

WEEKLY WEATHER AND CROP BULLETIN

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

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Statistical Reporting Service
and World Agricultural Outlook Board

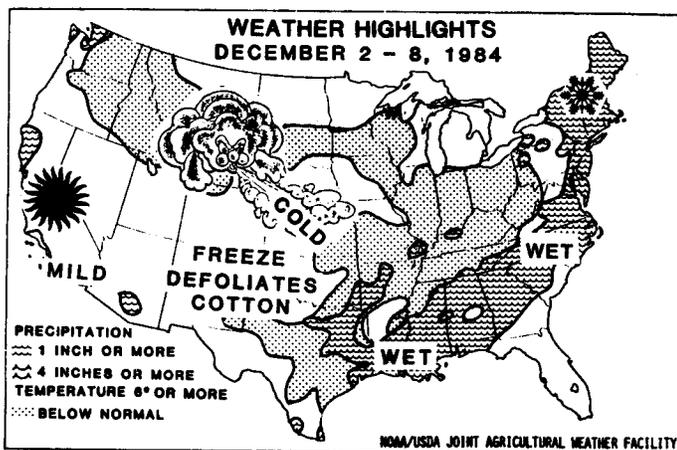
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Dec. 11, 1984

National Weather Summary

December 2 to 8



HIGHLIGHTS: The coldest outbreak of the season began in the northern Plains and spread over most of the Nation. Subzero readings covered the northern Plains and upper Mississippi Valley. Single digits reached the Ohio Valley and upper Tennessee Valley. Temperatures in the teens spread into the South and Southeast, while freezing weather reached well into northern Florida. Snow fell from the Texas Panhandle through the Ohio Valley and northward and from the central Appalachians to New England. Sleet or freezing rain reached from Arkansas to the southern Appalachians, and rain or rainshowers covered the South and Southeast. Rain fell all along the west coast and in the Southwest, with snow in and east of the Cascades.

SUNDAY...Snow covered the area from Minnesota to western New York, while rain spread over the Midwest. Showers and thunderstorms rumbled through the Southeast. Moderate to heavy showers fell from southern Louisiana to the mid-Atlantic States. Showers covered the West Coast from Los Angeles to western Oregon. Very cold air pushed southward through the northern Plains, but a warming trend began in the East.

MONDAY...Light snow continued from the northern Plains through the Great Lakes, and heavy amounts fell in upper New York and northern New England. Rain fell from the central Appalachians to lower New York and eastward to the Atlantic. Rain and a few thunderstorms fell in eastern Texas and Louisiana. Showers pushed into the Southwest and reached to New Mexico. The coldest outbreak of the season pushed southward through the Plains and eastward into the Ohio Valley.

TUESDAY...Bitter-cold arctic air spread over the northern Plains, and the cold air mass spread to

the southern Plains and to the Appalachians. Showers, with snow at higher levels, fell in Arizona. Snow was widespread from New Mexico to Kansas, Oklahoma, and Missouri. Cold rain fell to the South of the snow from most of Texas to the Carolinas.

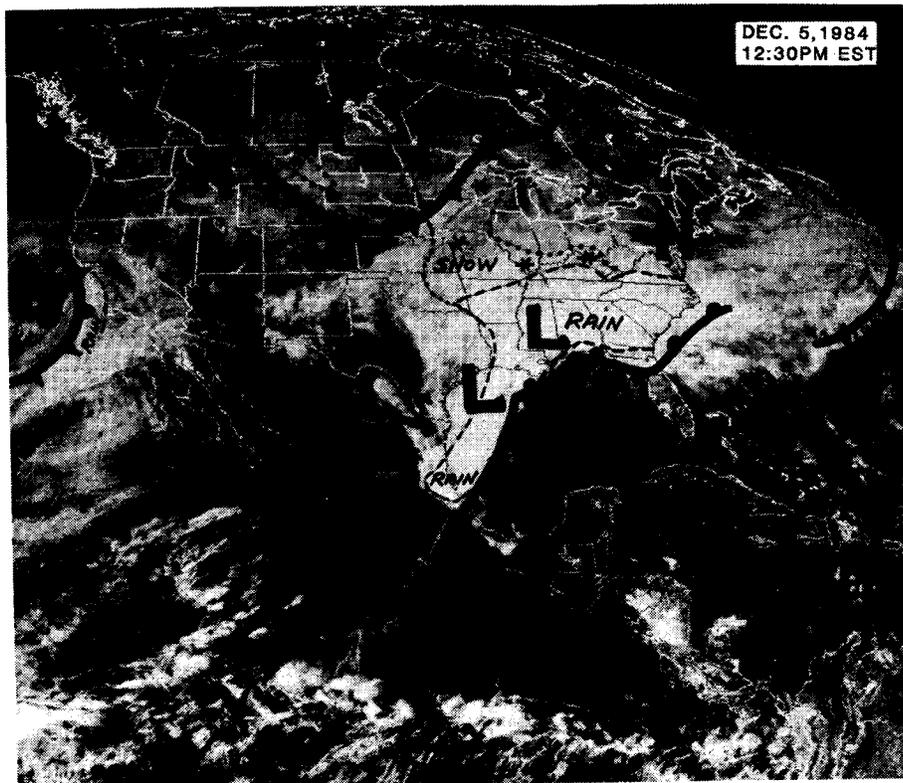
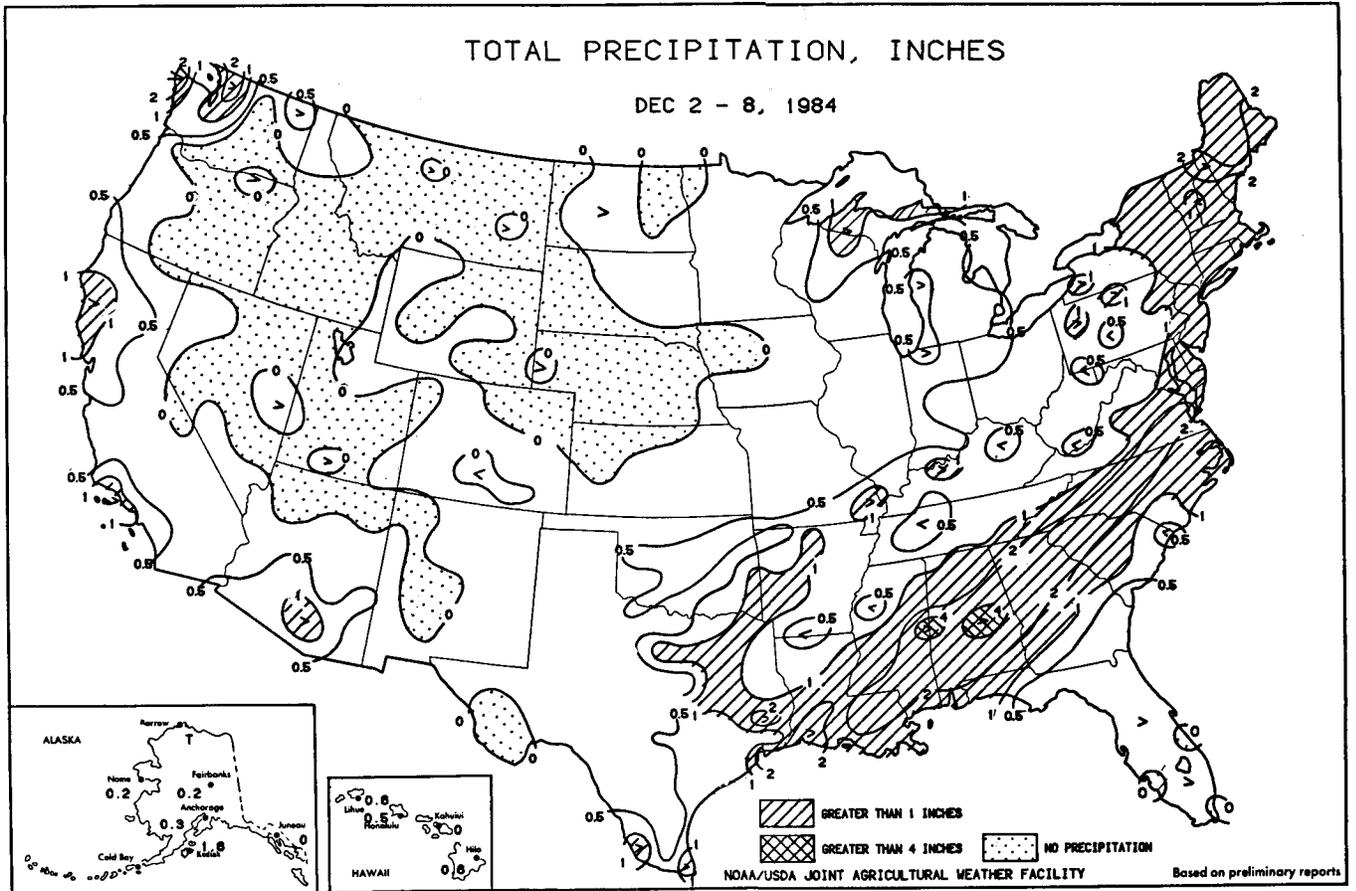
WEDNESDAY...Precipitation was widespread from the eastern part of the Plains to the Atlantic. Snow covered the ground north of an area from Kansas and Oklahoma through the Ohio Valley to Pennsylvania. Sleet or freezing rain fell from southern Oklahoma through northern Mississippi to the lower Appalachians and northward to western Maryland. Cold rain covered the South and Southeast.

THURSDAY...Snow fell over the eastern Great Lakes, the Ohio Valley, the northern and central Appalachians, and most of New England. Snow, sleet, freezing rain, or rain scattered over portions of the mid-Atlantic States and southern New England. Rain prevailed along the middle and southern Atlantic coast. Subzero temperatures enveloped the northern Plains and northern Mississippi Valley.

FRIDAY...The season's coldest outbreak brought temperature readings in the single digits to the Ohio Valley and the upper Tennessee Valley. Temperatures in the teens reached parts of the South and Southeast, and freezing weather reached into northern Florida. A few snow showers continued from the central Appalachians into New England. Rainshowers prevailed in the Southwest.

SATURDAY...The cold outbreak covered nearly all of the Nation except the west coast and the Southwest. A warming trend began in the southern Plains. Rain fell along the Northwest coast with freezing rain east of the Cascades. Rainshowers covered the Southwest. Snow began in the central Rockies and spread into the central Plains.

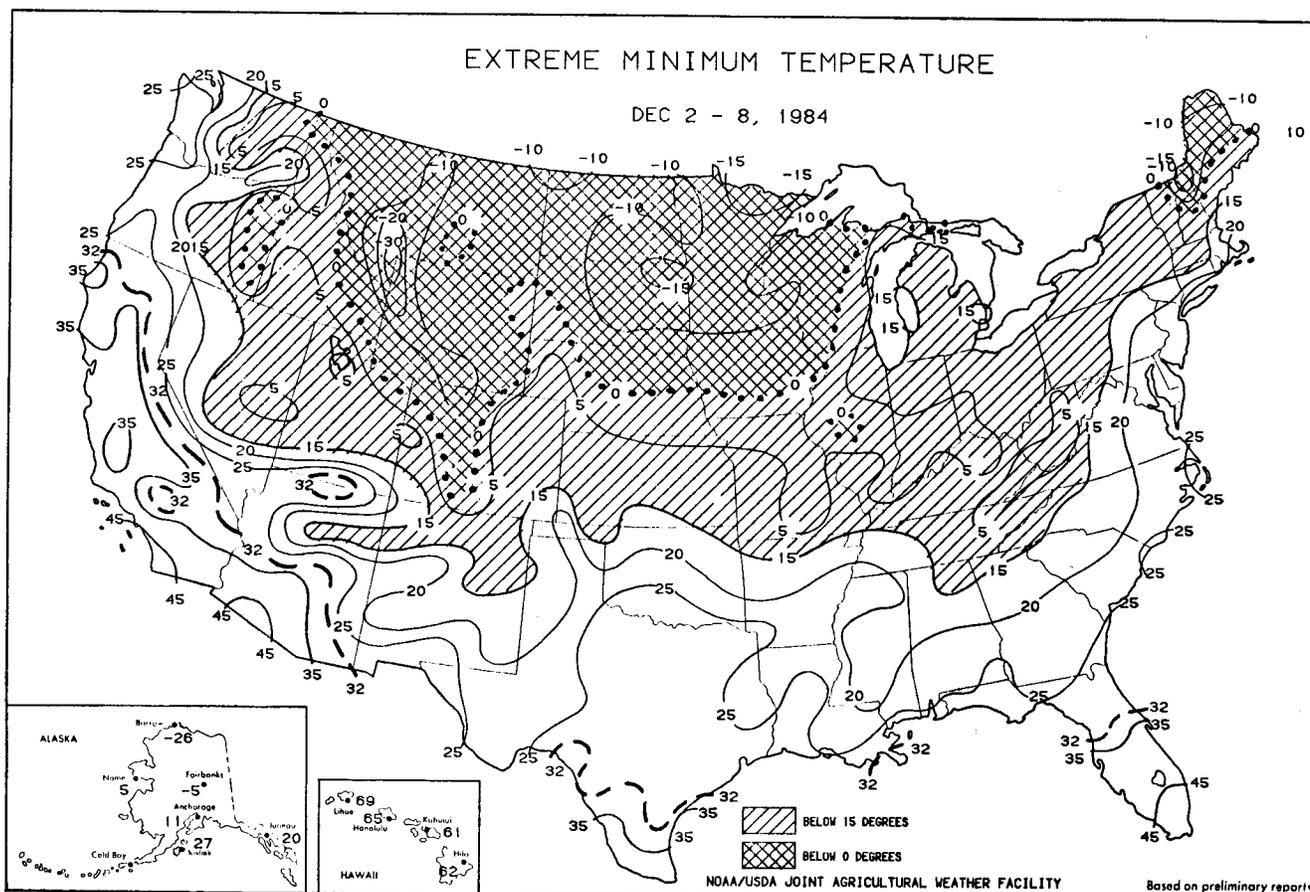
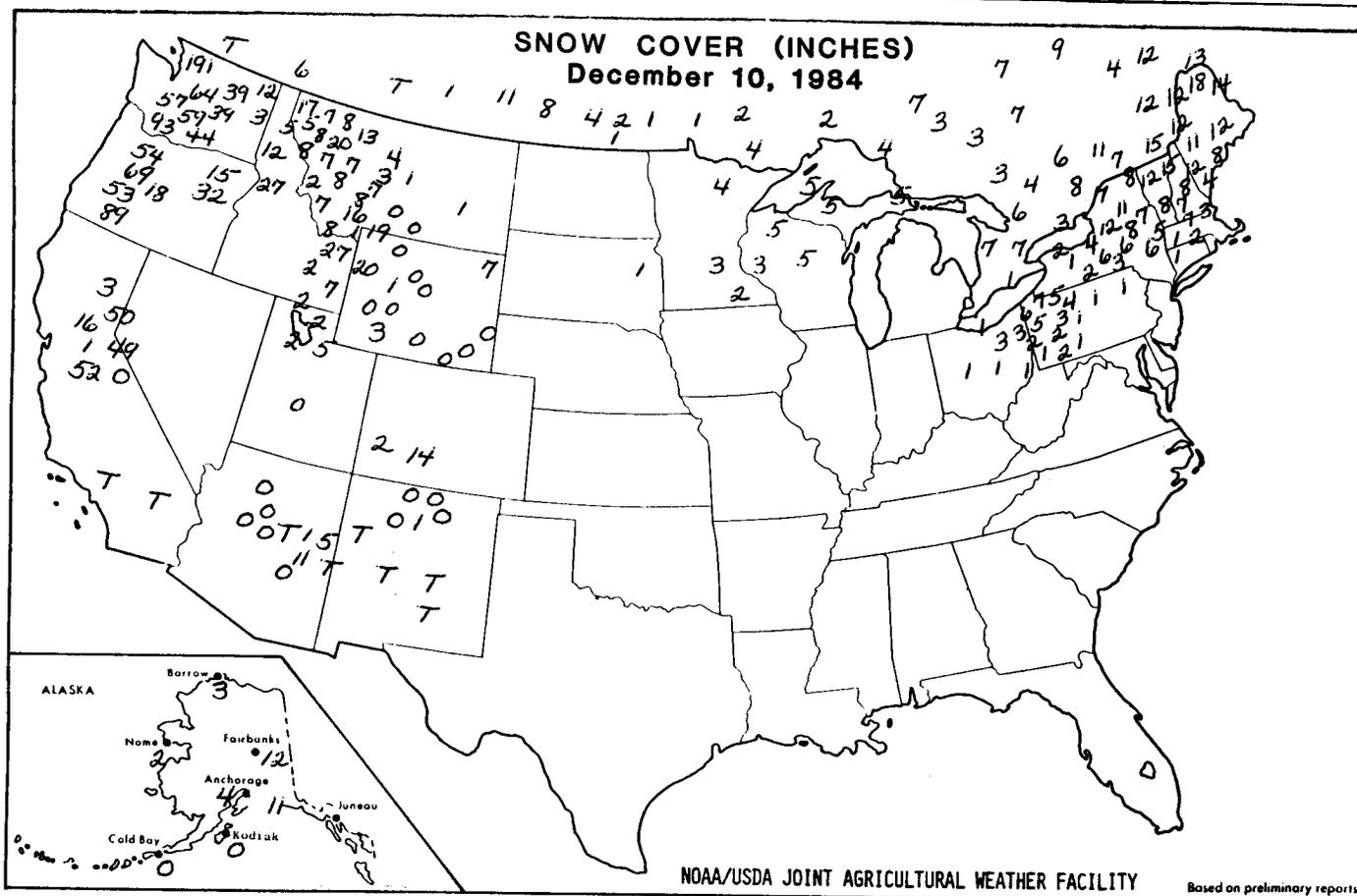
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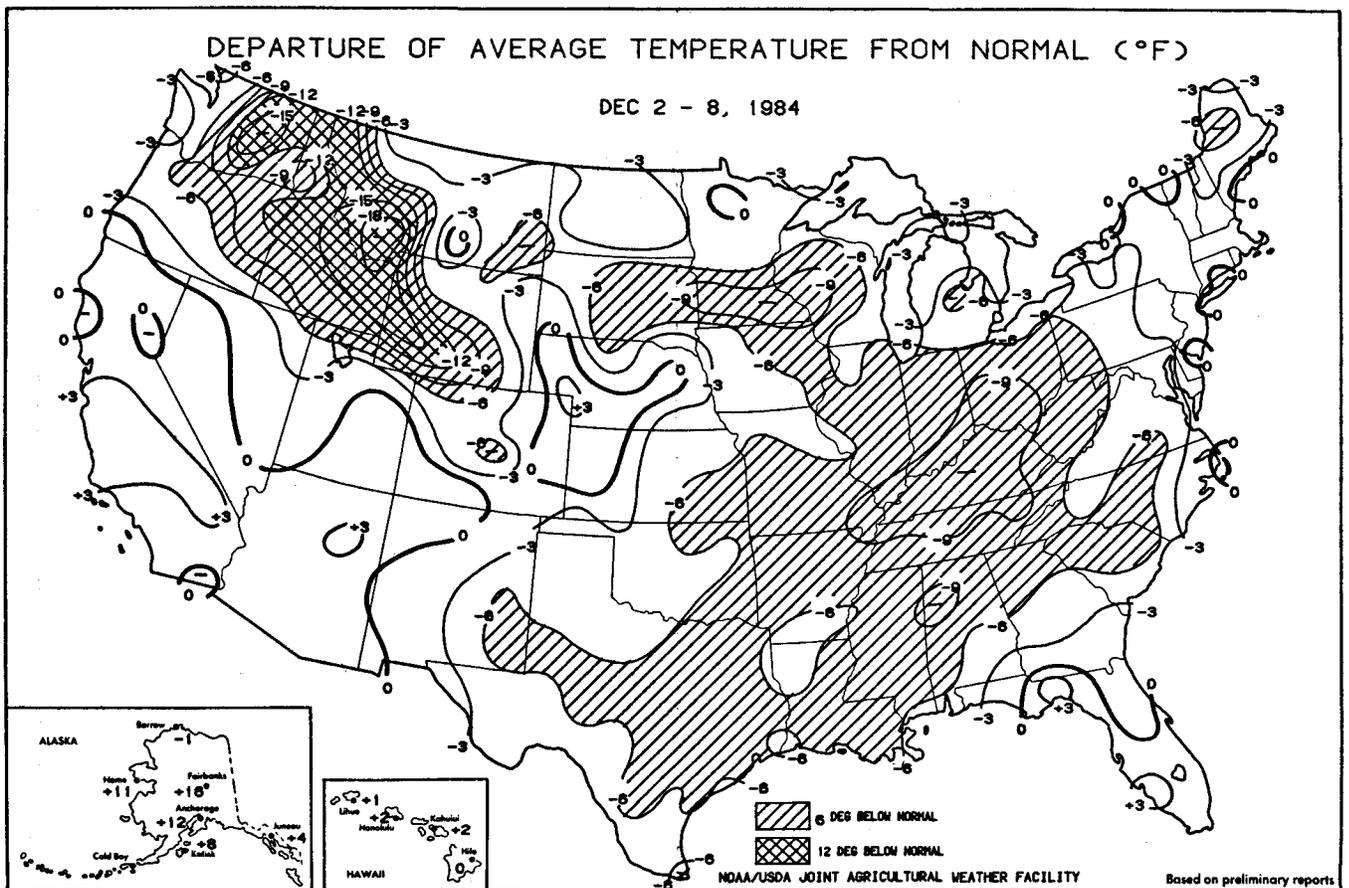
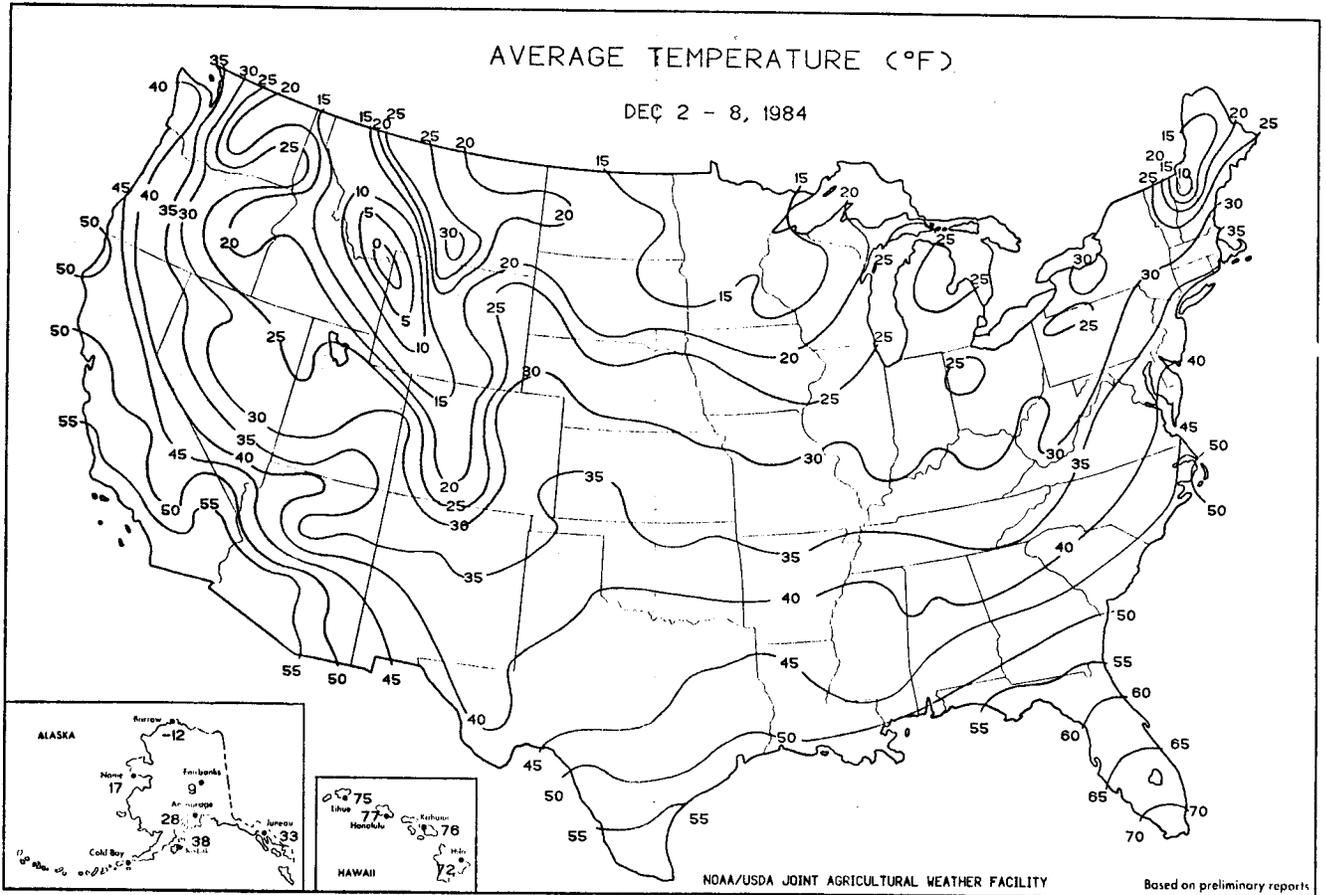


WARM, MOIST AIR FROM THE GULF OF MEXICO OVERRUNS A NEAR STATIONARY FRONT ALONG THE GULF COAST, PRODUCING RAIN IN THE SOUTHEAST AND SNOW FROM EASTERN OKLAHOMA THROUGH THE OHIO VALLEY AND NORTHWARD. SNOW IN THE GREAT LAKES AREA AND IN CANADA IS GENERALLY LIGHT.

UPSLOPE FLOW FROM MONTANA INTO CANADA IS CAUSING LIGHT SNOW.

AN APPROACHING STORM OFF THE SOUTHWEST COAST IS BEGINNING TO PRODUCE SHOWERS IN SOUTHERN CALIFORNIA.





Weather Data for the Week Ending December 8, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC. 1	PCT. NORMAL SINCE DEC. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	50	29	60	15	40	-8	1.8	-.8	-.9	1.8	152	45.3	89	91	41	0	4	3	2
MOBILE	58	38	76	23	48	-7	2.0	-.8	1.9	2.0	142	53.6	88	87	45	0	3	3	1
MONTGOMERY	57	34	78	22	45	-5	4.5	3.4	1.7	4.5	382	53.6	117	89	46	0	3	3	3
AK ANCHORAGE	33	22	39	11	28	12	.3	0	.2	.3	78	14.1	97	97	83	0	7	1	0
BARRROW	-7	-16	0	-26	-12	-1	T	T	T	T	13	3.9	83	85	71	0	7	0	0
FAIRBANKS	16	1	32	-5	9	17	.2	0	-.1	.2	90	9.2	93	97	84	0	7	0	0
JUNEAU	37	29	41	20	33	4	T	-.1	T	T	0	45.0	91	100	83	0	4	0	0
KODIAK	41	35	44	27	38	8	1.6	-.3	-.8	1.6	108	64.3	92	92	66	0	2	5	2
NOME	23	12	30	5	17	11	.2	.1	-.1	.3	161	13.9	97	96	80	0	7	3	0
AZ PHOENIX	65	47	74	40	56	2	.9	.1	-.3	.9	538	12.8	200	88	41	0	0	3	1
PRESCOTT	52	29	59	23	41	2	.3	0	.3	.3	83	13.7	78	84	41	0	6	1	0
TUCSON	65	43	72	34	54	1	1.1	-.9	-.9	1.1	463	13.4	128	69	32	0	0	3	1
YUMA	68	49	74	42	59	1	.5	-.5	-.3	.5	663	5.3	220	80	40	0	0	3	0
AR FORT SMITH	46	27	58	18	37	-7	.6	-.2	-.5	.6	68	47.4	125	83	44	0	5	2	1
LITTLE ROCK	46	30	62	20	38	-7	.7	-.3	-.7	.7	64	54.6	126	82	57	0	5	1	1
CA BAKERSFIELD	63	45	69	36	54	4	.1	0	.1	.1	88	2.4	45	94	49	0	0	3	1
EUREKA	60	43	64	37	51	2	.9	-.9	-.8	.9	57	37.1	109	91	58	0	0	2	0
FRESNO	59	45	67	37	52	5	.2	-.1	-.2	.2	60	5.0	53	89	63	0	0	3	0
LOS ANGELES	66	52	75	45	59	1	1.0	-.6	-.8	1.0	250	4.6	42	81	46	0	0	3	1
RED BLUFF	57	40	66	35	48	0	1.0	-.2	-.6	1.0	113	14.4	76	96	59	0	0	4	1
SACRAMENTO	57	41	61	37	49	2	.5	-.1	-.4	.5	70	8.1	54	100	71	0	0	2	0
SAN DIEGO	65	54	77	48	60	0	.5	-.2	-.4	.5	150	4.5	54	92	62	0	0	3	0
SAN FRANCISCO	57	44	64	41	51	1	.6	-.1	-.3	.6	78	12.9	75	96	68	0	0	3	0
CO DENVER	46	19	68	12	33	-1	.0	T	T	T	0	16.1	108	75	25	0	6	0	0
GRAND JUNCTION	41	21	43	15	31	0	T	T	T	T	8	11.0	145	72	34	0	7	1	0
PUEBLO	47	18	72	12	33	-2	.1	.1	.1	.1	150	15.8	149	90	40	0	7	0	0
CT BRIDGEPORT	43	31	52	22	37	0	1.5	-.6	-.9	1.5	141	41.5	107	81	47	0	2	3	1
HARTFORD	39	23	46	15	31	-1	1.3	-.3	-.6	1.3	120	41.4	100	80	45	0	7	3	2
DC WASHINGTON	44	30	54	22	37	-4	1.0	-.3	-.8	1.0	123	37.8	103	80	42	0	3	4	1
FL APALACHICOLA	68	46	79	28	57	1	T	-.7	T	.3	33	55.7	107	85	52	0	2	2	0
DAYTONA BEACH	73	49	83	31	61	0	.1	-.4	.1	.1	12	46.7	100	87	53	0	1	2	0
JACKSONVILLE	67	43	78	26	55	-1	.1	-.4	.1	-.1	20	48.9	96	96	52	0	2	2	0
KEY WEST	78	70	83	58	74	2	.1	-.4	.1	.1	15	39.4	103	79	59	0	0	1	0
MIAMI	78	60	84	45	69	-1	.1	-.3	.1	.2	50	59.6	106	93	56	0	0	2	0
ORLANDO	73	51	83	35	62	-1	.1	-.3	.1	.2	31	44.2	95	99	55	0	0	2	0
TALLAHASSEE	69	44	77	22	57	3	.4	-.6	.3	1.4	124	56.4	92	95	47	0	2	3	0
TAMPA	75	52	82	34	63	0	.1	-.4	.1	.1	11	32.3	71	94	51	0	0	2	0
WEST PALM BEACH	78	59	84	43	68	1	T	-.5	T	.1	12	69.0	119	96	59	0	0	1	0
GA ATLANTA	48	30	63	16	39	-7	3.4	2.5	1.8	3.4	328	55.2	121	90	47	0	3	4	2
AUGUSTA	57	32	70	21	44	-4	1.2	.5	.6	1.2	159	44.2	109	93	43	0	4	4	1
MACON	57	33	74	21	45	-5	2.0	1.2	1.1	2.0	214	44.0	106	93	46	0	4	4	1
SAVANNAH	60	40	75	24	50	-2	.1	-.5	.1	.1	15	50.4	106	82	45	0	3	1	0
HI HILO	80	64	82	62	72	0	.6	-.7	-.5	.7	18	87.8	73	88	58	0	0	2	1
HONOLULU	83	70	84	65	77	2	.5	-.3	.2	.5	56	12.3	58	86	59	0	0	4	0
KAIULUI	85	66	88	61	76	2	T	-.6	T	T	0	8.0	45	87	50	0	0	0	0
LIHUE	80	70	81	69	75	1	.6	-.6	-.4	.8	61	24.3	61	82	62	0	0	3	0
ID BOISE	32	15	33	13	24	-10	0	-.3	0	0	0	12.4	116	83	48	0	7	0	0
LEWISTON	37	21	46	15	29	-7	0	-.3	0	0	3	10.2	86	84	52	0	7	0	0
POCATELLO	25	1	30	-5	13	-15	T	-.2	T	T	4	12.6	125	84	57	0	7	0	0
IL CHICAGO	31	14	48	7	23	-8	.1	-.4	.1	.1	21	30.9	97	91	60	0	7	2	0
MOLINE	33	13	50	2	23	-7	.3	-.2	-.2	.3	48	36.2	101	79	52	0	7	2	0
PEORIA	35	15	50	3	25	-6	.1	-.4	.1	.1	23	37.0	110	91	55	0	7	2	0
QUINCY	36	17	51	2	27	-7	T	-.4	T	T	4	36.3	99	90	54	0	7	1	0
ROCKFORD	31	12	51	4	22	-8	.2	-.3	.2	.2	41	30.4	85	92	57	0	7	2	0
SPRINGFIELD	35	17	48	-1	26	-8	.1	-.4	.1	.1	25	38.9	120	89	55	0	7	2	0
IN EVANSVILLE	37	20	51	2	29	-10	.7	-.2	-.4	.7	71	44.4	113	86	55	0	6	3	0
FORT WAYNE	34	17	48	9	25	-7	.4	-.2	-.2	.4	63	28.7	88	87	59	0	7	2	0
INDIANAPOLIS	34	17	50	2	26	-9	.6	-.1	-.3	.6	71	38.4	104	89	59	0	6	3	0
SOUTH BEND	33	17	46	9	25	-7	.8	-.1	-.4	.8	96	30.8	85	84	59	0	7	2	0
IA DES MOINES	36	10	62	-3	23	-6	T	-.3	T	T	9	38.9	129	84	44	0	7	1	0
SIoux CITY	39	11	68	-1	25	-2	T	-.2	T	T	0	32.6	131	75	37	0	7	0	0
WATERLOO	30	7	48	-4	18	-7	T	-.3	T	.1	26	32.4	101	86	62	0	7	1	0
KS CONCORDIA	42	19	63	4	30	-3	T	-.2	T	T	0	25.2	94	90	41	0	7	0	0
DODGE CITY	47	23	69	14	35	-1	.1	-.1	.1	.1	56	16.6	82	82	39	0	7	2	0
GOODLAND	49	17	65	12	33	0	0	-.1	0	0	0	20.5	127	81	31	0	7	0	0
TOPEKA	41	19	58	7	30	-5	.4	-.2	.1	.1	28	35.9	110	81	46	0	7	1	0
WICHITA	40	21	57	11	30	-7	.1	-.1	.2	.4	123	24.3	87	89	51	0	7	2	0
KY BOWLING GREEN	41	22	55	9	31	-9	.5	-.5	.5	.5	46	55.8	122	95	58	0	7	2	0
LEXINGTON	37	19	49	2	28	-11	.3	-.6	.3	.3	33	37.8	88	92	59	0	6	3	0
LOUISVILLE	40	22	53	6	31	-9	.5	-.4	.4	.5	48	42.4	103	80	48	0	6	2	0
LA ALEXANDRIA	56	39	74	26	47	-6	1.4	-.3	1.2	1.4	110	64.2	125	78	46	0	3	2	1
BATON ROUGE	56	37	69	22	47	-8	2.3	1.1	1.3	2.3	177	49.7	95	92	52	0	3	3	2
LAKE CHARLES	56	39	72	26	48	-8	3.5	2.4	2.8	3.5	273	61.4	124	95	57	0	1	3	2
NEW ORLEANS	59	41	80	27	50	-6	1.6	...	1.0	1.7	126	51.2	91	91	51	0	2	3	2

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending December 8, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS								
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC. 1	PCT. NORMAL SINCE DEC. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE					
SHREVEPORT	56	36	77	23	46	-5	.6	-.3	.6	.6	60	46.1	112	81	38	0	2	1	1					
ME CARIBOU	26	12	34	-1	19	-1	1.4	-.6	1.4	164	33.6	98	90	71	0	7	4	1	1					
PORTLAND	37	20	45	10	29	0	2.0	-.9	2.0	159	46.6	115	85	47	0	7	5	2	0					
MD BALTIMORE	44	28	54	20	36	0	.9	.1	.9	97	36.0	91	79	37	0	5	4	0	1					
SALISBURY	51	29	61	22	40	-3	1.2	.4	1.2	130	41.3	96	88	45	0	5	3	3	1					
MA BOSTON	41	28	47	19	35	-2	1.2	.9	1.2	100	48.5	119	75	46	0	6	2	1	1					
CHATHAM	46	29	53	21	38	-1	1.3	.1	1.3	98	47.4	109	77	41	0	4	3	2	1					
MI ALPENA	32	16	43	6	24	-2	.4	-.1	.4	71	28.7	105	96	67	0	7	3	0	0					
DETROIT	35	18	45	10	27	-5	.2	-.4	.2	35	23.9	82	81	53	0	7	4	0	0					
FLINT	35	20	45	14	27	-3	.3	-.2	.3	52	26.6	96	85	59	0	7	4	0	0					
GRAND RAPIDS	33	19	45	14	26	-4	.3	-.4	.3	36	24.6	75	97	65	0	7	3	0	0					
HOUGHTON LAKE	29	18	40	11	24	-2	.1	-.3	.2	42	25.7	97	91	64	0	7	3	0	0					
LANSING	33	17	44	10	25	-5	.3	-.3	.1	.3	44	25.6	91	90	65	0	7	4	0	0				
MARQUETTE	28	8	44	-2	18	-3	.9	.3	.9	133	30.7	87	92	71	0	7	4	4	0	0				
MUSKEGON	35	22	43	18	29	-2	.7	-.1	.4	94	26.1	88	85	62	0	7	3	0	0	0				
SAULT STE. MARIE	29	11	38	-4	20	-3	1.8	1.2	.8	1.9	253	31.6	99	98	73	0	7	3	6	2	0			
MN ALEXANDRIA	24	2	47	-10	13	-5	T	T	T	T	T	25	129	84	52	0	7	2	0	0	0			
DULUTH	23	-6	41	-12	14	-4	.1	-.2	.1	.1	22	25.3	88	81	56	0	7	1	2	0	0			
INT'L FALLS	20	-2	36	-18	9	-4	T	T	T	T	17	19.6	83	88	66	0	7	2	0	0	0			
MINNEAPOLIS	25	5	41	-7	15	-8	.1	-.1	.1	.3	129	34.8	135	80	53	0	7	1	2	0	0			
ROCHESTER	23	3	38	-9	13	-10	.4	-.2	.4	.4	171	26.7	96	88	67	0	7	2	0	0	0			
MS GREENWOOD	48	32	64	17	40	-8	.4	-.4	.4	.4	26	50.2	102	91	45	0	3	2	2	0	0			
JACKSON	52	31	68	17	42	-9	1.5	.3	1.5	107	49.0	100	97	54	0	3	3	2	2	1	1			
MERIDIAN	53	32	67	21	43	-7	2.4	1.1	1.8	170	52.2	106	92	50	0	3	3	3	3	1	1			
MO CAPE GIRARDEAU	38	21	55	5	30	-1	1.1	.2	1.1	109	43.8	105	97	60	0	6	2	1	1	0	0			
COLUMBIA	40	19	56	5	30	-6	.1	-.4	.1	.1	14	45.7	132	89	51	0	7	2	1	1	0	0		
KANSAS CITY	41	17	60	5	29	-6	T	-.3	T	T	8	35.1	103	92	47	0	7	2	1	0	0	0		
SAINT LOUIS	41	23	56	8	32	-5	.3	-.3	.2	.3	41	47.1	145	87	46	0	6	2	1	2	0	0		
SPRINGFIELD	41	23	57	8	32	-6	.3	-.3	.3	.3	44	39.1	104	76	51	0	6	1	1	0	0	0		
MT BILLINGS	40	20	58	7	30	1	T	T	T	T	19	9.6	66	65	38	0	6	0	0	0	0	0		
GLASGOW	28	8	48	-5	18	-3	T	-.1	T	T	0	6.1	54	81	52	0	7	0	0	0	0	0		
GREAT FALLS	34	16	53	-6	22	-3	T	-.1	T	T	0	11.0	75	72	47	0	5	0	0	0	0	0		
HAVRE	31	13	51	-10	22	-3	T	-.1	T	T	0	6.2	58	81	53	0	5	0	0	0	0	0		
HELENA	24	0	37	-6	12	-14	T	-.1	T	T	0	8.8	81	99	63	0	7	0	0	0	0	0		
KALISPELL	23	5	38	-9	14	-12	.1	-.3	.1	.1	30	15.1	102	91	64	0	7	1	1	0	0	0		
MILES CITY	30	7	48	-8	19	-6	T	-.1	T	T	0	38	7.9	58	86	56	0	7	1	1	0	0	0	
MISSOULA	22	4	31	0	13	-13	T	-.3	T	T	0	18	12.6	102	90	63	0	7	0	0	0	0	0	
NE GRAND ISLAND	43	15	66	1	29	-1	T	-.2	T	T	0	30.3	132	69	31	0	7	0	0	0	0	0	0	
LINCOLN	41	17	65	1	28	-2	T	-.2	T	T	0	33.1	145	81	35	0	7	0	0	0	0	0	0	
NORFOLK	40	13	69	-2	27	-1	T	-.2	T	T	0	32.7	140	88	29	0	7	0	0	0	0	0	0	
NORTH PLATTE	46	10	65	2	28	0	T	-.1	T	T	0	20.4	106	85	29	0	7	0	0	0	0	0	0	
OMAHA	38	13	60	0	26	-4	T	-.2	T	T	0	4	33.5	114	73	48	0	7	1	1	0	0	0	
SCOTT'S BLUFF	46	9	66	0	27	-2	T	-.1	T	T	0	13	12.4	87	73	24	0	7	1	0	0	0	0	
VALENTINE	38	3	59	-8	20	-7	T	-.1	T	T	0	0	19.0	112	80	35	0	6	0	0	0	0	0	
NV ELY	41	11	51	5	26	0	T	-.1	T	T	0	0	13	14.1	166	88	51	0	7	1	1	0	0	0
LAS VEGAS	55	39	60	33	47	0	.2	.2	.2	275	5.4	135	85	41	0	0	0	0	0	0	0	0	0	
RENO	45	27	51	22	36	2	T	-.2	T	T	0	10	4.2	64	94	55	0	7	1	1	0	0	0	
WINNEMUCA	45	20	51	17	32	1	T	-.1	T	T	0	17	12.4	172	75	39	0	7	1	1	0	0	0	
NH CONCORD	36	16	44	6	26	-1	1.2	.4	1.2	125	40.8	120	97	58	0	7	3	2	2	1	0	0		
NJ ATLANTIC CITY	47	27	58	19	37	-1	1.3	.5	1.3	134	39.1	99	77	43	0	6	3	3	1	0	0	0		
NM ALBUQUERQUE	46	26	51	22	36	-2	.1	.1	.1	150	11.0	143	89	47	0	7	1	1	0	0	0	0		
CLOVIS	48	25	69	19	37	-4	.2	.1	.2	138	24.1	143	75	34	0	6	6	1	1	0	0	0		
ROSWELL	50	26	72	20	38	-6	.1	0	.1	.1	71	17.4	183	88	41	0	6	6	0	0	0	0	0	
NY ALBANY	35	21	42	9	28	-2	1.4	.7	1.5	193	35.9	107	99	69	0	7	4	4	2	0	0	0		
BINGHAMTON	32	23	40	12	28	-2	.7	0	.8	101	37.4	107	85	54	0	7	3	3	0	0	0	0		
BUFFALO	33	20	42	9	26	-5	.7	-.1	.3	.8	83	34.5	99	91	56	0	7	4	4	0	0	0	0	
NEW YORK	43	33	54	26	38	-1	1.2	.3	1.2	115	49.2	122	82	47	0	3	3	3	1	0	0	0		
ROCHESTER	35	24	44	13	30	-2	.8	-.2	.9	129	31.3	106	84	50	0	6	4	2	2	0	0	0		
SYRACUSE	33	23	39	11	28	-4	1.0	.3	1.3	148	34.7	94	96	58	0	7	6	6	0	0	0	0		
NC ASHEVILLE	45	23	56	10	34	-7	1.1	.3	1.1	126	45.5	101	95	44	0	7	3	3	1	0	0	0		
CHARLOTTE	48	28	57	16	38	-6	2.2	1.5	2.2	262	44.8	110	89	42	0	4	2	2	2	2	0	0		
GREENSBORO	47	26	58	16	36	-6	1.6	.9	1.1	1.6	200	50.1	125	85	41	0	6	2	2	2	2	0	0	
HATTERAS	61	41	71	31	51	1	1.1	.1	1.1	.9	94	44.6	85	92	53	0	2	4	4	1	1	0	0	
NEW BERN	57	35	69	24	46	-2	1.1	.3	1.1	117	59.2	117	88	50	0	3	3	3	1	1	0	0		
RALEIGH	47	29	60	18	38	-6	2.2	1.5	1.1	2.2	274	46.1	117	83	42	0	5	4	4	2	2	0	0	
WILMINGTON	58	37	73	24	48	-2	1.0	.3	1.0	117	57.3	113	92	44	0	2	4	4	1	1	0	0		
ND BISMARCK	30	5	48	-12	17	-2	T	-.1	T	T	0	25	14.3	96	86	53	0	7	1	1	0	0	0	
FARGO	24	3	50	-9	14	-4	T	-.1	T	T	0	19	19.3	101	80	49	0	7	1	0	0	0	0	
GRAND FORKS	22	2	42	-9	12	-4	T	-.1	T	T	0	19.5	110	82	59	0	7	0	0	0	0	0	0	
WILLISTON	26	4	46	-10	15	-4	T	-.1	T	T	0	10.3	76	86	61	0	7	0	0	0	0	0	0	
OH AKRON-CANTON	33	18	47	7	26	-7	.7	-.1	.4	.7	99	33.4	98	86	58	0	7	4	4	0	0	0	0	
CINCINNATI	36	18	50	1	27	-9	.7	0	.5	.7	89	38.3	101	84	56	0	6	4	4	1	0	0	0	
CLEVELAND	34	19	47	9	26	-8	.6	0	.6	.8	89	38.5	115	79	51	0	7	3	3	0	0	0	0	
COLUMBUS	34	18	49	6	26	-9	.5	-.1	.3	.5	72	31.0	88	85	55	0	7	4	0	0	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending December 8, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC. 1	PCT. NORMAL SINCE DEC. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	33	16	49	3	25	-10	.7	.1	.5	.7	108	32.6	99	85	58	0	7	3	0
TOLEDO	33	17	46	9	25	-6	.3	-.4	.2	.3	39	28.9	94	85	58	0	7	3	0
YOUNGSTOWN	32	19	44	12	26	-7	.8	.2	.5	.8	111	35.3	100	91	62	0	7	4	0
OK OKLAHOMA CITY	45	29	58	20	37	-5	.6	.3	.4	.6	181	26.2	87	85	51	0	7	3	0
TULSA	45	28	60	16	37	-6	.7	.2	.4	.7	120	40.7	108	83	46	0	6	2	0
OR ASTORIA	50	35	56	30	42	-2	.5	-.2	.5	.5	17	62.4	102	80	54	0	2	2	0
BURNS	31	6	37	5	19	-10	0	-.2	0	T	0	10.8	150	80	51	0	7	2	0
MEDFORD	46	30	56	25	38	-1	.3	-.5	.3	T	32	16.8	97	99	69	0	5	2	0
PENDLETON	30	23	39	20	27	-11	.1	-.3	.1	T	5	12.1	110	95	76	0	5	1	0
PORTLAND	43	34	46	29	38	-4	.1	-.3	.1	T	8	34.9	106	76	52	0	3	1	0
SALEM	44	28	47	22	36	-6	.1	-.4	.1	T	7	41.6	118	90	63	0	6	1	0
PA ALLENTOWN	39	27	47	22	33	-1	1.0	.1	.5	1.0	94	50.2	121	83	47	0	7	3	0
ERIE	35	24	46	18	29	-4	.8	.0	.4	.8	88	34.4	92	81	60	0	7	3	0
HARRISBURG	40	29	51	22	34	-2	.9	.1	.4	.9	100	42.0	114	78	43	0	5	3	0
PHILADELPHIA	44	29	51	24	36	-2	1.3	.5	.6	1.3	141	42.7	109	75	43	0	5	3	0
PITTSBURGH	35	19	46	9	27	-7	.6	.1	.4	.6	100	33.0	96	92	57	0	7	3	0
SCRANTON	37	27	47	18	32	-1	.8	.1	.4	.8	106	37.1	111	88	49	0	5	4	0
RI PROVIDENCE	41	25	50	15	33	-2	1.4	.4	.9	1.4	118	46.9	111	82	43	0	5	4	0
SC CHARLESTON	56	37	68	23	47	-5	.6	-.1	.3	.6	79	46.1	94	93	52	0	3	3	0
COLUMBIA	53	29	68	19	41	-7	1.7	1.0	1.4	1.7	218	44.5	96	94	46	0	4	1	0
FLORENCE	49	32	62	19	41	-8	.9	.3	.7	.9	126	39.8	95	91	49	0	3	2	0
GREENVILLE	49	27	62	17	38	-7	2.1	1.3	1.0	2.1	221	58.2	122	83	40	0	5	4	2
SD ABERDEEN	26	2	46	-15	14	-7	.1	-.1	.1	.2	138	21.0	120	83	57	0	7	1	0
HURON	27	3	48	-11	15	-7	.1	-.1	.1	.4	219	29.5	161	82	53	0	7	1	0
RAPID CITY	44	11	69	-2	27	-1	T	-.1	.1	T	31	15.0	94	66	32	0	7	0	0
SIoux FALLS	34	4	61	-10	19	-4	T	-.1	.1	T	33	27.9	118	81	45	0	7	1	0
TN CHATTANOOGA	45	26	55	13	35	-8	.9	-.2	.5	.9	71	46.8	96	86	50	0	4	3	1
KNOXVILLE	44	22	56	10	33	-10	.7	-.3	.5	.7	61	46.8	106	93	48	0	6	3	1
MEMPHIS	46	31	62	20	38	-7	.7	-.5	.7	.7	51	53.4	111	87	48	0	4	1	1
NASHVILLE	43	24	56	10	34	-9	.5	-.5	.4	.5	42	54.7	121	90	50	0	6	3	1
TX ABILENE	52	33	65	27	43	-6	.1	-.1	.1	.1	29	19.3	85	66	38	0	5	1	0
AMARILLO	50	25	77	19	37	-3	T	0	.3	.4	63	23.4	78	79	34	0	7	1	0
AUSTIN	57	37	71	28	47	-7	.4	-.1	.3	.4	63	23.4	78	79	34	0	7	1	0
BEAUMONT	59	42	73	28	51	-6	.9	-.1	.4	.9	78	58.2	118	93	52	0	1	3	0
BROWNSVILLE	67	50	82	37	59	-5	1.2	.9	1.2	1.2	381	39.7	161	99	69	0	0	3	1
CORPUS CHRISTI	63	45	81	33	54	-6	.3	-.1	.2	.3	71	21.0	72	94	53	0	0	3	0
DEL RIO	57	40	72	33	49	-5	T	-.1	.1	T	6	12.8	76	86	44	0	0	1	0
EL PASO	55	32	67	28	44	-2	.2	.2	.2	.2	250	15.8	211	85	38	0	5	1	0
FORT WORTH	52	33	64	28	42	-7	.7	.3	.4	.7	140	28.0	99	89	45	0	3	2	0
GALVESTON	58	44	74	36	51	-7	2.2	1.4	1.8	2.2	229	35.0	93	85	53	0	3	3	0
HOUSTON	59	38	79	26	49	-7	.7	-.2	.4	.7	70	46.0	109	83	39	0	1	2	0
LUBBOCK	51	27	73	20	39	-4	T	.1	.1	T	25	13.4	77	85	40	0	6	1	0
MIDLAND	53	29	68	22	41	-7	T	-.1	.1	T	6	15.7	117	83	40	0	5	1	0
SAN ANGELO	54	31	66	25	43	-7	.1	-.1	.1	.1	29	15.6	88	93	44	0	5	1	0
SAN ANTONIO	59	37	77	26	48	-7	.4	0	.2	.4	93	22.9	81	89	45	0	2	3	0
VICTORIA	61	40	82	30	51	-7	.8	.3	.5	.8	136	30.7	87	96	53	0	1	3	0
WACO	54	36	65	31	45	-7	.4	-.1	.2	.4	78	29.7	100	87	46	0	2	2	0
WICHITA FALLS	51	31	66	25	41	-5	.4	.1	.3	.4	109	20.6	80	88	44	0	2	2	0
UT ELANDING	45	23	50	16	34	-2	T	-.2	.1	T	7	8.9	84	83	44	0	7	1	0
CEDAR CITY	46	21	56	15	34	-1	0	0	0	0	0	11.9	121	91	43	0	7	0	0
SALT LAKE CITY	39	21	40	17	30	-2	T	-.3	.3	T	81	21.1	148	86	54	0	7	1	0
VT BURLINGTON	33	20	41	3	27	0	1.3	.7	.8	1.5	219	34.6	108	80	46	0	7	4	0
VA NORFOLK	52	34	62	26	43	-3	2.1	1.4	1.2	2.1	265	44.7	104	81	48	0	2	4	1
RICHMOND	49	28	58	21	38	-4	1.2	.4	.8	1.2	135	45.8	110	90	40	0	6	4	1
ROANOKE	45	26	59	15	35	-5	.6	-.1	.5	.6	78	42.4	115	75	35	0	6	4	1
WA COLVILLE	24	9	34	0	17	-13	.6	.1	.5	.6	98	24.5	156	92	84	0	6	4	0
QUILLAYUTE	47	31	50	24	39	-3	2.8	-.9	2.7	2.8	67	101.2	109	97	62	0	6	3	0
SEATTLE-TACOMA	47	32	49	26	39	-3	1.7	.3	1.0	1.7	104	33.5	98	85	47	0	5	2	0
SPOKANE	27	10	38	5	18	-12	.1	-.5	.1	.1	13	16.1	108	100	78	0	7	2	0
YAKIMA	27	9	34	0	18	-15	0	-.3	0	0	0	8.5	121	78	65	0	7	0	0
WV BECKLEY	39	19	51	3	29	-7	.6	-.2	.3	.6	69	38.5	97	85	46	0	7	5	0
CHARLESTON	43	23	58	10	33	-6	.7	-.1	.2	.7	81	37.9	94	87	48	0	7	3	0
HUNTINGTON	40	21	53	7	30	-9	.5	-.2	.3	.5	66	36.9	96	95	58	0	7	3	0
PARKERSBURG	39	20	54	6	30	-8	.6	0	.3	.6	85	30.5	78	90	50	0	7	3	0
WI GREEN BAY	29	11	41	4	20	-5	.2	-.2	.2	.2	48	35.0	130	90	63	0	7	3	0
LA CROSSE	24	6	40	-5	15	-10	.5	-.2	.5	.5	153	31.0	105	87	59	0	7	2	0
MADISON	29	11	48	1	20	-6	.3	-.1	.3	.3	70	31.3	105	89	55	0	7	1	0
MILWAUKEE	32	14	49	8	23	-6	.7	-.2	.2	.3	48	36.3	124	83	53	0	7	3	0
WAUSAU	25	6	43	-2	15	-7	.3	-.4	.7	.7	177	39.2	127	91	62	0	7	1	0
WY CASPER	34	11	47	-5	22	-5	.1	0	.1	.2	94	12.8	115	76	36	0	6	1	0
CHEYENNE	40	13	58	2	26	-4	T	-.1	T	T	0	17.2	131	77	31	0	5	0	0
LANDER	27	5	39	-3	16	-9	0	0	0	0	6	12.9	101	71	42	0	7	0	0
SHERIDAN	34	4	54	-13	19	-8	T	-.2	T	T	0	13.6	94	84	45	0	7	0	0
PR SAN JUAN	83	72	84	71	78	0	.9	-.3	.3	.9	68	41.1	81	81	59	0	0	7	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 12-8-1984
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 L YR PRCT, CUM DEV FROM L YR PRCT. Rows list various cities and their corresponding weather data.

NOVEMBER WEATHER SUMMARY

HIGHLIGHTS: Stormy weather prevailed during most of the month in the lower and middle Mississippi and Ohio Valleys and along the Pacific coast. Over 150 percent of normal precipitation hampered outdoor activities in the Delta States and the southern Corn Belt. Over 20 inches of rain deluged parts of the Northwest coast. In contrast, it was abnormally dry in the central sections of the Great Plains, much of the northern Plains, the eastern Seaboard, and the extreme southern Texas. Most of the Nation had near-normal average temperatures. However, it was slightly cooler than normal through the east coastal Plains, the central Appalachians, and the Sierras in the West. The central and northern Plains were a little warmer than normal.

Showers, thunderstorms, and a few tornadoes spread across the South in the first three days of the month. Freezing temperatures ended the growing season southward to the Ohio river and throughout the Northeast.

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

SECOND WEEK... Moderate showers moved through the upper Mississippi Delta late in the week, and then heavy showers developed from the Texas Panhandle to southern Missouri. Showers occurred on several days from the middle Ohio Valley to New England. Snow fell in Michigan, northern Indiana, and parts of the Northeast. Several rainy days contributed to heavy accumulations on the west coast from northern California through Washington; lighter showers covered all of the coast. Snow fell over the northern Plateau and Rockies. Average temperatures were colder than normal from the Midwest through the Southeast -- freezing temperatures reached into northern Florida. It was warmer than normal from western Texas through the Rockies and Plateau.

THIRD WEEK... Moderate to heavy precipitation spread from the lower and middle Mississippi Valley, through the Ohio and Tennessee Valleys, to the central east coast for the rest of the week. Showers in Florida were accompanied by unusually high tides and strong winds along the State's east coast. Rain, or snow at higher elevations, covered most of the area west of the Rockies. Moderate to heavy showers fell along the Northwest Coast. Light to moderate showers covered southern California. Showers spread through the Southwest to western Texas as the week ended. Temperatures averaged cooler than normal from Texas to the Great Lakes and eastward, and along the west coast. Unusually mild temperatures covered the Plateau, the Rockies, and the northern Plains.

FOURTH WEEK... Most of the Nation had some precipitation; only a small part of the central Plains and parts of the Southwest reported no precipitation. Heavy rain fell along the Northwest Coast, and snow fell nearly every day in the Cascades, the Sierras, the Plateau, and the Rockies. Snow also fell over the high Plains from western Oklahoma to Montana,

and across the northern Plains to the Great Lakes region. Moderate to heavy showers fell from southern Louisiana into Missouri, and northeastward to the Tennessee Valley. Moderate to heavy rain fell in the central and northern Appalachians after midweek, changing to snow before ending. Average temperatures were cooler than normal west of the Plains and warmer to the East.

WINTER WHEAT SEEDING NEARS COMPLETION

Despite rain delays, wheat seedings reached 98 percent completion by early December, equaling the average. Wet weather hampered planting in the eastern Corn Belt and Delta States for much of the month, while persistent dry conditions delayed progress in the Southeast. Stands had emerged on 93 percent of the seeded acreage by the month's end, equaling the average. Unusually warm late-month temperatures allowed germination and growth of late-seeded wheat fields across much of the Corn Belt. At the end of the month, light snow provided stands limited protection from cold temperatures across the northern Plains. Wind damage ranged from light to none in this region. Cool, wet weather curtailed wheat growth in the Pacific Northwest late in the month. Excessive rain delayed completion of seeding in Oregon at the month's end.

ROW CROP HARVEST

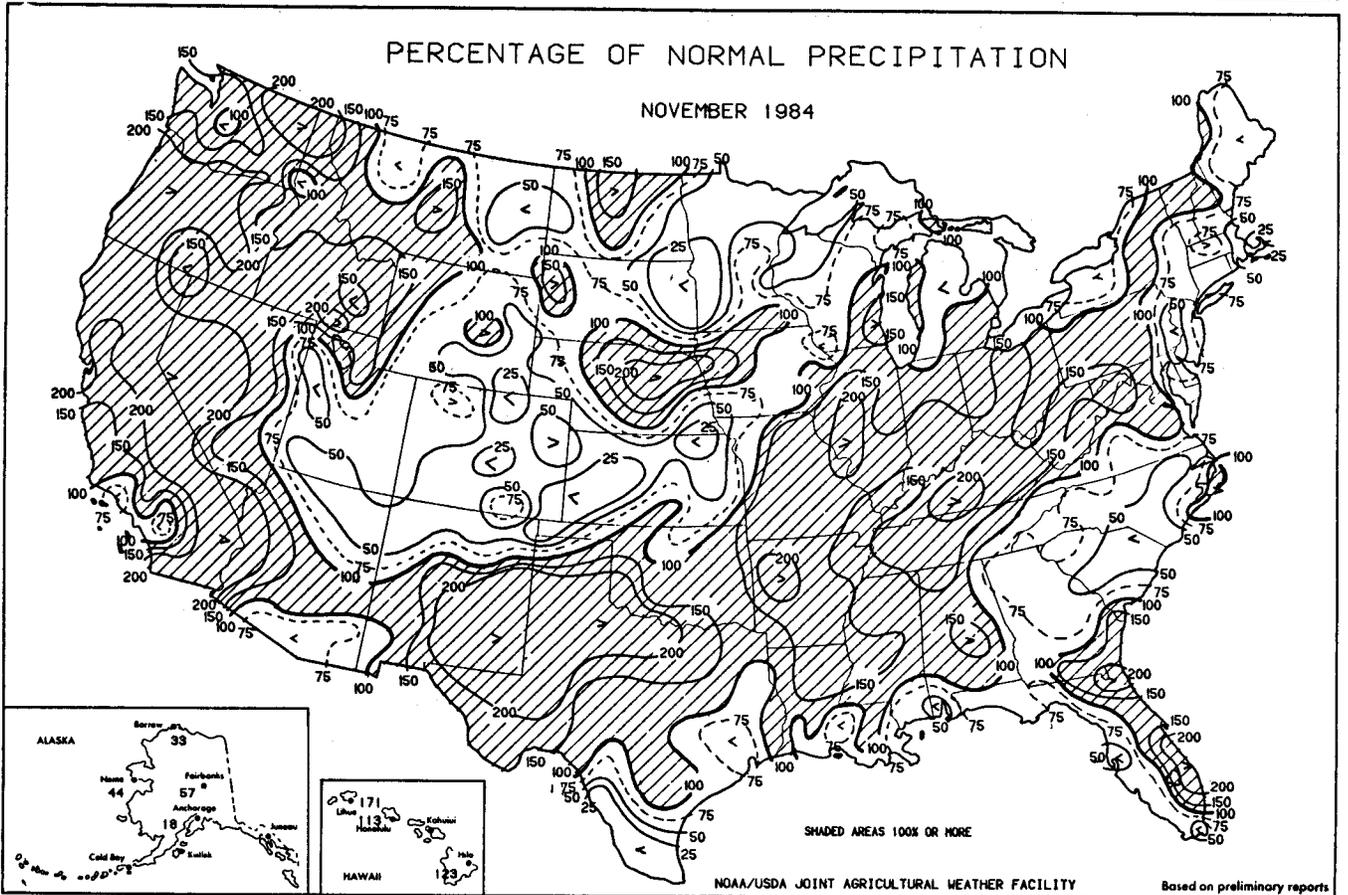
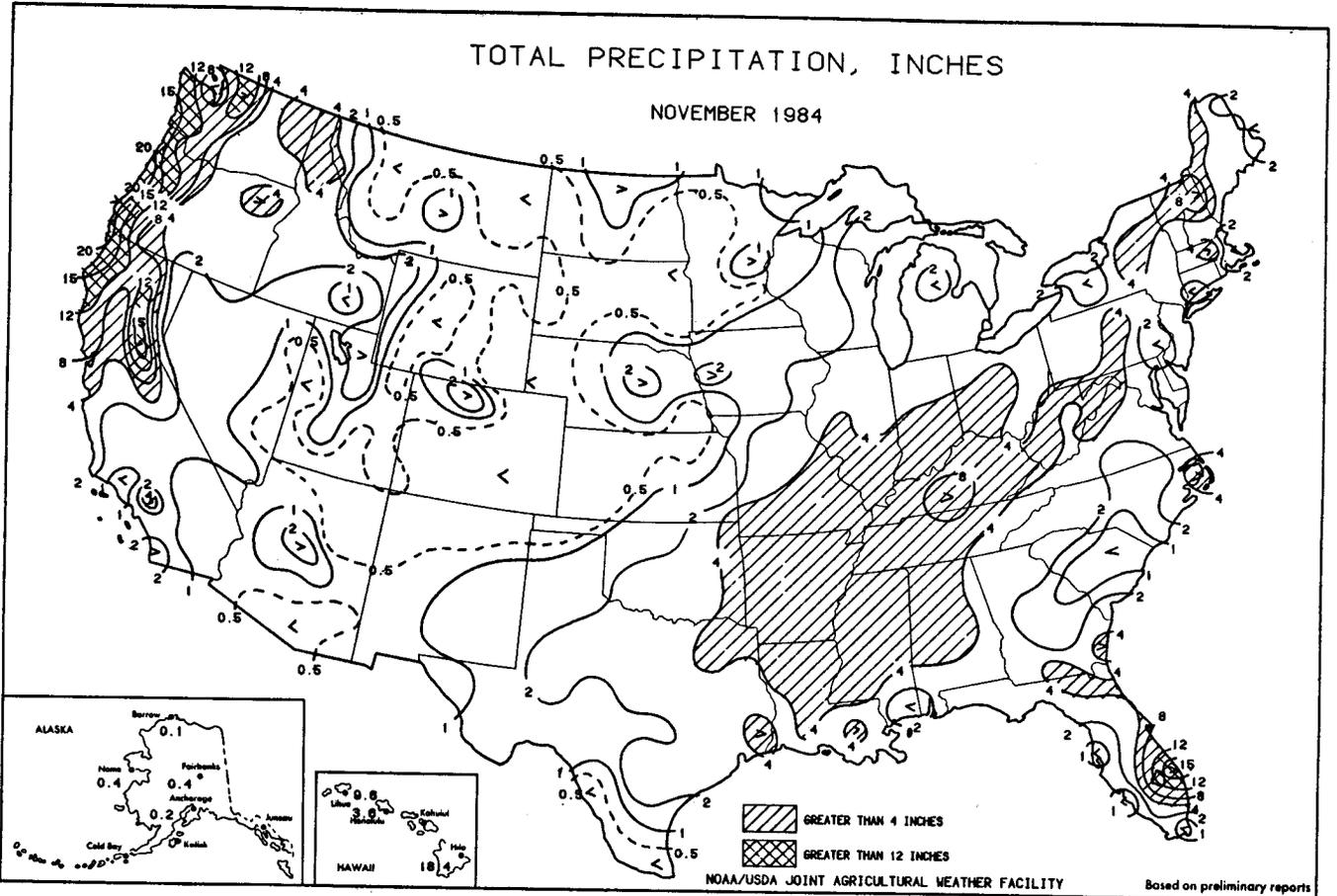
After untimely, prolonged rains in early November, fair weather allowed harvest resumption as soils dried across the Delta States and much of the Corn Belt. Heavy rain returned late in the month, hampering soybean and cotton harvesting in the Delta region and completion of row crop combining in the eastern Corn Belt. The Southeast and Great Plains had favorable harvest weather for much of the month. Harvests of most crops lagged normal in the Nation's midsection for the entire month.

Corn harvesting was 64 percent finished in the 17 major producing States at the beginning of November, well behind last year's 89 percent and the 72 percent average. Muddy conditions slowed progress through the month. By early December, combining reached 96 percent completion, compared with complete in 1983 and the 97 percent average. Harvesting was 14 points behind schedule in Ohio and 12 points slower than normal in Pennsylvania, as the month ended.

Soybean combining was 53 percent complete in the 18 major producing States at the beginning of November, seriously behind last year's 77 percent and the 78 percent average. Persistent wet conditions hampered the harvest in the Delta States and eastern Corn Belt for much of the month. As the month ended, combining advanced to 91 percent completion, 4 points behind a year earlier and 5 points slower than normal. Progress trailed normal in 10 producing States: as much as 22 points less than the average in Tennessee and 17 points less in Mississippi. Eastern Corn Belt harvesting was 6 points behind schedule; while in the South-central States, progress was 12 points slower than normal.

Grain sorghum harvesting was 71 percent finished in the 7 major producing States as the month began, 15 points behind last year and 8 points behind normal. Combining made good progress during the month across much of the Great Plains. As November ended, harvesting was 98 percent complete, equaling both last year and the average. Missouri and Texas were the only States slightly trailing their averages by early December.

(continued to p. 20)



Temperature and Precipitation Data for November 1984

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	51	-1	5.0	1.3	BATON ROUGE	57	-1	2.7	-1.3	COLUMBUS	40	-1	4.4	1.8
AL MOBILE	56	-2	1.6	-2.1	LAKE CHARLES	58	-1	2.8	-1.0	DAYTON	39	-2	3.2	0.5
AL MONTGOMERY	55	0	4.7	1.6	NEW ORLEANS	59	-1	2.8	-1.3	TOLEDO	39	0	2.7	0.3
AK ANCHORAGE	20	-2	0.2	-1.0	SHREVEPORT	57	1	4.5	0.7	YOUNGSTOWN	39	-1	3.6	0.8
AK BARRROW	-8	-6	0.1	-0.2	ME CARIBOU	33	3	1.9	-1.3	OK OKLAHOMA CITY	50	1	2.0	0.5
AK FAIRBANKS	0	-3	0.4	-0.3	PORTLAND	39	1	3.7	-1.0	TULSA	50	2	2.8	0.3
AK JUNEAU	31	-1	0.2	-4.6	MD BALTIMORE	44	-2	3.0	-0.1	OR ASTORIA	47	0	15.2	5.2
AK KODIAK	34	-1	4.9	-1.7	MA SALSIBURY	46	-2	2.8	-0.2	BURNS	36	0	2.7	1.8
AK NOME	14	-2	0.4	-0.5	MA BOSTON	44	0	1.7	-2.6	MEDFORD	45	1	6.6	3.6
AZ FLAGSTAFF	35	-1	1.4	-0.3	MI CHATHAM	46	1	1.1	-3.4	PENDLETON	42	1	2.1	0.6
AZ PHOENIX	62	2	0.7	0.2	MI ALPENA	35	0	1.9	-0.3	PORTLAND	47	1	9.8	4.6
AZ PRESCOTT	45	1	1.8	0.4	MI DETROIT	38	-1	2.5	0.2	SALEM	45	-1	12.8	7.0
AZ TUCSON	58	-1	0.5	-0.2	MI FLINT	39	1	2.8	0.5	PA ALLENTOWN	43	1	1.6	-2.1
AZ WINSLOW	45	2	0.3	-0.1	MI GRAND RAPIDS	40	2	2.9	-0.1	ERIE	42	2	3.5	-0.2
AZ YUMA	63	-1	0.7	0.5	MI Houghton Lake	35	1	2.0	-0.3	HARRISBURG	44	0	3.8	0.6
AR FORT SMITH	50	0	7.3	3.8	MI LANSING	38	-1	2.6	0.2	PHILADELPHIA	44	-1	1.6	-1.8
AR LITTLE ROCK	50	-2	7.9	3.8	MI MARQUETTE	31	1	2.2	-0.7	PITTSBURGH	40	-1	3.1	0.8
CA BAKERSFIELD	55	-1	1.0	0.3	MI MUSKOGON	39	0	3.2	0.3	SCRANTON	41	0	2.6	-0.4
CA EUREKA	53	1	15.2	9.3	MI SAULT STE. MARI	32	-1	3.7	0.5	RI PROVIDENCE	43	0	2.0	-2.3
CA FRESNO	54	1	2.0	0.7	MN ALEXANDRIA	30	2	T	-1.1	SC CHARLESTON	54	-3	1.4	-0.8
CA LOS ANGELES	59	-2	1.2	-0.3	MN DULUTH	28	1	0.9	-0.8	COLUMBIA	50	-3	0.8	-1.8
CA RED BLUFF	50	-3	6.6	3.5	MN INT'L FALLS	25	1	0.9	-0.4	FLORENCE	50	-4	0.5	-1.7
CA SACRAMENTO	54	-1	3.6	1.3	MN MINNEAPOLIS	33	1	0.3	-1.0	GREENVILLE	48	-3	2.6	-0.6
CA SAN DIEGO	62	-1	2.3	1.2	MN ROCHESTER	33	-1	1.7	0.3	SD ABERDEEN	33	3	0.1	-0.5
CA SAN FRANCISCO	54	-1	6.2	3.8	MN ST CLOUD	31	1	1.2	-0.1	HURON	35	4	0.1	-0.6
CO DENVER	40	1	0.3	-0.5	MS GREENWOOD	52	-1	5.2	0.6	RAPID CITY	38	3	0.5	0.0
CO GRAND JUNCTION	41	2	0.4	-0.3	MS JACKSON	54	-1	6.5	2.2	SIoux FALLS	36	4	T	-0.9
CO PUEBLO	41	1	0.2	-0.3	MS MERIDIAN	54	1	4.8	1.2	TN CHATTANOOGA	46	-2	3.5	-0.8
CT BRIDGEPORT	45	-1	1.7	-2.1	MO COLUMBIA	43	-1	3.9	1.9	KNOXVILLE	46	-2	2.9	-0.9
CT HARTFORD	47	0	2.3	-1.8	MO KANSAS CITY	44	1	1.2	-0.4	MEMPHIS	51	0	5.7	1.5
DC WASHINGTON	46	-2	3.7	0.8	MO SAINT LOUIS	44	-1	5.5	3.0	NASHVILLE	46	-2	6.2	2.6
FL APALACHICOLA	58	-2	2.1	-0.8	MO SPRINGFIELD	45	1	4.7	1.8	TX ABILENE	53	0	2.1	0.8
FL DAYTONA BEACH	66	1	3.5	1.0	MT BILLINGS	38	3	0.8	0.0	AMARILLO	47	2	1.1	0.5
FL FT. MYERS	70	0	0.7	-0.7	MT GLASSGOW	30	1	0.2	-0.1	AUSTIN	59	0	1.9	-0.3
FL JACKSONVILLE	58	-2	3.3	1.4	MT GREAT FALLS	36	2	0.4	-0.3	BEAUMONT	61	1	6.4	2.1
FL KEY WEST	75	-1	1.2	-2.0	MT HAVRE	29	-1	0.4	0.0	BROWNSVILLE	69	1	T	-1.4
FL MIAMI	71	-1	4.0	1.4	MT HELENA	33	2	0.5	0.0	CORPUS CHRISTI	65	0	1.2	-0.4
FL ORLANDO	66	-2	2.1	0.3	MT KALISPELL	32	2	1.8	0.5	DEL RIO	59	0	0.9	0.1
FL TALLAHASSEE	58	-1	2.4	-1.0	MT MILES CITY	33	1	0.2	-0.4	EL PASO	52	1	0.5	0.2
FL TAMPA	65	-2	0.7	-1.2	MT MISSOULA	34	2	0.8	-0.1	FORT WORTH	56	0	3.0	1.2
FL WEST PALM BEACH	71	-1	14.1	11.0	NE GRAND ISLAND	39	2	1.4	0.6	GALVESTON	63	0	2.4	-0.9
GA ATLANTA	50	-1	2.1	-1.4	NE LINCOLN	40	3	0.2	-0.7	HOUSTON	60	0	2.3	-1.1
GA AUGUSTA	52	-1	0.7	-1.4	NE NORFOLK	39	3	1.6	0.9	LUBBOCK	49	1	1.9	1.3
GA MACON	54	-1	1.5	-0.9	NE NORTH PLATTE	37	3	0.7	0.1	MIDLAND	51	-1	2.3	1.7
GA SAVANNAH	56	-2	3.2	1.2	NE OMAHA	40	3	0.8	-0.3	SAN ANGELO	53	-1	1.1	0.1
HI HILO	74	0	18.1	3.5	NE SCOTTSBLUFF	38	2	0.3	-0.3	SAN ANTONIO	59	-1	2.9	0.6
HI HONOLULU	79	3	3.4	0.2	NE VALENTINE	36	2	0.6	0.2	VICTORIA	63	1	2.2	-0.1
HI KAHULUI	79	4	1.2	-1.1	NV ELKO	38	3	1.4	0.6	WACO	56	-1	3.1	0.8
HI LIHUE	78	2	9.2	3.7	NV ELY	34	1	1.0	0.4	WICHITA FALLS	52	0	3.3	1.9
ID BOISE	39	-1	2.2	0.9	NV LAS VEGAS	53	-1	1.0	0.4	UT BLANDING	39	1	0.5	-0.4
ID LEWISTON	42	2	0.7	-0.5	NV RENO	40	0	1.7	1.1	CEDAR CITY	41	2	0.2	-0.7
ID POCATELLO	35	0	1.0	0.1	NV WINNEMUCCA	38	1	1.6	0.8	MILFORD	37	0	0.5	-0.2
IL CAIRO	46	-3	4.3	0.3	NH CONCORD	38	1	2.8	-0.9	SALT LAKE CITY	43	4	1.5	0.2
IL CHICAGO	38	-1	2.7	0.7	NJ ATLANTIC CITY	45	-1	3.1	-0.7	VT BURLINGTON	38	2	3.1	0.3
IL MOLINE	39	1	2.9	1.0	NM ALBUQUERQUE	44	0	0.6	0.3	VA NORFOLK	50	-2	2.7	-0.2
IL PEORIA	40	1	4.0	2.0	NM CLOVIS	46	0	1.5	1.1	RICHMOND	46	-2	3.3	0.1
IL QUINCY	42	1	1.8	-0.3	NM ROSWELL	49	0	1.6	1.3	ROANOKE	46	-1	2.7	0.1
IL ROCKFORD	37	-1	3.4	1.5	NY ALBANY	40	1	2.2	-0.9	COLVILLE	36	2	5.2	3.1
IL SPRINGFIELD	42	0	4.4	2.5	NY BINGHAMTON	38	1	3.5	0.5	QUILLAYTUE	44	0	14.8	0.8
IN EVANSVILLE	43	-1	5.0	1.6	NY BUFFALO	39	-1	2.7	-0.9	SEATTLE-TACOMA	45	0	7.9	2.3
IN FORT WAYNE	41	2	2.9	0.4	NY NEW YORK	46	-1	3.1	-0.7	SPOKANE	36	1	4.1	2.0
IN INDIANAPOLIS	43	1	5.5	2.4	NY ROCHESTER	40	0	1.5	-1.2	WALLA WALLA	43	0	3.8	1.9
IN SOUTH BEND	41	1	2.7	-0.1	NY SYRACUSE	38	-2	3.5	0.1	YAKIMA	37	-1	2.6	1.6
IA DES MOINES	40	1	1.2	-0.3	NC ASHEVILLE	43	-3	2.6	-0.7	WV BECKLEY	42	0	4.1	1.2
IA DUBUQUE	37	1	1.8	-0.7	NC CHARLOTTE	48	-3	2.1	-0.8	CHARLESTON	44	-1	4.7	1.8
IA SIOUX CITY	38	2	1.9	0.9	NC GREENSBORO	45	-3	1.9	-0.8	HUNTINGTON	43	-2	3.8	1.0
IA WATERLOO	37	2	1.5	-0.1	NC HATTERAS	55	-2	5.0	0.1	PARKERSBURG	44	0	4.1	1.5
KS CONCORDIA	43	2	0.2	-0.8	NC NEW BERN	52	-2	1.7	-1.4	WI GREEN BAY	35	1	2.6	0.8
KS DODGE CITY	46	4	0.1	-0.7	NC RALEIGH	47	-3	1.6	-1.2	LA CROSSE	35	0	1.4	-0.1
KS GOODLAND	41	3	0.3	-0.3	ND WILMINGTON	55	0	1.1	-2.1	MADISON	34	-1	1.9	0.1
KS TOPEKA	46	3	0.7	-1.0	ND BISMARCK	30	2	0.7	0.2	MILWAUKEE	38	1	3.8	1.8
KS WICHITA	46	2	1.4	0.0	ND FARGO	30	2	0.1	-0.7	WASAU	32	1	1.7	-0.1
KY BOWLING GREEN	44	-2	7.4	3.5	ND GRAND FORKS	27	2	0.2	-0.6	WY CASPER	35	2	0.7	0.1
KY JACKSON	44	-1	5.6	2.4	ND WILLISTON	27	-1	0.3	-0.2	CHEYENNE	35	1	0.1	-0.4
KY LEXINGTON	42	-3	5.3	2.0	OH AKRON-CANTON	40	-1	3.4	0.9	LANDER	33	2	0.5	-0.3
KY LOUISVILLE	44	-2	5.9	2.4	OH CINCINNATI	42	-1	6.0	2.8	SHERIDAN	33	1	0.5	-0.3
LA ALEXANDRIA	57	0	6.7	1.9	OH CLEVELAND	41	-1	4.1	1.3	FR SAN JUAN	79	-1	5.7	0.1

Based on 1951-80 normals.

Heating Degree Days (Base 65° F.)

November 1984

ALA. Birmingham . . .	431	MAINE, Caribou . . .	940	OKLA. Okla. City . . .	462
Mobile	271	Portland	767	Tulsa	438
Montgomery	318	MD. Baltimore	625	OREG. Astoria	542
ALASKA, Anchorage . . .	1353	MASS. Boston	605	Burns	942
Barrow	2197	Chatham	576	Medford	608
Fairbanks	1950	MICH. Alpena	884	Pendleton	692
Nome	1463	Detroit	785	Portland	539
ARIZ. Flagstaff	884	Flint	761	Salem	610
Phoenix	126	Grand Rapids	735	PA. Allentown	642
Tucson	221	Houghton Lake	881	Erie	673
Winslow	580	Lansing	798	Harrisburg	627
Yuma	92	Marquette	1028	Philadelphia	613
ARK. Fort Smith	461	S. Ste. Marie	990	Pittsburgh	734
Little Rock	456	MINN. Duluth	1093	Scranton	719
CALIF. Bakersfield . . .	307	Internatl Falls	1176	R.I. Providence	637
Eureka	378	Minneapolis	940	S.C. Charleston	337
Fresno	335	Rochester	950	Columbia	444
Los Angeles	182	St. Cloud	1021	Greenville	508
Red Bluff	460	MISS. Jackson	350	S. DAK. Aberdeen	967
Stockton	383	Meridian	323	Huron	883
San Diego	104	MO. Columbia	646	Rapid City	820
San Francisco	328	Kansas City	624	Sioux Falls	857
COLO. Denver	753	St. Louis	616	TENN. Chattanooga	550
Grand Junction	719	Springfield	584	Knoxville	556
Pueblo	713	MONT. Billings	812	Memphis	423
CONN. Bridgeport	593	Glasgow	1043	Nashville	562
Hartford	698	Great Falls	879	TEX. Abilene	375
D.C. Washington	561	Havre	1073	Amarillo	531
FLA. Apalachicola	221	Helena	954	Austin	221
Ft. Myers	15	Kalispell	988	Beaumont	176
Jacksonville	235	Miles City	961	Brownsville	51
Key West	0	Missoula	926	Corpus Christi	106
Miami	9	NEBR. Grand Island	763	Del Rio	214
Orlando	68	Lincoln	737	El Paso	404
W. Palm Beach	10	Norfolk	775	Fort Worth	322
Tallahassee	254	North Platte	829	Galveston	120
Tampa	87	Omaha	726	Houston	204
GA. Atlanta	426	Valentine	879	Lubbock	460
Augusta	382	NEV. Ely	917	Midland	426
Macon	327	Las Vegas	363	San Angelo	365
Savannah	299	Reno	753	San Antonio	228
IDAHO, Boise	771	Winnemucca	794	Victoria	139
Lewiston	679	N.H. Concord	792	Waco	293
Pocatello	897	N.J. Atlantic City	604	Wichita Falls	400
ILL. Cairo	546	N. MEX. Albuquerque	631	UTAH, Milford	842
Chicago	807	N.Y. Albany	737	Salt Lake City	662
Moline	761	Binghamton	795	VT. Burlington	792
Peoria	734	Buffalo	774	VA. Lynchburg	580
Rockford	833	New York	552	Norfolk	450
Springfield	691	Rochester	724	Richmond	546
IND. Evansville	638	Syracuse	798	Roanoke	568
Fort Wayne	699	N.C. Asheville	648	WASH. Colville	-
Indianapolis	653	Charlotte	517	Quillayute	637
South Bend	714	Greensboro	580	Seattle-Tacoma	604
IOWA, Des Moines	759	Hatteras	296	Spokane	870
Dubuque	824	Raleigh	530	Walla Walla	638
Soux City	805	Wilmington	306	Yakima	860
KANS. Concordia	656	N. DAK. Bismarck	1033	W. VA. Beckley	698
Dodge City	570	Fargo	1053	Charleston	613
Goodland	712	Williston	1128	Huntington	660
Topeka	578	OHIO. Akron-Canton	740	WIS. Green Bay	899
Wichita	576	Cincinnati	684	Madison	927
KY. Lexington	689	Cleveland	716	Milwaukee	810
Louisville	623	Columbus	727	WYO. Casper	899
LA. Baton Rouge	248	Dayton	756	Cheyenne	893
Lake Charles	234	Toledo	782	Lander	977
New Orleans	214	Youngstown	763	Sheridan	953
Shreveport	286				

Based on 1951-80 normals.

National Agricultural Summary

December 3 to 9

HIGHLIGHTS: Midweek light snow provided beneficial moisture to winter wheat from the Texas High Plains through much of the eastern Corn Belt. Early-week precipitation limited cotton and soybean harvesting across the Delta States and Southeast; the crop quality continued to deteriorate in some areas. Muddy conditions would not allow completion of winter wheat seeding, and some intended acreage may not be planted in portions of the Ohio and Tennessee Valleys. In much of the West, precipitation was limited, but abnormally cold temperatures stressed livestock in the northern Rocky Mountains. Freezing temperatures defoliated cotton from Texas to Arkansas, allowing increased harvesting. Soil moisture was adequate to surplus throughout most of the eastern half of the Nation after recent rain, snow, and freezing rain. Precipitation limited fieldwork to 2-3 days in the southern States.

Winter wheat generally rated fair to mostly good. Stands emerged on 95% of the seeded acreage, equaling the average. Cotton picking crept to 76% completion in the 14 major producing States, compared with the 86% average. Wet fields delayed picking in most eastern areas. Soybean combining reached 94% completion in the 18 major producing States, 3 points behind last year and 4 points behind average. Rain, snow, and abnormally cold temperatures stressed livestock across much of the Nation. Supplemental feeding increased in most regions. Pastures and ranges across the South rated mostly fair to good.

SMALL GRAINS: Rain and sleet virtually halted winter wheat seeding across the South. Producers may not seed some intended acreage in the Ohio and Tennessee Valleys because of muddy conditions. Snow provided limited protection to wheat from sub-freezing temperatures across much of the northern Plains, but provided some moisture to stands from the Texas High Plains through the eastern Corn Belt. Wheat stands rated fair to mostly good across the major producing areas. Stands emerged on 95% of the acreage in the 15 major producing States, compared with 96% last year and equal to the average. Kansas wheat emerged on 99% of the acreage, equaling the average. Stands rated fair to mostly good, but cold temperatures limited growth. Cold weather allowed little wheat growth in Oklahoma. Heavy cheat grass infestations may cause some northern wheat producers to reseed acreage to oats next spring. Stands were in fair to mostly good condition with 90% of the acreage emerged. Texas wheat seeding was virtually complete. Stands showed good growth and rated fair to mostly good.

COTTON: In the 14 major producing States, 76% of the cotton acreage was harvested, trailing last year's 91% and the 86% average. Picking lagged in all States except Arizona and California. Progress was 18 points slower than normal in Texas, 13 points in Tennessee, and 9 points in Mississippi. Muddy conditions further delayed harvesting in the Delta region. Freezing temperatures further defoliated the Texas and Oklahoma crop, allowing increased harvesting as weather conditions permitted.

SOYBEANS: Harvesting reached 94% completion in the 18 major producing States, 3 points behind last year and 4 points slower than normal. Harvesting continued to lag in 10 of the major States--as much

as 21 points less than average in Tennessee, 10 points in Mississippi, and 9 points in Kentucky. Rain, freezing rain, and snow contributed to the continued muddy conditions that hampered combining. In contrast, harvesting was 12 points ahead of schedule in South Carolina and 7 points ahead in North Carolina.

OTHER CROPS: Corn harvesting neared completion in most regions. Ohio and Pennsylvania harvests were 90 and 95% finished, respectively.

Fair weather across the southern Plains allowed the completion of the sorghum harvest.

Peanut harvesting was slow in Texas, reaching only 91% completion, 4 points slower than normal. Many dryland fields were being baled for hay due to poor yield prospects.

Tobacco growers continued marketing, stripping, and preparing plant beds for next spring's crop. Kentucky burley quality continued good. Virginia's burley market was very active. Maryland's tobacco stripping advanced to 55% completion.

Sugarcane harvesting was in full swing in Florida, Louisiana, and Texas. Progress was generally on schedule. Texas sugar yields were rising.

FRUITS AND NUTS: The California Coachella Valley date harvest neared completion. Navel orange picking continued with very good quality and demand. Lemon harvesting continued in the San Joaquin Valley; quality was good but sizes were small. The desert grapefruit, lemon, and tangerine harvests continued with good quality. Arizona producers picked lemons, grapefruit, Navel oranges, sweet oranges, and tangerines in the Salt River Valley and Yuma area. Cold temperatures beneficially retarded Florida citrus tree growth and further aided fruit coloring. Fruit picking was active; most processing plants are now in operation.

Pecan harvesting was 79% complete in Georgia, 78% in Mississippi, 75% in Texas, and 74% finished in Louisiana.

VEGETABLES: Shipments of most Florida leafy crops gained from the previous week. Most tender crops remained steady or declined. Steady supplies of good quality tomatoes were available from southern areas. Strawberry picking began in the Hillsborough-Manatee, Bradford County area. Size was mostly medium to large and quality was good. Cold, wet weather slowed the Texas Rio Grande Valley cabbage, broccoli, and bell pepper harvests. Tomato picking declined in the San Antonio-Winter Garden area but cabbage, carrot, cauliflower, beet, and broccoli harvests continue active. Arizona's lettuce packing declined. Salt River Valley and Yuma area producers moved increased volumes of a wide variety of crops. Wet fields limited northern California fieldwork. Producers harvested light volumes of artichokes and lettuce, and moderate supplies of broccoli, carrots, and celery. San Joaquin Valley growers planted garlic and dehydrator onions, and prepared tomato beds.

PASTURES AND LIVESTOCK: Pasture growth was limited by cool temperatures, and rated mostly fair to good across the South. Livestock grazed wheat acreage across the southern Plains. Livestock were stressed by cold, wet weather but continued in generally good condition with supplemental feeding in most regions.

CROP PROGRESS

FOR WEEK ENDING DEC 9



DECEMBER CROP PRODUCTION HIGHLIGHTS

ALL COTTON production is forecast at 13.4 million bales, 72 percent above 1983 and nearly 1 percent above November 1. The 90 percent confidence interval for this production forecast is 13.0 million to 13.7 million bales.

DRY EDIBLE BEAN production is forecast at 20.5 million cwt, 32 percent above 1983.

BURLEY TOBACCO production is forecast at 740 million pounds, 54 percent above 1983.

ORANGE production (excluding Texas) is forecast at 181 million boxes, down 2 percent from October 1, up 8 percent from last season, but 18 percent less than 1982-83.

GRAPEFRUIT production, excluding Texas and California's "other areas" crop, is 51.8 million boxes, unchanged from November 1, and 12 percent more than last season.

LEMON production is forecast at 27.5 million boxes, unchanged from November 1, but 29 percent above last season.

 * Additional data available in the USDA Crop Pro-
 * duction Report issued December 10, 1984. *
 * *
 * Requests for a subscription order form covering
 * all available reports should be directed to Crop
 * Reporting Board Publications, Room 5829 - South
 * Building, USDA, Washington, D.C. 20250 (Phone
 * (202) 447-4021).

corn

	% EMERGED		% HARVESTED	
	1984	1983	1984	1983
CALIF	40	55	99	99
COLO	95	95	100	100
GA	97	95	97	100
ILL	100	100	94	100
IND	97	100	100	99
IOWA	93	100	100	100
KANS	99	95	99	99
MO	78	92	96	100
MONT	100	100	99	99
NEBR	100	100	97	100
OHIO	100	100	100	100
OKLA	90	95	100	100
OREG	94	98	90	100
S DAK	100	100	95	100
TEX	95	95	100	100
WASH	100	100	96	100
15 STATES	95	96	98	100

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

winter wheat

corn

	% HARVESTED	
	1984	1983
COLO	99	99
GA	100	100
ILL	97	100
IND	94	100
IOWA	100	99
KANS	100	100
KY	100	100
MICH	96	99
MINN	99	99
MO	97	98
NEBR	100	100
N C	100	100
OHIO	90	100
PA	95	100
S DAK	100	100
VA	96	99
WIS	98	100
17 STATES	98	100

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

soybeans

	% HARVESTED	
	1984	1983
ALA	94	98
ARK	90	98
GA	92	88
ILL	94	100
IND	96	100
IOWA	100	100
KANS	98	95
KY	90	99
LA	98	98
MICH	100	100
MINN	99	99
MISS	86	94
MO	94	98
NEBR	100	100
N C	88	77
OHIO	98	100
S C	88	70
TENN	77	98
18 STATES	94	97

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

cotton

	% HARVESTED	
	1984	1983
ALA	95	98
ARIZ	96	98
ARK	92	99
CALIF	98	96
GA	96	94
LA	92	99
MISS	89	99
MO	93	100
N MEX	80	73
N C	94	99
OKLA	55	70
S C	98	100
TENN	82	100
TEX	60	86
14 STATES	76	91

THESE 14 STATES PRODUCED 99% OF THE 1983 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 were about 6 to 120 below normal in the north and 5 to 90 below normal in the south and central. Rainfall 0.32 to 3.09 in.

Fieldwork: 2.9 days. Soybeans harvested 94%, 98% 1983, 98% average. Cotton harvested 95%, 98% 1983, 98% average. Wheat seeded 94%, 91% 1983, 93% average. Activities: Harvesting cotton, soybeans, pecans and fall vegetables; planting small grains and winter grazing; applying lime; and routine care of livestock and poultry. Conditions: Soybeans and pastures fair; cotton, wheat, and livestock fair to good.

ARIZONA: Cold storm system moved across State 3rd and 4th spreading precipitation over all sections. Snow level reached down to 6,000 ft. in north, 5,000 ft. in southeast. Snowfall amounts ranged from 1 to 8 in. north, 1 to 5 in southeast. Weaker disturbance on 8th spread precipitation across State. Total moisture amounts mostly 0.25 and 0.75 in. locally over 1.00 in. Average temperatures varied from 40 below normal to 40 above.

Cotton 96% picked, 98% last year, 87% average. Second pick well advanced. Considerable acreage final picked, stalks shredded. Rains slowed or delayed harvest most areas early in week. Seedbed preparation for wheat, barley continued as weather permitted. Seeding started, 10% complete. Lettuce packing slowing down, demand weaker. Mixed vegetables moving in volume in Salt River Valley, Yuma areas. Lemons, grapefruit, Navel, sweet oranges harvested in Salt River Valley. Grapefruit, lemons, Navel oranges, tangerines picked in Yuma area. Volumes normal.

ARKANSAS: Week was cold and rainy. Temperatures 4 to 90 below normal. High 710, low 40. Rainfall 1.40 in. to none.

Days favorable for fieldwork: 3.1. Crop progress slow. Soil moisture surplus. Cotton fair to poor; harvested 92%, 99% 1983, 98% average. Soybeans fair; harvested 90%, 98% 1983 and average. Wheat and oats planted, each 95%, 1983 and normal virtually finished. Pastures average grazing. Livestock good condition.

CALIFORNIA: The week was characterized by a decrease in the relentless storm activity of the previous few weeks. Consequently precipitation amounts and average temperatures returned to more reasonable levels. Rainfall was recorded at most locations but none of the totals for the week exceeded 1.00 in. Temperature averages for all of the zones were within 10 of normal.

Fieldwork stalled due to wet weather. Some small grains were planted, fertilized. Winter wheat emerged 40%, 55% last year, 50% average; some where at stands suffering from poor drainage. Cotton harvested 98%, 95% last year, 96% average. Plow-down slowed by weather. Young sugarbeet fields being thinned. Weed, gopher control active in alfalfa. Milo harvest still incomplete. Avocado harvest continues good quality but light demand. Coachella Valley date harvest near completion. Deciduous fruit, vine, and nut plantings being pruned. Spraying for shothole and curly leaf in peaches. Navel orange harvest continues very good quality, excellent demand. Between 15 to 20% of the crop has been harvested. Lemon harvest in San Joaquin Valley continues good quality, small

sizes. The desert grapefruit, lemon, and tangerine harvests continue good quality. Wet fields kept fieldwork at minimum northern California. Artichoke harvest light. Broccoli harvest moderate central coast, San Joaquin Valley, south coast, Imperial Valley. Carrot volume moderate central California, increasing slowly desert. Celery harvest fairly slow central coast, increasing south coast. Lettuce harvest very light central California, increasing Palo Verde Valley. Spring lettuce emerging San Joaquin Valley. Planting garlic, dehydrator onions San Joaquin Valley. Potato movement active from north State storage. Preparation tomato beds San Joaquin Valley. Foothill ranges, valley pastures continue improving with wet, warm weather. Supplemental feeding some northern districts. Lambing nearly complete. Calving continues active. Sheep grazing alfalfa stubble.

COLORADO: Weather over the State continued dry but cool. Average temperatures were from 2 to 100 below normal over the eastern part of the State with normal temperatures for the rest. Precipitation was light; high, 0.13 in. and traces elsewhere.

Winter wheat 95% emerged; 1983 and average, 95%. Corn harvest 99% complete; 1983 and average, 99%.

FLORIDA: Very warm weather early week followed by very cold at weekend. Freezing temperatures morning of 7th, north frost, freezing north, central, mornings of 8th, 9th. Minimums reached 20's north, and upper 20's-30's central, 40's extreme south. Some record lows 8th, 9th. Spotty, light showers across State through midweek but dry at weekend.

Soil moisture adequate except isolated parts north, and central areas. Soybean, cotton harvest nearing completion. Hay making continues few central, southern areas. Sugarcane harvest full swing. Small grain crops late; some fields not planted due to drought conditions early fall. Heavy late week frosts extending into lower central Peninsula areas, further browned permanent pastures. Small grain pasture growth also slowed by cold, inadequate moisture some Panhandle, central west coast sections. Supplemental feeding active. Pastures rated mostly good, extreme lower southern Peninsula, generally poor to fair elsewhere. Condition of cattle in Panhandle fair; other areas mostly good. No damage to citrus from weekend cold-the coldest this season to date in citrus growing areas. The cold was beneficial in retarding tree growth and further aided fruit coloring. Fruit harvest continues active; most processing plants now operating. Early week was warm, sunny in vegetable areas. A late week cold front brought cool temperatures, clear skies. Daytime readings mostly in 70's, 80's. Nighttime lows mostly upper 30's to mid 40's. Shipments of most leafy crops gained from previous week. Most tender crops remained steady or declined. Packout of some crops reduced by rain, wind damage earlier. Cabbage, carrots, cauliflower, Chinese cabbage, lettuce supplies gained seasonally. Steady supplies good quality tomatoes available, southwest, southeast. Strawberry harvest underway Hillsborough-Manatee, Bradford County areas. Size mostly medium to large. Quality generally good.

GEORGIA: Average temperatures well below normal for season ranging from 4 to 6° below normal in north and 4 to 7° below normal in central and south. Total precipitation mostly over 1.00 in. north and central but under 0.33 in. in southeast and extreme south. Rain fell during two days at most stations with totals above normal except in extreme northwest, extreme south and southeast.

Soil moisture 26% surplus, 63% adequate and 10% short. Average days suitable for fieldwork: 3.1. Main activities: Harvesting pecans, soybeans, cotton, planting small grains and livestock care. Cotton 96% harvested, 94% last year, 97% average; condition 16% excellent, 48% good, 30% fair, 5% poor. Soybeans 92% harvested, 88% last year, 91% average; condition 9% good, 56% fair, 27% poor, 8% very poor. Pecans 79% harvested, 74% last year, 82% average; condition 17% good, 53% fair, 27% poor. Wheat 82% planted, 86% last year, 90% average. Rye 94% planted, 96% last year, 95% average. Other small grains 92% planted, 94% last year, 95% average. Grain sorghum condition 31% good, 52% fair, 10% poor, 7% very poor. Pasture condition 23% good, 57% fair, 14% poor, 6% very poor. Cattle condition 52% good and 44% fair. Hogs 65% good, 32% fair.

HAWAII: Weather cool and overcast with intermittent showers, occasional sunny periods.

High pressure area north of the Islands brought strong gusty tradewinds by week's end causing some leaf stripping in orchard crops and minor damage in vegetable crops. Rains continued to replenish soil moisture benefitting sugarcane and other agriculture. Banana, papaya production declining seasonally. Tomato, cucumber, and cabbage production increasing.

IDAHO: A strong high pressure system dominated the weather picture for most of the week bringing fair skies and cool temperatures to the State. Precipitation amounts were below normal statewide. Temperatures ranged from 6 to 16° below normal.

Freezing temperatures across most of the State prevented fieldwork. Major farm activity included caring of livestock, bookkeeping, and general maintenance. Livestock were in good condition with adequate supplies of feed.

ILLINOIS: Temperatures 8 to 10° below normal. Precipitation none to 1.13 in., spotty.

Corn harvested 97%, last year 100%, average 100%. Soybeans harvested 94%, last year 100%, average 100%. Winter wheat emerged 97%, last year 100%, average 100%.

INDIANA: Temperatures 5 to 7° below normal. Lows in single digit to highs in 40's. Precipitation 0.25 to 0.50 in. below normal. Snow 5 to 7 in. south to 1 to 2 in. elsewhere.

Fieldwork averaged 3.1 days. Topsoil moisture 59% adequate, 41% surplus. Subsoil moisture 2% short, 71% adequate, 27% surplus. Corn 94% harvested, 1983 100%, average 99%. Corn moisture 21%. Soybeans 96% combined, 1983 100%, average 100%. Soybean moisture 15%. Wheat land 93% seeded, 1983 100%, average 100%. Wheat 93% emerged, 1983 100%, average 100%. Wheat condition 2% poor, 36% fair, 54% good, 8% excellent. Spring cropland 43% tilled, average 55%. Tobacco 50% processed for sale. Pasture condition 37% poor, 44% fair, 19% good.

IOWA: Temperatures averaged from 8° below normal in northeast to slightly above normal in west. Precipitation less than normal in most areas. Corn acreage harvested 100% complete;

last year 100%; normal 99%. Soybean acreage 100% complete; 100% last year; 100% normal. The availability of grain storage 43% surplus, 56% adequate, and 1% short. Grain movement 50% none to light, 43% average and 7% heavy. Soil moisture availability for the month of November 7% short, 90% adequate, and 3% surplus. Fall tillage performed on 60% of cropland, the same as last year, 49% of acreage received fertilizer applications, down from the 55% completed in fall of 1983. Livestock mostly good condition. Gains reported to be above average. Availability of hay and roughage for livestock feed 18% surplus and 82% adequate. Quality of hay and roughage 57% good and 43% fair.

KANSAS: Precipitation averaged little or none northwest and 0.25 in. southeast and south central. Temperatures averaged 33 to 35° central and east 37 to 39° west. Readings were 2 to 4° below normal east and south central, 3 to 5° above normal west.

Corn acreage harvested 100%, last year 100%, average 100%. Soybeans harvested 98%, last year 95%, average 99%. Winter wheat emerged 99%, last year 95%, average 99%. Field working conditions generally favorable west, limited progress east.

KENTUCKY: First part of week was mild. Main weather occurrence was snow on 5th and 6th associated with low pressure center that moved over Southeast U.S. Snowfall amounts averaged from 1 in. in south central to around 7 in. in northeast. Bitter cold conditions moved in on 6th. Average temperatures ranged from 5 to 10° below normal. Precipitation totals averaged from around 0.50 to 1.00 in.

Late harvest active until snow at midweek. Corn harvest 96% complete, 100% last year and 99% average. Soybean harvest 90% complete, 99% last year and average. Snow caused some damage to unharvested soybeans, but fortunately snow was not wet; however, melting snow will increase mud in fields. Burley quality continues good with prices averaging over \$188 per cwt. For belt 26% of season sales have gone to pool. Snow probably ended fall seeding of wheat and acreage will be less than farmers intended. Snow and cold caused stress to livestock and necessitated heavy supplemental feeding.

LOUISIANA: Rainfall amounts ranged from 0.50 to 3.81 in. Average temperatures ranged from 5 to 8° below normal. High 80°, low 16°.

Soil moisture generally surplus; few parishes adequate. Days suitable for fieldwork: 2.5. Activities included harvesting cotton, soybeans, sugarcane, and pecans, planting winter wheat, and caring for livestock. Cotton harvest 92% 1984, 99% 1983, 98% average. Soybean harvest 98% 1984, 98% 1983, 98% average. Winter wheat planting 84% 1984, 96% 1983, 95% average; emerged 78% 1984, 93% 1983, 89% average; condition fair. Sugarcane harvested 82% 1984, 86% 1983, 85% average. Vegetable condition fair. Pecans harvested 74% 1984, 67% 1983, 76% average. Pasture fair condition. Livestock fair to good condition.

MARYLAND AND DELAWARE: Maryland: The week was cool, and wet. Temperatures averaged 1 to 8° below normal, ranging from near normal to 3° below normal. High temperatures were mostly in the mid 50's while lows were mostly in the low 20's. Precipitation averaged 1.07 in. Precipitation totals ranged from 0.30 in. at Hagerstown to 1.56 in. at Snow Hill.

Soybean harvest was completed during the week, about one week behind the normal pace. Tobacco stripping advanced to 55% complete. Last week

45% of the crop had been stripped.

Delaware: The weather for the week was cool, and wet. Temperatures averaged 1 to 2° below normal. High temperatures were in the mid 50's to mid 60's and low temperatures were in the low to mid 20's. Precipitation averaged 1.13 in. Precipitation totals ranged from 0.83 in. at Wilmington to 1.37 in. at Dover.

Harvest of major crop was completed the previous week.

MICHIGAN: Cool temperatures prevailed across the State with average temperature 3° below normal. Precipitation moderate across the lower Peninsula. Sault St. Marie had a record 12.1 in. of snow in 24 hours.

Harvest operation slowed with a few fields of corn remaining for harvest.

MINNESOTA: The week began very cold but ended with temperatures well above normal. Temperatures averaged 1 to 8° below normal. High: 54°, low: 18°. Precipitation averaged 0.14 to 0.24 in. below normal. Greatest weekly total: 0.15 in. Snowfall averaged a trace to 0.80 in. Snow depth at week end averaged zero for the western 1/3 of the State and central, and 1 to 5 in. elsewhere.

Corn harvested 99%, 1983 99%, normal 99%. Soybeans harvested 99%, 1983 99%, normal 99%.

MISSISSIPPI: Rain fell the first half of the week while the second half was dry. Temperatures were about 6° below normal in the northern half of the State. Extremes: 11 and 78°. Greatest single day rainfall was 3.05 in.

Soil moisture surplus. Fieldwork: 1.4 days suitable, 1.8 1983, 2.8 average. Cotton and soybean harvest still behind due to excess rain. Cotton 89% harvested, 99% 1983, 98% average. Soybeans 86% harvested, 94% 1983, 96% average. Pecan crop 78% harvested, 76% 1983, 83% average. Wheat condition fair; 67% planted, 95% 1983 and average. Livestock in fair to good condition. Pasture in fair condition.

MISSOURI: Temperatures averaged 7° below normal. Snow at midweek of 3 to 8 in. across southern portion of State. Average precipitation less than 0.25 in.

Days suitable for fieldwork: 2.6. Soybeans harvested 94%, 98% last year, 99% normal. Corn harvested 97%, 100% last year, 98% normal. Grain sorghum harvested 96%, 99% last year, 97% normal. Cotton harvested 93%, 100% last year, 100% normal. Winter wheat planted 93%, 100% last year, 98% normal. Winter wheat emerged 78%, 92% last year, 92% normal. Condition of pasture 3% excellent, 39% good, 54% fair, 4% poor. Topsoil moisture supply 39% surplus, 58% adequate, 3% short.

MONTANA: Very cold at first, warming to above normal temperatures most areas by end of week. Only very light scattered precipitation through the period. Precipitation mainly confined to west of the Divide.

Winter wheat condition mostly fair, good south and west. Wind damage light despite only fair snow cover. Livestock generally good condition, about 65% of cattle and 70% of sheep receiving supplemental feed. Grazing difficult north and west, open elsewhere. Stockwater supplies short north central and northeast, but adequate elsewhere.

NEBRASKA: Precipitation ranged from traces to 0.20 in. east. Temperatures averaged 1° below normal to 3° above normal statewide.

Soybean harvest 100%, 100% last year, 100%

average. Corn harvest 100%, 100% last year, 100% average. Wheat emerged 100%, 100% last year, 100% average.

NEVADA: Weather pattern the past week was rather quiescence. Precipitation quite light over State except southern area end of week. Amounts southern areas ranged from 0.25 to 1.00 in., few hundredths of an inch other areas. Temperatures averaged very near normal most locations. Departures from 1° above to 3° below normal with one exception. The far north and northeast valleys under persistent cold inversion averaged 7° below normal.

Major farm and ranch activities limited mostly to caring for livestock.

NEW ENGLAND: Temperatures averaged 1 to 3° below normal over northern areas. Southern regional temperatures were near normal. Two storms brought substantial precipitation, falling mainly as snow over the northern areas, and as rain or mixed snow and rain over southern areas. Water equivalent precipitation for the week averaged from 1.25 to 1.50 in. for Mass., R.I. received 1.40 in., Conn. had 1.10 to 1.30 in., Vt. had 1.25 to 1.50 in., Maine had 1.20 to 1.80 in. Greatest precipitation fell along the coast. N.H. received 1.50 to 2.25 in., greatest across the north.

Precipitation limited outdoor activities.

NEW JERSEY: Temperatures were below normal north, and near normal south and coastal, averaging 30° north, 36° south and 39° coastal. Extremes were 3 and 62°. Precipitation was above normal, averaging 1.51 in. north, 1.16 in. south and 1.21 in. coastal. The heaviest 24-hour total reported was 1.60 in. on the 5th and 6th. Heaviest 24-hour snowfall was 2 in. on the 5th and 6th.

Farmers caring for livestock, pruning fruit, spreading ground cover, selling Christmas trees and tending to farm maintenance chores.

NEW MEXICO: Average temperatures little below normal in south. Minimum temperature: -5° central valley and highlands. Maximum temperature: 71° northeastern Plains. Scattered precipitation over south central and southwestern mountains. Precipitation totals between 0.50 and 1.00 in.

Soil moisture supplies short to adequate. Cotton poor to good; harvest continued. Barley fair to excellent; 30% being grazed. Irrigated wheat good to excellent, dryland fair to good; 70% being grazed. Irrigated dryland grain sorghum fair to good; harvest virtually completed. Pecans good to excellent; harvest continued. Red chile good; harvest continued. Cattle, sheep good to excellent; calves delivered with good weights; ewes with good wool and flesh. Ranges fair to good. Cotton harvested: 80%, last year 73%, average 82%.

NEW YORK: A cold front crossed the State on 3rd, bringing rain to southern sections and snow to the north. The first major winter storm struck late 5th and continued into mid-day on 6th. Most of the State received heavy snow while the extreme southeastern section got more rain. Mild conditions began the week but very cold Canadian air settled over the area on 6th and 7th.

Fall harvest virtually complete with the exception of some grain corn that remains to be harvested. Some fall plowing still being done as weather permits. Other farming activities include tending livestock and machinery maintenance.

NORTH CAROLINA: Temperatures averaged 5° above to 5° below normal across the State. Precipitation ranged from 0.40 to 2.46 in.

Soil moisture: 5% short, 75% adequate, 20% surplus. Days suitable for fieldwork: 3.1. Condition: Pasture 8% poor, 36% fair, 56% good. Wheat 1% poor, 22% fair, 77% good. Oats 2% poor, 18% fair, 79% good, 1% excellent. Barley 2% poor, 14% fair, 84% good. Rye 18% fair, 82% good. Harvest: Soybeans 88%, 1983 77%, average 81%. Cotton 94%, 1983 99%, average 94%. Farm feed supplies: Hay and roughage 93% adequate, 7% surplus. Feed grains 1% short, 97% adequate, 2% surplus. Major farm activities: Harvesting soybeans, cutting firewood, tending livestock, grading and marketing burley tobacco, preparing tobacco plant beds, plowing, picking cotton, pruning fruit trees, general farm and machinery maintenance.

NORTH DAKOTA: Cold temperatures early in week gradually warmed. However, the weekly temperatures ranged from 2 to 8° below normal with north central and northeast being the coldest. Temperatures ranged from 55° on 8th to -19° on 6th. Light precipitation occurred early in the week and was below normal across the State. Snow cover ranged from zero to 2 in.

Unusually warm temperatures statewide over weekend melted what snow cover existed on fall-seeded crops and alfalfa. Extreme temperatures variations a hardship on livestock, even though warmer temperatures always welcome.

OHIO: Temperatures 5 to 9° below normal. Extremes from single digits to mid-50's. Precipitation widespread but light, totals from 0.25 to 0.75 in. Snowfall totals averaged 3 to 7 in. Four-inch bare soil temperatures average mid-30's.

Corn harvested for grain 90% 1984, 100% 1983, 100% average. Soybeans harvested 98% 1984, 100% 1983, 100% average. Winter wheat emerged 100% 1984, 100% 1983, 100% average.

OKLAHOMA: Temperatures averaged 3° below normal Panhandle to 8° below normal central. Precipitation averaged 0.18 in. north central to 0.75 in. southeast.

Cold weather allowed little wheat growth. Heavy cheat infestations may cause some northern wheat producers to reseed acreage to oats next spring. Under 20% of wheat acreage grazed. Snowfall interrupted cotton harvesting. Wheat and livestock good to fair; cotton, fair condition. Wheat emerged: 90%, 95% 1983, 90% average. Cotton harvested: 55%, 70% 1983, 55% average.

OREGON: Coastal and southwestern valleys averaged 0.50 in. precipitation and experienced temperatures 3 to 5° below average. Less than 0.10 in. precipitation fell in the Willamette Valley and eastern parts of the Cascades. Bitter cold in the extreme northeast.

Winter wheat 94% emerged; last year and average 98%. Development behind normal, emergence slow due to cold. Some late vegetable harvest continues. Limited potato acreage still undug due to excessive rains. Pasture growth has been poor; some cattle being fed hay in the east. Livestock condition mostly good. Soil moisture adequate in east, surplus in west.

PENNSYLVANIA: Week began mild and wet, turned much colder at the end of the week with moderate amounts of snow and/or freezing rain, then became warmer again on the last day of the period. Statewide average temperature was 30°, 2° below normal. Average precipitation was 0.87 in., 0.15 in. more than normal. The

rain or snowfall was fairly evenly distributed across the State.

Moisture adequate to surplus. Activities: Harvesting grain corn and soybeans; baling corn fodder for bedding and feed. Soybean harvest virtually complete, same as last year. Corn for grain 95% harvested; last year and the average virtually complete.

PUERTO RICO: Island average rainfall 0.73 in. or 0.36 in. below normal. Highest weekly total 2.42 in. Highest 24-hour total 1.59 in. Temperature averaged about 78 to 76° on coasts and 72 to 74° interior divisions. Mean station temperature ranged from 78.9 to 65.4°. Extremes: 90 and 56°.

SOUTH CAROLINA: Week varied from warm and wet to sunny and colder than usual. Cloudy weather with occasion rain on 2nd through 5th. Colder air moved in on 5th and 6th. Temperatures dropped to upper teens over west on 7th. Sunny weather continued over weekend, temperatures began slow comeback toward normal levels.

Soil moisture adequate over most of the State. Soybean harvesting continues with fair to good conditions; 88% harvested, 70% last year, 76% average. Cotton harvesting virtually complete 98% harvested, 100% last year, 100% average. Wheat condition fair to good 90% planted, 74% emerged. Pastures and small grains responding to much need rainfall and near normal temperatures.

SOUTH DAKOTA: Average temperatures ranged from 10° below to 9° above normal. Extremes: 69 and -23°. Precipitation was light with most areas receiving no measurable precipitation.

Corn harvested 100%, 1983 100%, average 100%. Winter wheat emerged 100%, 1983 100%, average 100%.

TENNESSEE: Significant precipitation fell early in the week in association with an arctic front. At midweek more precipitation in the form of 1 in. of snow was received over the Nashville and plateau area. Temperatures ranged from 5 to 10° below normal, warming towards the weekend.

Farmers continue harvesting of corn, soybeans, sorghum and cotton as well as stripping and marketing of tobacco and sowing wheat when weather permitted. Livestock and pasture conditions remain good.

TEXAS: An upper low combined with abundance moisture to produce widespread light rain and drizzle portions State first part week. System also produced light rain changing to light snow northwest sections Texas. Arctic high pressure system cold temperatures midweek. End of week, high pressure brought clear skies, unseasonably mild weather. Temperatures High Plains normal, rest of State below normal. Precipitation normal, near normal all of Texas except Lower Valley, where above normal.

Crops: Coldest weather of season entered most areas State past week. Light snow, freezing rain accompanied front Plains region. Field operations put on hold beginning week these areas. Remainder State, light, heavy frost spread eastward, south Coastal Bend. Rio Grande Valley spared freezing temperatures; cooler weather prevailed there also. Trans-Pecos region first hard freeze of season, halting most field activities. Small grains good progress, cotton harvest begin pick up Plains weather permits. Cotton harvest good progress; however, frontal passage halted harvesting activities Plains. Many bolls continue open because additional freezing temperatures. Deterioration

increased slightly because weather conditions. Harvest continues behind previous years; operations advance rapidly as conditions improve. Statewide condition rated at 63% of normal compared with 46% a year ago. Current reported conditions: 46% good; 31% fair; 17% poor; and 6% failure. Weather conditions held good long enough for grain sorghum harvest to be virtually completed. Peanut harvesting slight progress during week. Harvesting behind previous years. Many dryland fields being baled for hay due to poor yield prospects. Harvest pick up as weather permits. Little progress on soybean harvesting; activities near completion most major producing areas. Limited fields remain High Plains. Small grain planting little progress due wet grounds. Seeding virtually completed; some late plantings still remain. Both stands, growth oats, wheat good. Later fields advancing slower than early fields. Some grain mites oat fields Blacklands. Light greenbug populations also. Plains, light rust problems exist. Statewide wheat condition 82% of normal compared with 75% a year ago. Current reported condition; 10% excellent; 59% good; 28% fair; and 3% poor. Sugarbeet harvest progress during week. Concern because series hard freezes and effect on remaining beets. Harvest ahead previous years. Sugarcane harvest satisfactory progress. Sugar yields increasing. Harvest on schedule.

Cotton open bolls 97%, 100% 1983, 100% average; harvested 60%, 86% 1983, 78% average. Sorghum harvested for grain 99%, 100% 1983, 100% average. Wheat planted all purposes 99%, 99% 1983, 98% average; emerged 95%, 95% 1983, 92% average. Peanuts harvested 91%, 96% 1983, 95% average. Soybeans harvested 98%, 98% 1983, 95% average. Sugarbeets harvested 98%, 96% 1983, 96% average. Pecans harvested 75%, 72% 1983, 66% average. Sunflower 90%, 100% 1983, 97% average. Oats planted for grain 100%, 100% 1983, 97% average.

Commercial Vegetables: Rio Grande Valley, harvest cabbage, broccoli, bell peppers continue slow pace because cold, wet weather. Good progress carrots, onions. San Antonio-Winter Garden, harvest cabbage, carrots, cauliflower, beets, broccoli. Tomato harvest winding down. Spinach good progress; some fields white rust problems. Trans-Pecos, green pepper harvest completed. Frost hurt quality. Pecan harvesting continues. South Texas, activities virtually complete. Yields varied across State, according to amount rain or irrigation received. Production low native varieties. Prices natives low, improved varieties, fair.

Range and Livestock: Growth winter grasses, weeds good. Fair to good grazing. Continuing frosts hurt warmer season grasses. Supplemental feeding continues where pastures burned by frost. Market good. Livestock conditions hold steady.

UTAH: Precipitation generally zero; few stations with light accumulations. Temperatures generally 5° below normal, range 10 to 30 below.

Marketing of apples, onions and potatoes from storage continued. Care of livestock and inside chores general farm activity. Livestock on open ranges generally in good condition. Some light supplemental feeding in local areas.

VIRGINIA: Wet first half of period then dry weather remaining. East and southeast had 2.50 in. with remainder of State around 1.00 in. Temperature averages generally a few degrees below normal.

Topsoil moisture adequate in majority of State. Moisture ratings 3% short, 76% adequate,

21% surplus. Days suitable for fieldwork averaged 2.8. Corn for grain harvest 96% complete, 100% last year, 99% average. Soybean harvest 90% complete, 84% last year, 87% average. Sorghum for grain harvest 90% complete, 91% last year, 85% average. Burley markets active. Pastures and livestock in good to excellent condition. Winter feed stocks adequate. Calving and lambing starting. Normal fall chores and hunting activities.

WASHINGTON: A large high pressure system over the State lowered temperatures 10 to 15° below normal east of the Cascades and 5° below normal west of the mountains. No precipitation was reported in the State until 7th.

Fieldwork was virtually complete. The cold, dry weather gave growers a chance to combine some late field corn fields. Raspberries continued to be canned and fruit trees were being pruned. Soil moisture was adequate. Livestock in good condition and feed supplies were good. Winter wheat emerged 100%, 100% last year, 100% average.

WEST VIRGINIA: Temperatures averaged from 2 to 12° below normal, warmest in the northeast, coldest in southern areas. High of 59° in Weston, low of -10° at Flat Top. Precipitation averaged near normal. Snowfall of 2 to 10 in., heavy in north central areas, light in the south. Most precipitation 1.07 in., at Webster Springs, least 0.31 in. at Bluefield.

Soil moisture adequate. Days worked averaged 2.5. Corn was in good condition with 91% harvested, 9% mature. Pasture in fair condition.

WISCONSIN: Very wintery temperatures were the rule early in the week, but the mercury rose to levels well above normal by the weekend. Precipitation was sparse, the only significant precipitation occurred the 5th with from a trace to 2 in. of snow falling.

There were between 5 and 6 days suitable for fieldwork. Frost deepened in the ground early in the week allowing much of the remaining corn to be harvested. Corn for grain was 98% harvested, 100% last year and a 99% average.

WYOMING: Temperatures much below normal. Northwest corner coldest. Below normal precipitation in most of State.

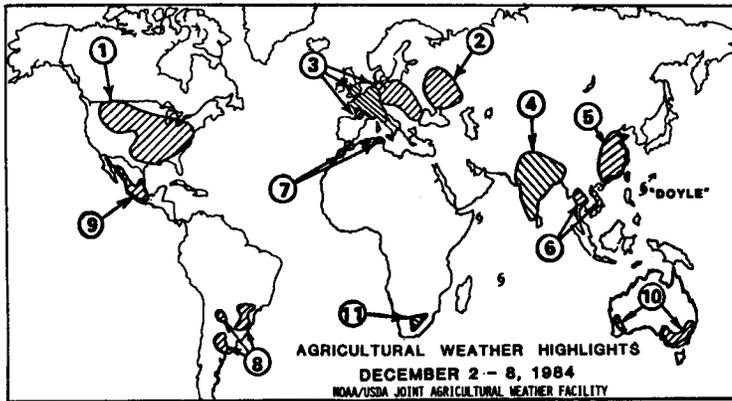
Winter wheat mostly good condition. Livestock mostly good condition with supplemental feeding in areas with snow cover. Hay supplies adequate most areas. Other activities, marketing, general maintenance.

(continued from p. 9)

Cotton picking was 38 percent complete, 13 points behind schedule, at the beginning of November. Persistent heavy rain delayed harvesting, reduced quality, and caused some losses across the Delta States. Picking reached 70 percent completion in the 14 major producing States by early December, compared with 85 percent in 1983 and the 79 percent average. Progress lagged normal in all States except Arizona, California, and Oklahoma. The Texas harvest advanced slowly because of wet fields. A heavy late-month frost opened late maturing bolls southward into West Texas.

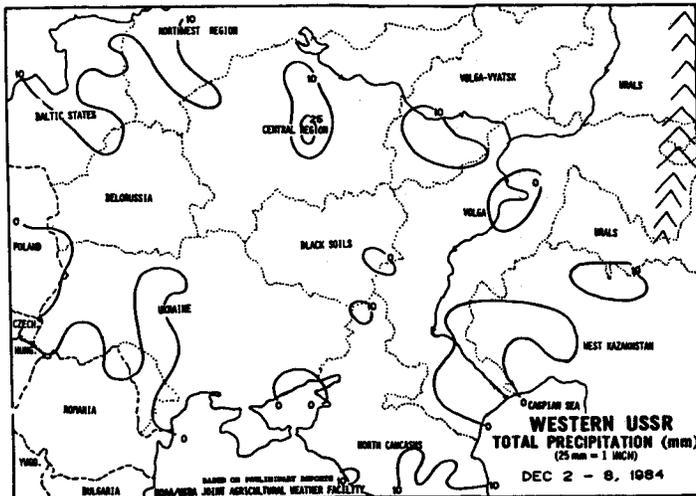
International Weather and Crop Summary

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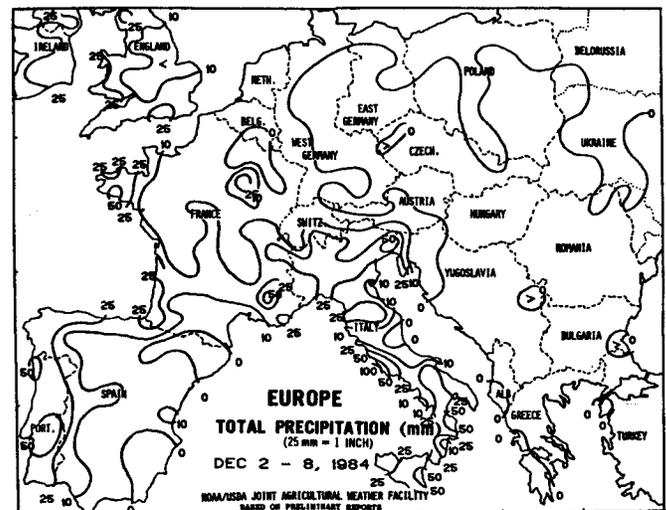


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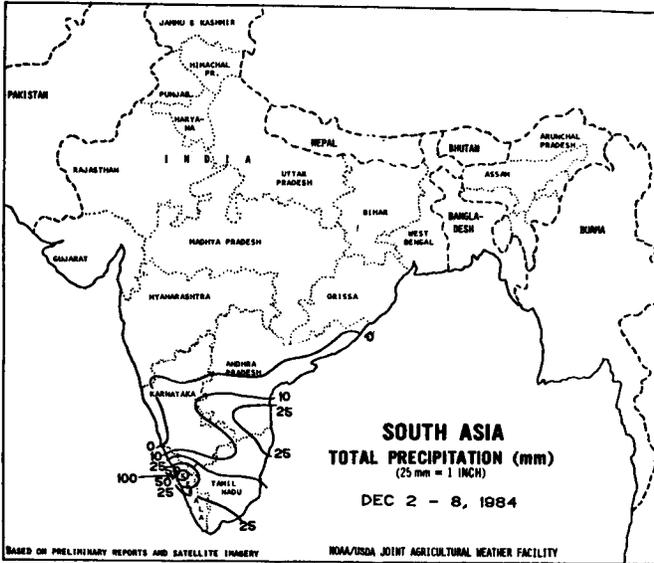
1. UNITED STATES ... Muddy fields hamper harvests in the Delta, eastern Corn Belt, and the Southeast. Abnormal cold over most of the Nation stresses livestock, slows small grain and pasture development, and defoliates cotton.
2. WESTERN USSR ... Moderating temperatures and light snow over eastern winter grain areas follow the early-week bitter cold air.
3. EUROPE ... Several days of dry weather allow corn harvesting in southwestern France. Winter grains are likely dormant in the east and are beginning to cold harden in the west.
4. SOUTH ASIA ... Dry weather and mild temperatures favor summer crop harvests and early wheat growth.
5. EASTERN ASIA ... Moderate precipitation increases soil moisture for winter wheat. Northern winter wheat is dormant.
6. SOUTHEAST ASIA ... Dry weather benefits maturing Thai rice. Wet weather in Vietnam has been unfavorable for maturing rice.
7. NORTHWESTERN AFRICA ... Generous rains benefit coastal winter grains.
8. SOUTH AMERICA ... Rain aids soybean planting in southern Brazil, but locally heavy rain slows progress in some northern crop areas. Rain returns to Argentina's crop areas.
9. MEXICO ... Good harvesting weather continues.
10. AUSTRALIA ... Wheat harvesting, aided by mostly dry weather, progresses in the wheat belt. Showers in the southwest and east cause only minor delays.
11. SOUTH AFRICA ... Timely rain allows corn planting to continue in the west. Moisture is adequate for early growth in the east.



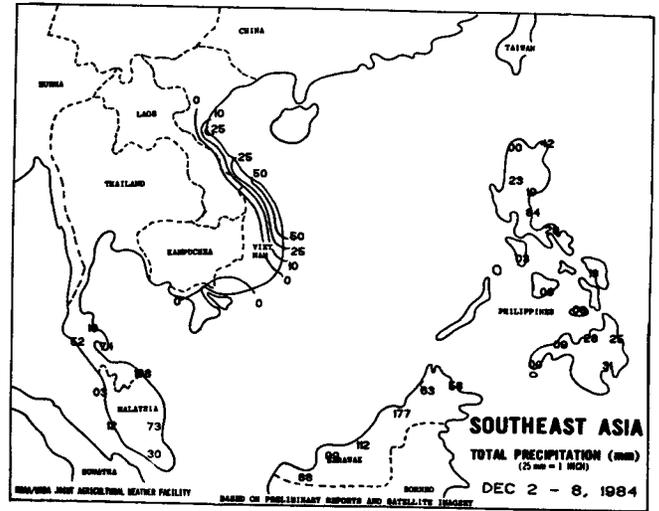
WESTERN USSR...The cold spell that began over winter grain areas in late November continued dominating the region during the first half of the week. Winter grain areas in the eastern Black Soils, Volga Vyatsk, Volga Valley, eastern Ukraine, and northern North Caucasus had 3 or more consecutive days when the minimum temperature did not reach higher than -15°C . In the southern portion of these areas, snow cover was minimal and plants have been stressed by cold weather. By late-week, temperatures moderated to near normal and light snow fell. Total precipitation was less than 10 mm in most areas, the resulting snow cover is minimal, except in the northeast.



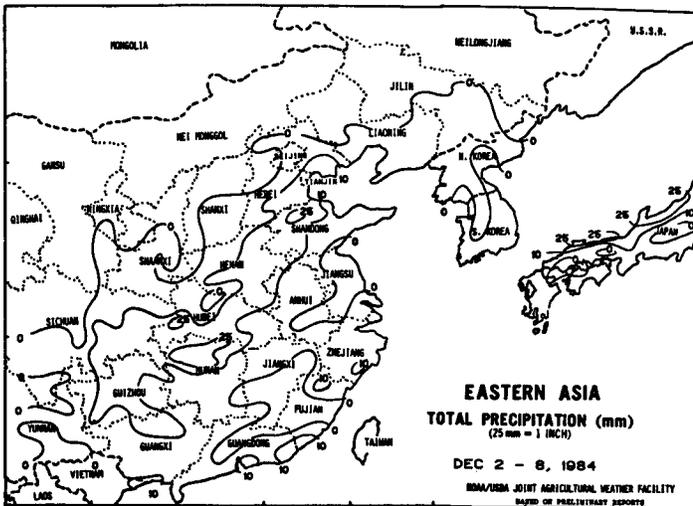
EUROPE...Light precipitation (10-25 mm) covered western and southern winter grain areas. Mostly dry weather continued over the east. Several days of dry weather in southwestern France allowed final corn harvesting to progress with minimal delays. Moisture is favorable in the Iberian Peninsula for winter grain planting and early establishment. In eastern Europe, although winter grain areas in Poland have been dry for the past several weeks, the crop eased into dormancy in good condition. Cold, dry weather in southeastern Romania and Bulgaria continued limiting winter grain establishment. Winter grains in Italy have abundant moisture for planting and early establishment. Winter grains are dormant in eastern Europe and are easing into dormancy in the northwest.



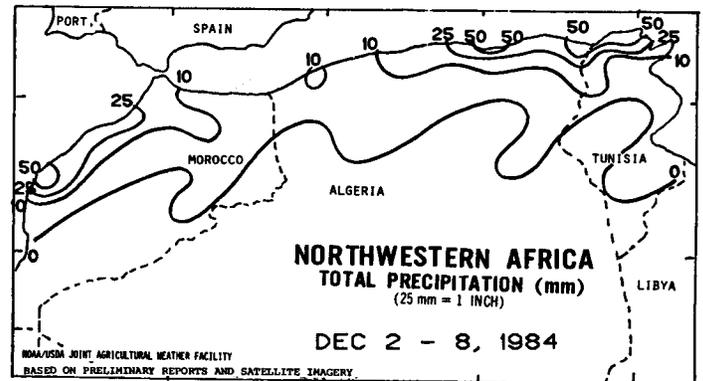
SOUTH ASIA...Seasonably dry weather continued in Pakistan and northern India, favoring cotton and rice harvesting. Near-normal temperatures in the north benefited wheat. Northern rainfall normally begins to increase in January, when wheat reaches the heading stage. Mostly light to moderate rain (10-40 mm) covered the southern tip of India. The rain was associated with a weak tropical storm which moved into the Arabian Sea early in the period.



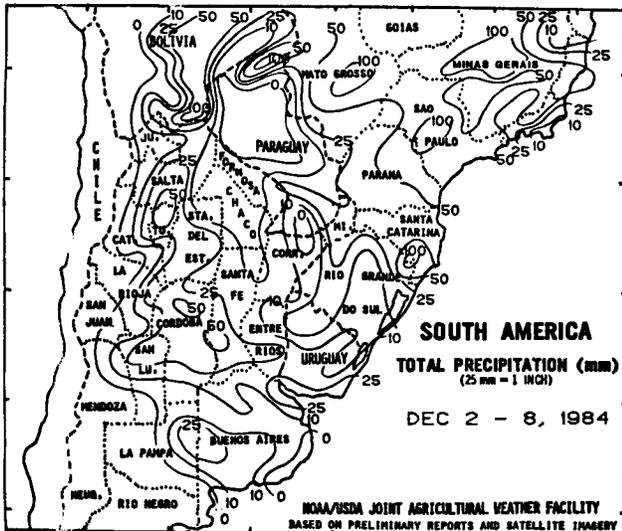
SOUTHEAST ASIA...Dry weather in much of Indochina benefited maturing rice. However, persistent wetness in Vietnam has been unfavorable for maturing rice. Moderate rain fell in the Philippines where lowland rice is being harvested.



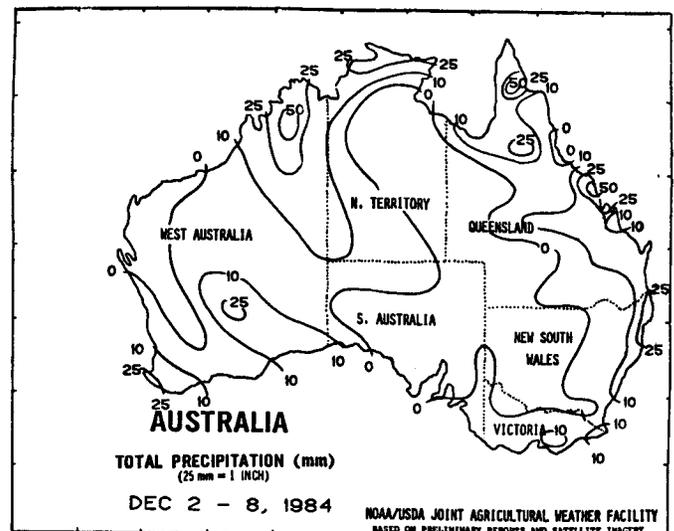
EASTERN ASIA...A band of late-week moderate precipitation (10-25 mm) stretched from the southwest through the North China Plain. The precipitation further improved soil moisture for winter wheat. Most of the precipitation fell as rain, however, some light snow fell in the extreme northern winter wheat region. Slightly above-normal temperatures occurred in eastern China and likely melted the light snow in the north. Winter wheat is dormant in Hebei, Shandong, and northern Henan. Southern winter wheat is in the slow growth and hardening stage. Light showers and mild temperatures covered southern China.



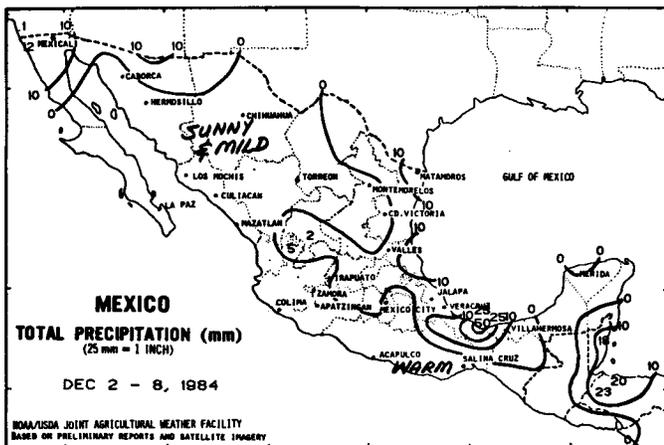
NORTHWESTERN AFRICA...Showers covered most crop areas, particularly those along the coast. In Morocco, 25-50 mm of precipitation along the west coast provided abundant moisture for winter grain planting and early establishment. Crop areas further east however, received less than 10 mm of rain, limiting planting moisture. Light precipitation in northern Algeria's winter grain areas followed two weeks of mostly dry weather. In Tunisia, wet weather (25-50 mm) provided favorable conditions for early winter grain growth. Weekly temperatures were slightly above normal across the region.



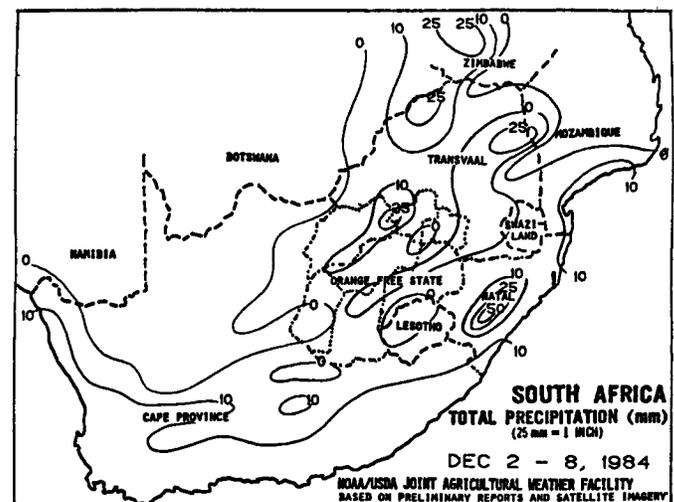
SOUTH AMERICA...Widespread rain fell over Brazil's soybean areas. Weekly amounts were less than 10 mm in southern Rio Grande do Sul, but heavier rain fell elsewhere. Recent moisture in the south improved soybean planting conditions, while frequent rain in the north maintained adequate to abundant moisture for planting and emergence. Locally heavy rain (greater than 100 mm) slowed planting progress in some northern crop areas but, overall, Brazil's soybean planting advanced to over 75 percent completion. In Argentina, showers covered most crop areas, providing additional moisture for emerging summer crops. Several days of dry weather allowed sorghum, sunflower, and soybean planting. The wheat harvest also progressed in northern Buenos Aires where generally less than 10 mm of rain fell. Showers in southern Buenos Aires aided late maturing wheat which will ripen in the next few weeks.



AUSTRALIA...Showers fell over southeastern Queensland and Western Australia's wheat areas, causing only minor harvest delays. Weekly amounts were generally less than 10 mm. Dry weather ripened wheat and barley in South Australia, Victoria, and southern New South Wales. Late planted wheat in these areas has limited moisture; and mild, dry weather will hasten maturity. Very light showers (1-4 mm) did not interfere with wheat harvesting over northern New South Wales. December is the peak harvest month across the wheat belt. Moisture is generally adequate for summer crop development over southeastern Queensland and northern New South Wales.



MEXICO...Mild, sunny weather continued over most of the Nation, generally benefiting agriculture. Abundant sunshine and temperatures averaging about 20 C favored west coast vegetables. The southern Plateau corn belt had a few sprinkles of rain, but amounts were too light to significantly interfere with harvesting. A few, light showers also dotted some of the coffee and sugar cane areas of the Mexican east coast and those of Central America.



SOUTH AFRICA...Precipitation decreased in much of the Maize Triangle following last week's widespread rain. Moderate rain (25 mm) fell in the central Maize Triangle, where moisture has been the most favorable this season. Light showers in the east maintained adequate moisture for corn's early vegetative growth. Drier weather in the west allowed fieldwork, following last week's rain. Although soil moisture remains limited for recently planted corn. Moderate rain in the northwestern Transvaal improved crop conditions following several weeks of below-normal rain. Temperatures averaged slightly below-normal across the Maize Triangle favoring early crop growth. However, a brief period of unseasonably cold weather occurred at mid-week.

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Wind Chill (Equivalent Temperatures)

Don't Overheat—Humidity

You can feel warmer and save energy and money by humidifying your home. NOAA is offering a guide to humidity with this advice.

It has prepared a table that shows the feeling of warmth obtainable at various combinations of temperatures and humidity.

The table was prepared by NOAA which notes that when cold, dry air puts a chill in the air, many people overheat to compensate.

NOAA however, recommends that you increase humidity by using humidifiers, vaporizers, steam generators or by simply placing large pans of water around the room.

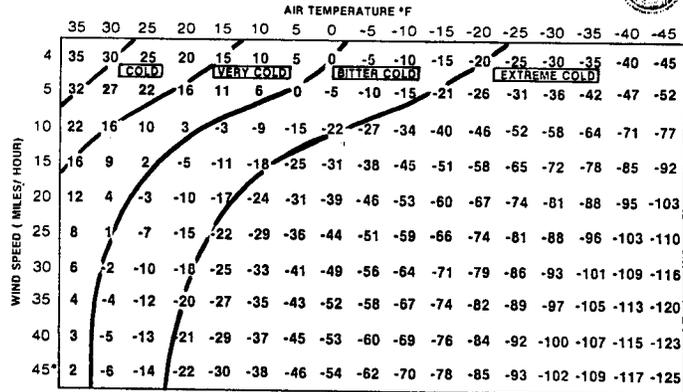
It also suggests purchasing a simple device called a hygrometer to measure the amount of moisture in the air.

Apparent Temperatures for values of Room Temperature and Relative Humidity

ROOM TEMPERATURE (°F)	RELATIVE HUMIDITY (%)										
	0	10	20	30	40	50	60	70	80	90	100
75	68	69	71	72	74	75	76	77	78	79	
74	66	68	69	71	72	73	74	75	76	77	78
73	65	67	68	70	71	72	73	74	75	76	77
72	64	65	67	68	70	71	72	73	74	75	76
71	63	64	66	67	68	70	71	72	73	74	75
70	63	64	65	66	67	68	69	70	71	72	73
69	62	63	64	65	66	67	68	69	70	71	72
68	61	62	63	64	65	66	67	68	69	70	71
67	60	61	62	63	64	65	66	67	68	69	70
66	59	60	61	62	63	64	65	66	67	68	69
65	58	59	60	61	62	63	64	65	66	67	68
64	58	59	60	61	62	63	64	65	66	67	68
63	57	58	59	60	61	62	63	64	65	66	67
62	56	57	58	59	60	61	62	63	64	65	66
61	56	57	58	59	60	61	62	63	64	65	66
60	55	56	57	58	59	60	61	62	63	64	65

WIND CHILL TABLE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

INDICATES THE WIND CHILL INDEX (equivalent in cooling power on exposed flesh)



*Wind speeds greater than 40 MPH have little additional cooling effect.

EXAMPLE - A 30 MPH wind, combined with a temperature of 30 degrees F. (-1 degree Celsius), can have the same chilling effect as a temperature of -2 degrees F. (-19 degrees Celsius), when it is calm.

Your thermometer is not always a reliable indicator of how chilly it is outdoors, according to the National Oceanic and Atmospheric Administration. Better check the windspeed, too.

Studies show that heat loss from the surface of the body is strongly affected by both temperature and wind. This is windchill.

For example, a 15-mile-an-hour breeze with the thermometer standing at a cold but not unbearable 35 degrees, produces the effect of a bitter, freezing 16 degrees.

NOAA, a Commerce Department agency created to improve man's understanding and uses of the physical environment and oceanic life, has produced an "equivalent temperature" chart to demonstrate the remarkable cooling power of wind-chill and assist the public in "what-to-wear-outdoors" decisions. The chart is based on studies made by Arctic explorers and military experts and shows the combined effects of wind and temperature as equivalent calm-air temperatures.

Windchill information is included routinely in the messages issued by many of NOAA's National Weather Service forecast offices.

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