

WEEKLY WEATHER AND CROP BULLETIN

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

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

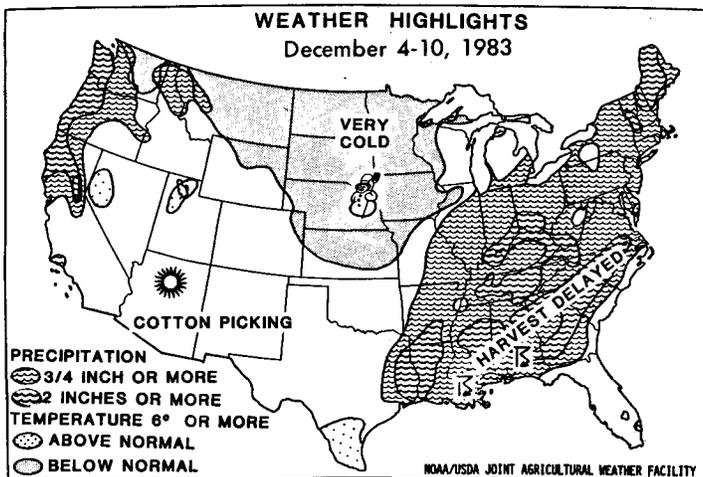
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WASHINGTON, D.C.

Dec. 13, 1983

National Weather Summary

December 4 to 10



TUESDAY...A cold front moving through the East Coast States triggered light to moderate showers throughout the area. Snow began late in the day through the Great Lakes region, the Ohio Valley, and New England. Rain covered the coasts of northern California and Oregon, while snow fell inland to western Montana. Freezing temperatures reached southward to Arizona, New Mexico, western Texas, and into Mexico.

WEDNESDAY...Colder air covered most of the Nation and early morning freezing temperatures reached almost to the gulf coast and to the Appalachians. Snow fell in the lower Great Lakes States and from West Virginia to New England. Rain fell along the west coast from northern California to Washington and snow covered the rest of the Northwest.

THURSDAY...Rain continued along the west coast from northern California through Washington and snow was scattered from the mountains of the Northwest to New York and Pennsylvania. Freezing temperatures covered all of the East Coast States to northern Florida.

FRIDAY...A vigorous Pacific storm spread moderate to heavy showers all along the west coast, while light snow spread across the Plateau and northern Rockies to the northern Plains. A relatively weak weather system spread rain from the lower Mississippi Valley to the Virginias and along the Northeast coast, while snow covered the northern Appalachians. Freezing temperatures again reached to northern Florida.

(continued on p. 8)

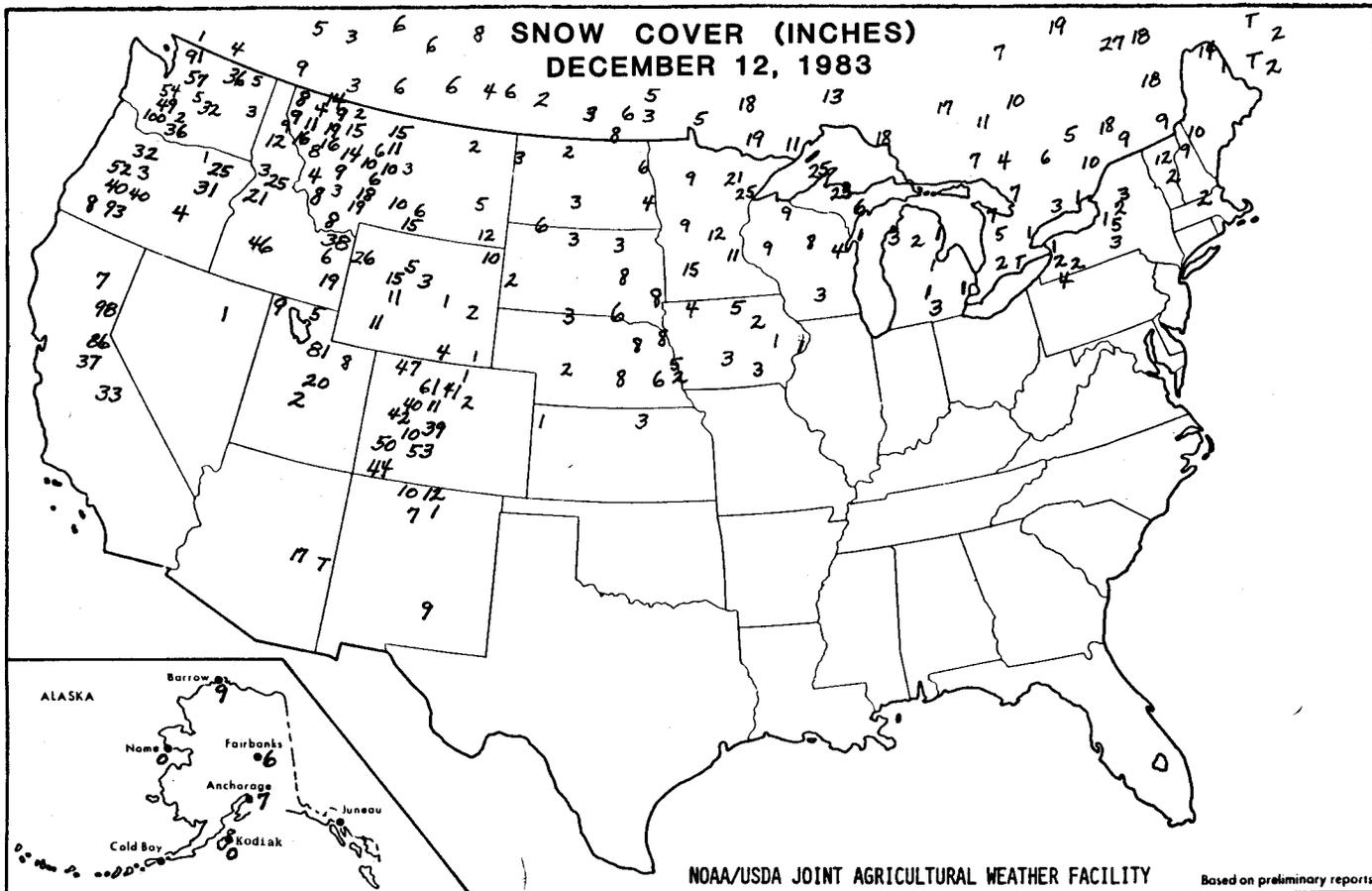
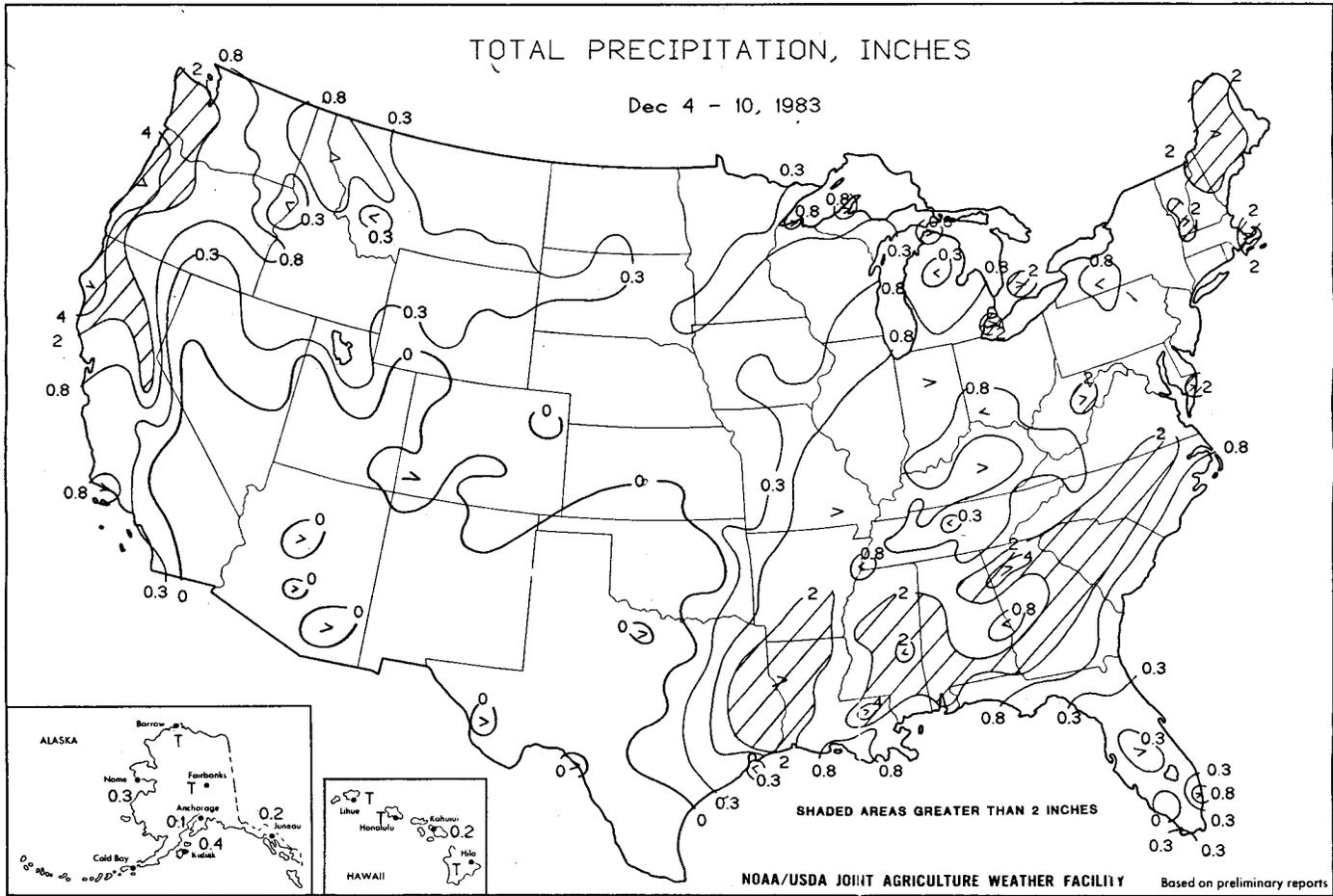
HIGHLIGHTS: Light to moderate precipitation fell from the lower and middle Mississippi Valley through New England. Thunderstorms, with occasional tornadoes, plagued the South from eastern Texas to Georgia and the Carolinas. Snow fell over the Plateau and from the northern and central Rockies through the northern Plains and Great Lakes region. Snow reached as far south as northern Kansas and from the central Appalachians to central New England. Moderate to heavy rain fell along the west coast from northern California to Washington and lighter rain pushed to southern California. Average temperatures were much colder than normal in the central and northern Plains and warmer than normal in the East, South, and along the west coast.

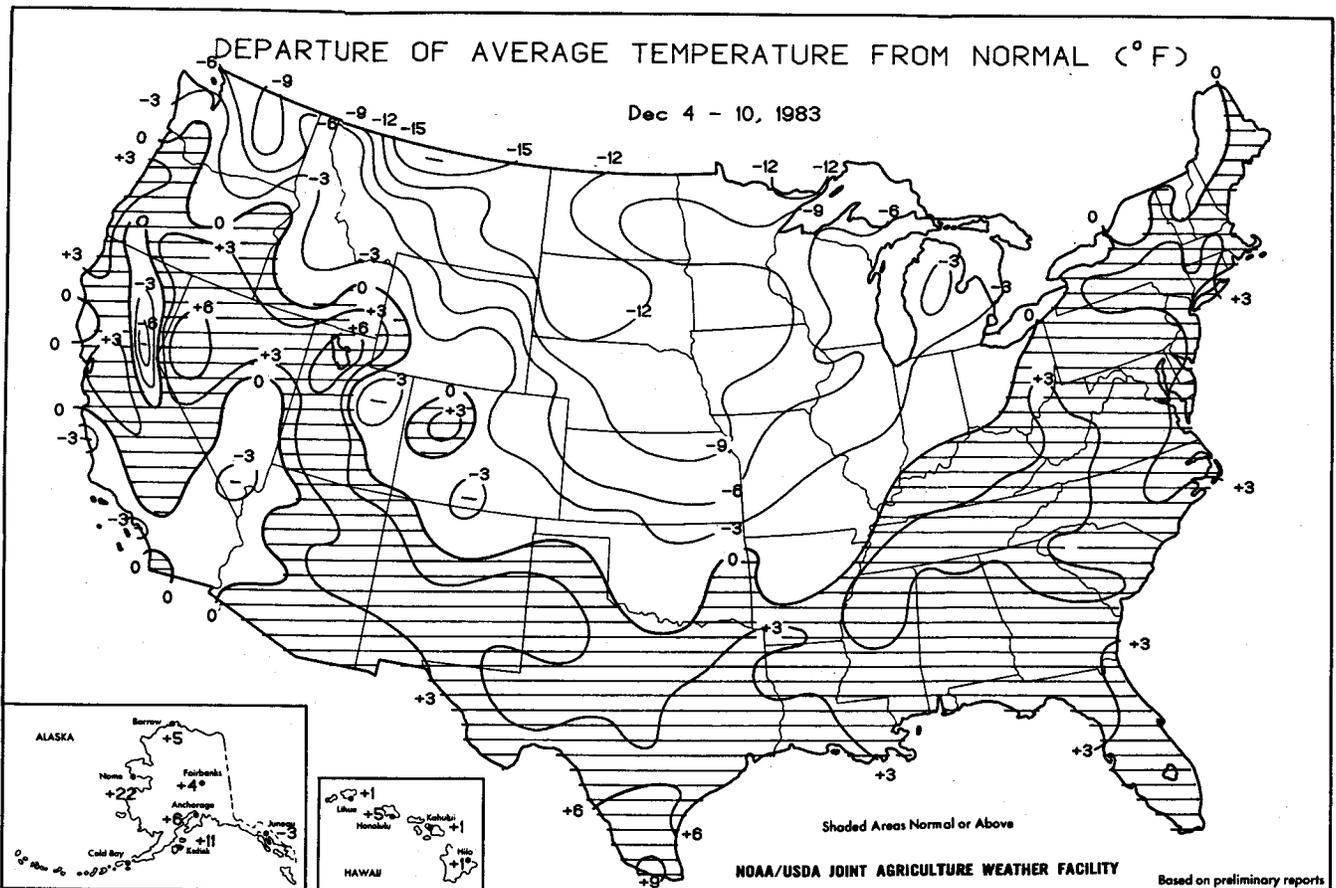
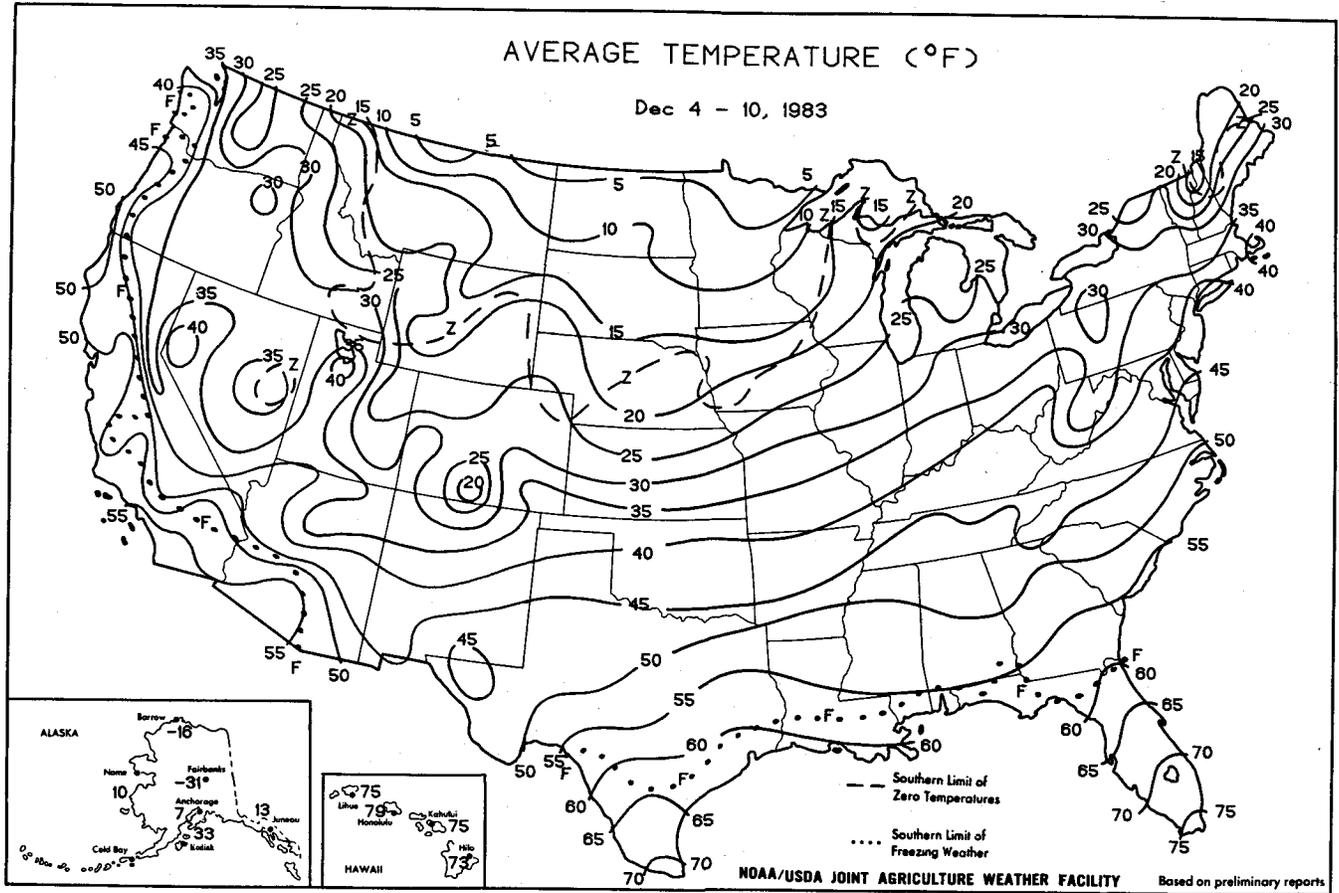
SUNDAY...A low-pressure system in Colorado spread snow across the Great Basin and the northern Rockies. The snow then spread across Nebraska and South Dakota to the lower Great Lakes States. Wet weather along the northeast coast turned to ice and snow in inland areas. Temperatures were warm across the South, but remained below freezing all day from the northern Rockies to the western Great Lakes and in northern New York and New England.

MONDAY...Light snow continued in the central Plains and reached into the upper lakes area. Rain or drizzle fell from Missouri to the lower Great Lakes region. A stationary front across the South triggered showers, thunderstorms, and occasional tornadoes. The heaviest showers fell from central Mississippi to Georgia and North Carolina.

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Weather Data for the Week Ending Dec. 10, 1983

STATES AND STATIONS	TEMPERATURE °F					PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE NOV 27	PCT. NORMAL SINCE NOV 27	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	60	35	67	27	48	1	1.4	-.3	.8	10.0	476	64.5	123	89	44	0	4	2	2
MOBILE	68	42	75	33	55	1	.9	-.3	.9	2.8	117	77.3	122	89	46	0	0	1	1
MONTGOMERY	66	38	73	30	52	2	1.0	0	.5	3.4	170	70.7	152	94	46	0	1	2	1
AK ANCHORAGE	27	16	39	7	21	6	.1	-.2	.1	.1	17	11.9	83	91	73	0	1	2	0
BARROW	-3	-10	5	-16	-7	4	T	-.1	T	0	0	3.0	57	75	60	0	7	0	0
FAIRBANKS	4	-11	21	-31	-3	4	T	-.2	T	0	0	9.8	97	83	65	0	7	1	0
JUNEAU	29	23	36	13	26	-3	.2	-1.0	.1	.3	13	40.3	77	96	64	0	5	2	0
KODIAK	44	39	46	33	41	11	.4	-.9	.1	5.7	219	74.6	112	90	72	0	0	6	0
NOME	32	23	39	10	28	22	.3	.2	.2	.8	267	13.5	84	81	64	0	6	3	0
AZ PHOENIX	67	43	73	37	55	1	.3	-.1	.3	1.0	333	12.8	188	84	27	0	0	1	0
PRESCOTT	54	28	63	19	41	2	T	-.3	T	.5	71	19.1	106	82	36	0	5	1	0
TUCSON	66	38	75	30	52	-1	T	-.2	T	.2	67	21.7	197	76	28	0	1	1	0
YUMA	68	47	73	40	58	0	0	-1.1	0	.5	500	4.8	178	58	24	0	0	0	0
AR FORT SMITH	53	32	61	22	43	0	.7	-1.1	.7	1.9	119	34.7	87	89	50	0	3	1	1
LITTLE ROCK	52	35	62	27	43	-2	1.6	-.7	1.3	6.8	358	41.1	90	80	70	0	3	2	1
CA BAKERSFIELD	65	38	67	33	51	2	.1	-1.1	.1	.1	33	8.9	178	93	46	0	0	1	0
EUREKA	57	47	63	40	52	3	4.4	-3.0	2.1	5.5	190	58.3	168	93	74	0	0	7	4
FRESNO	59	41	64	33	50	4	.3	-.1	.3	.4	50	20.4	222	91	54	0	0	1	0
LOS ANGELES	64	48	72	44	56	-2	.3	0	.3	.7	117	28.2	264	78	41	0	0	1	0
RED BLUFF	52	44	54	34	48	1	2.4	1.6	.9	3.7	247	41.0	219	97	73	0	0	6	3
SACRAMENTO	58	46	61	37	52	5	.9	.3	.5	1.1	92	30.8	212	89	58	0	0	4	1
SAN DIEGO	69	51	78	45	60	2	.3	0	.3	.7	117	17.5	219	83	43	0	0	1	0
SAN FRANCISCO	59	47	61	39	53	3	1.1	-.4	.6	1.9	136	33.9	205	90	62	0	0	4	1
CO DENVER	41	16	52	4	28	-6	T	-.1	T	.8	267	19.8	129	82	42	0	7	1	0
GRAND JUNCTION	40	26	47	21	33	2	T	-.1	T	.1	50	13.2	169	78	45	0	7	0	0
PUEBLO	52	18	66	11	35	1	T	-.1	T	.1	100	12.1	104	91	30	0	7	0	0
CT BRIDGEPORT	46	34	56	26	40	3	1.1	-.2	1.0	2.3	128	52.0	133	79	52	0	2	2	1
HARTFORD	42	25	47	17	34	2	1.9	-.9	1.1	2.8	140	52.1	123	88	53	0	6	3	2
DC WASHINGTON	50	36	57	30	43	2	1.8	1.1	1.1	2.2	157	48.1	128	79	51	0	3	2	2
FL APALACHICOLA	68	47	77	37	57	1	.4	-.4	.3	1.3	87	58.9	108	91	46	0	0	2	0
DAYTONA BEACH	74	53	84	40	64	3	.1	-.4	.1	.5	50	61.9	129	87	53	0	0	1	0
JACKSONVILLE	72	46	82	32	59	3	.3	-.3	.2	.3	27	56.1	107	94	45	0	1	2	0
KEY WEST	79	71	84	66	75	3	2.6	2.2	1.6	2.8	280	50.1	125	86	67	0	0	2	2
MIAMI	80	66	86	58	73	4	.9	-.5	.9	1.3	144	54.6	94	86	55	0	0	1	1
ORLANDO	77	56	85	42	66	3	T	-.4	T	0	0	50.1	104	92	52	0	0	1	0
TALLAHASSEE	72	40	81	27	56	2	.8	-.2	.5	2.0	100	61.5	98	96	39	0	3	2	1
TAMPA	74	56	81	41	65	3	.3	-.2	.3	.5	50	56.4	119	97	60	0	0	1	0
WEST PALM BEACH	79	63	86	55	71	3	T	-.5	T	.7	64	75.4	125	91	58	0	0	1	0
GA ATLANTA	60	37	69	30	48	2	1.3	-.4	.8	5.7	317	46.8	103	81	46	0	2	2	1
AUGUSTA	67	34	76	26	51	2	2.9	2.3	2.3	3.3	275	50.6	123	84	34	0	4	3	2
MACON	65	37	71	29	51	1	1.8	-.9	1.0	3.5	219	47.9	113	85	40	0	4	3	2
SAVANNAH	68	40	77	29	54	2	.5	-.1	.3	.6	55	50.6	102	87	36	0	1	3	0
HI HILO	82	64	83	62	73	1	T	-3.3	T	.1	1	64.5	53	88	61	0	0	1	0
HONOLULU	88	70	89	69	79	5	T	-.8	T	0	0	3.9	18	83	48	0	0	1	0
KAHULUI	84	67	87	62	75	1	.2	-.4	.2	.2	17	7.1	43	88	63	0	0	1	0
LIHUE	81	69	83	67	75	1	T	-1.2	T	.2	8	15.7	38	90	67	0	0	1	0
ID BOISE	40	25	48	6	33	-1	.8	-.5	.2	1.5	250	16.1	149	88	62	0	5	5	0
LEWISTON	38	29	53	24	34	-2	.1	-.1	.1	.1	20	12.3	105	96	73	0	5	3	0
POCATELLO	37	25	45	8	31	3	.8	-.6	.4	2.1	525	18.6	184	90	69	0	4	6	0
IL CHICAGO	32	19	37	9	26	-5	.7	-.2	.3	3.4	340	47.1	142	91	72	0	7	5	0
MOLINE	32	16	36	6	24	-6	.4	0	.2	1.9	238	34.7	96	91	73	0	6	6	0
PEORIA	34	20	41	5	27	-4	.7	-.2	.3	2.9	290	40.8	116	97	81	0	5	5	0
QUINCY	36	21	40	10	29	-5	.6	-.2	.2	2.7	338	33.4	89	89	68	0	7	5	0
ROCKFORD	29	15	37	5	22	-6	.4	-.1	.2	1.5	150	32.5	87	96	73	0	7	5	0
SPRINGFIELD	37	24	43	14	30	-3	1.0	-.6	.7	3.2	356	30.8	93	93	75	0	6	5	1
IN EVANSVILLE	48	33	59	24	40	2	.6	-.3	.2	3.1	182	46.8	114	87	66	0	3	3	0
FORT WAYNE	36	28	42	21	32	0	1.8	1.2	.7	3.3	300	30.0	87	90	79	0	5	7	1
INDIANAPOLIS	39	27	44	18	33	-1	1.1	-.4	.5	2.6	186	34.2	90	92	74	0	5	6	0
SOUTH BEND	35	25	41	16	30	-2	1.2	-.5	.5	2.3	164	28.6	77	86	73	0	5	5	1
IA DES MOINES	29	13	34	1	21	-8	.5	-.2	.2	1.6	267	40.2	128	86	70	0	7	4	0
SIoux CITY	24	10	32	2	17	-10	.1	-.1	.1	1.5	500	28.0	110	86	71	0	7	2	0
KS WATERLOO	25	7	33	-2	16	-9	.2	-.1	.1	1.1	157	35.8	107	92	74	0	7	4	0
CONCORDIA	30	13	40	8	22	-12	.1	-.1	.1	1.0	200	24.7	90	85	67	0	7	1	0
DODGE CITY	39	21	46	15	30	-6	T	-.1	T	.4	133	23.7	114	89	60	0	7	0	0
GOODLAND	36	14	43	3	25	-7	T	-.1	T	1.1	550	17.6	106	90	60	0	7	1	0
TOPEKA	35	17	41	12	26	-8	.1	-.3	T	1.6	229	36.2	108	82	65	0	7	2	0
WICHITA	40	20	49	17	30	-7	T	-.3	T	.5	100	35.9	175	94	64	0	7	0	0
KY BOWLING GREEN	51	33	64	25	42	2	.8	-.2	.5	4.4	220	50.4	105	95	69	0	4	3	0
LEXINGTON	48	32	57	22	40	2	.8	-.1	.4	3.8	211	39.0	87	96	71	0	5	3	0
LOUISVILLE	48	33	59	24	40	1	.3	-.5	.1	2.6	153	44.6	103	81	62	0	4	5	0
LA ALEXANDRIA	65	45	71	32	55	2	1.7	-.6	1.3	3.8	173	51.0	90	84	53	0	1	3	1
BATON ROUGE	70	43	76	32	56	2	1.8	-.7	1.2	3.2	145	72.1	135	98	50	0	1	2	2
LAKE CHARLES	71	48	81	33	59	4	.9	-.2	.9	2.8	133	56.0	104	92	53	0	0	1	1
NEW ORLEANS	70	45	78	36	57	1	.5	-.7	.5	2.1	88	77.6	136	92	52	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Dec. 10, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE NOV 27	PCT. NORMAL SINCE NOV 27	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE		
ME SHREVEPORT	63	39	72	25	51	1	2.6	1.7	2.5	5.4	300	47.4	112	98	60	0	3	2	1		
ME CARIBOU	27	11	44	-4	19	0	2.1	1.3	1.2	2.9	181	43.4	123	90	73	0	7	4	2		
MD PORTLAND	39	22	51	17	30	2	2.2	1.1	1.2	2.9	132	59.9	146	87	54	0	7	5	2		
MD BALTIMORE	48	32	53	25	40	1	1.9	1.1	1.3	2.9	181	46.2	115	87	53	0	3	3	2		
MA SALISBURY	55	35	65	24	45	4	1.2	.4	1.0	1.3	81	48.3	109	93	52	0	3	2	1		
MA BOSTON	45	29	59	25	37	1	1.5	.4	.9	2.5	114	49.6	120	80	49	0	6	4	1		
MA CHATHAM	47	34	55	27	40	2	2.2	1.1	1.4	3.3	150	53.6	122	78	64	0	3	4	2		
MI ALPENA	30	15	38	1	22	-4	.3	-.1	.3	.7	78	33.2	117	97	73	0	7	2	0		
MI DETROIT	35	23	39	12	29	-2	1.7	1.1	.8	2.6	236	35.8	119	91	69	0	5	4	1		
MI FLINT	33	17	37	0	25	-5	.8	.3	.4	1.3	130	31.4	107	93	74	0	6	5	0		
MI GRAND RAPIDS	33	21	37	10	27	-3	.5	-.1	.2	1.5	115	34.6	103	85	68	0	6	4	0		
MI HOUGHTON LAKE	30	18	37	4	24	-2	.2	-.3	.1	.8	80	29.4	107	87	70	0	7	4	0		
MI LANSING	32	13	38	-1	23	-7	.7	-.1	.3	1.3	108	32.8	111	95	76	0	6	3	0		
MI MARQUETTE	22	6	36	-10	14	-7	.2	-.4	.1	1.6	133	43.5	121	95	70	0	7	4	0		
MI MUSKOGON	32	22	36	8	27	-4	.9	-.2	.4	2.1	162	31.5	101	89	70	0	6	4	0		
MI SAULT STE. MARIE	25	10	36	2	18	-5	.6	0	.2	1.2	92	32.4	99	96	63	0	7	6	0		
MN ALEXANDRIA	18	1	24	-4	9	-9	.2	-.1	.2	1.1	220	22.2	89	88	66	0	7	1	0		
MN DULUTH	18	0	23	-7	9	-8	.2	-.1	.2	1.3	186	29.6	100	85	63	0	7	1	0		
MN INT'L FALLS	10	-9	15	-29	1	-12	.1	-.1	.1	.5	100	24.5	99	91	68	0	7	3	0		
MN MINNEAPOLIS	19	6	25	-4	12	-10	.1	-.1	.1	1.2	300	37.4	144	91	70	0	7	2	0		
MN ROCHESTER	21	5	29	-3	13	-9	.2	-.1	.2	1.2	240	34.7	120	97	80	0	7	2	0		
MS GREENWOOD	63	43	74	30	53	5	2.3	1.1	1.9	12.2	508	66.6	133	84	49	0	1	2	1		
MS JACKSON	65	39	72	26	52	2	1.2	.1	.9	3.1	135	68.8	138	95	48	0	3	3	1		
MS MERIDIAN	66	36	72	29	51	2	1.5	.3	.9	3.5	152	66.4	134	98	46	0	2	2	2		
MO CPE GIRARDEAU	47	32	55	25	40	-1	1.2	.3	.8	3.0	167	43.4	101	96	71	0	5	2	1		
MO COLUMBIA	38	25	41	21	31	-4	.6	-.1	.5	2.3	230	44.9	128	95	74	0	7	3	0		
MO KANSAS CITY	35	21	39	15	28	-7	.1	-.3	.1	1.3	186	31.7	89	94	74	0	7	2	0		
MO SAINT LOUIS	40	28	44	24	34	-2	1.3	-.8	1.3	4.2	420	43.3	132	99	76	0	5	3	1		
MO SPRINGFIELD	45	27	53	17	36	-2	.3	-.3	.3	1.3	108	43.8	113	88	63	0	6	1	0		
MT BILLINGS	30	10	44	2	20	-10	.4	-.3	.3	.4	200	12.4	86	99	63	0	7	3	0		
MT GLASGOW	14	0	21	-4	7	-14	.1	0	T	.2	100	7.4	64	83	62	0	7	3	0		
MT GREAT FALLS	28	2	35	-5	15	-13	.1	0	T	.3	100	15.4	104	83	63	0	7	3	0		
MT HAVRE	12	-7	17	-14	3	-19	T	-.1	T	0	0	11.8	104	82	56	0	7	1	0		
MT HELENA	27	9	45	-3	18	-8	.4	.3	.2	.4	200	13.6	126	91	56	0	7	3	0		
MT KALISPELL	29	14	39	5	22	-5	.8	.5	.3	.9	129	17.4	112	93	73	0	7	6	0		
MT MILES CITY	20	1	24	-10	11	-14	.1	0	.1	.2	67	7.9	57	88	64	0	7	2	0		
MT MISSOULA	27	17	43	10	22	-5	.5	.3	.2	.6	150	15.4	128	99	79	0	6	3	0		
NE GRAND ISLAND	28	12	38	5	20	-10	.1	-.1	.1	1.5	375	28.1	120	85	70	0	7	1	0		
NE LINCOLN	29	10	36	3	19	-10	.1	-.1	.1	1.4	350	28.7	107	93	75	0	7	1	0		
NE NORFOLK	27	8	34	0	18	-9	.1	-.1	.1	1.6	533	27.9	116	84	67	0	7	2	0		
NE NORTH PLATTE	31	8	40	0	19	-9	T	-.1	T	.9	450	18.6	96	87	59	0	7	1	0		
NE OMAHA	27	13	33	5	20	-9	.1	-.1	T	2.4	600	31.6	104	94	80	0	7	3	0		
NE SCOTTSBLUFF	35	12	46	-2	24	-6	T	-.1	T	.7	350	15.0	105	85	58	0	7	1	0		
NE VALENTINE	28	1	38	-9	15	-12	T	-.1	T	.3	150	27.9	152	80	64	0	7	1	0		
NV ELY	41	13	49	-10	27	-1	.2	0	.2	-.3	100	13.5	163	84	52	0	7	1	0		
NV LAS VEGAS	55	33	62	28	44	-3	T	-.1	T	0	0	4.6	107	60	26	0	4	0	0		
NV RENO	50	33	59	20	41	8	T	-.2	T	.6	150	12.3	195	80	40	0	2	1	0		
NV WINNEMUCCA	44	29	54	7	36	5	.2	0	.1	1.2	300	12.1	159	84	49	0	3	3	0		
NH CONCORD	38	19	45	5	29	1	1.2	.3	.7	2.0	118	44.0	125	93	57	0	7	4	1		
NJ ATLANTIC CITY	49	32	57	22	40	2	1.5	-.7	1.1	1.6	94	44.7	108	83	52	0	2	2	1		
NM ALBUQUERQUE	50	25	56	17	38	1	0	-.1	0	.3	150	7.6	93	83	30	0	6	0	0		
NM CLOVIS	57	31	67	21	44	3	0	-.1	0	.3	150	11.1	63	68	25	0	4	0	0		
NM ROSWELL	61	32	67	21	47	3	0	-.1	0	0	0	9.5	95	70	32	0	3	0	0		
NY ALBANY	38	25	44	14	32	2	1.4	.7	.8	2.2	157	42.7	126	94	60	0	6	3	2		
NY BINGHAMTON	38	27	44	19	32	3	1.0	.3	.5	1.6	114	37.9	107	92	62	0	5	4	0		
NY BUFFALO	36	25	45	17	31	-1	1.6	.8	.6	3.5	219	33.5	92	90	66	0	6	7	1		
NY NEW YORK	48	37	55	31	42	4	1.4	.5	1.0	2.3	128	56.1	137	77	53	0	1	2	1		
NY ROCHESTER	37	27	47	21	32	0	1.2	.5	.4	2.3	177	32.1	104	93	69	0	6	5	0		
NY SYRACUSE	37	25	46	17	31	0	1.1	.4	.5	1.8	120	32.0	85	98	70	0	6	5	1		
NC ASHEVILLE	58	30	68	21	44	4	1.3	.5	.9	5.3	331	48.5	105	92	38	0	4	3	1		
NC CHARLOTTE	59	34	69	28	47	3	3.0	2.3	2.4	4.6	329	38.5	94	85	41	0	4	3	2		
NC GREENSBORO	56	31	67	24	43	1	1.1	.4	.7	2.4	185	44.3	108	86	42	0	4	2	1		
NC HATTERAS	61	44	71	28	53	2	.3	-.7	.3	2.1	100	60.2	117	86	48	0	1	1	0		
NC NEW BERN	63	37	73	27	50	2	.6	-.2	.6	1.1	69	50.8	98	98	44	0	3	2	1		
NC RALEIGH	58	33	69	25	46	2	2.6	1.9	2.1	3.4	243	44.0	109	88	42	0	4	2	1		
NC WILMINGTON	65	40	74	28	52	3	.4	-.4	.2	1.7	113	55.4	106	94	43	0	3	2	0		
ND BISMARCK	20	1	27	-6	10	-9	.1	0	T	.2	100	12.9	83	85	59	0	7	3	0		
ND FARGO	17	1	22	-9	9	-8	.1	0	.1	.5	167	19.1	96	75	50	0	7	2	0		
ND GRAND FORKS	16	-2	23	-9	7	-8	.1	0	.1	.4	133	21.2	116	81	55	0	7	1	0		
ND WILLISTON	15	-4	25	-11	6	-13	.1	0	.1	.2	100	9.0	66	86	63	0	7	2	0		
OH AKRON-CANTON	39	29	50	24	34	1	1.5	.9	1.0	2.6	217	37.1	105	84	68	0	5	5	1		
OH CINCINNATI	43	29	50	19	36	0	.5	-.2	.3	2.1	150	40.8	104	94	73	0	5	4	0		
OH CLEVELAND	37	28	45	22	33	-1	1.5	.8	.8	2.4	185	39.5	113	92	74	0	6	4	2		
OH COLUMBUS	40	29	49	23	34	0	1.1	.5	.6	2.9	242	37.0	101	93	69	0	6	5	1		

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending Dec. 10, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE NOV 27	PCT. NORMAL SINCE NOV 27	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIPITATION		
																		.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	38	28	46	19	33	-1	.6	.1	.2	2.0	167	36.4	106	89	64	0	6	5	0	
TOLEDO	34	25	40	16	30	-1	1.7	1.1	.8	2.9	242	33.4	108	97	80	0	5	4	1	
YOUNGSTOWN	37	29	47	23	33	1	1.4	.8	.9	2.5	208	36.5	100	91	74	0	5	4	1	
OK OKLAHOMA CITY	53	29	62	24	41	-1	T	.3	T	.4	67	38.6	125	87	48	0	6	0	0	
TULSA	53	32	58	27	42	0	T	.5	T	.6	60	34.5	90	88	55	0	0	0	0	
OR ASTORIA	49	38	54	29	43	-1	3.8	1.2	.9	4.5	87	74.0	123	99	80	0	2	6	0	
BURNS	36	23	40	10	30	1	.7	.5	.4	1.2	300	15.9	166	99	65	0	0	6	4	
MEDFORD	49	37	59	33	43	4	1.7	.9	.9	2.7	180	25.9	146	99	65	0	0	5	1	
PENDLETON	38	26	46	18	32	-5	1.2	.9	.4	1.5	214	13.8	128	99	73	0	6	6	0	
PORTLAND	48	40	52	37	44	2	2.3	.9	.5	2.6	93	44.4	134	92	79	0	0	7	1	
SALEM	50	41	54	35	45	4	3.2	1.6	1.0	3.6	116	52.0	145	88	73	0	0	7	3	
PA ALLENTOWN	42	31	48	24	36	2	1.3	.5	.9	2.7	159	46.0	109	85	55	0	5	4	1	
ERIE	39	29	50	18	34	1	1.5	.7	.7	2.7	169	43.4	114	83	58	0	5	5	2	
HARRISBURG	42	32	48	25	37	1	1.5	.7	.7	1.5	94	41.2	111	80	51	0	4	2	2	
PHILADELPHIA	47	32	56	24	39	1	1.6	.8	1.3	2.2	138	49.0	124	90	53	0	3	3	1	
PITTSBURGH	40	30	53	25	35	1	1.1	.5	.8	2.7	225	38.8	109	89	68	0	5	6	1	
SCRANTON	39	31	48	27	35	3	1.0	.4	.5	1.5	115	38.1	111	85	66	0	5	7	2	
RI PROVIDENCE	46	28	60	19	37	2	1.9	.8	.9	2.9	132	62.0	145	80	50	0	6	3	2	
SC CHARLESTON	68	41	81	30	55	3	.6	0	.4	.7	58	50.6	99	93	37	0	1	3	0	
COLUMBIA	64	33	75	24	49	1	2.4	1.7	1.7	4.1	293	42.7	92	95	39	0	4	3	2	
FLORENCE	65	37	74	28	51	2	1.5	.8	.9	3.3	254	48.6	117	99	44	0	3	2	2	
GREENVILLE	58	34	65	29	46	1	2.4	1.6	1.9	5.5	344	50.8	105	87	41	0	3	3	1	
SD ABERDEEN	18	-2	26	-9	8	-12	-1.1	0	.1	.3	150	20.6	118	93	70	0	7	3	0	
HURON	21	1	29	-7	11	-11	-1.1	0	.1	.7	350	18.3	98	88	62	0	7	3	0	
RAPID CITY	24	5	29	-2	14	-14	-1.4	.3	.1	.3	100	15.3	93	78	56	0	7	2	0	
SIoux FALLS	22	3	27	-7	13	-11	-1.3	.1	.2	.8	200	26.3	106	98	73	0	7	4	0	
TN CHATTANOOGA	58	36	65	26	47	4	.5	.6	.4	6.9	314	48.0	96	89	47	0	3	3	0	
KNOXVILLE	57	33	65	23	46	3	.6	.5	.4	3.6	180	39.4	88	92	50	0	3	2	0	
MEMPHIS	57	39	70	28	48	3	.5	.6	.5	5.0	227	53.4	108	91	54	0	2	2	0	
NASHVILLE	59	35	69	24	47	4	.3	.8	.1	5.6	267	47.2	101	98	59	0	4	3	0	
TX ABILENE	65	33	76	26	49	1	T	.2	T	.2	50	18.9	80	79	31	0	2	0	0	
AMARILLO	58	24	68	14	41	1	0	0	.1	50	14.7	75	86	27	0	6	0	0		
AUSTIN	71	44	81	29	58	4	.1	.4	.1	.8	80	34.4	107	89	42	0	1	1	0	
BEAUMONT	70	51	79	34	61	5	2.3	1.3	2.3	4.3	205	74.5	145	97	58	0	0	2	1	
BROWNSVILLE	81	60	88	49	71	7	T	.3	0	0	0	27.8	107	93	51	0	0	0	0	
CORPUS CHRISTI	77	54	84	41	66	5	0	.3	0	0	0	36.4	118	89	51	0	0	0	0	
DEL RIO	70	43	81	36	57	3	T	.1	T	0	0	14.0	78	81	34	0	0	1	0	
EL PASO	64	35	70	21	49	4	0	0	0	0	0	7.9	98	60	21	0	3	0	0	
FORT WORTH	64	39	70	32	51	2	0	.4	0	.9	113	31.1	105	89	43	0	2	0	0	
GALVESTON	69	56	76	44	62	4	.3	.6	.3	1.5	88	51.7	130	88	60	0	0	1	0	
HOUSTON	72	47	82	31	60	4	1.9	1.1	1.9	4.2	247	52.6	118	92	52	0	1	2	1	
LUBBOCK	62	31	72	21	47	4	0	.1	0	.1	100	20.2	110	86	27	0	3	0	0	
MIDLAND	64	34	74	25	49	2	0	.1	0	.1	50	10.0	72	79	25	0	1	0	0	
SAN ANGELO	67	33	77	22	50	1	0	.1	0	0	0	15.2	81	87	25	0	3	0	0	
SAN ANTONIO	72	44	81	28	58	4	T	.3	T	.6	75	26.3	90	88	40	0	1	1	0	
VICTORIA	74	49	82	34	61	4	T	.5	T	.5	50	42.2	114	99	58	0	0	2	0	
WACO	69	40	79	31	55	3	T	.5	T	.6	60	23.3	74	97	43	0	2	1	0	
WICHITA FALLS	60	31	73	25	45	0	T	.3	T	.2	33	24.6	90	85	40	0	4	0	0	
UT BLANDING	40	18	48	8	29	-3	.3	0	.3	.5	83	15.5	144	83	52	0	7	1	0	
CEDAR CITY	47	26	58	15	37	4	T	.1	T	0	0	13.8	138	70	34	0	5	0	0	
SALT LAKE CITY	47	33	57	21	40	8	.6	.3	.3	1.3	217	21.4	150	79	48	0	3	4	0	
VT BURLINGTON	34	22	39	15	28	2	1.4	.8	.7	2.1	162	46.7	142	82	53	0	6	4	1	
VA NORFOLK	57	38	69	28	47	2	1.0	.3	.6	1.4	100	44.9	102	85	43	0	3	2	1	
RICHMOND	53	31	63	23	42	0	1.2	.4	.7	1.6	100	40.6	96	89	46	0	4	4	1	
ROANOKE	53	32	65	23	43	3	1.1	.4	.6	2.5	192	44.6	117	93	46	0	4	2	1	
WA COLVILLE	29	20	38	8	24	-5	.9	.3	.4	1.0	83	27.0	166	98	93	0	6	5	0	
QUILLAYUTE	45	31	50	23	38	-4	2.9	.7	.8	3.2	44	115.4	124	99	80	0	5	6	3	
SEATTLE-TACOMA	44	36	50	26	40	-2	3.0	1.6	.8	3.2	114	39.3	115	88	68	0	1	6	2	
SPokane	30	21	38	4	25	-5	1.4	.8	.5	1.5	136	21.8	140	99	84	0	7	6	1	
YAKIMA	33	23	38	11	28	-5	1.0	.7	.4	1.1	183	12.1	178	86	71	0	6	5	0	
WV BECKLEY	47	27	60	19	37	1	.5	.2	.3	.9	64	31.4	82	89	58	0	4	4	0	
CHARLESTON	50	34	59	25	42	3	.9	.2	.6	1.6	114	40.8	100	98	56	0	4	4	0	
HUNTINGTON	48	34	56	26	41	2	.8	.1	.4	2.0	143	35.4	90	87	61	0	3	4	0	
PARKERSBURG	46	35	56	29	41	4	.9	.3	.3	1.9	158	43.9	110	80	80	0	2	5	0	
WI GREEN BAY	25	14	31	7	19	-5	.1	.3	T	1.0	143	29.2	106	90	66	0	7	4	0	
LA CROSSE	25	10	31	2	17	-8	.1	.2	.1	.9	150	28.7	93	95	71	0	7	3	0	
MADISON	28	14	34	4	21	-5	.4	0	.2	1.5	188	29.7	97	95	71	0	7	4	0	
MILWAUKEE	31	17	37	9	24	-4	.6	.1	.3	1.9	190	35.3	118	97	71	0	7	4	0	
WAUSAU	23	12	34	6	18	-4	T	.3	T	.7	100	30.2	93	89	59	0	7	2	0	
CASPER	35	15	40	4	25	-2	.2	.1	.2	.2	100	17.6	157	86	62	0	7	3	0	
CHEYENNE	36	19	42	8	28	-3	.3	.1	T	.9	300	20.4	155	83	51	0	6	3	0	
LANDER	31	9	43	-1	20	-5	.3	.2	.3	.4	200	15.3	119	87	49	0	7	2	0	
SHERIDAN	27	8	40	-2	18	-9	.4	.2	.3	.4	100	9.2	61	83	57	0	7	3	0	
PR SAN JUAN	85	75	86	73	80	2	.2	.9	.1	1.5	65	39.6	74	84	64	0	0	3	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

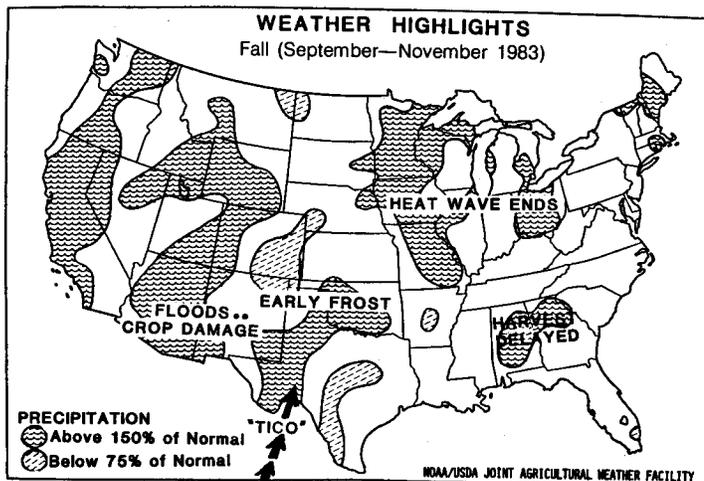
HEATING DEGREE DAY DATA WEEKLY SUMMARY
 CLIMATE ANALYSIS CENTER-NHC-NWS-NOAA
 ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 12-10-1983
 ACCUMULATIONS ARE FROM JULY 1
 ** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM NORM PRCT	CUM DEV FROM L YR PRCT	STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM NORM PRCT	CUM DEV FROM L YR PRCT
AL BIRMINGHAM	BHM	118	-7	22	647	-60	77	-8	14	MT MILES CITY	MLS	381	97	46	2179	15	-156	1	-7
AL MOBILE	MOB	68	-7	21	385	-12	85	3	28	MT MISSOULA	MSO	298	29	-21	2545	125	81	5	-3
AL MONTGOMERY	MGM	89	-15	44	421	-117	118	-22	39	NE GRAND ISLAND	GRI	314	66	58	1489	5	-76	0	-4
AK ANCHORAGE	ANC	304	-44	7	356	-160	-467	-4	-12	NE LINCOLN	LNK	319	72	71	1627	36	38	2	2
AK BARROW	BRW	496	-37	16	7332	-343	-146	5	-2	NE NORFOLK	DFK	331	65	65	1837	47	54	1	3
AK FAIRBANKS	FAI	474	-33	12	4630	-175	-68	-4	-1	NE NORTH PLATTE	LBF	318	60	67	1852	-46	-85	-2	-4
AK JUNEAU	JNU	273	19	48	3101	-31	93	-1	3	NE OMAHA	ON4	311	69	43	1717	197	79	13	5
AK KODIAK	ADQ	165	-81	-21	2554	-563	-413	-18	-14	NE VALENTINE	VTN	351	81	67	2039	59	-76	3	-4
AK NOME	OME	260	-154	-69	4314	-480	-41	-10	0	NV ELY	ELY	265	3	-2	2081	-145	-322	-7	-13
AZ FLAGSTAFF	FLG	231	-6	0	1978	-110	-320	-5	-14	NV LAS VEGAS	LAS	143	15	21	475	-113	-215	-19	-31
AZ PHOENIX	PHX	65	-12	11	236	-43	36	-15	18	NV RENO	RNO	164	-55	-66	1392	-382	-628	-22	-31
AZ TUCSON	TUS	91	8	11	353	4	-37	1	-9	NW BISMARCK	BIS	381	59	73	2493	23	-127	1	-5
AZ WINSLOW	INW	187	-27	23	1096	-149	-113	-12	-9	NW FARGO	FAR	391	53	65	2520	46	-15	3	-1
AZ YUMA	YUM	48	-11	4	142	-37	-35	-21	-20	NW HAMILTON	BGM	228	-25	40	1700	-189	88	-10	5
AR FORT SMITH	FSM	154	1	8	763	-64	-52	-8	4	NY ALBANY	ALB	231	18	32	1720	30	157	2	10
AR LITTLE ROCK	IMI	151	11	21	734	-18	26	-2	6	NY BINGHAMTON	BUF	239	4	58	1634	-32	182	-2	13
CA BAKERSFIELD	BFL	93	-16	-30	362	-108	-214	-23	-37	NY BUFFALO	BUF	239	4	58	1634	-32	182	-2	13
CA EUKEKA	EKA	90	-22	-2	1019	-649	-237	-39	-19	NY NEW YORK	LGA	157	-27	33	1065	-10	117	-1	12
CA FRESNO	FAT	102	-27	-34	436	-189	-228	-30	-34	NY ROCHESTER	ROC	229	-4	48	1587	-55	168	-3	12
CA LOS ANGELES	LAX	62	7	15	207	-120	18	-37	10	NY SYRACUSE	SYR	237	0	48	1767	109	221	7	14
CA RED BLUFF	RBL	114	-7	25	585	-23	-95	-4	-14	NC ASHEVILLE	AVL	143	-27	19	1045	-94	14	-8	-1
CA SAN DIEGO	SAN	35	-14	-9	107	-118	-51	-52	-32	NC CAPE HATTERAS	HAT	84	-19	37	469	-27	152	-5	48
CA SAN FRANCISCO	SFO	82	-21	-17	480	-400	-371	-45	-44	NC CHARLOTTE	CLT	127	-19	37	826	17	128	2	18
CA STOCKTON	SKK	104	-23	-21	507	-98	-206	-14	-29	NC GREENSBORO	GSD	150	-12	47	1008	53	117	6	13
CO DENVER	DEN	254	37	25	1667	21	-158	1	-9	NC RALEIGH DURHAM	RDU	133	-17	37	851	-5	146	-1	21
CO GRAND JUNCTION	GJT	222	-18	36	1209	-282	-223	-19	-16	NC WILMINGTON	ILM	87	-20	36	501	-37	63	-7	14
CO PUEBLO	PUB	206	-8	-12	1362	-120	-207	-8	-13	ND BISMARCK	BIS	381	59	73	2493	23	-127	1	-5
CT BRIDGEPORT	BDR	175	-22	35	1213	18	58	2	5	ND FARGO	FAR	391	53	65	2520	46	-15	3	-1
CT HARTFORD	BDL	219	-13	54	1498	-29	138	-2	10	ND WILLISTON	ISN	416	89	40	2477	-81	-192	-3	-7
DE WILMINGTON	ILG	184	-7	50	1174	7	123	1	12	OH AKRON-CANTON	CAK	215	-10	55	1385	-161	125	-10	10
DC WASHINGTON	DCA	152	-16	50	870	-65	123	-7	16	OH CLEVELAND	CLE	226	7	64	1474	-30	209	-2	17
FL APALACHICOLA	AGG	58	-3	50	261	-2	130	-1	99	OH COLUMBUS	CMH	214	0	54	1291	-44	182	-3	-15
FL DAYTONA BEACH	DAB	37	-5	37	176	34	129	24	274	OH CINCINNATI	CVG	203	1	61	1294	-5	340	0	36
FL FORT MEYER	FMY	8	-13	8	25	-27	15	**	**	OH DAYTON	DAY	223	8	53	1450	49	201	3	16
FL JACKSONVILLE	JAX	55	-11	39	261	-21	98	-7	60	OH TOLEDO	TOL	247	7	62	1618	-38	129	-2	9
FL KEY WEST	EYW	0	-4	0	0	-5	0	**	**	OH YOUNGSTOWN	YNG	222	-9	61	1564	-94	254	-6	19
FL MIAMI	MIA	0	-7	0	4	-10	4	**	**	OK OKLAHOMA CITY	OKC	168	6	13	828	-45	-15	-5	-2
FL ORLANDO	MCO	23	-5	23	91	2	60	**	**	OK TULSA	TUL	157	-3	1	726	-143	-73	-17	-5
FL TALLAHASSEE	TLH	68	-9	50	355	1	174	0	96	OR ASTORIA	AST	150	3	-6	1572	-64	129	-4	9
FL TAMPA	TPA	29	-4	29	87	-23	56	-21	181	OR BURNS	ABW	252	-1	-38	2286	233	-226	11	-9
FL WEST PALM BEACH	PBI	1	-11	1	16	-8	16	**	**	OR MEDFORD	MFR	153	-32	-11	1265	-91	-76	-7	-6
GA ATLANTA	ATL	115	-17	30	709	-8	117	-1	20	OR PENDLETON	PDT	229	35	-12	1493	-36	-235	-2	-14
GA AUGUSTA	AGS	97	-19	39	546	-62	99	-10	22	OR PORTLAND	PDX	144	-17	-22	1127	-215	-103	-16	-8
GA MACON	MCN	96	-9	53	453	-79	102	-15	29	OR SALEM	SLE	136	28	-35	1189	-267	-218	-18	-15
GA SAVANNAH	SAV	76	-13	49	352	-70	109	-17	45	PA ALLENTOWN	ABE	200	-17	58	1382	-56	153	-4	12
HI HILO-HAWAII	IHO	0	0	0	0	0	0	**	**	PA ERIE	ERI	215	-11	46	1352	-290	25	-18	2
HI HONOLULU-OAHI	HNL	0	0	0	0	0	0	**	**	PA HARRISBURG	CXY	195	-10	69	1403	103	290	8	26
HI KAHULUI-MAUI	OGG	0	0	0	0	0	0	**	**	PA PHILADELPHIA	PHL	178	-13	48	1157	9	173	1	18
HI LIHUE-KAUAI	LIH	0	0	0	0	0	0	**	**	PA PITTSBURGH	PIT	211	-8	44	1477	-38	194	-3	15
ID BOISE	BOI	225	5	15	1540	-94	-237	-6	-13	PA SCRANTON	AVP	205	-25	48	1511	-100	108	-6	8
ID LEWISTON	LWS	217	15	-5	1493	-99	-122	-6	-8	RI PROVIDENCE	PVD	194	-17	45	1239	-171	47	-12	4
ID POCATELLO	PIT	236	-20	-35	1893	-128	-320	-6	-14	RI CHARLESTON	CHS	72	-23	39	361	-110	71	-23	24
IL CHICAGO	MDW	273	33	59	1629	84	56	5	4	SC COLUMBIA	CAE	111	-6	45	639	13	86	2	16
IL MOLINE	MLI	284	36	57	1544	-33	67	-2	5	SC GREENVILLE	GSP	132	-9	47	898	108	223	14	33
IL PEORIA	PIA	244	25	67	1368	-155	23	-10	2	SD ABERDEEN	ABR	377	82	109	2284	34	22	2	1
IL ROCKFORD	RFK	300	41	66	1734	2	109	0	7	SD HURON	HON	396	78	98	2116	-3	88	0	4
IL SPRINGFIELD	SPI	240	21	52	1266	-84	-9	-6	-1	SD RAPID CITY	RAP	352	96	65	2060	75	-84	4	-4
IN EVANSVILLE	EVV	171	-18	39	1023	-138	116	-12	13	SD SIOUX FALLS	FSF	365	71	64	2071	21	-48	1	-2
IN FORT WAYNE	FWA	228	-5	61	1334	-229	26	-15	2	TN CHATTANOOGA	CHA	126	-27	17	864	-36	90	-4	12
IN INDIANAPOLIS	IND	242	5	61	1269	-124	31	-9	3	TN KNOXVILLE	TYS	132	-24	25	944	24	151	3	19
IN SOUTH BEND	SNB	246	14	63	1453	-106	71	-7	5	TN MEMPHIS	MEM	120	-19	13	636	-120	25	-16	4
IA DES MOINES	DSM	309	57	48	1656	73	114	5	7	TN NASHVILLE	BNA	124	-32	4	792	-131	35	-14	5
IA DUBUQUE	DBQ	309	36	32	1821	-41	42	-2	2	TX ABILENE	ABI	110	-10	-38	480	-145	-144	-23	-23
IA SIOUX CITY	SUX	334	45	48	1794	59	14	3	1	TX AMARILLO	AMA	164	-13	-47	968	-113	-154	-10	-14
KS CONCORDIA	CNK	301	80	61	1573	202	74	15	5	TX AUSTIN	AUS	61	-19	-27	259	-111	-120	-30	-32
KS DODGE CITY	DDC	242	37	30	1239	-19	16	-2	1	TX BROWNSVILLE	BRO	7	-21	-13	29	-65	-73	**	**
KS GOODLAND	GLD	281	50	43	1657	15	47	1	3	TX CORPUS CHRISTI	CRP	22	-20	-16	101	-86	-84	-46	-45
KS TOPEKA	TOP	269	57	53	1258	-62	-110	-6	-8	TX DEL RIO	DRT	55	-24	-29	251	-88	-94	-26	-27
KS WICHITA	ICT	243	45	37	1201	-43	99	4											

Fall Weather Review

September, October, November



HIGHLIGHTS: Early in the season the first of a series of cool air masses pushed into the Rockies and slowly moved eastward, ending the heat wave that dominated most of the East during the summer. A product of the cooler air was an early frost that reached into the Texas Panhandle and the western portions of the central Plains. With the movement of air masses across the Nation came frequent rains that fell over most of the Nation. Heavy rains in the Southwest damaged cotton and downpours of 8 to 11 inches in parts of Texas and Oklahoma washed out some newly planted winter wheat, but the gain in soil moisture was beneficial in the longer run. Although most of the Nation had above-normal precipitation, some areas did not fare so well. The western portion of the central and southern Plains, from southwestern Nebraska into northeastern New Mexico, got well-below the normal precipitation as did the upper Missouri Valley, where drought prevailed the previous year. Snow began to accumulate in the Cascades and Sierras early in November and by the end of the month was the dominate precipitation type over the Plateau, the Rockies, the northern Plains, and the upper Great Lakes. Average temperatures for the season were near to slightly warmer than normal.

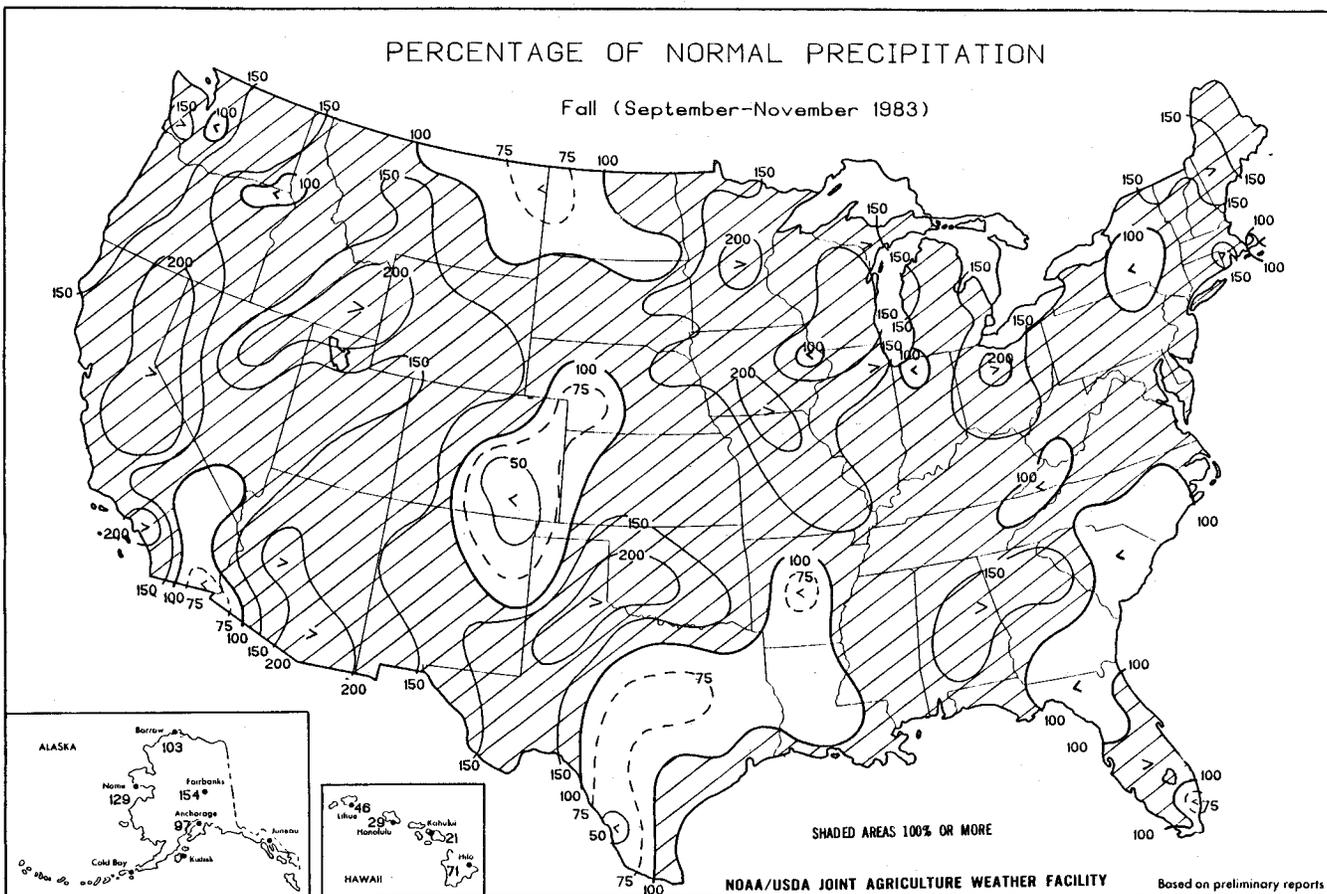
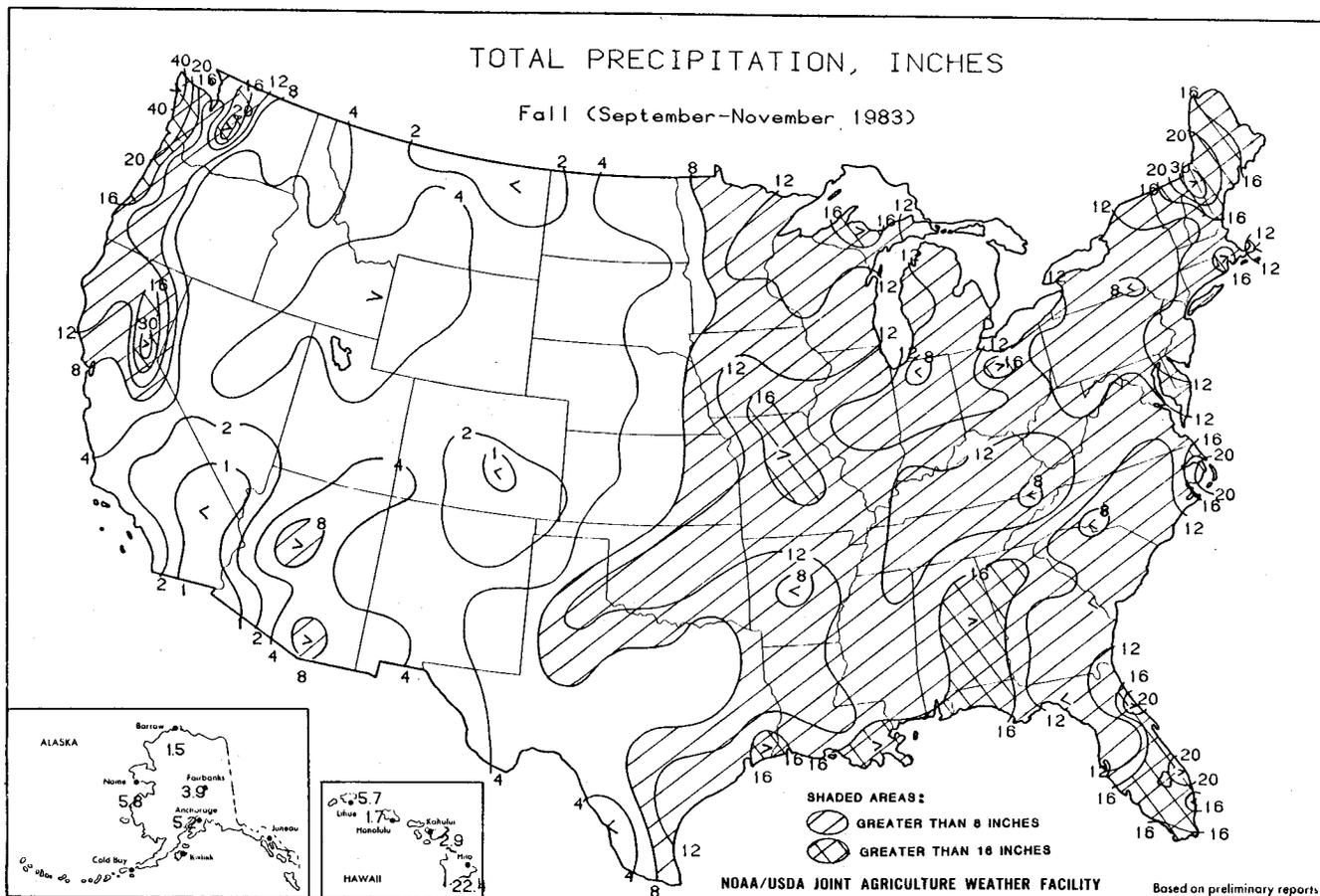
SEPTEMBER... Hot, dry weather dominated the Plains as the month began, but cooler air moved into the Rockies and slowly spread into the Plains. The hot weather moved eastward and some record-high temperatures were recorded in the East Coast States just before mid-month. The cooler air spread over all of the East after midmonth and ended the severe heat wave that had dominated much of the Nation during the summer. Freezing temperatures reached as far south as the Texas Panhandle, about a month earlier than normal, and northeastward to the northern Mississippi Valley. Isolated frost occurred in many parts of the Northeast. Precipitation was adequate in the upper Mississippi Valley and much of the Great Lakes region but very dry weather dominated the area from central Texas into New England. Showers and thunderstorms in the Southeast were beneficial but some parts remained dry. The Southwest was deluged by some heavy downpours which resulted in severe flooding and damaged the cotton crop.

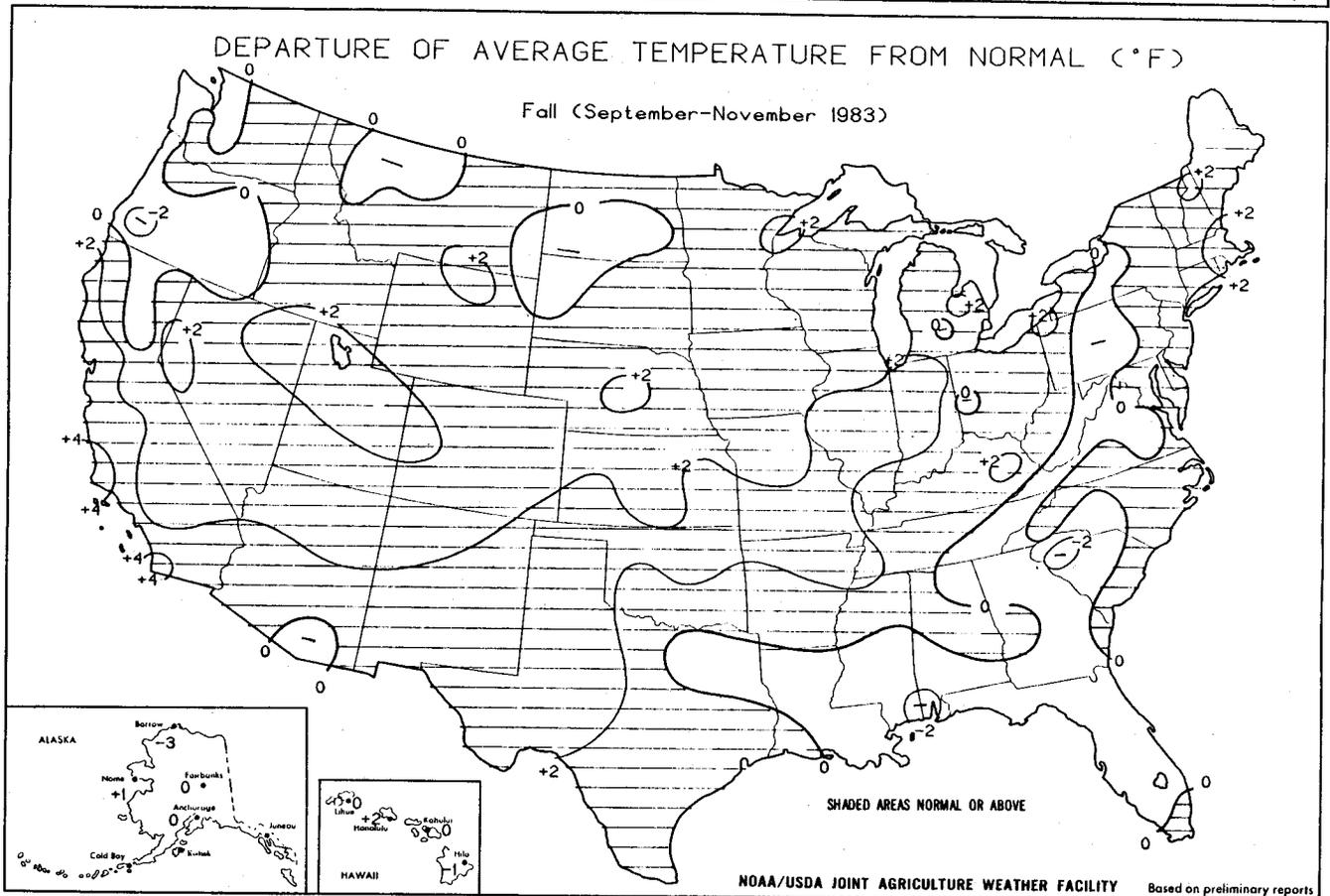
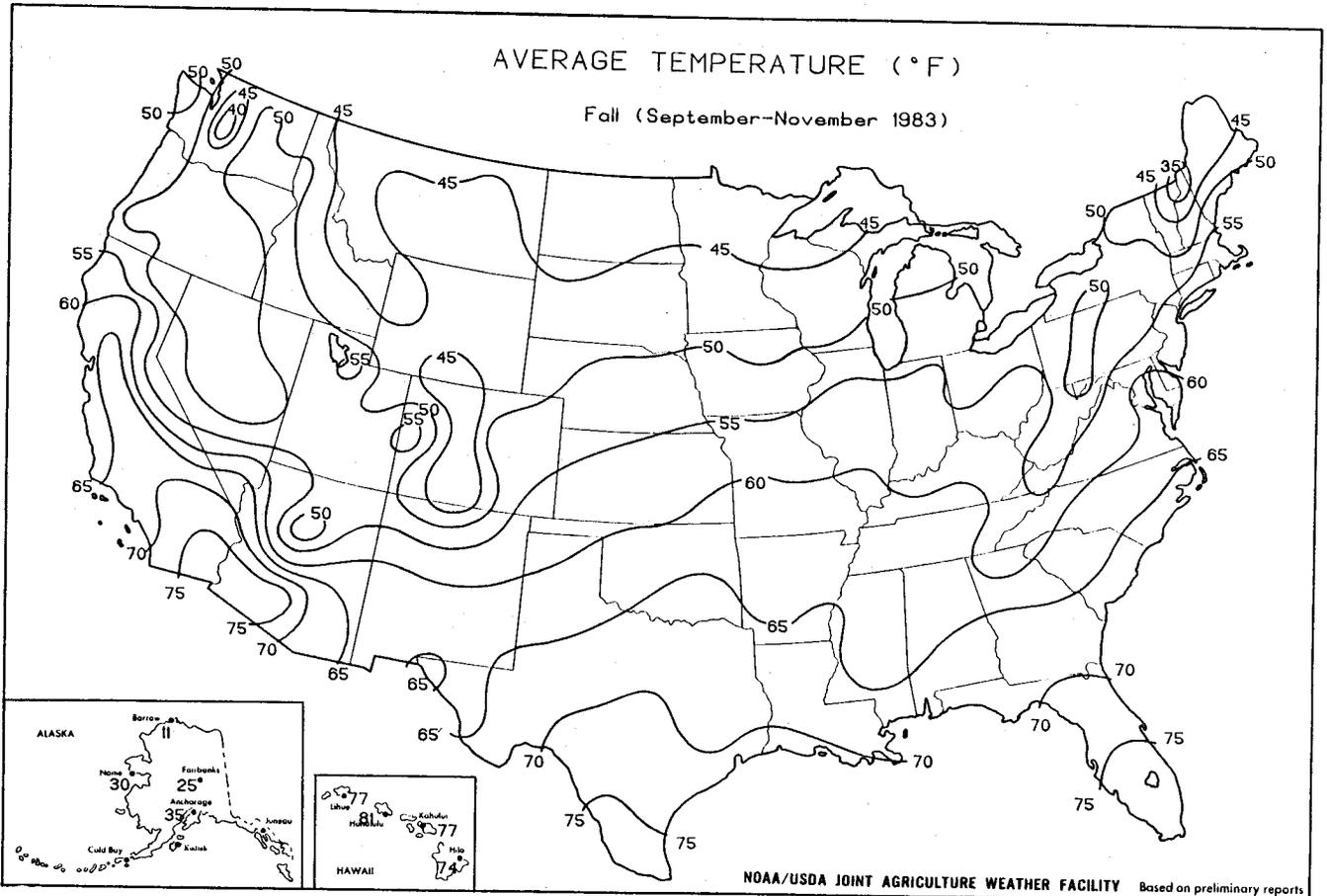
OCTOBER... Tropical moisture from the Pacific continued to pour into the Southwest early in the month and worsened the flood conditions there. Rain in Texas and Oklahoma early in the month got winter wheat seeding off to a good start. Unfortunately, the remnants of Hurricane Tico moved out of Mexico through the Big Bend area of Texas, and triggered heavy downpours over the wheatfields in western Texas and Oklahoma and washed out many acres of newly planted grain. Some grain had to be replanted, but in the long run, the additional soil moisture was beneficial. The moisture spread northeastward and rain covered many previously dry areas from the Texas Panhandle to the upper Ohio Valley and from Arkansas to the mid-Atlantic States. Relatively dry weather in the Southeast allowed harvesting of fall crops to progress. Average temperatures over most of the Nation were near or slightly warmer than normal. There were no outbreaks of unusually warm or cold weather, except in California where temperatures averaged about 4°F warmer than normal.

NOVEMBER... Most of the Nation had above-normal precipitation which was helpful in replenishing soil moisture, depleted during the hot, dry summer. Rain was scarce in southwestern Texas, from northeastern New Mexico into central Oklahoma (parts of this area missed the heavy rain in October and had very short soil moisture supplies), and in the upper Missouri Valley. In the West, snow began to accumulate in the Sierras and Cascades early in the month. By the end of the month, snow was the dominate precipitation type over the Plateau, the Rockies, and from the western portion of the central Plains, through the northern Plains and upper Great Lakes. Snow fell in the Appalachians northward during the first week of the month and the first fall freeze reached into northern Mississippi and Alabama and most of North Carolina. Later in the month freezing weather reached into northern Florida. Late in the month very cold air settled over the Plains and Rockies and freezing temperatures reached through New Mexico and western Texas into Mexico.

National Weather Summary (continued from front cover)

SATURDAY... Rainshowers fell from northern California and Washington across the Plateau to the northern Rockies where it changed to snow. A moist southerly flow triggered showers and thunderstorms across the lower Mississippi Valley and then into the central Mississippi Valley. Freezing rain fell in parts of Iowa and Minnesota and snow covered the northern Plains and Great Lakes region.





National Agricultural Summary

DECEMBER 5 TO 11

HIGHLIGHTS: Snow cover continued to protect winter wheat from the weather across the central and northern Plains and into the Lake States. Torrential rains halted harvesting from the Delta States through the Southeast, and in northern California and the Pacific Northwest. Muddy field conditions across the eastern half of the Nation held field activities to a minimum. Soybean harvesting across the South was halted by wet weather. Soil moisture was adequate to surplus throughout most of the eastern half of the Nation, following recent heavy precipitation. Flooding of low-lying areas in the South damaged soybeans in some areas. Fieldwork in the southern States was limited to 1 to 3 days. Winter wheat was generally rated fair to mostly good. Stands had emerged on 95% of the seeded acreage, 2 points behind the average. Cotton picking rapidly moved toward completion, reaching 93% in the 14 major producing States, compared with the 84% average for this date. Wet fields delayed completion of picking in the Delta States and Southeast. Soybean harvesting reached 96% completion in the 18 major producing States, 1 point behind both last year and the average. Livestock were in generally good condition and producers increased supplemental feeding in most regions.

SMALL GRAINS: Winter wheat seeding was virtually halted in the Southeast. Snow cover protected winter wheat across large areas of the central and northern Plains and into the Lake States, but additional snow would be beneficial in some areas. Wheat stands were rated fair to mostly good across the major producing areas. Stands had emerged on 95% of the acreage in the 15 major producing States, compared with the 97% average. Cold weather in Kansas slowed the development of winter wheat. Top growth was minimal in western districts but was good elsewhere. Wheat stands had emerged on 95% of the acreage, 5 points behind normal. Winter wheat was in mostly good condition in Oklahoma. However, more growth is needed in the far west to prevent wind erosion. Additional snow cover is needed in portions of the northern Plains to adequately protect the winter wheat. In Montana, the crop was rated good with fair to good snow cover protection. Wind damage to wheat fields was minimal. In Texas, winter wheat responded to the open weather and made good growth. However, additional moisture is needed on the High and Low Plains and in parts of South Texas to sustain good growth.

COTTON: In the 14 major producing States, 93% of the cotton acreage had been harvested, well ahead of the 82% picked last year and the 84% average. Picking was virtually complete, except in California, Georgia, New Mexico, Oklahoma, and Texas. Rain and wet fields delayed completion of picking in the Delta States and Southeast, but elsewhere harvesting made rapid progress. Weather conditions were nearly ideal in Arizona as picking reached 98% completion, 8 points ahead of normal. In Texas, cotton harvesting rapidly advanced to 88% finished. Field losses were greater than normal in some areas because of earlier heavy rains. California producers had picked 95% of their acreage, equal to last year and the average. Shredding and discing of stalks continued to be active.

SOYBEANS: Harvesting reached 96% completion in the 18 major producing States, 1 point behind both last year and the average. Harvesting continued to lag in 10 of the major States--as much as 15 points less than average in South Carolina and 8 points less in Kansas. Continued wet field conditions and localized flooding halted

harvesting in the Delta States and Southeast. Combining neared completion in the Corn Belt and South-central States, but was only 80% finished in the Southeast, 7 points behind normal.

OTHER CROPS: Sorghum harvesting was virtually finished. Only a few fields, too soft to carry harvesting equipment, remain for harvest.

Tobacco growers in Florida began seeding plant beds. In other areas, producers continued marketing, stripping, and preparing plant beds for next year's crop. Tennessee growers stripped 77% of the burley crop. In Virginia, fire and sun-cured tobacco marketing increased in volume, while burley stripping, grading, and marketing continued.

Texas peanut harvesting declined in the Cross Timbers and Plains areas, as digging advanced to 97% completion. Digging was complete in the Southeast.

The sugarcane harvest was very active in Florida, Louisiana, and Texas. Harvesting in Louisiana reached 88% completion, 6 points ahead of last year.

FRUITS AND NUTS: Florida citrus groves continued in good condition; soil moisture was generally sufficient. The opening of more processing plants caused increased harvesting. Picking for fresh market increased to meet holiday season demand. In the Lower Rio Grande Valley of Texas, citrus harvest continued to expand. Citrus groves were in good condition in Arizona, with fruit sizing normally. Lemons and grapefruit were picked in normal volumes in the Yuma area, while shippers moved large volumes of Navel oranges, tangerines, lemons, and grapefruit from the Central Valley. Vineyards and deciduous fruit orchards were pruned and sprayed in California. Hass and Zutano avocado harvesting continued. Emperor table grapes moved for export. Lemon and Navel orange picking continued active.

Pecan harvesting was 72% complete in Georgia, 71% in Louisiana, 80% in Mississippi, and 75% finished in Texas.

VEGETABLES: Vegetable shipments rose 5% over the previous week. Cabbage, carrots, cauliflower, Chinese cabbage, escarole, lettuce, green peppers, and Southern peas increased in volume, while snap beans, celery, cucumbers, eggplant, okra, squash, and tomatoes held steady. Only radish shipments declined. Strawberry picking started in Florida. Frost ended the production of most remaining fall vegetables in the Trans-Pecos region of Texas. Carrots, cabbage, broccoli, and spinach were available from the San Antonio-Winter Garden area. Harvesting of fall vegetables was active in the Rio Grande Valley. Vegetable crops were in good condition and maturing normally in Arizona. A variety of vegetables were shipped from the Salt River Valley. Lettuce and broccoli cutting increased in the Yuma area. Broccoli harvesting was moderate in California's central coast, but light elsewhere. Carrots were harvested in moderate volume in the central coast and San Joaquin Valley. Cauliflower supplies were light and diversion to freezers was heavy. Lettuce harvesting was active in the Palo Verde Valley and increasing in the Imperial Valley.

PASTURES AND LIVESTOCK: Pastures were in fair to good condition across the southern portion of the Nation. Growth of forage wheat and oats continued to increase, reducing the dependence on permanent pastures in Texas. Livestock continued in generally good condition as supplemental feeding continued in most areas of the Nation.

CROP PROGRESS

FOR WEEK ENDING DEC 11, 1983

WINTER WHEAT % EMERGED				SOYBEANS % HARVESTED				COTTON % HARVESTED			
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
CALIF	60	60	55	ALA	93	93	92	ALA	98	98	94
COLO	88	99	99	ARK	94	96	95	ARIZ	98	75	90
IDAHO	100	100	100	GA	87	89	92	ARK	99	96	98
ILL	100	100	100	ILL	100	100	100	CALIF	95	95	95
IND	100	100	100	IND	100	100	100	GA	93	96	97
KANS	95	100	100	IOWA	100	100	100	LA	99	95	98
MO	93	92	93	KANS	90	100	98	MISS	99	96	98
MONT	100	100	100	KY	98	99	99	MO	100	100	100
NEBR	100	100	100	LA	99	93	98	N MEX	73	90	85
OHIO	100	100	100	MICH	100	100	100	N C	100	87	98
OKLA	95	75	96	MINN	98	99	99	OKLA	85	30	60
OREG	98	97	98	MISS	95	91	97	S C	100	100	99
S DAK	100	100	100	MO	94	100	100	TENN	100	100	93
TEX	95	91	91	NEBR	98	100	100	TEX	88	74	73
WASH	100	100	100	N C	80	76	83				
15 STATES	95	94	97	OHIO	100	100	100				
				S C	70	85	85				
				TENN	96	100	92				
								14 STATES	93	82	84
				18 STATES	96	97	97				

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

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

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

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures above normal. Rainfall 2.00 to 4.00 in.

Fieldwork 2.5 days. Soil moisture adequate to surplus. Soybeans harvested 93%, 1982 93%, average 92%. Wheat seeded 92%, 1982 91%. Conditions: Pasture and livestock fair and wheat fair to good.

ARIZONA: Scattered light showers over eastern two-thirds State on 11th, amounts ranged from trace to 0.25 in. Mostly sunny skies over southern half, partly cloudy over northern. Temperatures on cool side first of week, mild remainder. Average temperatures 4° below normal to 6° above.

Cotton 98% picked over once, 75% last year, 90% average. Weather nearly ideal for harvesting activities most of season. Harvest activities delayed by showers, wet soils in Central Valley. Land preparation wheat, barley seeding active, seeding widespread. Many stands established, few fields in Yuma area near jointing stage. Corn, sorghum harvest practically complete more important growing areas, underway in northern counties. Lettuce packing continued slower pace Central Valley as harvest neared completion. Lettuce, broccoli harvest picked up momentum Yuma area. Some lettuce, broccoli packed in Parker area, shipments winding down. Mixed vegetable movement strong Salt River Valley. Vegetable crops good condition, growth, maturity normal. Shippers in Central Valley moving Navels, tangerines, lemons, grapefruit in volume. Lemons, grapefruit harvested, packed in Yuma area, volumes normal. Fruit not yet ready for harvest, sizing, maturing normally. Citrus groves good condition.

ARKANSAS: Scattered light rain early in week, locally heavy rain later. Precipitation totals mostly 1.00 to 2.00 in. Maximum 4.15 in. Temperatures from -4° to +4° above normal. Highest 73°, lowest 16°.

Soil moisture adequate to surplus. Soybeans virtually all harvested. Remaining fields wet. Quality and yields down. Wheat good condition. Some areas under water, planting over. Some rye and wheat grazing. Cattle fair to good condition. Farmers feeding hay and supplements.

CALIFORNIA: Precipitation was scattered throughout the week and over most of the State. The southeast Interior Desert area received the least, while the coast generally had over 1.00 in. with up to 5.00 in. along the north coast. The Sierra-Cascade area received around 3.00 to 4.00 in. and inland Sacramento Valley as much as 3.00 in. on the northern end. Mean temperatures were mixed along the coast and the Central Valley but were generally below normal Sierra Nevada and Interior Desert.

Weather permitted little fieldwork northern half. Southern half open, good progress harvesting late crops, seeding small grains, other activities. Cotton 95% harvested, same as year earlier and average. Shredding and discing progressing. Winter seeded wheat 60% emerged, year ago same, average 55%. Late grain sorghum harvest slow. Growers waiting lower moisture. Late corn silage harvest nearing completion southern half. Sugarbeet harvest continues. Some alfalfa baled Imperial County. Storms slowed Sacramento Valley fieldwork. Apple trees pruned, spraying set to begin. Hass and Zutano avocado harvests continue. Grape vines pruned and irrigated San Joaquin Valley.

Emperor table grapes moving for export, some repacking needed. Dormant spraying and pruning in stone fruit orchards. Soil ripping between tree rows and herbicide applications underway. Hurberies digging bare root trees for shipment. Lemon and Navel orange harvests continue. Wet fields delaying fieldwork northern half of State. Broccoli harvest moderate Central Coast, light other districts. Cantaloup harvest nearly complete Imperial Valley. Carrot volume moderate Central Coast, San Joaquin Valley, light Desert areas. Cauliflower fairly light supply, heavy diversion to freezers. Celery fairly light supply. Lettuce harvest active Palo Verde Valley, increasing Imperial Valley. Light potato harvest West Riverside. Moderate potato movement from storage Tulelake. Light harvest market tomatoes South Coast. Warm, sunny days needed to give foothill range feed boost. Supplemental feeding necessary few areas due slow grass growth. Lambing nearing end. Calving active.

COLORADO: A series of storm systems moved across the State with heavy snow confined mainly to the mountain areas. However, the storm on 11th and 12th did dust the eastern Plains with snow but most amounts totaled less than 1.00 in. Temperatures across the State were near to below seasonal normal.

FLORIDA: Unseasonably warm temperatures gave way to some of the coldest readings this season during latter half of week with warm air returning at weekend. Frost, freezing temperatures occurred Panhandle, north 7th through 9th. Patchy frost occurred into central Interior, morning of 8th. Heavy rains of 1.00 in., Panhandle early week; 1.00 to 2.00 in. Panhandle, north late on 11th. Rains exceeded 1.00 in. south, 10th.

Soil moisture mostly adequate. A few dry central areas, recent rains helpful. Soybean, cotton harvest nearing completion, delayed by wet conditions. Some hay still being made central, south. Sugarcane harvest active. Seeding of winter wheat continues. Little fieldwork at this time. Tobacco farmers preparing to seed tobacco plant beds. Grazing of winter plantings began, many northern, Panhandle localities as permanent pastures went into dormancy following heavy frosts. Grazing conditions mostly fair, Panhandle, north; fair to good, south. Cattle remain in good condition, south, fair to good elsewhere. Citrus groves continue in good condition. Soil moisture generally sufficient, limited irrigation where growers have permanent systems. Harvest increasing with the opening of more processing plants. Harvest for holiday fresh trade active. Cold front moved through vegetable area midweek. Nighttime lows dipped into the low 40's most of the week. Daytime highs reached only the 60's when cold front passed. Rainfall limited to light, scattered showers. Vegetables shipped rose 5% from previous week. Crops increasing were cabbage, carrots, cauliflower, Chinese cabbage, escarole, lettuce, green peppers, and Southern peas. Crops remaining steady were snap beans, celery, cucumbers, eggplant, okra, squash and tomatoes. Radish shipments declined. Strawberry harvest getting underway. Fair volume expected by next week. Most crops in good condition. Harvest active. Land preparation spring planting underway, some light planting started.

GEORGIA: Week was much warmer and wetter than normal. Temperatures were 4 to 8° warmer and precipitation averaged around 5.00 in. in north; 2.00 in. central and near 1.00 in. in south. The 10th, mostly sunny. Clouds increased late

10th with showers and thundershowers over-spreading on 11th. Rainfall on 11th, generally between 1.00 and 2.00 in. Temperatures 5 to 10° above normal.

Soil moisture: 37% adequate, 62% surplus. Average days suitable for fieldwork 2.2. Major activities: Harvesting soybeans, pecans and cotton and planting small grains. Crop progress: Cotton 93% harvested, 96% last year, 97% average; soybeans 87% harvested, 89% last year, 92% average; wheat 85% planted, 88% last year, 88% average; rye 97% planted, 96% last year, 94% average; other small grains 94% planted, 94% last year, 93% average; pecans 72% harvested, 86% last year, 82% average. Conditions: Cotton 21% poor, 56% fair, 15% good; soybeans 24% poor, 56% fair, 14% good; pecans 15% poor, 61% fair, 22% good; wheat 39% fair, 58% good; rye 38% fair, 59% good; other small grains 35% fair, 63% good; pastures 18% poor, 44% fair, 36% good.

HAWAII: Weather continued dry under mostly clear skies. Very light showers were restricted to the windward side of most Islands. Night-time temperatures were relatively cool and helped to control insect populations.

Cabbage supplies are expected to remain heavy. Tomato supplies will increase as new fields come into harvest. Lettuce yields continue to improve with the cooler weather. Papaya production remains high but is seasonally decreasing. Anthracnose, a potential serious fungal disease, had appeared on mature papaya fruit. Dry weather has stressed some non-irrigated crops, most notably affected are bananas and cucumbers.

IDAHO: A westerly flow aloft brought numerous storm systems to the State. Snow was the rule during the early part of the week, but warmer air brought a return to rain at lower elevations by midweek. Temperatures ranged from slightly above to much below normal. Greatest below normal departures were the far north. Sandpoint was 7° below normal. The rest of the State was 1° to 3° below normal except in the south central region where Twin Falls was 1° above normal. Precipitation amounts ranged from a trace at Moscow to over 1.00 in. in many locations. Departures were well over 1.00 in. above normal in all but the Panhandle.

Snow removal remained a major activity, along with cattle feeding and wood gathering. Farmers were harvesting Christmas trees. Some potato seed sorting was being done to ready it for next spring. Livestock and feed supplies were in good condition.

ILLINOIS: Temperatures 6° below to 5° above normal. Precipitation 1.05 to 2.56 in. Heaviest amounts east.

Soybean harvest virtually complete. Wheat emerged 100%, 1982 100%, average 100%; condition fair to good. Livestock condition good.

INDIANA: Cool, wet weather with subnormal daytime temperatures. High in 40's. Low in teens. Precipitation heavy and some snow. Total 1.60 to 2.00 in. north, 1.30 to 1.70 in. central and 1.10 to 1.30 in. south.

Rain or snow halted virtually all fieldwork. Some harvesting or tilling was attempted during a brief period when soils froze, but this lasted only a few hours. Soybeans 100% harvested, 1982 100%, average 100%. Wheat 100% emerged, 1982 100%, average 100%.

IOWA: A cold week. Temperatures varied from 10° below normal in the west to 6° below in the northeast and east central. The southeast

and east central districts received the greatest rainfall with amounts two to three times the normal. Hazardous freezing rain fell Statewide during the weekend. State snow covered with amounts up to 11 in. at Storm Lake.

Soybeans harvested 100%, 100% last year, 100% average.

KANSAS: Precipitation averaged up to 0.10 in. central and west, 0.33 to 0.50 in. east. Temperatures averaged 23° north central to 35° southeast, 27 to 32° elsewhere. These were 2° below normal southeast, 10° below normal north central, 4 to 6° below normal elsewhere.

Wheat acreage emerged 95%, last year 100%, average 100%. Minimal top growth western districts, other areas good top growth. Temperatures too cool for much development. Soybean acreage harvested 90%, last year 100%, average 98%. Fields still too soft to carry harvesting equipment. Some grazing of pastures, wheat land and stubble but livestock on winter rations.

KENTUCKY: Wet and cool weather. Strong storm systems continued to move through every few days with measurable rain. Total rainfall averaged from 0.50 to 1.00 in. with additional amounts on 11th. Temperatures below normal. Highs mid to upper 40's compared with normals near 50. Lows remained in 30's.

Soybean 98% harvested, 99% last year and average. Soil moisture adequate to surplus, with standing water in some lowlands. Ponds and stock dams mostly refilled after summer drought.

LOUISIANA: Rainfall 0.46 to 5.55 in. Temperatures ranged 1 to 4° above normal. High 81°, low 25°.

Soil moisture supplies adequate to surplus. Cotton harvest virtually complete, 95% 1982, 98% average. Soybean harvest 99%, 93% 1982, 98% average. Sweetpotato harvest 99%, 98% 1982. Sugarcane harvest 88%, 81% 1982. Wheat seeded 97%, 84% 1982; wheat emerged 96%, 75% 1982, condition fair to good. Pecan harvest 71%, same as 1982. Vegetables rated fair to good. Pastures rated fair. Cool, wet weather slowing growth. Livestock fair to good; supplemental feeding active.

MARYLAND AND DELAWARE: Maryland: Temperatures averaged near normal. Departures from normal ranged from 2° below to 2° above normal. Precipitation totals were mostly 1.00 in. above the normal. Minimum temperatures were mostly in the low to mid 50's in north and west to mid 50's to low 60's elsewhere. Minimum temperatures were in the teens in extreme west and mid to upper 20's elsewhere. Rainfall averaged 1.64 in. for the State. The 10th was mostly sunny with high temperatures in the low 50's and lows in the mid 30's. The 11th was cooler with highs in the upper 40's and lows in the low 30's.

Delaware: Week 1 to 3° above normal and precipitation averaged 1.74 in. Maximum temperatures averaged in the mid to upper 50's while lows were mostly around the mid 20's. Precipitation ranged from 1.55 in. at Georgetown to 2.00 in. at Dover. The 10th was mostly sunny with highs in the mid 50's and lows in the mid 30's. The 11th was cloudy with temperatures near that of 10th.

MICHIGAN: Winter-like weather. Temperatures averaged 4° below normal. Moderate amounts of snow fell over the State several times. Farming activities were slow. Soybean harvesting complete same as last year and normal.

MINNESOTA: Temperatures averaged 7 to 11° below normal. High: 36°, low: -29°. Precipitation averaged 0.12 to 0.21 in. above normal for southwest, south central and northeast, and near normal elsewhere. Greatest reported weekly total: 0.95 in. Snowfall ranged from 3 to 10 in. for the northeast and 1 to 3 in. elsewhere. Snow depth at weeks end ranged from 1 to 8 in. for the western 1/3 of the State and southeast, and 9 to 25 in. elsewhere.

MISSISSIPPI: Temperatures slightly above normal. Extremes 20 and 79°. Rainfall Statewide: greatest 24-hour total 4.55 in.

Soil moisture surplus to adequate. Fieldwork 1.8 days suitable, 1.4 1982, 3.1 average. Soybeans 95% harvested, 91% 1982, 97% average. Pecans 80% harvested, 87% 1982, 84% average. Wheat condition good to fair; 96% planted, 90% 1982, 95% average. Cotton 99% harvested, 96% 1982, 98% average. Pasture and livestock condition fair to good. Feed and hay supplies adequate.

MISSOURI: Cold air covered most of the State as temperatures ranged from 1 to 8° below normal except over the Bootheel where it was 6° above normal. Rainfall was widespread ranging from 0.10 in. in the northwest to 1.25 in. in the southeast and Bootheel.

Minimal amount of harvesting accomplished due to wet fields.

MONTANA: Another very cold week, temperatures averaged 5° below normal in west and southwest, to near 15° below normal in northeast and southeast and up to 20° below in north central area. Subzero temperatures were noted again over much of the State. Precipitation moderate to heavy over all except north central and northeast. Heaviest was noted over west, southwest, and south central mountains. Amounts in these areas were generally 0.50 to 1.50 in. Light precipitation fell over north central and northeast, less than 0.10 in.

Winter wheat condition good, snow cover protection ranges fair to good. Wind damage on winter wheat fields light. Majority of cattle and sheep on supplemental feed. Grazing mostly difficult, livestock condition generally good.

NEBRASKA: Winter weather continued. Freezing rain at beginning and end of week. Precipitation generally less than 0.10 in. Temperatures 10° below normal except in Panhandle only 3° below normal.

NEVADA: A series of storm fronts moved across State. Most precipitation fell northern and central, although southern areas had light, scattered showers also. Cloud cover kept nighttime temperatures on mild side in northern sections. Winds were gusty most of week. Southern areas had temperatures slightly cooler than normal. Clear skies in south allowed heat loss during night. Average temperatures in south lower than north.

Grading and marketing potatoes continuing. Rain and snow showers made livestock feeding operations difficult.

NEW ENGLAND: Warmest temperatures occurred on 5th, 6th, 8th, and 9th. High was 59° at Woonsocket, R.I.; lowest, 17° below zero at Diamond Lake, N.H. Precipitation ranged from 0.20 in. at Westfield, Mass. to 2.40 in. at Bangor, Maine, with northern New England getting the most. Snowfall occurred mostly 5th and 6th. Clayton Lake, Maine measured 13 in. of new

snow, Diamond Lake, N.H. had a total of 22 in. of snow on the ground on 11th.

NEW JERSEY: Temperatures above normal, averaging 35° north, 39° south and 42° coastal. Extremes 15 and 59°. Precipitation slightly above normal, averaging 0.67 in. north, 0.66 in. south and 0.77 in. coastal. The heaviest 24-hour total 0.74 in. on 6th to 7th.

Fieldwork: farmers caring for livestock, pruning fruit trees, selling Christmas trees, completing corn and soybean harvest as weather permits.

NEW MEXICO: Average temperatures 3 to 5° above normal east and south, near or slightly below normal northwest. Minimum temperature: -13° northern mountains. Maximum temperature: 69°, southern desert. Precipitation limited to few light showers, mountain areas.

Soil moisture supplies adequate. Cotton harvest 73% complete, compares with 90% last year, 85% average. Irrigated wheat, barley rated good. Dryland fields fair to good. All being grazed. Sorghum grain 95% harvested. Peanuts all threshed, some storage problems. Mesilla Valley pecans 40% harvested and red chile harvest continues. Ranges fair, snow covered north. Cattle, sheep good on wheat pasture. Native grass too short to carry many livestock over winter.

NEW YORK: Early week, there was 1 in. of snow in west and up to 6 in. in east with fair in the southeast. On 7th, heavy snow squalls in the lee of the lakes. Temperatures averaged near 32°.

NORTH CAROLINA: Temperatures 4 to 7° above normal from eastern Piedmont to the coast, elsewhere near to slightly above normal. Precipitation mostly above normal.

Soil moisture: 1% short, 52% adequate, 47% surplus. Days suitable for fieldwork: 2.6. Condition: Wheat: 15% fair, 82% good, 3% excellent. Oats: 14% fair, 85% good, 1% excellent. Barley: 11% fair, 86% good, 3% excellent. Rye: 14% fair, 85% good, 1% excellent. Harvests: Soybeans: 80%, 1982 76%, average 83%. Cotton: 100%, 1982 87%, average 98%. Farm feed supplies: Hay and roughage: 26% short, 74% adequate. Feed grains: 29% short, 71% adequate. Major farm activities: Soybean harvest, grading and marketing burley tobacco, cutting Christmas trees and firewood, preparing tobacco plant beds, tending livestock, and general farm maintenance.

NORTH DAKOTA: Very cold week. Temperatures ranged from 8° below normal northeast to 14° below normal southwest. Extremes were 29° central on the 4th to -20° northeast on the 9th. Precipitation was light and ranged from a trace northeast to 0.10 in. southwest. Snowfall was generally under 2 in. and confined mostly to the southern half of the State.

Additional snow cover needed in most areas to adequately protect fall seeded crops. Most livestock wintering in good condition with over 80% receiving supplemental feed. Feed supplies adequate to plentiful.

OHIO: Daytime temperatures 1 to 3° below normal; nighttime 2 to 5° above normal. Range from upper teens to mid 40's. Precipitation 6 out of 7 days. Totals above normal. Range from 0.60 to 2.00 in.; heaviest in west central and northwest. Snow 1.00 to 4.00 in. central and north completely melted. Average soil temperatures upper 30's.

Wheat condition good. Winter wheat emerged 100%, 100% 1982, 100% average. Soybeans harvested 100%, 100% 1982, 100% average.

OKLAHOMA: Temperatures averaged from 3° below normal north central to 2° above normal east central. Precipitation averages ranged from zero Panhandle and west central to 1.30 in. southeast.

Wheat in mostly good condition. More growth needed in far west to prevent wind erosion. Cotton in fair to poor condition. Cattle in good condition. Wheat emerged: 95%. Cotton harvested: 85%.

OREGON: Precipitation at coast of 3.00 to 6.00 in. Western valleys had up to 4.00 in. of precipitation and central areas had up to 2.00 in. precipitation, up to 1.00 in. southeast and south central. Less than 0.20 in. of precipitation in northeast. Normal temperatures at coast and Willamette Valley. Central and eastern areas 2 to 5° cooler than normal.

Winter wheat 98% emerged, about normal. Condition of the crop mostly good, with most fields east of Cascades snow covered. West of Cascades spraying being done as conditions allow. Some late vegetables still being harvested. Soil moisture supplies adequate to surplus. Winter range and pasture condition good. Livestock condition good.

PENNSYLVANIA: A series of frontal systems brought rain with some snow to State. Most of the precipitation fell during the first half of the week. The State average was 1.94 in., 0.22 in. above normal. Average temperature was 34°, 2° above normal. Extremes were 64 and 6°.

PUERTO RICO: No report available.

SOUTH CAROLINA: Much wetter than usual with heavy rains in northwest, some lowland flooding. Warmer than usual although below freezing several mornings.

Continuing rains delay soybean harvesting, now 70%, 85% last year and average. Some concern about moisture damaging soybean crop. Pastures, small grains benefitting from warmth, adequate moisture.

SOUTH DAKOTA: Average temperatures 6 to 14° below normal. Extremes: 45 and -20°. Precipitation widespread and light to moderate. Heaviest amounts west with 1.47 in. of precipitation from 12 in. of snow.

Harvest complete. Winter wheat emerged 100%, 1982 100%, average 100%.

TENNESSEE: Widespread rainfall covered the State early in the week with heavier rainfall occurring in the State on 11th. Some above normal amounts of precipitation across the middle portion of the State. Temperature averages were near normal in the west and 1 to 2° above normal in the middle and east.

Corn harvested 98%, 1982 98%, average 96%. Cotton harvested 100%, 1982 100%, average 93%. Soybeans harvested 96%, 1982 100%, average 92%. Burley tobacco stripped 77%, 1982 93%, average 84%. Wheat sown 96%, 1982 98%, average 91%. Pastures good.

TEXAS: Temperatures averaged above normal while only East and Southeast Texas reported significant totals. A weak front entered the State at the beginning of the week triggering

widely scattered showers over Northeast Texas while a stronger front brought moderate to heavy rainfall over sections of East and Southeast Texas on 9th and 10th. Little or no rain fall over the High Plains, Lower Valley, Edwards Plateau and South Texas.

Crops: Week brought coldest temperatures of season deep into Texas, but moisture was very limited. Cool, dry conditions benefitted harvest of the remaining crops. Small grains continue to make good progress. Frost ended growth of most remaining summer and fall season plants. Cotton harvest moved rapidly during week. Field losses greater than normal in some areas from earlier rains. Small grains responded to the open weather and continue to provide adequate grazing. Additional moisture needed on High and Low Plains and parts of South Texas. Harvest of soybeans resumed as fields dried and harvest conditions improved. Peanut harvest winding down in the Cross Timbers and Plains area. Sugarcane harvest continues Rio Grande Valley.

Cotton harvested 88%, 74% 1982, 73% average. Wheat planted all purposes 99%, 100% 1982, 99% average; emerged 95%, 91% 1982, 91% average. Peanuts harvested 97%, 97% 1982, 97% average. Soybeans harvested 99%, 96% 1982, 96% average. Sugarbeets harvested 97%, 99% 1982, 97% average. Pecans harvested 75%, 79% 1982, 69% average. Oats planted for all purposes 100%, 96% 1982, 98% average.

Commercial vegetables: In Lower Rio Grande Valley, harvest of fall vegetables active. Supplies of peppers, tomatoes, lettuce and cabbage available. Citrus harvest continues to expand. In San Antonio-Winter Garden area, most fall vegetables doing well. Supplies of carrots, cabbage, broccoli and spinach available. In Trans-Pecos region, cabbage harvest continued with limited supplies. Frost ended most remaining fall vegetables. Pecan harvest progressed rapidly as cool, dry conditions aided nut harvest.

Range and livestock: Livestock remain in generally good condition as supplemental feeding continues most areas. Forage growth of wheat and oats continues to increase and is reducing dependence on permanent pastures. Moisture still needed most areas for continued improvement.

UTAH: Recurring periods precipitation. Accumulation moderate to heavy north, light to moderate south. Temperatures near normal except below normal Uinta Basin and extreme southwest.

Activities limited to morning and evening chores and care of livestock. Sorting and marketing of onions, potatoes, and apples continue.

VIRGINIA: Average rainfall of 1.60 in. distributed evenly over the State with little sunshine. Average temperature departure was +1°. The warmest temperatures were at mid-period and the coldest at end of the week.

Topsoil moisture increased to 54% adequate, 46% surplus. Days suitable for fieldwork 2.1. Soybean harvest faster than normal despite rain; reached 85% complete, close to 1982's average 90%. Sorghum harvest progressing well at 90% complete, 91% last year, 86% average. Burley stripping, grading and marketing continue. Fire and sun-cured marketing picking up. Small grains still reported good condition with wheat still being seeded few areas.

WASHINGTON: Week began with easterly flow of cool air over State as high pressure to north and low pressure to south dominated weather pattern. Upper level southwesterly flow

intensified on 5th and brought rain to west and snow to east of Cascades. The 6th found weak high pressure system and relatively cool, dry conditions over State. But another, quite strong, low pressure system crossed State on 8th and 9th. This storm brought warmer temperatures and significant precipitation to all of State.

Raspberry canning and pruning still being done. Some carrots still remain and may be harvested later for fresh market. Christmas tree harvest continues. Most eastern areas reporting some snow cover with winter wheat in good condition. Snowfall has brought grazing season to an end and most livestock on winter rations. In Yakima County, some cattle grazing turnip fields prior to being put on winter feeding programs. Livestock reported in good condition.

WEST VIRGINIA: Temperatures averaged 4° above normal Statewide, except the northwestern region where the average was 10° above normal. Low 10°, high 63°. Precipitation well above normal except the southern areas which was slightly below normal. Light snowfall on the 7th.

Soil moisture adequate. Days suitable for fieldwork averaged 1.9. Main activities were: General maintenance and livestock feeding.

WISCONSIN: Precipitation was a little below normal in the northwest, well above normal southeast. Two snow events of 1 to 6 in. each occurred in the south. The Statewide precipitation occurred 11th with up to 7 in. of snow in the northwest and 0.50 to 1.00 in. rain in the southeast. Temperatures averaged below normal, with the coldest period on 8th through 10th when highs were generally in the teens and 20's and lows were near 0°.

WYOMING: Average temperatures more seasonal, but still below normal. Strong winds battered south half. Precipitation above normal northwest, central and northeast.

Winter wheat mostly good condition. Corn harvest continues as weather permits. Livestock mostly good condition with supplemental feeding due to snow cover. Hay supplies adequate most areas. Other activities include marketing livestock, weaning, general maintenance.

December Crop Production Highlights

ALL COTTON production forecast at 7.62 million bales, 36 percent below 1982 production but 2 percent above a month earlier.

DRY EDIBLE BEAN production forecast at 15.5 million hundredweight, 38 percent below 1982.

BURLEY TOBACCO production forecast at 453 million pounds, 44 percent below record high crop produced 1982.

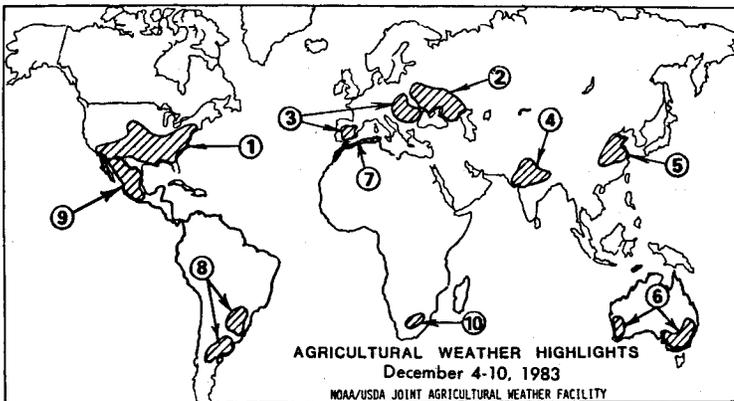
CITRUS production forecast at 13.9 million tons, 4 percent above last season.

ORANGE production forecast at 223 million boxes, unchanged from October 1 forecast, virtually the same as last season.

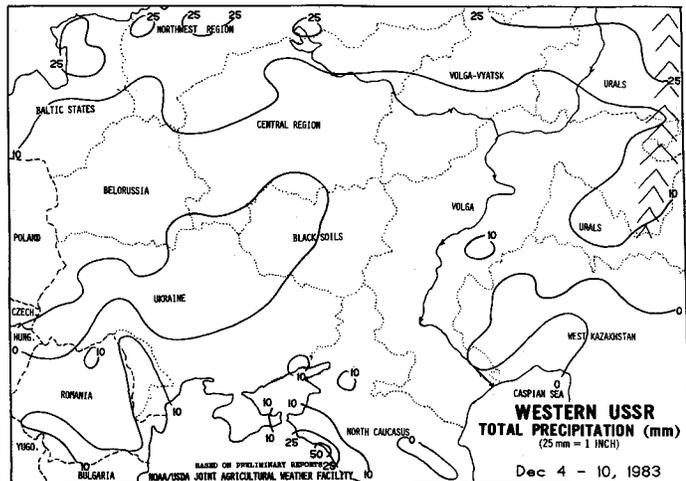
GRAPEFRUIT production (excluding California "other areas" crop) forecast at 63.9 million boxes, unchanged from last month, but 11 percent above 1982-83.

International Weather and Crop Summary

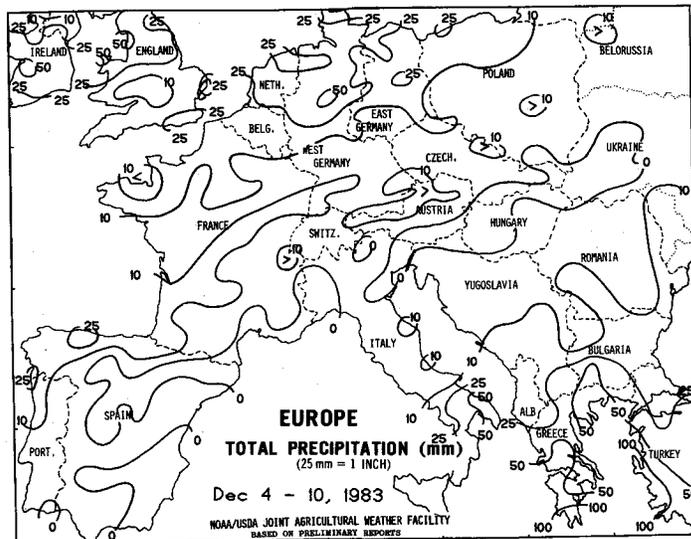
December 4 to 10



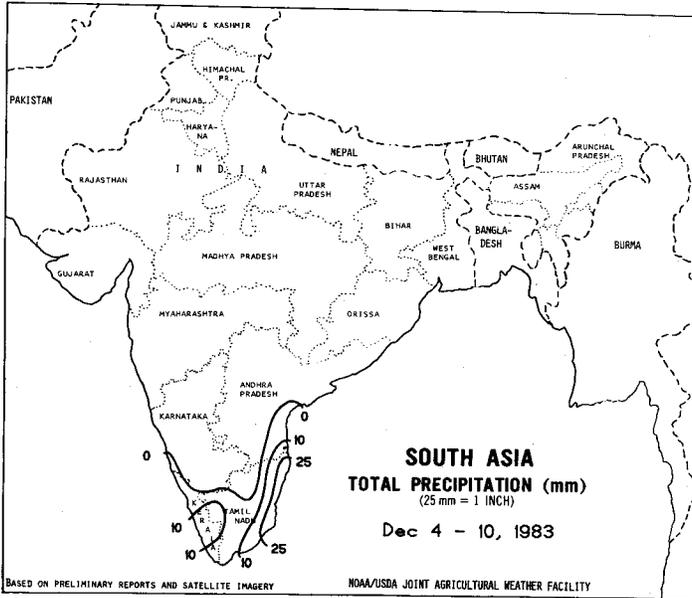
1. UNITED STATES ... Frequent, heavy rains stop harvesting and field activities over the southeastern third of the Nation, while sunny, warm weather continues over the Southwest. Snow cover over most of the central Plains protects winter grains against unseasonable cold.
2. WESTERN USSR ... Above-normal temperatures diminish snow cover in the major winter wheat producing areas across the south. Winter grains remain dormant over the region.
3. EUROPE ... Dry weather continues to aid planting in the Iberian Peninsula, but sub-freezing minimum temperatures at some locations in Spain slow emergence and early growth. Unfavorably dry weather continues in eastern Europe.
4. SOUTH ASIA ... Seasonal dry weather continues in most of India. Adequate moisture supplies exist for the irrigated wheat.
5. EASTERN ASIA ... Dry weather and mostly moderate temperatures prevail in most of China. Winter wheat is entering dormancy in the north.
6. AUSTRALIA ... Dry weather over southeastern Queensland and northern New South Wales improves conditions for the rain-delayed wheat harvest. Heavy rain in southern New South Wales temporarily slows the early wheat harvest. The wheat harvest is underway in all areas.
7. NORTHWESTERN AFRICA ... Winter grain planting progresses in most areas, and more rain would favor emergence and early growth in western Morocco and Algeria.
8. SOUTH AMERICA ... Warm, dry weather in Brazil delays late soybean planting and stresses early crop growth. Variable amounts of rain and warm weather cause some concern for Argentina's summer crops but aids wheat harvesting.
9. MEXICO ... Seasonal sunny, dry weather favors agriculture over most major production areas.
10. SOUTH AFRICA ... Showers aid early corn growth in the northwestern Maize Triangle. The central region is mostly dry, but conditions are presently good.



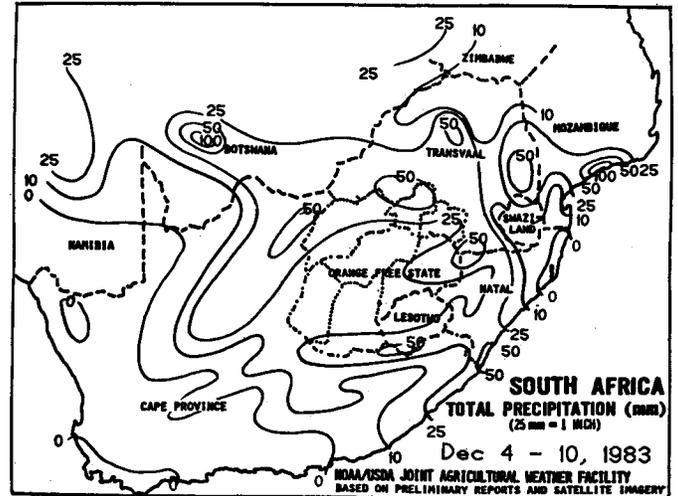
WESTERN USSR...Little, if any, precipitation fell over the southern half of the region, and winter wheat remained dormant. Temperatures warmed by the middle of the week and daytime highs above freezing diminished snow cover. Winter grain areas across the north received snow, with the greatest accumulations in the Baltics and the Northwest Region. Weekly temperatures were above normal over much of the region, except in the western Ukraine where temperatures were below normal.



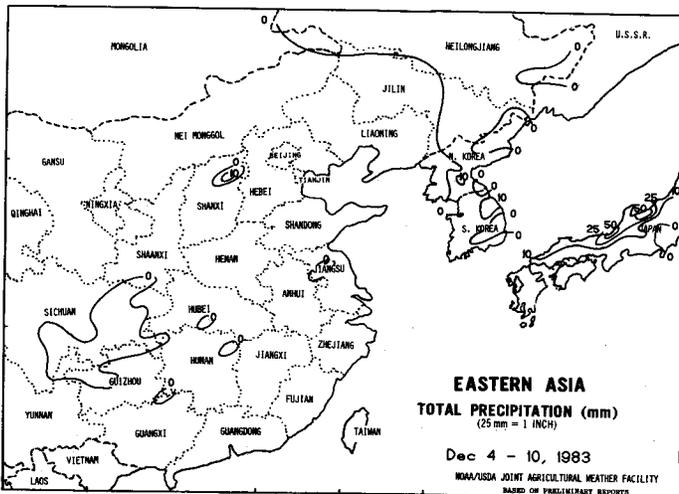
EUROPE...Generally cold, dry weather continued to cover the Iberian Peninsula, allowing winter grain planting to progress with few delays. However, warmer weather and additional showers would benefit emergence and early plant growth. Late week rains provided favorable moisture conditions for winter grains in northwestern Europe. Continued mostly dry weather in parts of eastern Europe was unfavorable for crops. A nearly stationary low-pressure system in the eastern Mediterranean Sea produced wet weather and locally heavy rains in southern Italy, Greece, southern Bulgaria, and western Turkey. Weekly temperatures were below normal over much of the region.



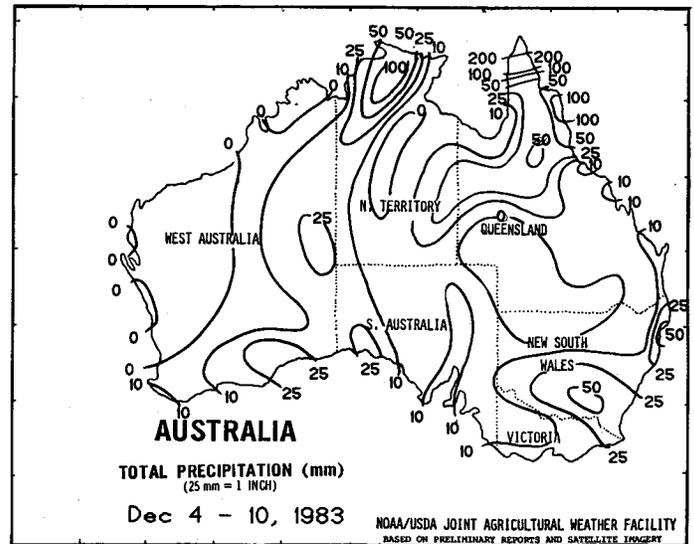
SOUTH ASIA...Most of India remained seasonably dry this week. The clear weather has allowed winter rice and cotton harvesting to progress at a normal pace. No rain fell in the irrigated wheat region, but precipitation would be beneficial for the southern wheat which usually enters the moisture-sensitive heading stage in December. Light showers fell in extreme southern peninsular India, but was not heavy enough to damage mature crops.



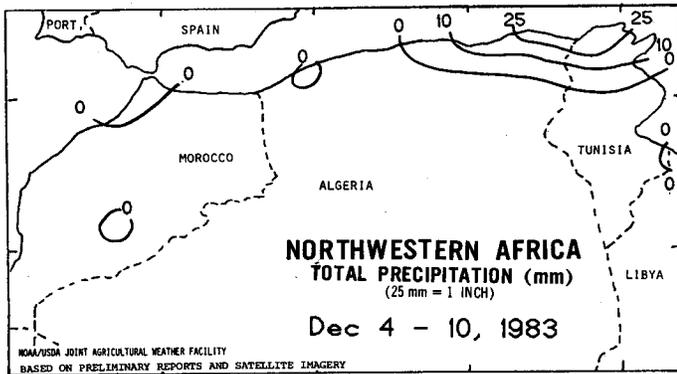
SOUTH AFRICA...Early in the week, significant showers fell across the northern Maize Triangle. Moderate precipitation, 25 to 50 mm, benefited early growth of corn in the West Transvaal. The rain supplied some subsoil moisture to this area, which is normally drier than the eastern corn region. Little rain fell in the central Maize Triangle but moisture conditions remain generally favorable for vegetative growth. Mild temperatures favored most of the corn region early in the week. By the end of the week, warmer and drier air had moved into the western region increasing crop moisture demand.



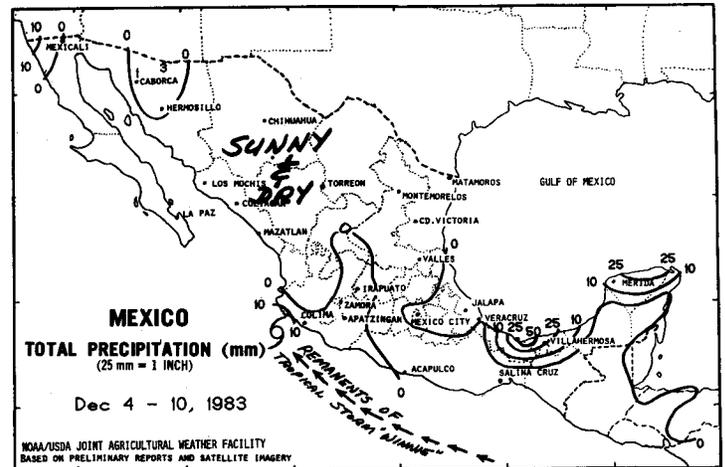
EASTERN ASIA...Little or no precipitation fell in China this week. Only a few very light showers fell in eastern Sichuan and vicinity. A small area of light precipitation also occurred in southern Hebei, somewhat benefiting the soil moisture supply. The winter wheat in Hebei and Shandong is in the dormancy period. Temperatures have been mostly moderate this week in the North China Plain, however, cool enough to allow only limited wheat growth in the southern crop area. Later in the week, cooler air in the wheat region further slowed crop growth.



AUSTRALIA...Drier weather returned to southeastern Queensland and northern New South Wales, allowing the fields of mature wheat to dry out for harvesting. Three consecutive weeks of wet weather lowered the quality of maturing wheat. While that area dried out, during midweek heavy rain fell over southeastern wheat areas of New South Wales, halting the crop harvest temporarily. Dry weather covered all wheat areas during the latter part of the week. The wheat harvest is in full swing throughout the wheat belt from December into January. The progress will depend on dry weather for the next several weeks. Adequate moisture is available for early growth of summer crops in eastern crop areas.

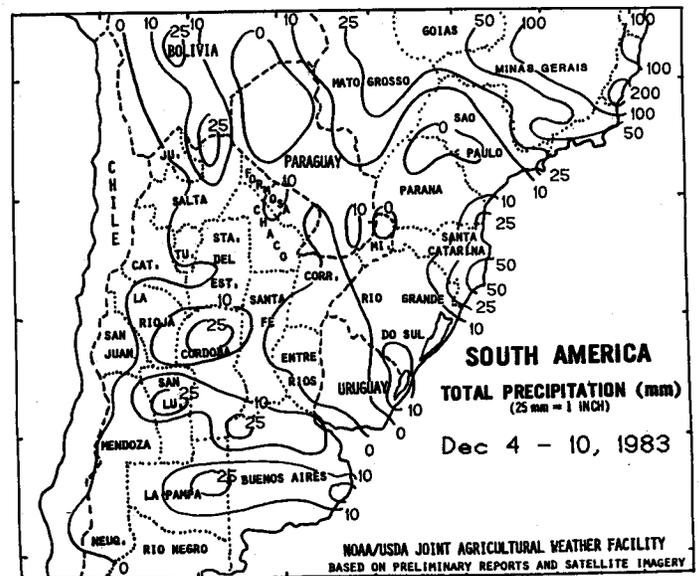


NORTHWESTERN AFRICA...Mostly dry weather continued in western Morocco and northwestern Algeria. Winter grain planting continued in these areas and more rain would benefit emergence and early growth. Elsewhere, light rain continued to moisten topsoils in northeastern Algeria while, wet weather provided favorable conditions for early winter grain growth in Tunisia.



MEXICO...Seasonal sunny, dry weather favored agriculture over most major production areas. Abundant sunshine helped vegetable development along the west coast, and crop harvesting in the northeastern citrus orchards and southern Plateau Corn Belt. However, some significant rains doused the upper part of the Yucatan Peninsula and the Bay of Campeche coast. Remnants of Winnie, a late season tropical storm, spread cloudiness and light rain inland over parts of the southwestern coast and mountains, and temporarily interfered with harvesting and other field activities. The usual wintertime dry pattern became more pronounced over Central America as the rainy intertropical convergence zone pushed further southward and into northern South America.

SOUTH AMERICA...Lack of sufficient rainfall has delayed planting of late soybeans in Parana and Rio Grande do Sul. By week's end, the warm, dry weather had depleted topsoil moisture supplies, increasing stress to newly emerging summer crops. Widespread rain is urgently needed in Brazil's soybean area to alleviate dryness and to allow resumption of soybean planting. About 25 percent of Rio Grande do Sul's crop remains to be planted. In Argentina, a highly variable rainfall pattern brought some beneficial moisture for summer crop growth in central Cordoba, southern Santa Fe, northeastern La Pampa, and extreme northern and central Buenos Aires. In contrast, southern Buenos Aires was mostly dry, aiding wheat maturity as the early wheat harvest begins. Warm weather imposed a greater need for available moisture by crops, increasing crop stress especially in the areas which missed significant rainfall. The wheat harvest is now underway throughout the major crop areas.



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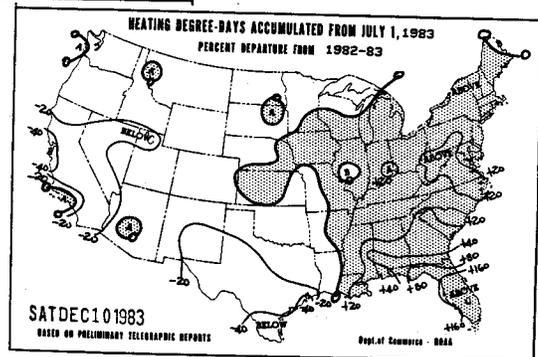
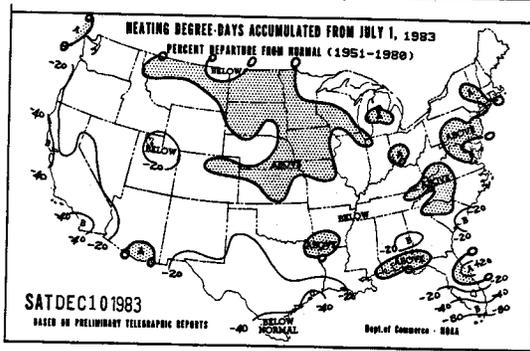
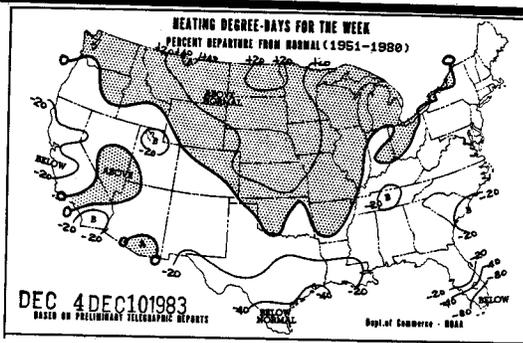
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