	.2	7.0	127	26.5	105	85	61	0	7	2	0
WATERLOO	39	26	50	15	32	1	1.2	.8	1.0	10.8	138	34.7	106	92	69	0	6	3	1
KS CONCORDIA	46	26	55	15	36	-2	.1	-.1	.1	6.1	100	23.7	88	89	51	0	7	1	0
DODGE CITY	55	28	74	20	41	2	-.6	-.5	.6	5.7	143	23.3	114	88	44	0	6	2	1
GOODLAND	43	21	65	11	32	-3	.4	.2	.4	1.9	59	16.5	101	87	48	0	7	1	0
TOPEKA	57	32	69	19	44	5	1.4	1.1	.7	10.5	127	34.6	105	81	46	0	3	3	1
WICHITA	55	30	68	21	43	2	1.2	.9	.9	7.9	101	35.4	125	88	50	0	4	3	1
KY BOWLING GREEN	61	38	70	29	50	6	2.0	1.0	1.3	9.7	99	46.0	100	91	51	0	2	2	1
LEXINGTON	58	37	68	27	48	6	.5	-.4	.3	9.3	106	35.2	87	88	49	0	2	2	0
LOUISVILLE	60	39	71	28	50	6	2.1	1.2	1.7	11.5	119	42.0	101	74	49	0	2	2	

Weather Data for the Week Ending Nov. 26, 1983

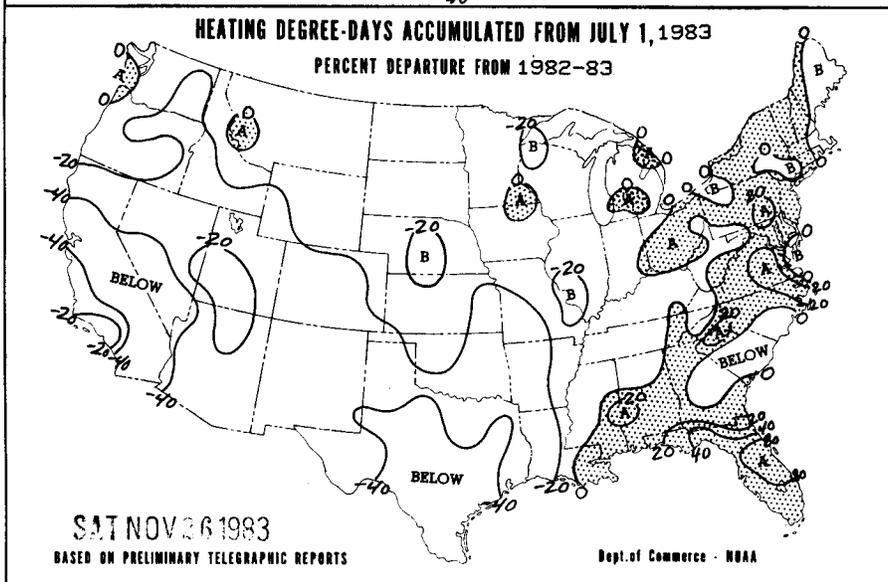
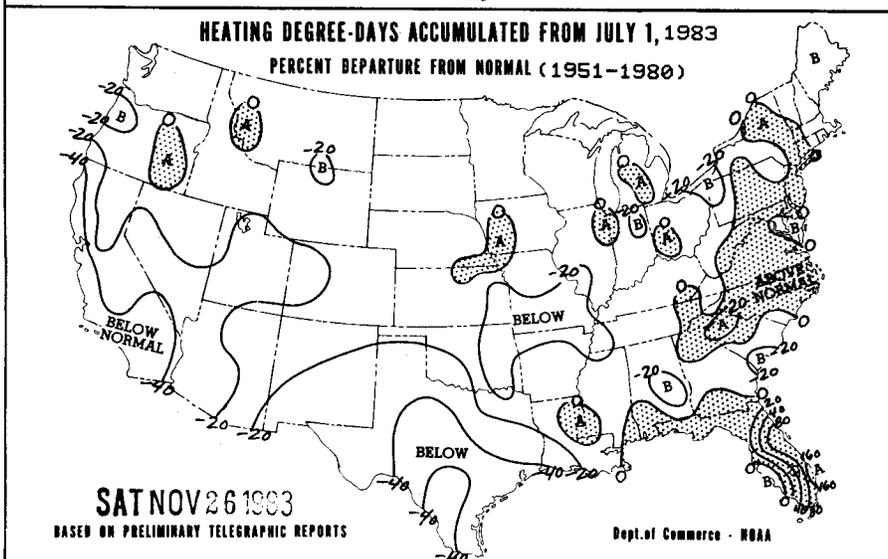
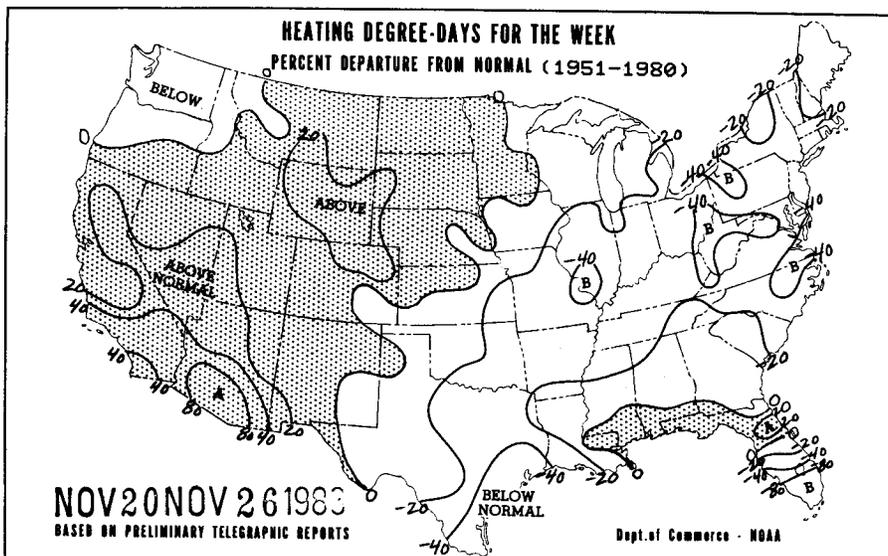
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE AUG 28	PCT. NORMAL SINCE AUG 28	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	
ME SHREVEPORT	69	42	81	30	55	2	1.9	1.0	.9	8.2	85	42.0	104	94	50	0	1	3	2	
ME CARIBOU	33	29	36	21	31	3	4.0	3.2	2.9	12.4	127	12.4	127	86	76	0	6	5	2	
ME PORTLAND	47	31	51	22	39	4	4.1	2.9	2.4	18.6	155	40.5	121	91	76	0	4	3	2	
MD BALTIMORE	61	40	69	33	50	7	2.1	1.3	.8	9.4	95	43.3	112	88	48	0	0	3	3	
MD SALISBURY	68	44	74	36	56	11	2.6	1.9	1.8	14.6	135	47.0	110	96	51	0	0	3	1	
MA BOSTON	56	40	63	36	48	6	3.6	2.5	2.7	13.5	123	47.1	121	82	43	0	0	3	1	
MA CHATHAM	54	41	60	36	47	5	.7	.4	.3	10.6	91	50.3	120	86	57	0	0	3	1	
MI ALPENA	44	31	54	22	37	5	.4	.1	.4	8.4	115	32.5	118	91	62	0	5	2	0	
MI DETROIT	52	35	63	29	44	7	.6	0	.3	9.4	138	33.2	114	83	57	0	4	2	0	
MI FLINT	50	35	60	31	43	7	.8	.3	.6	9.9	146	30.1	106	88	58	0	3	2	1	
MI GRAND RAPIDS	48	33	60	28	41	5	1.0	.3	.9	9.3	104	33.1	102	86	58	0	4	2	1	
MI HOUGHTON LAKE	41	33	53	27	37	5	.7	.2	.4	8.9	117	28.6	108	89	73	0	4	3	1	
MI LANSING	49	32	59	28	41	5	1.0	.4	.8	9.2	130	31.5	111	92	67	0	4	2	1	
MI MARQUETTE	37	25	51	17	31	4	1.0	.4	.5	16.1	159	41.9	120	92	66	0	6	3	1	
MI MUSKEGON	47	35	60	28	41	5	1.5	.9	1.2	12.8	149	29.4	99	81	60	0	3	2	1	
MI SAULT STE. MARIE	41	28	49	21	34	5	1.9	1.1	1.2	10.3	100	31.2	99	89	65	0	5	6	2	
MN ALFAXANDRIA	27	21	34	14	24	-1	.4	.2	.2	6.2	109	21.1	86	92	73	0	7	2	0	
MN DULUTH	31	23	40	10	27	3	2.3	2.0	1.6	11.7	158	28.3	98	85	67	0	7	4	1	
MN INT'L FALLS	24	17	34	9	21	0	1.2	.9	.5	9.3	141	24.0	99	94	77	0	7	5	1	
MN MINNEAPOLIS	33	23	50	12	28	-2	.9	.7	.9	10.3	181	36.2	142	91	67	0	6	3	1	
MN ROCHESTER	32	24	49	15	28	-1	.9	.6	.5	11.1	159	33.0	117	89	76	0	6	3	1	
MS GREENWOOD	65	43	76	33	54	3	2.6	1.4	1.3	10.1	97	54.4	114	83	48	0	0	3	2	
MS JACKSON	66	40	77	29	53	0	4.4	3.3	2.4	11.6	114	65.7	138	92	52	0	2	2	2	
MS MERIDIAN	65	39	73	30	52	0	3.4	2.4	1.6	12.9	134	62.9	133	98	51	0	2	3	2	
MO CAPE GIRARDEAU	60	41	67	33	50	-	2.1	1.2	1.6	12.5	128	40.4	98	92	52	0	0	3	1	
MO COLUMBIA	59	37	70	26	48	8	2.1	1.7	1.4	17.2	187	42.6	125	91	52	0	3	4	2	
MO KANSAS CITY	55	33	70	21	44	4	1.2	.8	.5	8.9	98	30.4	87	93	57	0	3	3	0	
MO SAINT LOUIS	62	40	72	31	51	10	1.9	1.2	1.5	12.5	164	39.1	123	91	49	0	1	3	1	
MO SPRINGFIELD	62	39	74	25	50	8	.8	.1	.4	15.7	150	42.5	114	83	47	0	2	3	0	
MT BILLINGS	31	18	40	10	25	-8	.5	.3	.2	4.5	132	12.0	84	95	70	0	2	3	0	
MT GLASGOW	28	17	33	9	23	-3	T	.1	T	1.3	72	7.2	64	82	61	0	7	4	0	
MT GREAT FALLS	32	17	38	12	24	-7	1.0	.9	.6	3.8	141	15.1	104	93	70	0	7	4	1	
MT HAVRE	26	11	31	-4	19	-7	.1	.1	.1	.7	39	11.8	105	98	78	0	7	1	0	
MT HELENA	35	22	38	16	29	0	.1	0	.1	2.1	105	13.2	125	89	53	0	7	2	0	
MT KALISPELL	34	25	36	15	30	1	.6	.2	.3	3.8	106	16.5	111	93	74	0	7	2	0	
MT MILES CITY	29	16	36	8	23	-6	T	.1	T	1.8	69	7.7	57	88	66	0	7	1	0	
MT MISSOULA	32	25	35	16	29	-1	.4	.1	.2	2.9	107	14.8	128	98	76	0	7	4	0	
NE GRAND ISLAND	41	25	55	21	33	-1	.6	.4	.4	6.0	128	26.6	115	85	55	0	7	2	0	
NE LINCOLN	44	25	55	16	35	0	.2	.1	.1	6.6	114	27.3	104	93	55	0	7	2	0	
NE NORFOLK	39	23	49	16	31	-2	.3	.2	.2	5.0	114	26.3	111	85	58	0	7	2	0	
NE NORTH PLATTE	40	18	54	11	29	-2	.1	0	.1	1.3	41	17.7	93	83	48	0	7	3	0	
NE OMAHA	41	26	52	16	33	-1	.2	0	.1	7.6	110	29.2	98	94	70	0	6	2	0	
NE SCOTTSBLUFF	33	9	49	-9	21	-12	.7	.6	.3	2.1	91	14.3	101	85	60	0	7	3	0	
NE VALENTINE	34	14	46	7	24	-7	.4	.3	.2	3.5	109	27.6	152	82	56	0	7	4	0	
NV ELY	32	11	38	-6	21	-10	.5	.4	.4	2.1	117	13.2	165	90	62	0	7	4	0	
NV LAS VEGAS	55	38	67	30	47	-4	.1	0	.1	.8	80	4.6	112	51	26	0	1	1	0	
NV RENO	39	26	49	17	33	-5	.9	.7	.5	4.3	358	11.7	198	90	62	0	7	4	0	
NV WINNEMUCCA	38	25	48	17	31	-4	.7	.5	.2	2.6	163	10.9	151	86	55	0	6	4	0	
NH CONCORD	48	30	54	25	39	5	2.5	1.6	1.5	11.9	170	42.0	175	90	52	0	4	3	2	
NJ ATLANTIC CITY	60	41	66	31	50	7	2.1	1.2	.8	13.7	140	43.1	109	97	61	0	1	4	3	
NM ALBUQUERQUE	46	27	56	20	36	-5	.1	0	.1	2.5	109	7.3	91	86	37	0	6	3	0	
NM CLOVIS	57	30	70	23	44	0	T	.1	T	4.0	93	10.8	62	64	25	0	5	0	0	
NM ROSWEL	63	33	73	28	48	2	T	.1	T	5.3	171	9.5	96	71	33	0	5	1	0	
NY ALBANY	51	34	61	29	43	6	2.4	1.6	1.1	8.7	94	40.5	125	93	58	0	2	4	3	
NY BINGHAMTON	52	36	63	28	44	9	1.5	.8	.6	8.0	86	36.3	107	90	54	0	2	5	1	
NY BUFFALO	53	36	63	31	45	7	.3	.6	.3	9.9	100	30.0	86	79	52	0	1	3	0	
NY NEW YORK	59	45	65	35	52	7	2.1	1.2	.9	14.8	145	53.8	138	83	50	0	0	5	2	
NY ROCHESTER	52	35	63	30	43	6	.2	.4	.2	9.8	123	29.8	101	88	56	0	4	4	0	
NY SYRACUSE	49	35	63	30	42	4	1.1	.3	.4	9.1	94	30.2	84	97	57	0	3	5	0	
NC ASHEVILLE	63	35	73	25	49	4	2.1	1.3	1.2	13.6	130	43.2	97	94	49	0	3	3	2	
NC CHARLOTTE	64	39	72	29	51	3	2.3	1.6	1.8	7.1	76	33.9	86	91	44	0	2	3	2	
NC GREENSBORO	63	38	73	30	51	4	2.5	1.9	1.7	12.1	127	41.9	106	88	44	0	1	3	2	
NC HATTERAS	68	47	78	43	58	4	1.4	.3	.6	19.3	125	58.1	113	90	51	0	0	3	1	
NC NEW BERN	71	41	78	35	56	4	2.6	1.8	1.7	10.9	87	49.7	99	99	48	0	0	3	2	
NC RALEIGH	68	42	75	31	55	7	1.8	1.1	.8	9.6	107	40.6	104	94	45	0	1	3	2	
NC WILMINGTON	72	43	77	35	57	4	2.1	1.4	1.2	10.9	88	53.7	105	97	49	0	0	3	2	
ND BISMARCK	28	18	36	6	23	-2	.1	0	.1	2.5	93	12.7	83	94	71	0	6	4	0	
ND FARGO	28	16	35	8	22	-2	.2	0	.1	5.8	135	18.6	94	80	65	0	7	2	0	
ND GRAND FORKS	26	16	34	10	21	-1	.2	0	.1	5.9	137	20.8	116	83	69	0	7	2	0	
ND WILLISTON	25	10	33	-3	17	-6	.1	0	.1	1.6	57	8.8	66	93	71	0	7	4	0	
OH AKRON-CANTON	57	40	63	29	49	10	.4	.3	.2	10.3	130	34.5	101	74	48	0	2	4	0	
OH CINCINNATI	57	36	65	24	47	6	1.4	.7	1.2	13.9	164	38.7	102	85	51	0	2	2	1	
OH CLEVELAND	56	37	63	28	47	8	.4	.4	.2	12.6	158	35.8	110	82	51	0	2	3	0	
OH COLUMBUS	57	38	62	26	47	8	.7	.1	.5	11.6	155	34.1	96	77	46	0	2	3	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending Nov. 26, 1983

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 AUG 26	PCT. NORMAL SINCE AUG 26	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	55	36	62	25	46	7	1.5	.9	1.3	10.2	144	34.4	104	82	49	0	2	2	1
TOLEDO	52	35	63	26	43	7	.8	.2	.6	9.9	139	30.5	103	92	63	0	3	2	1
YOUNGSTOWN	56	39	62	28	47	10	.3	.4	.2	11.9	138	34.0	96	74	47	0	2	3	0
OK OKLAHOMA CITY	61	37	74	29	49	3	1.2	.9	.5	15.7	201	38.2	126	86	43	0	2	3	2
TULSA	64	42	78	29	53	7	1.1	.6	.6	13.5	125	33.9	91	87	45	0	1	3	1
OR ASTORIA	51	40	60	35	46	0	3.9	1.4	1.9	21.5	119	69.5	126	99	77	0	0	6	2
BURNS	36	23	37	16	29	-3	.5	.3	.3	3.3	165	14.7	160	81	69	0	7	4	0
MEDFORD	44	35	49	33	39	-2	1.0	.3	.4	9.0	180	23.2	143	87	69	0	0	5	0
PENDLETON	48	36	60	30	42	3	.4	0	.2	3.0	103	12.3	122	89	57	0	1	5	0
PORTLAND	49	41	57	35	45	2	1.4	.1	.6	13.0	141	41.8	138	94	73	0	0	6	1
SALEM	52	41	59	38	47	3	1.9	.4	.9	13.3	132	48.4	148	88	72	0	0	5	1
PA ALLENTOWN	57	39	64	33	48	8	2.2	1.3	.9	10.4	94	43.3	107	89	54	0	0	4	3
ERIE	58	40	67	31	49	11	.5	.4	.4	14.1	127	40.7	112	78	45	0	1	4	0
HARRISBURG	56	39	64	35	47	6	1.5	.8	.6	9.7	104	39.7	112	85	50	0	0	5	2
PHILADLPHIA	60	40	66	33	50	7	1.7	.9	.7	13.6	140	46.8	124	92	53	0	0	4	2
PITTSBURGH	58	39	65	28	48	9	.1	.4	.1	10.0	128	36.1	105	77	43	0	2	2	0
SCRANTON	55	39	64	32	47	9	2.3	1.6	.9	8.7	95	36.6	111	87	59	0	1	5	3
RI PROVIDENCE	58	40	63	36	49	9	4.9	3.9	3.2	17.0	150	59.1	146	77	44	0	0	3	3
SC CHARLESTON	70	44	76	34	57	3	1.3	.8	.6	9.3	87	49.9	100	96	52	0	0	3	2
COLUMBIA	67	39	77	28	53	1	1.7	1.1	1.0	8.9	94	38.6	86	96	51	0	2	3	2
FLORENCE	70	42	77	31	56	3	1.7	1.1	.9	8.3	94	45.3	112	99	53	0	1	3	2
GREENVILLE	62	38	72	30	50	1	2.7	1.9	1.9	11.5	102	45.3	97	88	46	0	2	3	1
SD ABERDEEN	32	18	39	8	25	-1	.1	.1	.1	2.7	87	20.3	117	90	70	0	7	1	0
HURON	33	19	40	10	26	-2	.4	.2	.3	5.3	139	17.6	95	91	67	0	7	3	0
RAPID CITY	31	17	38	11	24	-8	.4	.3	.1	3.2	123	15.0	93	81	60	0	7	4	0
SIoux FALLS	32	21	41	9	27	-2	.3	.1	.3	6.4	112	25.5	104	98	77	0	7	2	0
TN CHATTANOOGA	63	34	71	28	49	2	3.9	2.8	2.4	10.7	95	41.1	86	95	46	0	3	3	2
KNOXVILLE	63	34	72	28	49	2	2.0	1.0	1.0	8.0	87	35.8	83	91	47	0	3	3	2
MEMPHIS	64	43	73	35	54	5	4.8	3.7	3.8	13.4	135	48.4	102	87	45	0	0	3	2
NASHVILLE	65	38	73	29	52	5	2.6	1.7	1.7	8.1	82	41.6	93	92	45	0	2	2	2
TX ABILENE	67	41	78	35	54	3	.4	.1	.3	6.0	83	18.7	80	78	36	0	0	3	0
AMARILLO	57	28	73	19	42	0	.1	0	.1	4.1	98	14.6	75	83	33	0	5	1	0
AUSTIN	73	45	86	37	59	3	1.2	.7	.7	8.2	87	33.6	108	87	40	0	0	3	1
BEAUMONT	72	52	80	42	62	3	0	.4	.5	13.5	95	70.2	142	95	55	0	0	3	1
BROWNSVILLE	82	59	87	47	71	4	.7	.3	0	12.1	113	27.8	110	87	46	0	0	0	0
CORPUS CHRISTI	78	54	83	42	66	3	T	.3	T	12.7	111	36.4	121	83	44	0	0	1	0
DEL RIO	72	44	85	36	58	1	T	.1	T	3.7	62	14.0	79	78	27	0	0	0	0
EL PASO	60	35	75	24	47	-1	.2	.1	.1	6.5	232	7.9	100	73	27	0	2	2	1
FORT WORTH	69	43	85	34	56	3	1.1	.7	.7	6.2	81	30.2	105	83	42	0	0	3	0
GALVESTON	71	59	77	50	65	4	.4	.5	.3	14.6	124	50.2	132	83	56	0	0	3	0
HOUSTON	74	50	81	42	62	4	.4	.5	.1	10.9	89	48.4	113	85	47	0	0	3	0
LUBBOCK	61	35	76	25	48	2	.3	.2	.2	11.9	243	20.1	110	83	34	0	3	2	0
MIDLAND	63	37	78	32	50	0	.5	.4	.5	6.9	168	9.9	72	75	32	0	1	2	0
SAN ANGELO	69	39	80	32	54	2	.4	.2	.4	5.2	83	15.2	83	87	32	0	2	2	0
SAN ANTONIO	75	44	86	33	59	2	.6	.1	.6	8.4	91	25.7	90	80	34	0	0	1	1
VICTORIA	76	53	81	45	64	4	.4	.2	.3	14.6	120	41.7	116	96	52	0	0	2	0
WACO	71	44	87	33	58	3	.7	.2	.4	4.1	49	22.7	75	89	46	0	0	3	0
WICHITA FALLS	67	37	80	30	52	3	.5	.2	.3	9.3	119	24.4	92	85	36	0	2	3	0
UT BLANDING	36	21	39	16	28	-7	.9	.7	.5	5.6	165	15.0	147	94	66	0	7	5	1
CEDAR CITY	38	24	48	13	31	-5	.9	.7	.6	2.9	116	13.8	142	85	53	0	6	3	3
SALT LAKE CITY	41	30	50	25	36	-1	.8	.6	.5	5.0	156	20.1	147	82	59	0	5	4	0
VT BURLINGTON	45	35	50	24	40	7	2.2	1.6	.8	14.6	164	44.6	141	82	52	0	4	4	3
VA NORFOLK	69	45	78	37	57	7	1.9	1.3	.8	14.7	135	43.5	102	84	60	0	0	3	3
RICHMOND	65	40	71	33	52	6	2.9	2.2	1.6	12.7	122	39.0	96	90	46	0	0	3	3
ROANOKE	60	39	72	33	49	5	1.3	.8	1.2	13.1	138	42.1	114	81	46	0	0	3	1
WA COLVILLE	38	34	40	32	36	5	.9	.4	.4	7.6	195	26.0	172	97	90	0	1	5	0
QUILLAYUTE	48	37	54	30	43	0	5.7	2.3	2.3	42.0	148	112.2	130	100	80	0	1	6	3
SEATTLE-TACOMA	48	39	59	35	44	1	2.1	.7	.8	12.9	124	36.1	115	88	67	0	0	5	2
SPOKANE	38	31	42	28	34	2	.9	.4	.5	7.0	194	20.3	140	99	80	0	6	5	0
YAKIMA	46	33	52	26	39	4	.8	.5	.5	3.6	200	11.0	177	85	61	0	2	3	1
WV BECKLEY	55	35	64	24	45	5	.6	.2	.4	8.3	93	32.5	83	88	48	0	4	3	0
CHARLESTON	65	38	73	32	52	9	.4	.3	.2	12.5	142	39.2	99	78	35	0	2	3	0
HUNTINGTON	63	40	71	30	52	9	.3	.4	.2	8.8	106	33.4	88	73	37	0	1	3	0
PARKERSBURG	62	42	70	30	52	10	1.3	.6	1.2	16.2	213	42.0	109	88	45	0	1	3	1
WI GREEN BAY	41	27	55	21	34	4	.6	.2	.5	7.7	107	28.2	105	87	61	0	6	2	0
LA CROSSE	37	25	56	15	31	0	1.2	.9	.8	10.1	138	27.8	92	95	64	0	5	3	1
MADISON	46	28	61	20	37	6	.6	.2	.4	7.8	107	28.2	94	87	59	0	6	2	0
MILWAUKEE	45	30	58	22	37	3	1.3	.9	1.0	8.2	115	33.4	116	93	62	0	5	3	1
WAUSAU	39	24	55	18	32	4	1.3	.9	.6	12.7	153	29.5	93	89	60	0	6	3	2
WY CASPER	30	12	44	-1	21	-9	1.2	1.0	.6	3.8	158	17.4	158	92	67	0	7	5	1
CHEYENNE	33	11	48	-4	22	-11	1.1	1.0	.9	2.8	133	19.5	151	95	64	0	7	4	1
LANDER	29	10	35	-2	19	-8	1.7	1.5	.8	4.3	143	14.9	117	88	58	0	7	4	2
SHERIDAN	32	14	43	3	23	-6	.5	.3	.2	2.9	85	8.8	59	84	55	0	7	4	0
PR SAN JUAN	88	75	91	73	81	2	.4	.9	.3	9.0	51	38.1	74	83	57	1	0	2	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS



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

LAST DATE OF DATA COLLECTION PERIOD IS 11-26-1983
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: 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. The table lists weather data for numerous cities across the United States, including Birmingham, Atlanta, Chicago, Dallas, and many others.

National Agricultural Summary

November 21 to 27

HIGHLIGHTS: Fieldwork was limited by rain and snow across the eastern half of the Nation. Snow covered winter wheat from the central Plains to the Lake States, adding to the soil moisture supply and protecting new seedings from freezing temperatures. Heavy rain halted harvesting in the Corn Belt, Delta States, and Southeast. Soil moisture supplies were generally adequate to surplus across the eastern half of the Nation and adequate in the West. Fieldwork was generally limited to less than 4 days east of the Rocky Mountains and under 5 days in the West. Wet conditions delayed the completion of corn harvesting in nearly all regions. Soybean combining crept forward to 92% completion, trailing last year and the average by 2 percentage points. Wet weather delayed progress in all producing areas. Cotton was 78% picked, 5 points ahead of the average. Picking made good progress in the West but was slow elsewhere. Sorghum harvesting was 97% finished, 1 point ahead of normal. Winter wheat seeding was 97% complete; plants had emerged on 91% of the acreage. Stands were in fair to mostly good condition. Pastures were rated mostly fair to good across the South, but colder temperatures limited grass growth. Heavy snow and rain caused increased supplemental feeding in most regions.

SMALL GRAINS: Winter wheat seeding in the 15 major producing States was 97% complete, equal to last year but 1 point behind normal. Planting was virtually complete, except in California where the crop is normally planted later. Wheat had emerged on 91% of the acreage, only slightly behind the average. The only States with significant acreages yet to emerge were California, Missouri, and Texas. Montana's winter wheat was in good condition and covered by snow except in the eastern third of the State. Soil moisture remained short in western Kansas. Winter wheat was in fair condition in western Kansas, and stands were rated excellent elsewhere in the State. Oklahoma producers began spraying for weeds in winter wheat fields; most fields were in good condition. In Texas, winter wheat seeding resumed after rain early in the week slowed planting. The additional moisture aided emergence and growth. Rain and wet fields delayed completion of seeding across the Corn Belt. Stands continued in mostly good condition.

SOYBEANS: Combining was 92% finished in the 18 major producing States, compared with 94% for both last year and the average. Harvesting lagged normal in 11 of the 18 States. Tennessee was the only State ahead of average. Farmers in Georgia harvested 12% of their acreage during the week, while those in South Carolina harvested 11%. Harvesting of double-cropped soybeans slowed across the South because of wet fields. Combining in the North was halted by rain and heavy snow.

COTTON: In the 14 major producing States, 78% of the acreage had been harvested, compared with 72% in 1982, and the average of 73%. Progress was behind normal in California, Georgia, New Mexico, and Oklahoma. During the week, Oklahoma producers picked 15% of their acreage, Texas farmer harvested 12%, and New Mexico producers picked 10%. Freezing temperatures in these States defoliated the cotton. Rain slowed picking in Arizona and

California; growers shredded stalks and disced harvested acreage. Rain showers slowed harvesting early in the week on the Texas Plains. Harvesting losses were higher than normal and cotton quality ranged from good to poor. Heavy showers limited picking in the Delta States and Southeast.

OTHER CROPS: Sorghum harvesting reached 97% completion, equal to last year and 1 point ahead of normal. Progress was equal to or ahead of average in all seven major producing States. Oklahoma farmers harvested 20% of their acreage during the week, while Kansas producers combined 5%.

Peanut threshing was virtually complete in the Southeast. Texas producers had harvested 89% of their acreage, 1 point behind the average.

Tobacco growers continued stripping and marketing their crop. Tennessee burley growers had stripped 65% of their crop. The burley market opened in Kentucky and growers continued stripping and grading. Seedbed fumigation continued in many areas.

FRUITS AND NUTS: In Florida, citrus trees continued in excellent condition with adequate moisture. Groves showed very little new growth but the fruit had good natural coloring. Harvesting continued active for the holiday market. Picking gained momentum in the Rio Grande Valley of Texas. The quality of the crop was good. Lemon and grapefruit packing was near peak volume in Yuma county, Arizona. Tangerine picking was in full swing. Navel orange and grapefruit harvesting increased in the Salt River Valley. Heavy rain in California interrupted pruning and application of dormant sprays.

Pecan harvesting was 47% finished in Georgia, 50% complete in Mississippi, and 45% finished in Louisiana. In Texas, strong northerly winds caused increased droppage. Harvesting was 51% complete with some reduced quality due to earlier dry conditions.

VEGETABLES: Light to moderate rain fell in most of Florida's vegetable growing areas. Shipments declined 26%, reflecting the holiday lull. Volumes held steady or were down for all vegetables except cabbage and Chinese cabbage. Strawberries began blooming in the Plant City-Ruskin area. Showers in Texas reduced the need for irrigation but slowed harvesting. Harvesting of peppers, cucumbers, broccoli, and cabbage continued active. Lettuce harvesting was in full swing in many areas of Arizona. A variety of vegetables were harvested in the Salt River Valley and cauliflower cutting was active in the Yuma area. Wet weather slowed harvesting in California. Moderate supplies of broccoli and cauliflower were cut along the central coast. Carrot harvesting was delayed by wet fields near Salinas but continued in the Kern District. Lettuce harvesting was active in the Palo Verde Valley. Bell pepper harvesting neared completion.

PASTURES AND LIVESTOCK: Pastures showed mostly fair to good condition in the South but colder temperatures limited grass growth. Heavy snow and rain from the Rocky Mountains eastward caused increased supplemental feeding of livestock. Feed supplies were generally adequate and livestock were in fair to mostly good condition.

CROP PROGRESS

FOR WEEK ENDING NOV 27, 1983

WINTER WHEAT % PLANTED			
	1983	1982	AVG.
CALIF	55	50	50
COLO	100	100	100
IDAHO	100	100	100
ILL	100	100	99
IND	100	100	100
KANS	98	100	99
MO	95	95	96
MONT	100	100	100
NEBR	100	100	100
OHIO	100	100	100
OKLA	98	95	98
OREG	98	99	99
S DAK	100	100	100
TEX	95	96	96
WASH	100	100	100
15 STATES	97	97	98

THESE 15 STATES PRODUCED 80%
OF THE 1982 WINTER WHEAT CROP.

WINTER WHEAT % EMERGED			
	1983	1982	AVG.
CALIF	45	45	40
COLO 1/	88	99	99
IDAHO	100	100	100
ILL	98	100	98
IND	100	100	100
KANS	90	98	98
MO	84	83	84
MONT	100	100	100
NEBR	100	100	100
OHIO	100	100	100
OKLA	90	65	85
OREG	96	92	93
S DAK	100	100	100
TEX	84	79	84
WASH	100	99	98
15 STATES	91	89	92

THESE 15 STATES PRODUCED 80%
OF THE 1982 WINTER WHEAT CROP.

1/ OFFICE CLOSED DUE TO WEATHER,
ESTIMATE PROJECTED.

SORGHUM % HARVESTED			
	1983	1982	AVG.
COLO 1/	100	94	90
KANS	95	97	95
MO	95	92	92
NEBR	99	95	98
OKLA	90	85	90
S DAK	100	90	100
TEX	99	100	98
7 STATES	97	97	96

THESE 7 STATES PRODUCED 90%
OF THE 1982 SORGHUM CROP.

1/ OFFICE CLOSED DUE TO WEATHER,
ESTIMATE PROJECTED.

SOYBEANS % HARVESTED			
	1983	1982	AVG.
ALA	87	89	87
ARK	87	95	92
GA	70	79	80
ILL	100	100	100
IND	100	100	100
IOWA	99	100	100
KANS	90	99	95
KY	95	96	96
LA	96	90	96
MICH	100	100	100
MINN 1/	97	97	99
MISS	89	86	92
MO	92	95	95
NEBR	99	100	100
N C	52	60	67
OHIO	100	100	100
S C	45	65	65
TENN	91	97	87
18 STATES	92	94	94

THESE 18 STATES PRODUCED 94%
OF THE 1982 SOYBEAN CROP.

1/ OFFICE CLOSED DUE TO WEATHER,
ESTIMATE PROJECTED.

COTTON % HARVESTED			
	1983	1982	AVG.
ALA	96	95	90
ARIZ	90	65	80
ARK	99	95	94
CALIF	85	90	92
GA	80	89	92
LA	98	93	96
MISS	97	94	95
MO	100	100	98
N MEX	51	75	68
N C	99	78	87
OKLA	35	25	45
S C	99	97	96
TENN	98	100	88
TEX	66	56	55
14 STATES	78	72	73

THESE 14 STATES PRODUCED 99%
OF THE 1982 COTTON CROP.

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures 3 to 5° above normal. Rainfall 3.00 to 5.00 in.

Fieldwork 3.1 days. Soil moisture adequate. Soybeans harvested 87%, 1982 89%, average 87%. Cotton harvested 96%, 1982 95%, average 90%. Wheat seeded 83%, 1982 81%. Conditions: Pastures and livestock fair, wheat fair to good.

ARIZONA: Two very cold major winter storms passed through State, spread precipitation over most sections. Snow reached to 4,000 foot level with total fall of 5.00 to 10.00 in. over central Basin, 10 to 25 in. over Grand Canyon, Mogollon Rim, White Mountains. Moisture amounts mostly less than 0.10 in. along Colorado River Valley, 0.50 to 1.00 in. over south central, southeastern. Over central Basin, White Mountains northwestward amounts mostly 0.75 and 1.50 in. except locally over 2.00 in. Minimum temperatures dipped to 2 to 12° higher elevations, upper teens, 20's at 5,000 foot level, 30's and lower 40's in southwestern deserts. Average temperatures varied from 3 to 12° below seasonal normals.

Lettuce harvest full swing in Yuma, Parker areas, in Marana, Salt River Valley. Lettuce packing was completed, mixed greens harvested in Aguila. Lettuce, mixed greens harvested in Harquahala Valley. Mixed vegetables moving in volume Salt River Valley. Showers slowed harvest on 21st in central, southern areas. Harvest of honeydews starting in Poston-Parker areas. Cauliflower cutting active in Yuma. Vegetables at various stages of growth were developing normally. Growers were checking for insects, control measures used as needed.

Lemon, grapefruit packing near peak volume in Yuma, some dates picked. Navel orange, grapefruit picking increased volume in Salt River Valley, tangerine harvest in full swing. Cotton harvest advanced to 90% of acreage picked, compared to 65% a year ago, and average of 80%. Showers delayed harvest first of week most areas except Yuma County. Rain brought harvest to near standstill Pima County where most acreage picked once except some areas flooded first of October. Stalk shredding, tillage operations active on cotton acreage final picked. Seedbed preparation wheat, barley active, some acreage seeded. Plants emerging, some stands established in Yuma, Santa Cruz Counties. Land preparation delayed in areas flooded earlier where irrigation canals not repaired. Sorghum harvest peak Cochise County, winding down Graham County. Corn harvest near completion Cochise County.

ARKANSAS: Moderate to heavy rainfall. Temperatures averaged 2 to 5° above normal. Highest temperature 80°, lowest temperature 20°. Rainfall heavy in some areas. Most recorded 3.91 in. Least 1.59 in.

Days suitable for fieldwork 3.2. Soil moisture surplus eastern half of State. Adequate eastern half. Crop growth moderate to slow. Soybeans harvested 87%, 95% 1982, 92% average. Cotton harvested 99%, 95% 1982, 94% average. Wheat good condition; planted 91%, 92% 1982, 92% average. Oats good condition; planted 97%, 96% 1982, 95% average. Pastures average northeast and southeast, below average to average elsewhere. Cattle fair to good condition.

CALIFORNIA: A series of relatively fast moving storms dropped precipitation over virtually the entire State. Several inches were reported from the Sierra and North Coast. Inch-plus weekly totals were common elsewhere except for the Desert area. The last storm in the series, on 24th, produced a few feet of snow over the northern half of the Sierra. After a few weeks of generally a little warmer than normal weekly mean temperatures, this week was a few to as much as 10° below normal. At least one station in all divisions reported freezing temperatures.

Rain virtually stopped fieldwork northern half. Southern half more open but rain interrupted work. Cotton harvest 85% done, 90% year ago, 92% average. Stalk shredding, discing active. Weather slowed small grain seeding. Winter-sown wheat 55% planted, 50% year ago, average. Now 45% emerged, year ago same, average 40%. Small acreage unharvested dry beans damaged by rain. Corn, sorghum harvests near completion. Sugarbeet harvest delayed by rain. Cutting few alfalfa fields for hay, greenchop. Pruning and application of dormant sprays interrupted by heavy rains. Light frost in Sacramento Valley, localized hail in southern San Joaquin. Broccoli harvest moderate Central Coast. Light harvest San Joaquin Valley, Southern California. Cantaloup harvest lighter Imperial Valley. Carrot harvest delayed by wet fields Salinas, continues Kern District, started Desert. Cauliflower harvest moderate Central Coast, heavy diversion to freezers. Celery harvest increased Central Coast, increasing South Coast. Lettuce harvest active Palo Verde Valley, tipburn problems expected to decrease. Bell pepper harvest near completion. Market tomato harvest continued South Coast. Range conditions continue improve, very good growth grass other forage plants. Lambing complete some areas San Joaquin Valley. Livestock good condition.

COLORADO: There was widespread precipitation on 21st with 0.50 in. new moisture near the front range and 0.10 to 0.30 in. at most other locations. A major storm moved across the State on 25th through 27th. Lower elevations through the State received up to 1.00 in. of moisture and 1 to 2 feet of snow fell in the mountains. Average temperatures for the period were 2° to 4° below normal in the north and 4° to 7° below normal in the southern half of the State.

FLORIDA: Dry and mild, 21st, 22nd followed by a cold front 23rd, 24th which produced the only rain for the week. Rainfall amounts averaged 1.00 to 2.00 in.; Panhandle with 0.50 in. north-east, central to 0.25 in. or less south. Dry, cooler, 25th with scattered frost Panhandle, extreme north morning of 26th; warming into the 27th. Temperatures averaged 2° above normal.

Soil moisture mostly adequate, a few dry spots in north. Peanut harvest complete. Soybean, cotton harvest nearing completion. Sugarcane harvest active, increasing. Soybean yields variable. Sugarcane, cotton yields good. Wheat continues to be planted following soybeans. Seeding small grains for grazing about complete. Early week rains, most of State; more rain later in week stimulated forage growth. Pastures continue mostly good, lower Peninsula, generally

fair to good elsewhere. Supplemental feeding underway several areas. Condition cattle, calves mostly fair Panhandle; Peninsula varies widely from poor, few northern areas to generally good elsewhere. Citrus trees excellent condition. Moisture adequate. Few growers continue using in place low volume irrigation. Very little new growth. Good natural fruit coloring. Limited splitting of oranges in low, wet areas. Picking active until Thanksgiving. Several cold fronts moved through vegetable areas during week. Light to moderate rainfall most growing areas. Nighttime lows mostly 50's and 60's. Daytime highs mostly 70's and 80's. Winds light to moderate. Shipments down 26%, reflecting holiday lull. Crops declining in volume were carrots, celery, sweet corn, cucumbers, eggplant, escarole, okra, parsley, radishes and tomatoes. Steady volume snap beans, cauliflower, lettuce, peppers, squash. Cabbage and Chinese cabbage shipments increased. Most crops expected to return to normal this week. Strawberries blooming Plant City-Ruskin area. Light supplies expected in two weeks.

GEORGIA: Much warmer and wetter than normal. Temperatures about 3° above normal south and 8° warmer than normal north. Total rainfall averaged 3.00 to 4.00 in. Statewide. Over weekend, fair on 26th but clouds increased 27th with thundershowers in north and west.

Soil moisture: 9% short, 73% adequate, 17% surplus. Average days suitable for fieldwork 3.5. Major activities: Harvesting soybeans, pecans and cotton and planting small grains. Conditions: Cotton 27% poor, 54% fair, 17% good; soybeans 11% poor, 61% fair, 26% good; pecans 9% poor, 59% fair, 30% good; wheat 41% fair, 58% good; rye 42% fair, 55% good; other small grains 38% fair, 56% good, 5% excellent; pasture 15% poor, 47% fair, 37% good. Crop progress: Corn 99% harvested, 100% last year, 98% average; cotton 99% bolls open, 100% last year and average; 80% harvested, 89% last year, 92% average; soybeans 100% dropping leaves this year, last year and average; 70% harvested, 79% last year, 80% average; wheat 59% planted, 67% last year, 71% average; rye 88% planted, 90% last year, 83% average; other small grains 85% seeded, 84% last year, 80% average; pecans 47% harvested, 69% last year, 64% average.

HAWAII: Weather conditions were generally favorable for agriculture. Rainfall was light and mainly occurred at night. Days were sunny with a few overcast days caused by high cloudiness.

Most crops made good progress under regular irrigation and spray programs. Head and Chinese cabbage production remain heavy. Lettuce production expected to increase as cooler weather now prevails. Papaya production has passed its peak period but supplies remain heavy.

IDAHO: Temperatures in the central and southern portions of the State ranged from near normal to 6° below normal at Malad. Locations in the Panhandle were from 1 to 3° above normal. Total precipitation amounts were above normal at most stations with the exception of the central prairie which was 0.25 in. below normal. At the other end of the scale, Twin Falls and Sandpoint reported 0.58 in. more than normal and Mtn. Home reported a surplus of 0.69 in.

Corn harvesting continued when weather permitted but most field activities were coming to a close. With snow in many areas, livestock producers have geared up their winter feeding

programs. Some dipping of cattle had occurred. Wet weather made some corral and feedlot conditions less than desirable. Beef cattle marketing reported in some areas.

ILLINOIS: Temperatures 4 to 12° above normal. Precipitation 1.49 to 6.44 in.

Corn and soybean harvest virtually complete. Wheat seeded 100%, 1982 100%, average 99%; emerged 98%, 1982 100%, average 98%; condition fair to good. Livestock condition good.

INDIANA: Temperatures averaged 6 to 9° above normal ranging from 60's to lower 70's to lows of middle 20's. Precipitation quite variable averaging 1.00 to 1.50 in. with extremes over 3.00 in. Soil temperatures averaged middle 40's.

Wet fields halt fieldwork after 22nd. Tilling and completing harvest when conditions permitted. Otherwise, preparing tobacco for market, putting away equipment, getting ready for winter, mending fences, and caring for livestock.

IOWA: A wet, stormy week. Two major storms brought thunderstorms, freezing rain, and up to 13 in. of snow in northwest. The entire State had above-normal precipitation with the heaviest amount in the southeast. The temperatures averaged 3° below normal in the northwest to 4° above normal in the east central portion of the State.

Soybeans harvested 99%; 100% last year; 100% normal.

KANSAS: Precipitation averaged 1.10 in. southeast, 0.50 to 0.70 in. northeast and east central, 0.20 to 0.30 in. central and less than 0.10 in. northwest. Temperatures averaged 31° northwest to 46° southeast, 2 to 4° below normal west and north central and 1 to 5° above normal elsewhere. A major winter storm was underway west and north central 26th afternoon.

Sorghum 95% harvested, 97% last year, 95% average. Soybeans 90% harvested, 99% last year, 95% average. Wheat 98% planted, 100% last year, 99% average; 90% emerged, 98% last year, 98% average; 10% pastured, 10% last year, 10% average. Wheat condition fair west, excellent elsewhere. Pastures and range good. Supplies of feed grains adequate. Hay and forage supplies short to adequate. Cold weather has slowed grass growth in pastures. Soil moisture remains short west, adequate elsewhere. Days suitable for fieldwork: 3.5.

KENTUCKY: Temperatures averaged a few degrees above seasonal normals. Fairly widespread rainfall occurred twice. Amounts averaged from 2.00 in. west to 1.00 in. in east.

Soybeans 95% harvested, last year and average 96%. Soil moisture adequate most areas. Wheat has made considerable growth with generally good stands. Pastures generally green and supplying portion of roughage needs.

LOUISIANA: Rainfall ranged 0.40 to 5.64 in. Temperatures ranged normal to 4° above.

Soil moisture supplies were replenished and rated adequate to surplus. Cotton harvest 98%, 93% 1982, 96% average. Soybean harvest 96%, 90% 1982, 96% average. Sweetpotato harvest 97%, 98% 1982. Sugarcane harvested 69%, 62% 1982, 66% average. Wheat seeded 90%, 73% 1982, 87% average. Wheat emerged 75%, 58% 1982.

Condition fair to good. Pecans harvested 45%, 62% 1982, 61% average. Vegetables rated fair to good. Strawberry planting nearly complete. Harvest of turnip and mustard greens. Pastures rated fair. Livestock rated fair to good.

MARYLAND AND DELAWARE: Maryland: Temperatures 7 to 10° above normal. High temperatures in the mid 60's in extreme west to high 60's and low 70's elsewhere. Minimum temperatures in the mid 20's east of the mountains to the mid 30's in the remainder of the State. Precipitation was above normal, with totals ranging from 0.86 in. at Oakland to 3.88 in. on the Shore. The 26th and 27th, were mostly sunny with highs in the low to mid 60's and lows in the low to mid 30's.

A few scattered soybean fields remain to be harvested on the shore. All other late fall seeding and harvest complete.

Delaware: Temperatures 8 to 9° above normal and precipitation was much above normal. Maximum temperatures were in the mid 60's north to 70's central and south. Minimum temperatures in the low 30's north to mid 30's elsewhere. Precipitation averaged 2.72 in. for the State. Lighter totals north.

Rains delayed the final harvest of the few remaining soybean fields but fall work about complete.

MICHIGAN: Well above normal temperatures were reported throughout the State. Temperature deviations ranged from 7 to 8° above normal in southern areas to 3° above normal in northern areas. Moderate amounts of precipitation fell over the State with the heaviest amounts in northern areas.

Rain delayed final completion of corn harvest. Soybeans 100% harvested, 100% last year, 100% average. Most farmers busy preparing for winter.

MINNESOTA: Temperatures averaged near normal across north and in southeast, around 2 to 3° below normal elsewhere. High: 43°, low: 0°. Precipitation averaged near normal west central and northwest, 0.50 in. above normal north central and east central thru southwest and 1.00 in. above normal northeast and southeast. Greatest reported weekly total: 1.96 in.

Snowfall during the week generally 6 to 14 in.; locally more than 20 in., from southwest and south central thru north central and northeast, mainly in heavy snow during midweek and developing storm at week's end. Amounts tapered off to one in. northwest and extreme southeast. Snow depth at week's end: one in. or less northwest and extreme southeast, ranging up to 12 to 18 in. central, east central, and northeast.

MISSISSIPPI: Heavy thunderstorms 22nd, 23rd, 26th and 27th. Greatest one-day total rainfall 4.7 in. Average temperatures 2° above normal, extremes 24 and 80°.

Soil moisture adequate to surplus. Fieldwork 2.2 days suitable, 1.3 1982, 2.3 average. Cotton 97% harvested, 94% 1982, 95% average. Soybeans 39% harvested, 86% 1982, 92% average. Pecans 50% harvested, 76% 1982, 67% average. Sweet-potatoes 93% harvested. Wheat good to fair; 87% planted, 80% 1982, 87% average. Pastures and livestock fair to good.

MISSOURI: Temperatures averaged 9° above normal. Precipitation was widespread, varying from 0.75 in. in the northwest to nearly 6.00 in. in the Bootheel.

Days suitable for fieldwork: 1.4. Corn 97% harvested, 92% last year and 93% normal. Grain sorghum 95% harvested, 92% last year and 92% normal. Soybeans 92% harvested, 95% last year and 95% normal. Winter wheat 95% seeded, 95% last year and 96% normal. Plowing for spring crops 56% completed, 59% last year and 56% normal. Pasture condition 2% excellent, 30% good, 62% fair and 6% poor. Topsoil moisture supplies 63% surplus, 36% adequate and 1% short.

MONTANA: A general cooling covered all of the State dropping temperatures below normal for first time in weeks. Temperatures averaged 2 to 7° below normal. Northeast and southeast were coldest. Precipitation was moderate or above overall except northeast where dry conditions prevailed. Amounts were mostly 0.25 to 0.50 in., but a few areas received over 1.00 in. Precipitation at end of week came as snow and 2 to 20 in. snowcover was common over State except northeast and eastern sections of north central where the ground was bare.

Winter wheat good condition. Most fields snow covered except eastern third of State. Storms and cold increased hay feeding in most of State.

NEBRASKA: Temperatures and precipitation data not available due to severe storm over weekend. Heavy, wet snow covered State.

Corn harvested 99%, 85% year ago and 92% average. Soybeans 99%, 100% and 100%. Sorghum 99%, 95%, 98%. Winter wheat mostly good. Snow covering much of wheat crop. Topsoil moisture mostly adequate. Subsoil moisture adequate to short. Days suitable for fieldwork: 2.0.

NEVADA: Precipitation fell most of week with heaviest from an early winter storm about midweek. Cloudy skies rule most of week with exception of extreme south. Heaviest precipitation fell in northwest. Temperatures below normal State-wide with averages ranging 4 to 6° below normal. Extremes: 5 and 67°.

Grading and marketing potatoes steady. Lettuce harvest good progress extreme south. Feeding requirements livestock maximum due inclement weather.

NEW ENGLAND: Temperatures averaged 3 to 6° above normal over southern New England, 1 to 4° above normal elsewhere. Warmest days were 22nd and 23rd, with a high of 63° in southern New England. Lowest reading was 12° at Diamond Lake, New Hampshire overnight 25th.

Precipitation fell mostly on 21st, 24th, and 25th, with most areas receiving 1.50 to 3.00 in. Precipitation fell as snow in northern Vermont, New Hampshire and Maine, with accumulations of up to 11.00 in. in extreme northern Maine.

NEW JERSEY: Temperatures well above normal, averaging 44° north, 48° south and 50° coastal. Extremes 28 and 69°. Precipitation well above normal, averaging 1.53 in. north, 1.43 in. south and 1.72 in. coastal. The heaviest 24-hour total reported 1.83 in. on 24th to 25th. The heaviest 24-hour snowfall 2.5 in. on 25th to 26th.

Fieldwork: 5.5 days suitable. Field corn and soybean harvest in clean-up stage. Fruit tree pruning active. Cider and fall crop marketing active for Thanksgiving Holiday.

NEW MEXICO: Temperatures below normal. All parts of State have had freeze. Snow in mountains, modest rains elsewhere.

Picking cotton as weather permits. Harvesting pecans, chile, grain sorghum in southern region. Peanut digging continues. Fall seeded grains rated fair. Marketing of calves, culling cows.

NEW YORK: Wet week, especially in eastern areas. Rainfall average 0.75 in. on 21st in east. Storm on 24th and 25th brought rain then snow to east, over 1.00 in. total precipitation in most locations. Snow up to 10 in. Colder, drier afterward on weekend.

NORTH CAROLINA: Temperatures 5 to 7° above normal in most areas. Precipitation heaviest over the western Piedmont, foothills and along the coast.

Soil moisture 6% short, 81% adequate, 13% surplus. Days suitable for fieldwork: 4.3. Condition: Wheat: 11% fair, 86% good, 3% excellent. Oats: 13% fair, 85% good, 2% excellent. Barley: 8% fair, 90% good, 2% excellent. Rye: 13% fair, 83% good, 4% excellent. Harvests: Sorghum harvest: 94%, 1982 95%, average 93%. Sweetpotatoes: 100%, 1982 100%, average 100%. Peanuts dug: 100%, 1982 100%, average 100%. Peanuts threshed: 100%, 1982 100%, average 100%. Soybeans: 52%, 1982 60%, average 67%. Cotton: 99%, 1982 78%, average 87%. Farm feed supplies: Hay and roughage: 40% short, 59% adequate, 1% surplus. Feed grains: 32% short, 61% adequate, 7% surplus. Major farm activities: Soybean harvest, seeding small grains, peanut digging and threshing, cutting Christmas trees and fire wood, grading and marketing burley tobacco, gassing tobacco plant beds, and general farm maintenance.

NORTH DAKOTA: Cloudy skies, light snow and below normal temperatures highlighted the week. Temperatures averaged 1 to 3° below normal. Temperature extremes ranged from 45° 20th to zero on 24th. Precipitation averaged less than 0.10 in. across western two-thirds of State to 0.25 to 0.50 in. in extreme eastern sections. Most of precipitation fell as snow. Snow cover by week's end ranged from 2 to 4 in. over the northeast to 1 in. or less over the remainder of the State.

All of State edging into winter. Most of heavy snowfall has been to the north of the State line. All areas still accessible.

OHIO: Temperatures 5 to 9° above normal. Extremes from 20's on 25th to lower 70's on 28th. Widespread precipitation. Totals from 0.75 to 2.00 in., eastern from 0.33 to 0.50 in. Four inch bare soil temperatures average mid 40's. Winter wheat planted 100%, 100% 1982, 100% average; emerged 100%, 100% 1982, 100% average. Soybeans harvested 100%, 100% 1982, 100% average.

OKLAHOMA: Temperatures averaged from 1 to 7° above normal. Precipitation totaled from 0.20 in. Panhandle to 2.30 in. east central and northeast.

Cold weather moved across State during weekend halting wheat pasture growth but facilitating most harvesting activities by defoliating row crops. Weed problem in wheat fields with control measures initiated. Pastures and ranges slipped to fair condition. Livestock still in good to fair condition. Wheat

planted: 98%, 95% 1982, 98% average. Wheat emerged: 90%, 65% 1982, 85% average. Sorghum harvested: 90%, 85% 1982, 90% average. Cotton harvested: 35%, 25% 1982, 45% average.

OREGON: Another 4.00 to 5.00 in. of precipitation fell along coast during week. The Willamette Valley received 2.00 in. to 4.00 in. of precipitation with up to 1.00 in. of precipitation recorded at central and southeastern sections of State. Northeastern areas recorded less than 0.20 in. of precipitation. Temperatures were 1 to 3° above normal except in the south central area where temperatures were 2 to 4° below normal.

Winter wheat 98% seeded is typical for this late date. About 96% of the acreage has emerged, slightly ahead of last year and average. Fall seeded crops in very good condition. Very little fieldwork was accomplished during the week. In the east, some chemical applications on summer fallow ground may yet be made. Late vegetable harvest as weather permits in the west. Soil moisture supplies surplus in west, adequate in east. Range and pasture condition good. Livestock condition very good.

PENNSYLVANIA: Generally warm and wet. Temperatures were in the 50's and 60's early in the week and again during the weekend. Heavy rains in eastern and central parts of the State on 21st and 22nd. Some snow extreme eastern portions morning of 25th. Temperature extremes 67 and 24°.

PUERTO RICO: Island average rainfall 0.30 in. or 1.03 in. below normal. Highest weekly total 0.95 in. Highest 24-hour total 0.62 in. Temperature averaged about 80 to 78° on coasts and 74 to 71° Interior Divisions. Mean station temperature ranged from 81.6 to 66.1. Extremes 91 and 57°.

SOUTH CAROLINA: Temperatures fluctuated, mostly mild days but rather cool nights. Three general rains with frontal passages.

Soil moisture mostly adequate, 4.4 days for fieldwork. Cotton 99% harvested, 97% year ago, 96% average. Soybeans nearly mature due to recent frost; 45% harvested around rains; yields variable 65% year ago and average; condition poor to fair. Pastures, winter grazing, small grains benefitting from soaking rains. Pasture conditions fair. Livestock condition fair to good. Selectively bred calving and others; all looking good. Wheat only 57% planted behind 69% last year, 76% average; emergence at 45%, 53%, 63% respectively; small grains in fair to good condition.

SOUTH DAKOTA: No report available, office closed due to weather.

TENNESSEE: Temperatures were near normal, averaging in the mid 40 to 50°'s. Precipitation amounts of 2.00 and 3.00 in. were frequent across the State midweek.

Corn harvested 95%, 1982 94%, average 92%. Cotton harvested 98%, 1982 100%, average 88%. Soybeans harvested 91%, 1982 97%, average 87%. Burley tobacco stripped 65%, 1982 83%, average 76%. Wheat sown 92%, 1982 91%, average 87%. Pastures in good condition.

TEXAS: Cold front West Texas first part week. Rainfall less than 0.25 in. northwest but few thunderstorms severe levels. Heavy amounts East Texas. Late 26th second front pushed showers, thunderstorms across northern two-thirds of State. Average temperatures above normal south, east, below normal west. Temperatures were near normal elsewhere. Precipitation 1.00 to 2.00 in. above normal Upper Coast, East Texas, near normal South Texas, Lower Valley.

Crops: Moisture received as cold front moved across State. Harvest cotton, sorghum slowed, but continued end of week. Small grain planting neared completion after front passed. Cotton harvest slowed due to rain showers Plains, harvest continued latter part week. Harvested cotton range good to poor quality, harvesting losses higher than normal. Condition 44% of normal compared 62% year ago. Cotton 63% fair; 33% poor and 4% failure. Sorghum harvest virtually complete. Yields good, some light freeze damage High Plains. Small grain planting halted by rain early week, neared completion end of week. Additional moisture aided emergence, growth. Peanut harvest nearing completion, good yields reported. Soybean harvest nearing completion, average yields. Quality affected early season dryness.

Cotton open bolls 100%, 99% 1982, 98% average; harvested 66%, 56% 1982, 55% average. Sorghum harvested for grain 99%, 100% 1982, 98% average. Wheat planted all purposes 95%, 96% 1982, 96% average; emerged 84%, 79% 1982, 84% average. Peanuts harvested 89%, 86% 1982, 90% average. Soybeans harvested 87%, 86% 1982, 87% average. Sugarbeets harvested 87%, 88% 1982, 83% average. Pecans harvested 51%, 54% 1982, 49% average. Sunflowers harvested 98%, 96% 1982, 94% average. Oats planted for all purposes 96%, 89% 1982, 93% average.

Commercial vegetables: Rio Grande Valley, harvest peppers, cucumbers, broccoli and cabbage continues. Citrus harvest gained momentum, good quality picked. East Texas, early week rainfall slowed sweetpotato harvest; good crop expected. San Antonio-Winter Garden, fall vegetables excellent growth due to rainfall. Irrigation needs reduced. Trans-Pecos region, chili pepper harvest continues. Cabbage harvest nearing completion. Pecan harvest continues fast pace. Strong northerly winds caused droppage. Statewide, harvest yielding good crop, quality down slightly due to dry conditions.

Range and livestock: Early week cold front brought rainfall dryland small grain pastures, grasses. East Texas pastures excellent grazing, hay. Small grains grazing across State. Livestock good condition, supplemental feeding.

UTAH: Recurring precipitation moderate to heavy entire State. Maximum temperatures averaged 10° below normal; minimum were average.

Daily care of livestock and routine chores as permitted by the weather. Onion, potato, and apple sorting and marketing continues as orders come in. Some livestock stress on western ranges, stockmen move to care for unprotected animals.

VIRGINIA: Considerable rainfall Statewide. Rainfall in western division averaged 1.50 in. nearly 2.50 in. elsewhere. Rain changed to snow over western, northern and central divisions, measuring up to 4.00 in. in the higher mountains and from a trace to about 1.00 in. central and northern divisions. Temperatures averaged well above normal with most readings in

60's and 70's Statewide. Lows mostly in the mid 30's but ranging into 40's. In west during last portion of period, temperatures fell to mid to upper 20's.

Warm, wet weather conditions slowed fieldwork with 3.6 days suitable. Topsoil moisture was 77% adequate, 23% surplus. Corn harvest was 98% complete, 94% last year and average. Soybean harvest was 63% complete, 81% last year, 80% average. Tobacco stripping, grading, marketing continues active. Wheat seeding 86% done, 90% last year, 87% average. Small grains reported in good condition. Livestock doing well. Early calving and lambing progressing with no reported problems.

WASHINGTON: This, the fourth successive week of wet, warm weather, started with intense low pressure system crossing State on 19th and 20th. On 21st weak high pressure and relatively dry conditions, but front approached 22nd and spread rain over State through 23rd. Low pressure center formed on this front to west of Oregon coast and continued to intensify as it moved into State on 24th. This low developed into one of severest storms to effect State rivaling infamous Columbus Day storm of 1962.

Grain corn harvesting still in progress. Winter wheat crop remains in average to above average condition throughout State. Soil moisture conditions remain good in dryland areas. Cheatgrass infestations have been problem in early-seeded wheat fields Walla Walla County. Snow cover at present scattered. Some spraying for weed control in alfalfa hay fields currently in progress. Raspberry canning and blueberry pruning tree pruning begun Chelan and Okanogan Counties. Fall fertilization of orchards in progress Yakima County. Carrot harvest complete in Skagit County. Cauliflower and broccoli harvest nearing completion. Livestock remain in good condition for time of year. Most cattle receiving supplemental feed in east. Grant County, some livestock being grazed on crop residues. Winter hay supplies adequate. Winter wheat planted 100%, 100% 1982, 100% average; emerged 100%, 99% 1982, 98% average.

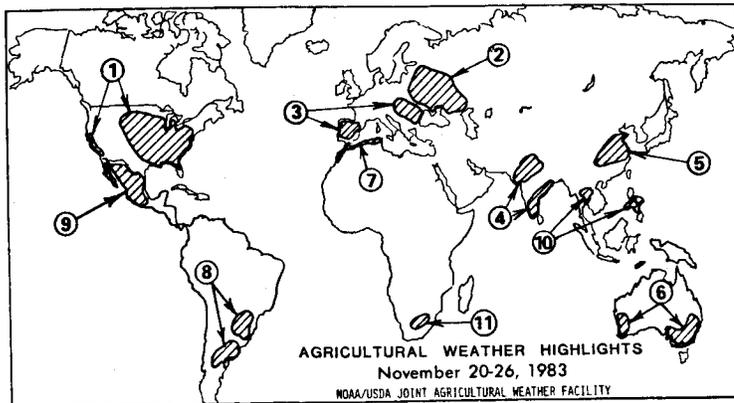
WEST VIRGINIA: Temperatures averaged 10° above normal except in the north central area where they averaged 3° below normal. High 74°, low 20°. Precipitation above normal in the south, central and north central areas; below normal in northwest, southwest and northeast.

Soil moisture adequate. Days worked averaged 3.5. Main activities: Livestock care, corn harvesting. Corn: 94% harvested. Pasture in fair to poor condition.

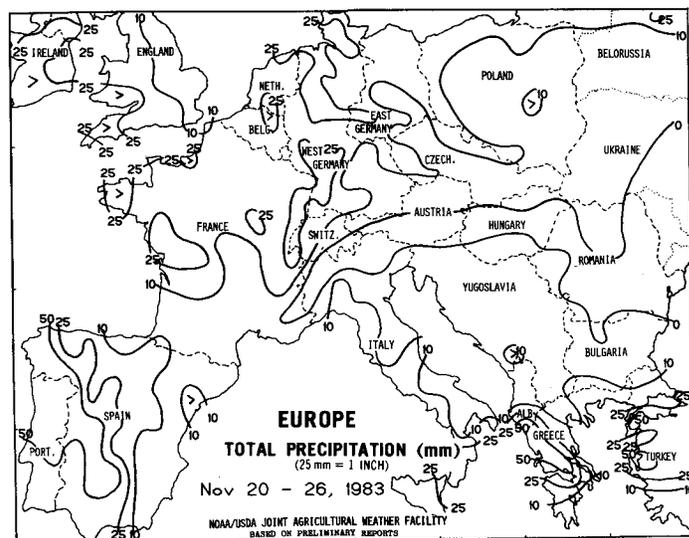
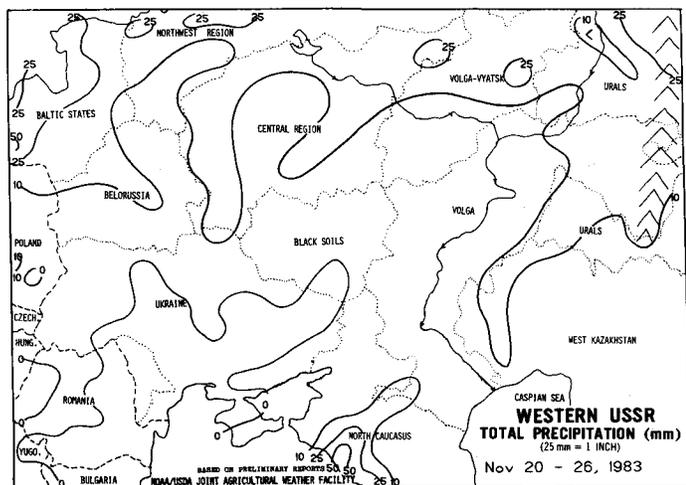
WISCONSIN: The State experienced a variety of weather as a series of early winter storms continued to affect the region. The first storm moved into the area late on 22nd and continued on 23rd. Conditions ranged from rainy and mild in the southeast to the heavy snow in the extreme northwest. Amounts of 6 to 12 in. were common near the Minnesota border. Rain amounts up to 1.50 in. were reported. The second storm moved in on 27th spreading rain, freezing rain, sleet and snow across the State. Snow became heavy in the northwest. Rest of week saw daytime highs mostly in the 30's and 40's except on 24th when it was cold and blustery and in the 20's. High was 61° at Madison on 23rd. Low 4° at Baldwin late 25th.

International Weather and Crop Summary

November 20 to 26

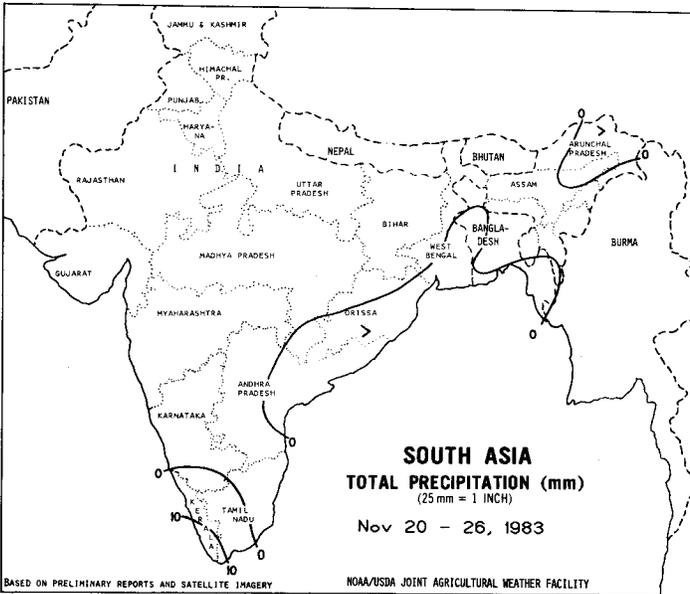


1. UNITED STATES ... Precipitation continues to delay harvesting and fieldwork over the eastern half of the Nation and in California. Snow over the central and northern Plains and into the Great Lakes region gives protection to winter wheat.
2. WESTERN USSR ... Unseasonably cold weather continues over most winter grain areas.
3. EUROPE ... Widespread rains followed by beneficial dryness occur over the winter grain areas of the Iberian Peninsula. Although a gradual warming is occurring over the remainder of Europe, weekly temperatures are still averaging 4° to 7°C below normal in the southeast.
4. SOUTH ASIA ... Mostly dry weather favors harvesting activities. Winter wheat in the vegetative stage generally has good moisture supplies.
5. EASTERN ASIA ... Mostly dry weather allows summer crop harvesting to near completion. Mild temperatures benefit winter wheat growth.
6. AUSTRALIA ... Wet weather in the east delays early wheat harvest and summer crop planting. Mild, drier weather in the south and west promotes crop maturity.
7. NORTHWESTERN AFRICA ... Early week showers, followed by dry weather, allows winter grain planting to resume in most areas.
8. SOUTH AMERICA ... Locally heavy rain causes some fieldwork delays in Argentina and Brazil but adequate moisture is available for early summer crop growth. Wheat harvesting is just underway in Argentina while soybean planting is over one-half complete in Brazil.
9. MEXICO ... Excellent harvest conditions prevail over most major agricultural areas.
10. SOUTHEAST ASIA ... Dry weather benefits maturing rice in Thailand. Tropical storms possibly damage maturing rice in the Philippines.
11. SOUTH AFRICA ... Nearly all major corn areas benefit from some rain. Much more rain is needed in the western areas.

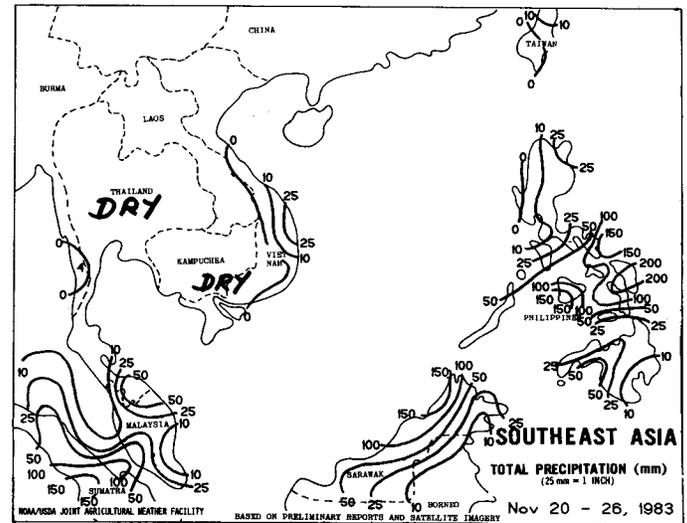


WESTERN USSR... Although unseasonably cold weather continued to cover winter grains over much of the region, a warming trend occurred during the week. Precipitation in the Baltic States and Belarusia began as snow early in the week, turning to rain by week's end. Most of the moisture which fell on the Central Region, Black Soils, Volga Valley, Volga Vyatsk, and Urals fell as snow, increasing snow cover. Generally cold, dry weather covered major winter wheat areas in the Ukraine and North Caucasus, but a gradual warming by week's end brought maximum temperatures to above freezing and minimum temperatures to around -5°C at most locations. Winter grains remained dormant throughout most of the region.

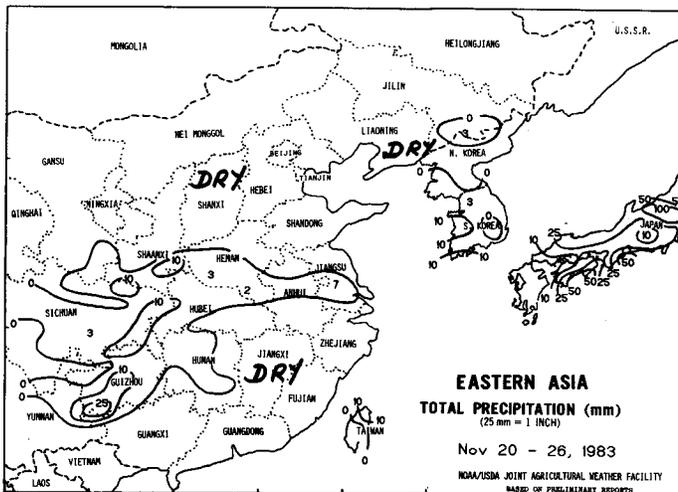
EUROPE... Widespread showers early in the week continued to increase soil moisture in the Iberian Peninsula. In addition, locally heavy rains in western crop areas increased the potential for flooding. Dry weather returned by week's end, allowing fieldwork for winter grain planting to resume in some areas. Early week rains also covered winter grain areas in England and France. Light snow over northern Europe early in the week was followed by widespread rain and warmer weather by week's end. Mostly dry weather covered winter grains in southeastern Europe, and although the weather was warmer this week than last, weekly temperatures still averaged 4° to 7°C below normal over most locations. Winter grains were semi-dormant in northwestern Europe and dormant in the east.



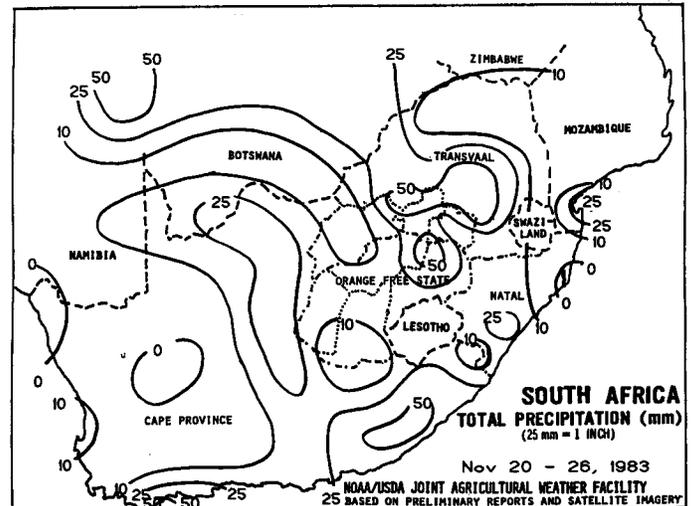
SOUTH ASIA...Most of India remained seasonably dry this week. The dry weather was beneficial for cotton, groundnut, and winter rice harvesting. Some light showers fell to the extreme south in Kerala. A weak tropical system moved westward from the Bay of Bengal late in the week and brought light rain to the coastal areas of West Bengal, Orissa, and northern Andhra Pradesh. The wheat region has not received any precipitation since mid-October, however soil moisture supplies should be good in all but the northernmost areas. Additional rain would benefit wheat in Punjab where seasonal rains were below normal.



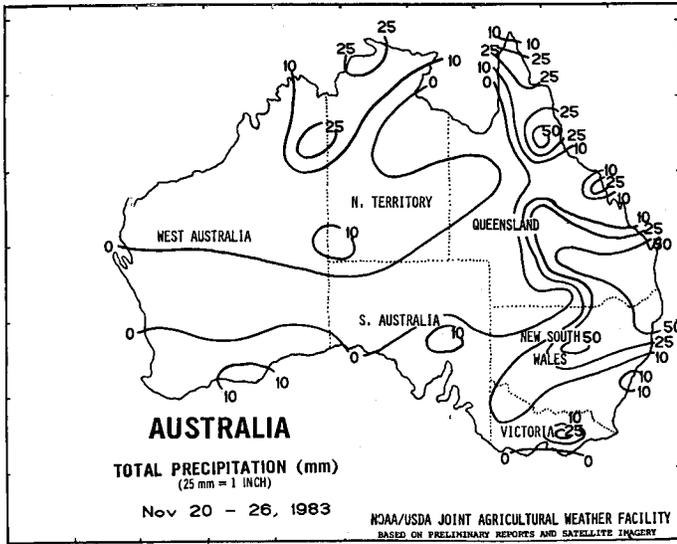
SOUTHEAST ASIA...Most of Indochina remained dry this week. Thailand has benefited from nearly two weeks without precipitation. Earlier in the season above-normal rains provided abundant moisture for the rice crops which are now maturing and being harvested. Temperatures were below normal but not cool enough to slow the maturation process. Tropical storms dominated the weather in the Philippines. Heavy rains fell on the central islands, possibly causing some damage to maturing rice crops. Northern Luzon was largely unaffected by the storms and remained mostly dry.



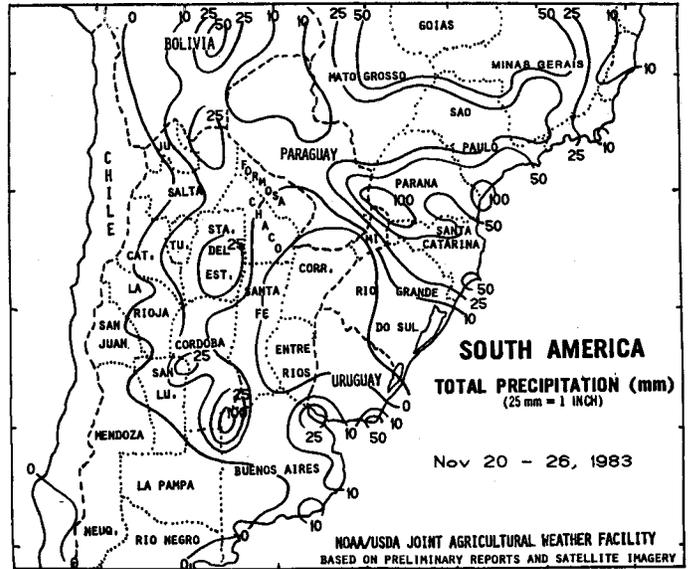
EASTERN ASIA...Mostly dry weather occurred in China this week. Some light showers early in the week extended from Guizhou to Jiangsu but caused only minimal harvesting delays. Clear weather the remainder of the week provided excellent conditions for harvest activities which are nearly complete. Dry weather covered most of the winter wheat region where soil moisture conditions are generally good. Additional rain would benefit the northern area. Temperatures have been mostly above normal in the wheat area benefiting establishment and early growth. Only the northernmost winter wheat is entering dormancy, because temperatures south of Hebei have remained above the critical level.



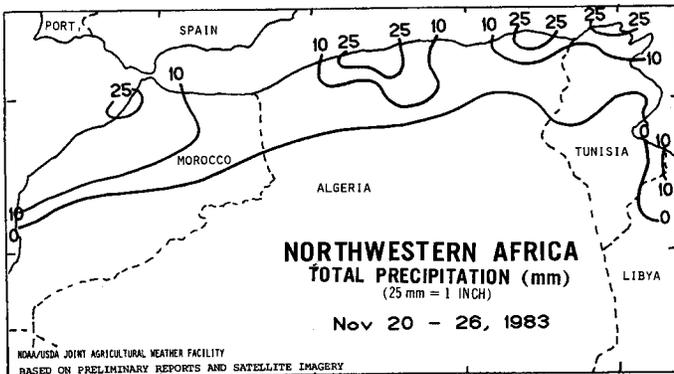
SOUTH AFRICA...Some rain fell in nearly all of South Africa this week, and was heaviest in the Transvaal. Precipitation of greater than 25 mm covered a large portion of the northeast, extending into the Maize Triangle. Soils in this region have been kept moist throughout most of the planting and early growth periods. Conditions are presently good for continued growth, but more precipitation will be needed during the growing season. Lesser amounts of rain, but of greater significance, fell in the western corn region. Precipitation had been well-below normal in this area, hampering planting progress. The planting season in the west can extend through December but recurring showers will be needed for proper growing conditions. Some very dry air covered the western corn region, but mild temperatures and showers at the end of the week helped to ease the stressful conditions.



AUSTRALIA...Wet weather covered much of Australia's eastern wheat areas. Locally heavy rain (in excess of 30 mm) caused some delays in wheat harvesting and summer crop planting. The wheat harvest is about 50 percent complete in Queensland and about 20 percent complete in northern New South Wales, while harvesting is yet to begin in southern crop areas. Planting of sorghum, sunflower, and cotton is well underway in the east, but the recent wetness has slowed progress in the major summer crop areas of Queensland and New South Wales. Showers also hampered late sugarcane harvesting along Queensland's east coast. Elsewhere, mostly light showers and mild weather aided late wheat growth in the south and west, as an increasing percentage of the crop begins to mature. Early harvesting has begun in the west, due, in part, to accelerated growth caused by dryness during the latter part of the growing season.



SOUTH AMERICA...Rainfall was highly variable throughout Argentina's crop areas, with a few heavy thunderstorms occurring in extreme northwestern Buenos Aires and at scattered locations in Cordoba. Wheat harvesting is just beginning in these areas and some rain delays likely occurred. Corn and first-crop soybeans are mostly planted, while sorghum and sunflowers are over one-half sown in Argentina. Rains during the planting season have provided adequate moisture for emergence and early growth; thus, drier, mild weather would be favorable for the wheat harvest. Harvesting will begin in the south during the next few weeks. In Brazil, widespread showers fell over all but the southernmost soybean areas keeping soils moist for early crop growth but causing some planting delays. Locally heavy rain dotted soybean areas of Parana, the second-largest producing state. While recent rains have slowed planting somewhat, overall progress is still ahead of last year's pace.



NORTHWESTERN AFRICA...Showers early in the week increased the soil moisture for winter grain planting in Morocco. Dry weather immediately followed the wet episode, allowing winter grain sowing to progress with few delays. Showers also covered winter grain areas in northern Algeria and northern Tunisia and dry weather by week's end allowed access to fields. Showers over much of the region during the past few weeks have provided good planting moisture. However, timely rains will be required throughout the remainder of the growing season as crop moisture requirements increase, reaching their peak during the reproductive period.



MEXICO...Excellent harvest weather continued over most major agricultural areas. It was sunny, warm, and dry in the northeastern citrus and sugarcane districts, the southern Plateau corn belt, and along most of the west coast. Winter storms brought moderate rains to northern parts of Baja, California. The seasonal dry pattern, favoring harvesting, began over much of Central America, with rains becoming widely scattered and very light.

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