

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

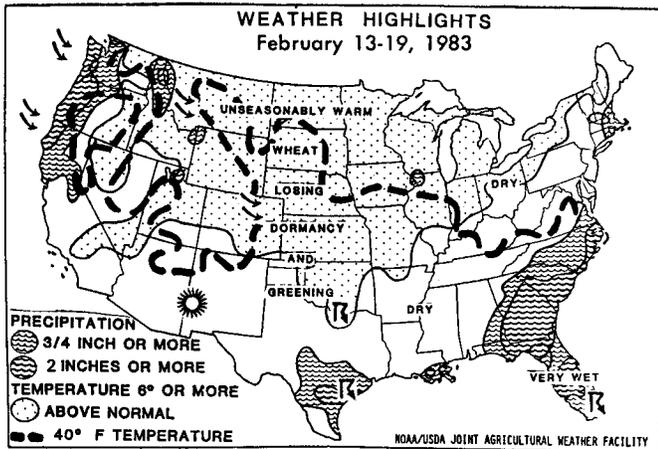
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Feb. 23, 1983

National Weather Summary

February 13 to 19



HIGHLIGHTS: Storms developing in the Gulf of Mexico triggered heavy thunderstorms over southern Texas, along the gulf coast, and through Georgia and Florida. Moderate to heavy showers reached northward along the east coast to New England. Pacific storms brought high winds, heavy rain, and snow at high elevations through the Northwest from central California through western Washington. Unusually warm temperatures in the northern Plains ranged up to 25° warmer than normal. Average temperatures over 40° reached into Montana and North Dakota and caused winter grasses to lose some dormancy.

SUNDAY ... A developing storm over central Florida moved up the coast to South Carolina and spread precipitation from Florida to southeastern Virginia. Rain was heavy in central Georgia and northern Florida and moderate along the coast. Freezing rain fell in the western Carolinas. Bitter cold weather gripped the Northeastern States. Rain spread across the Pacific coast and the Plateau to the central Rockies. Snow covered the higher elevations.

MONDAY ... The deep low-pressure system off the southeast coast moved to the coast of North Carolina before veering sharply eastward. Rain was light over Georgia and South Carolina, eastern Virginia, and Maryland. Light rain covered Washington, Oregon, and northern California, with snow at higher elevations. A deepening low-pressure system in the Texas Panhandle spread thunderstorms over southern Texas and light showers over Kansas and Nebraska. Freezing temperatures reached deep into the lower Mississippi Valley.

TUESDAY ... Showers and thunderstorms spread from central Texas across the gulf coast to Alabama.

Light snow fell in eastern Nebraska and northeastern Kansas through Iowa but changed to light rain and drizzle as it spread into northern Missouri and Illinois. Another cold front approaching the west coast spread rainshowers and wind over the West Coast States to central California and across the northern Plateau to the Rockies.

WEDNESDAY ... The cold front moved through the Northwest and triggered light rain from Washington and Oregon to the northern Rockies, and over the High Plains through Montana. Very light rain and snow fell from the central Rockies through the Great Lakes region. Another storm in the Gulf of Mexico triggered light to moderate showers and thunderstorms throughout the Southeast. Heavy thunderstorms again inundated southern Florida.

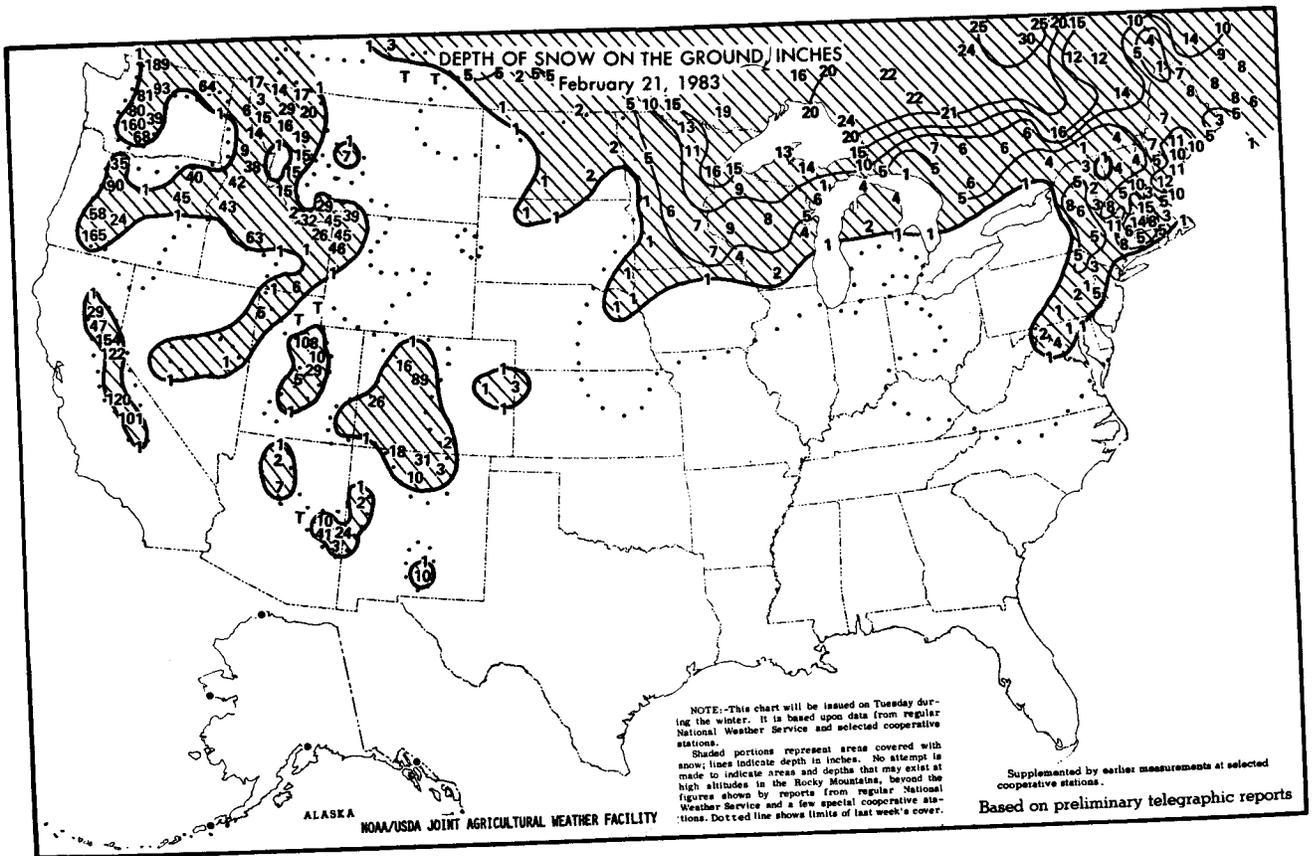
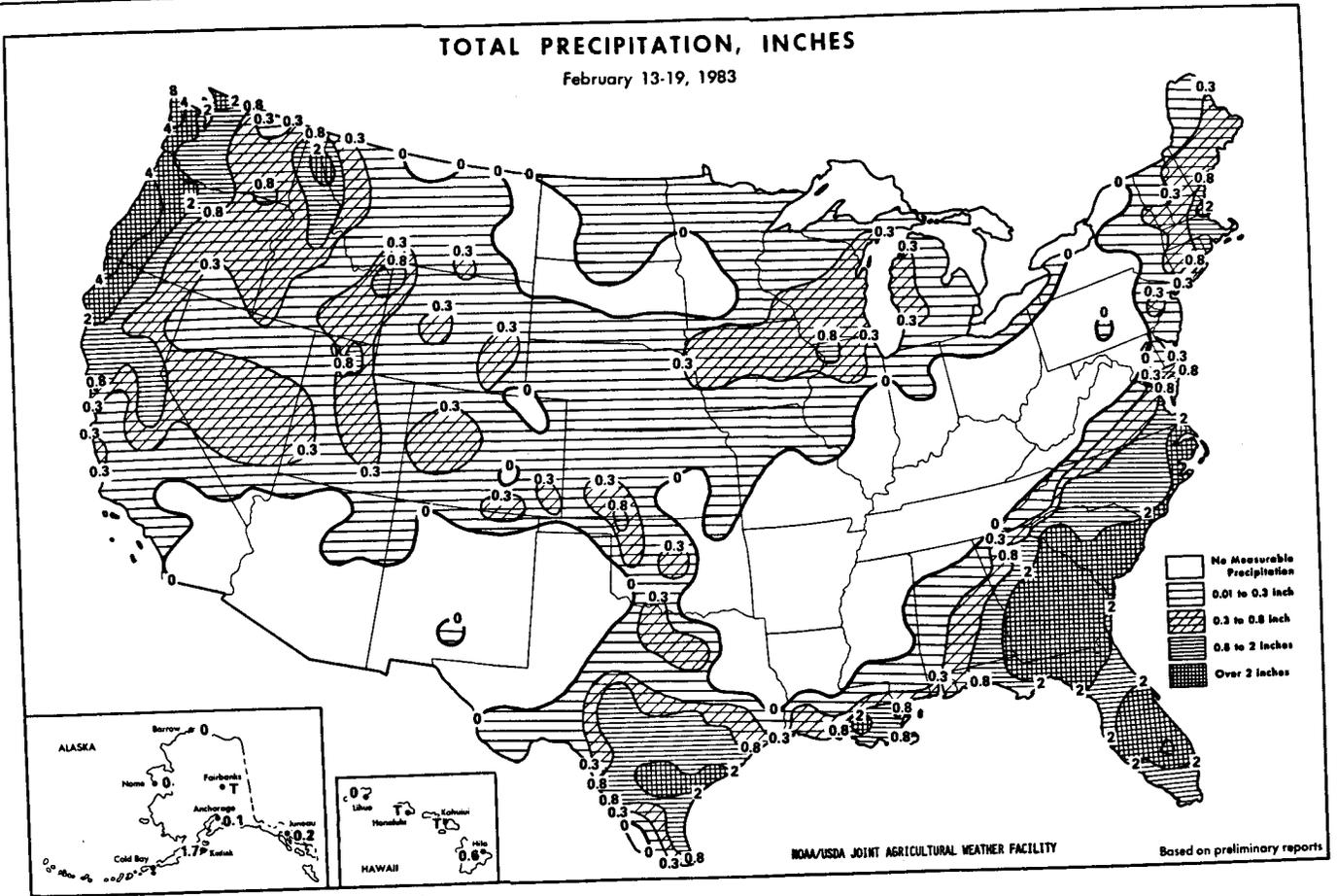
THURSDAY ... A low-pressure system moved to a point off North Carolina before turning eastward and spread light showers along the coast from Florida through New England. Snow fell in New England and New York before turning into rain. Another cold front moved onto the Northwest coast and spread rain, with snow at higher elevations, from the central California coast through the Northwest to western Montana. Widely scattered rainshowers fell from northeastern Texas to southwestern Nebraska.

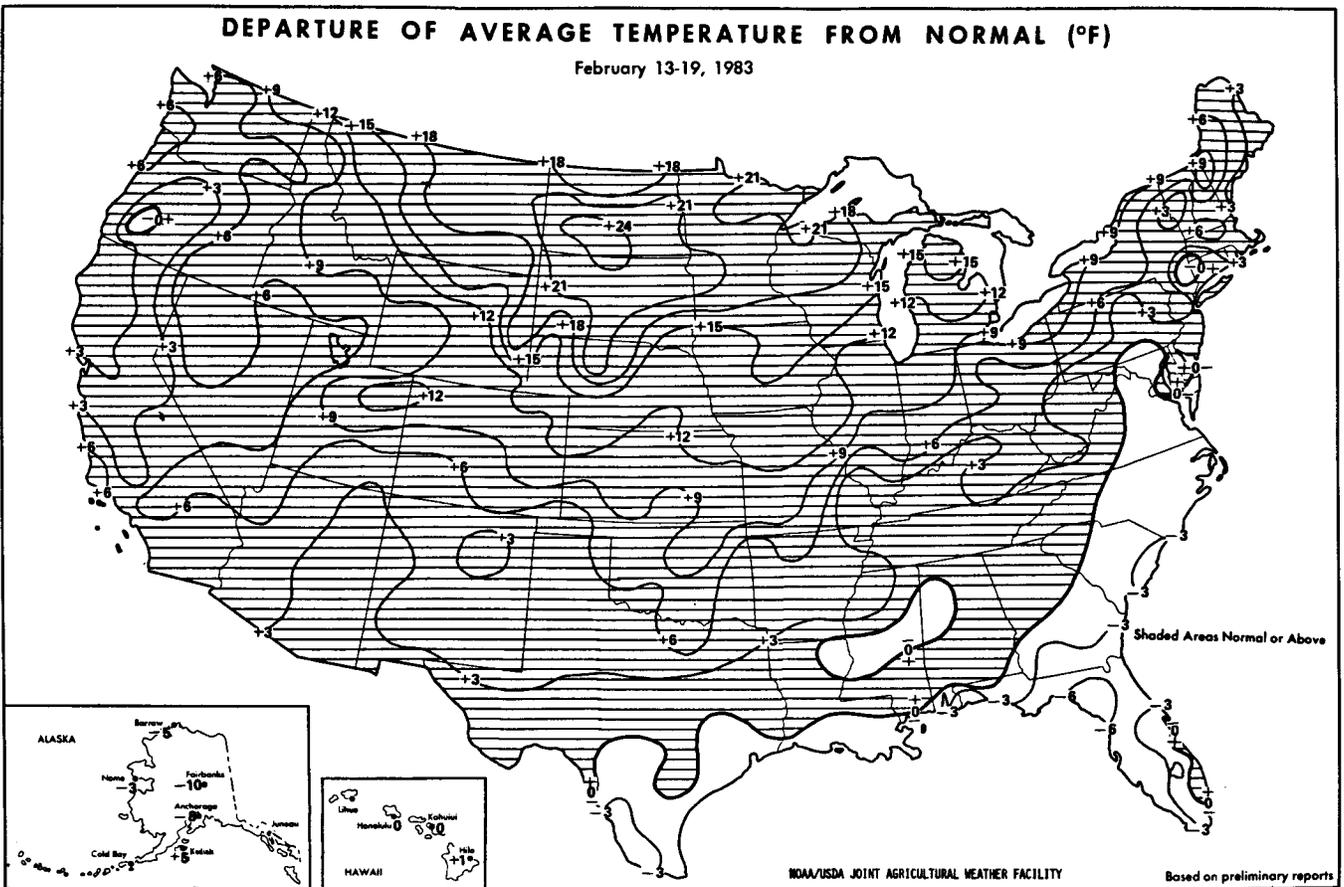
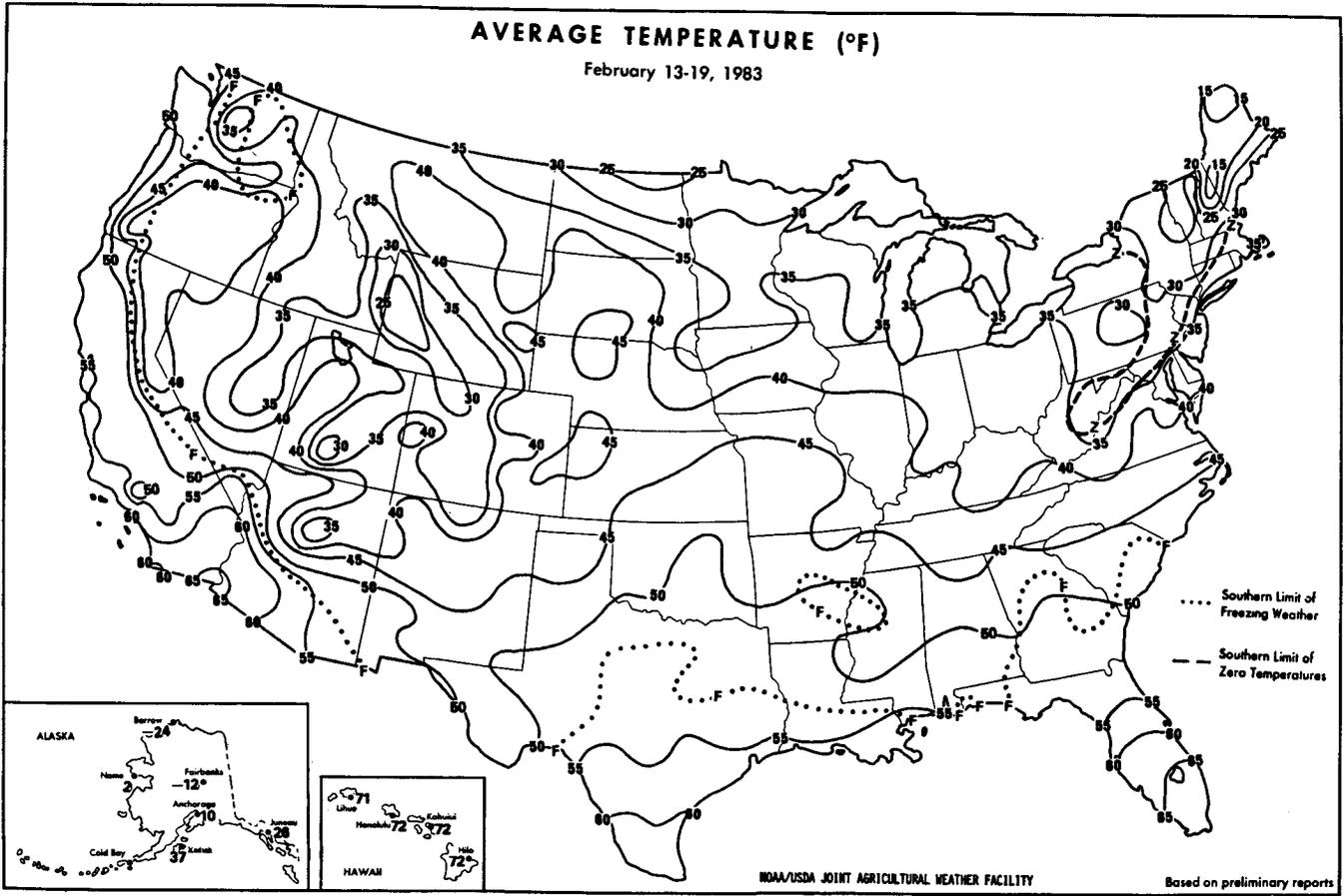
FRIDAY ... Rain, high winds, and snow at high elevations spread through the West from all of California but the southern portion, across the central Plateau, and through the northern Rockies and the High Plains to Montana. Wet snow fell from Minnesota through the Great Lakes. The Plains warmed to the sixties and a few seventies as far north as South Dakota. Clear skies and warm weather covered the East, and 50° readings reached from the Ohio Valley to southern New England.

(continued on p. 12)

Contents

	Page
National Weather Summary	1
Precipitation & Snow Cover	2
Average Temperature & Departure	3
Weather Data for Selected Cities	4
Weekly Heating Degree Days	7
National Agricultural Summary & State Summaries of Weather Agriculture	8
International Weather & Crop Summary	13
January Heating Degree Days & Subscription & Mailing Permit Information	24





Weather Data for the Week Ending Feb. 19, 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. 28	PCT. NORMAL SINCE Nov. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	60	33	69	28	47	0	T	-1.3	T	24.5	174	9.2	110	90	31	0	3	1	0
MOBILE	64	41	70	32	53	-1	.3	.3	.3	22.0	153	13.0	165	90	40	0	1	1	0
MONTGOMERY	64	38	72	30	51	0	.6	.5	.4	22.3	177	12.0	167	88	33	0	1	3	0
AK ANCHORAGE	19	2	29	-5	10	-8	.1	.2	.1	1.3	46	.5	31	89	61	0	7	1	0
BARROW	-20	-28	-15	-35	-24	-5	0	.1	0	.2	25	.1	17	75	59	0	7	0	0
FAIRBANKS	0	-23	7	-30	-12	-10	T	.1	T	1.1	69	.4	44	64	41	0	7	1	0
JUNEAU	32	20	38	12	26	-3	.2	.7	.1	6.2	54	5.0	78	95	69	0	7	3	0
KODIAK	41	34	43	17	37	5	1.7	.4	.8	25.4	184	12.2	145	90	68	0	2	6	1
NOHE	12	-9	24	-22	2	-3	0	.2	0	2.3	100	.6	40	64	36	0	7	0	0
AZ PHOENIX	71	48	75	45	59	4	0	.1	0	4.3	215	1.9	158	75	26	0	0	0	0
PRESCOTT	59	32	64	28	45	4	0	.4	0	4.1	93	1.4	56	71	26	0	4	0	0
TUCSON	68	42	74	37	55	1	0	.2	0	5.0	217	2.7	208	69	22	0	0	0	0
YUMA	79	52	84	49	66	6	0	.1	0	2.8	311	.8	160	49	16	0	0	0	0
AR FORT SMITH	63	34	70	28	49	5	0	.8	0	8.2	104	2.1	47	88	35	0	2	0	0
LITTLE ROCK	62	38	67	33	50	5	0	1.1	0	10.1	107	3.0	43	81	43	0	0	0	0
CA BAKERSFIELD	65	44	70	41	55	2	.1	.2	.1	3.8	173	2.5	167	97	53	0	0	1	0
EUREKA	60	47	63	41	54	5	2.4	1.1	1.2	27.7	151	14.6	133	87	63	0	0	5	2
FRESNO	63	44	68	41	54	3	.5	.1	.2	10.5	214	7.6	262	94	55	0	0	2	0
LOS ANGELES	66	51	71	47	59	3	.2	.4	.1	9.2	148	7.4	172	85	45	0	0	2	0
RED BLUFF	61	47	65	40	54	3	.6	.2	.4	16.3	148	10.9	165	88	56	0	0	4	0
SACRAMENTO	60	44	62	40	52	2	.4	.2	.3	11.8	133	7.2	131	88	59	0	0	3	0
SAN DIEGO	69	54	71	51	62	4	T	.4	T	6.8	145	4.5	155	89	53	0	0	0	0
SAN FRANCISCO	59	47	62	42	53	1	.7	0	.5	16.5	153	10.7	167	86	56	0	0	3	0
CO DENVER	52	31	62	27	42	8	T	.1	T	2.5	192	.2	25	74	33	0	4	2	0
GRAND JUNCTION	54	31	62	25	43	8	.4	.2	.4	1.4	82	1.1	100	84	35	0	5	1	0
PUEBLO	56	27	62	22	42	7	T	.1	T	.5	63	.2	40	91	31	0	6	0	0
CT BRIDGEPORT	41	26	47	10	33	3	.2	.5	.2	7.5	87	5.1	109	85	54	0	5	1	0
HARTFORD	41	17	48	-5	29	2	.3	.5	.3	11.7	117	9.4	174	81	41	0	7	1	0
DC WASHINGTON	49	29	54	16	39	2	0	.6	0	8.3	106	4.8	109	83	44	0	3	0	0
FL APALACHICOLA	63	43	70	37	53	-3	1.8	.9	1.8	15.1	168	9.0	167	99	61	0	0	3	1
DAYTONA BEACH	66	44	70	41	55	-5	1.9	1.2	1.5	10.4	163	8.5	202	90	53	0	0	3	1
JACKSONVILLE	64	40	70	34	52	-4	2.1	1.2	1.8	13.5	171	11.4	224	98	61	0	0	4	1
KEY WEST	71	62	75	58	67	-5	1.0	.5	.6	20.2	439	19.9	663	83	60	0	0	2	1
MIAMI	74	59	79	50	67	-2	1.2	.7	.9	11.9	229	10.7	306	95	58	0	0	3	1
ORLANDO	70	49	76	43	59	-2	2.4	1.7	1.5	10.5	167	9.5	221	98	58	0	0	2	2
TALLAHASSEE	66	37	72	31	52	-3	3.0	1.8	2.6	15.4	133	9.6	139	93	42	0	1	4	1
TAMPA	68	48	76	42	58	-4	1.8	1.1	1.0	9.4	145	8.1	198	99	63	0	0	4	2
WEST PALM BEACH	74	58	78	50	66	0	2.9	2.3	1.5	18.5	285	17.0	405	89	59	0	0	4	2
GA ATLANTA	58	37	64	33	47	2	.5	.6	.2	13.4	112	6.2	85	85	39	0	0	3	0
AUGUSTA	60	33	69	30	47	-2	2.2	1.3	1.1	14.7	152	9.0	155	91	43	0	3	4	2
MACON	64	38	71	33	51	0	2.6	1.5	1.7	16.9	151	9.4	140	98	50	0	0	4	2
SAVANNAH	61	39	68	34	50	-2	2.8	2.1	1.3	13.3	164	9.6	204	91	48	0	0	4	2
HI HILO	83	62	87	58	72	1	.6	.6	.6	9.4	27	1.6	9	88	44	0	0	1	1
HONOLULU	81	63	82	59	72	0	T	.5	T	2.5	26	.1	2	89	52	0	0	1	0
KAHULUI	82	62	85	55	72	0	T	.6	T	5.8	67	.6	11	87	52	0	0	0	0
LIHUE	80	62	83	60	71	0	0	.1	0	5.4	33	.8	9	83	49	0	0	0	0
ID BOISE	50	36	54	28	43	7	.6	.3	.4	5.1	131	2.8	122	83	51	0	1	6	0
LEWISTON	51	38	53	32	44	5	.5	.3	.3	2.8	85	1.8	100	92	57	0	1	4	0
POCATELLO	44	32	51	28	38	8	.7	.5	.6	3.8	141	1.5	94	90	55	0	3	3	1
IL CHICAGO	41	30	55	22	36	10	.1	.2	.1	10.8	245	2.7	100	87	68	0	4	2	0
MOLINE	46	31	62	21	38	13	.2	.1	.2	7.1	165	1.7	68	86	67	0	3	2	0
PEORIA	48	32	61	27	40	12	T	.3	T	7.7	164	1.5	54	91	70	0	4	1	0
QUINCY	49	33	62	28	41	12	.1	.3	.1	9.7	206	.9	33	89	66	0	4	1	0
ROCKFORD	40	30	54	18	35	11	.5	.2	.4	6.5	138	2.2	79	99	79	0	3	2	0
SPRINGFIELD	50	33	63	28	41	11	T	.4	T	10.7	214	1.4	48	89	60	0	4	1	0
IN EVANSVILLE	51	28	63	26	40	4	0	.8	0	11.4	123	2.6	46	88	47	0	7	0	0
FORT WAYNE	44	30	59	18	37	9	T	.5	T	6.7	105	1.7	44	98	73	0	4	0	0
INDIANAPOLIS	47	29	62	22	38	7	T	.6	T	8.6	116	2.0	45	91	59	0	4	0	0
SOUTH BEND	44	30	57	19	37	10	.1	.4	.1	5.5	86	1.7	45	95	70	0	3	2	0
IA DES MOINES	47	34	61	31	40	16	.1	.2	.1	7.2	232	3.2	178	91	69	0	2	1	0
SIOUX CITY	39	30	44	23	34	10	.3	.1	.3	3.4	155	.9	82	94	82	0	6	1	0
WATERLOO	41	32	55	26	37	15	.4	.2	.3	5.9	211	2.1	140	88	73	0	5	2	0
KS CONCORDIA	50	34	62	30	42	10	T	.2	T	4.1	205	2.4	240	90	63	0	4	1	0
DODGE CITY	55	35	66	32	45	10	.3	.2	.3	2.3	177	1.3	144	95	49	0	2	1	0
GOODLAND	59	32	68	29	45	13	.2	.1	.1	2.4	240	.6	100	90	36	0	5	2	0
TOPEKA	56	37	64	30	46	13	T	.2	T	5.0	152	1.2	75	85	56	0	3	1	0
WICHITA	56	34	65	28	45	8	0	.3	0	4.2	150	2.6	173	95	55	0	3	0	0
KY BOWLING GREEN	53	26	62	24	40	0	0	1.1	0	10.9	81	4.1	49	98	49	0	7	0	0
LEXINGTON	46	29	60	23	37	2	T	.8	T	7.7	77	2.7	44	91	55	0	5	1	0
LOUISVILLE	50	28	61	25	39	3	T	.9	T	8.6	91	3.0	52	90	47	0	6	0	0
LA ALEXANDRIA	67	42	72	36	55	0	0	1.4	0	25.0	185	8.2	103	71	32	0	0	0	0
BATON ROUGE	66	41	71	36	54	-1	.2	1.0	.2	23.9	182	9.0	118	87	41	0	0	1	0
LAKE CHARLES	66	42	69	36	54	-1	.3	.9	.3	21.7	162	9.9	138	96	46	0	0	1	0
NEW ORLEANS	66	44	71	37	55	-1	.9	.4	.5	25.5	190	14.7	188	95	49	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Feb. 19, 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. 28	PCT. NORMAL SINCE NOV. 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	66	37	73	32	52	1	0	-.9	0	21.3	194	7.6	119	97	39	0	1	0	0	
ME CARIBOU	27	5	36	-7	16	3	.1	-.5	-.1	7.0	109	4.2	117	83	48	0	7	2	0	
ME PORTLAND	37	12	44	-5	25	2	.6	-.3	-.6	9.7	96	8.2	146	86	45	0	7	1	1	
MD BALTIMORE	44	24	48	1	34	-1	0	-.7	0	10.6	125	6.8	142	84	48	0	5	0	0	
MD SALISBURY	47	29	51	18	38	-1	.3	-.5	-.2	9.0	96	4.2	72	96	59	0	5	2	0	
MA BOSTON	41	26	48	14	34	3	1.6	-.7	1.6	11.5	106	9.6	157	78	45	0	5	1	1	
MA CHATHAM	42	31	46	22	37	-3	1.6	-.7	1.1	12.8	--	8.4	--	89	74	0	4	3	1	
MI ALPENA	37	28	41	18	33	14	.1	-.2	-.1	5.6	119	2.5	93	96	74	0	5	2	0	
MI DETROIT	43	28	53	12	36	9	.2	-.2	-.1	5.4	98	1.5	50	91	63	0	2	3	0	
MI FLINT	43	30	51	18	37	13	.2	-.3	-.1	4.9	104	1.7	57	91	63	0	3	3	0	
MI GRAND RAPIDS	41	28	49	17	35	10	.5	-.2	-.2	9.4	177	2.5	83	88	68	0	5	3	0	
MI HOUGHTON LAKE	38	28	40	22	33	15	.2	-.1	-.1	5.1	113	1.9	79	97	76	0	6	4	0	
MI LANSING	43	30	52	20	37	12	.2	-.2	-.1	5.7	108	1.6	52	97	68	0	3	4	0	
MI MARQUETTE	36	26	41	21	31	17	.1	-.4	-.1	8.4	150	5.5	183	97	79	0	7	1	0	
MI MUSKEGON	40	30	51	21	35	10	.4	0	.2	8.0	129	2.3	66	93	76	0	3	3	0	
MN SAULT STE. MARIE	35	27	39	18	31	16	.2	-.2	-.1	8.0	138	3.2	100	98	78	0	6	3	0	
MN ALEXANDRIA	36	29	42	19	33	21	T	-.2	T	1.7	94	1.1	110	98	81	0	7	0	0	
MN DULUTH	34	28	37	15	31	19	.1	-.2	-.1	3.0	88	1.8	100	93	72	0	7	1	0	
MN INT'L FALLS	33	21	44	8	27	19	.3	-.1	-.1	1.2	48	.8	67	98	70	0	7	3	0	
MN MINNEAPOLIS	39	32	43	26	35	19	T	-.2	T	5.7	285	1.8	180	99	83	0	3	1	0	
MN ROCHESTER	35	29	40	25	32	15	.1	-.1	-.1	5.1	268	1.9	190	98	84	0	6	1	0	
MS GREENWOOD	65	37	73	31	51	3	0	-1.3	0	28.0	199	10.6	131	81	31	0	1	0	0	
MS JACKSON	64	32	73	27	48	-1	T	-1.2	T	31.0	238	13.0	171	99	38	0	5	0	0	
MS MERIDIAN	66	34	73	29	50	0	T	-1.2	T	23.3	173	11.4	150	91	35	0	3	0	0	
MO CAPE GIRARDEAU	55	29	64	24	42	2	0	-.7	0	12.6	134	1.3	23	100	56	0	6	0	0	
MO COLUMBIA	59	33	69	28	46	12	T	-.4	T	7.8	170	.7	27	95	45	0	4	0	0	
MO KANSAS CITY	55	35	65	29	45	13	.1	-.2	-.1	5.2	144	1.2	57	92	58	0	3	1	0	
MO SAINT LOUIS	54	33	65	26	44	8	T	-.5	T	9.3	175	1.3	42	94	49	0	2	1	0	
MO SPRINGFIELD	60	34	69	30	47	10	0	-.6	0	10.1	180	1.2	39	82	38	0	4	0	0	
MT BILLINGS	53	35	59	29	44	16	.2	0	.2	1.5	75	.4	36	73	32	0	2	1	0	
MT GLASGOW	41	26	47	21	34	18	T	-.1	T	1.3	100	.2	25	85	65	0	7	1	0	
MT GREAT FALLS	51	31	56	30	41	14	.1	0	.1	1.3	62	.4	31	73	35	0	6	2	0	
MT HAVRE	48	27	55	20	38	20	T	-.1	T	.5	38	.2	22	88	44	0	6	0	0	
MT HELENA	49	31	56	27	40	14	.1	0	T	1.6	114	.4	57	82	40	0	5	2	0	
MT KALISPELL	45	31	46	28	38	12	.3	-.1	.2	3.5	97	1.6	73	97	63	0	6	3	0	
MT MILES CITY	49	31	57	26	40	18	T	-.1	T	1.2	100	.3	43	86	50	0	4	0	0	
MT MISSOULA	44	33	47	30	39	11	.3	-.1	.2	2.6	87	1.5	88	88	72	0	3	5	0	
NE GRAND ISLAND	49	32	59	29	40	12	T	-.2	T	2.8	215	1.0	111	90	65	0	5	1	0	
NE LINCOLN	49	31	59	27	40	12	.1	-.1	.1	3.4	200	1.4	140	98	69	0	5	1	0	
NE NORFOLK	42	30	49	23	36	12	.2	0	.2	3.9	217	1.4	117	94	70	0	5	1	0	
NE NORTH PLATTE	55	28	67	22	42	13	.2	-.1	.1	1.7	131	.6	75	91	40	0	7	3	0	
NE OMAHA	44	32	57	29	38	12	.3	0	.3	4.3	187	2.2	169	97	80	0	6	1	0	
NE SCOTTSBLUFF	57	27	71	17	42	12	T	0	T	.8	89	.2	50	77	27	0	6	1	0	
NE VALENTINE	57	28	67	21	43	18	.1	-.1	.1	.5	45	.3	38	80	33	0	7	1	0	
NV ELY	44	21	53	12	33	4	.4	-.2	.2	3.0	167	1.9	190	88	48	0	7	3	0	
NV LAS VEGAS	67	44	78	39	56	6	0	-.1	0	2.1	162	.7	100	52	19	0	0	0	0	
NV RENO	52	27	60	22	39	2	.4	-.2	.3	4.4	147	2.6	153	90	32	0	7	2	0	
NV WINNEMUCCA	51	32	62	25	41	7	.1	-.1	.1	3.4	126	1.7	113	76	34	0	4	2	0	
NH CONCORD	39	10	45	-12	25	2	.7	0	.7	7.3	92	6.0	140	87	41	0	7	1	1	
NJ ATLANTIC CITY	47	27	51	8	37	3	.1	-.7	.1	9.2	88	4.3	73	95	51	0	6	1	0	
NM ALBUQUERQUE	57	29	63	25	43	3	0	-.1	0	2.5	227	1.7	340	74	27	0	6	0	0	
NM CLOVIS	59	33	70	29	46	4	0	-.1	0	1.9	146	1.3	186	82	27	0	3	0	0	
NM ROSWELL	63	32	72	27	48	4	0	-.1	0	2.1	210	.6	120	61	22	0	5	0	0	
NY ALBANY	40	16	43	-7	28	4	T	-.5	T	7.4	109	5.7	163	93	51	0	6	1	0	
NY BINGHAMTON	40	24	45	2	32	9	T	-.6	T	6.4	91	4.0	100	85	41	0	6	0	0	
NY BUFFALO	41	26	46	7	33	9	T	-.6	T	6.3	77	2.4	51	86	52	0	5	1	0	
NY NEW YORK	41	29	46	17	35	2	.1	-.7	.1	9.1	102	6.8	139	80	51	0	4	1	0	
NY ROCHESTER	41	26	47	3	33	9	T	-.6	T	5.1	80	2.4	65	85	54	0	4	0	0	
NY SYRACUSE	42	20	47	-5	31	7	T	-.7	T	6.2	78	3.0	67	94	49	0	6	1	0	
NC ASHEVILLE	56	30	67	25	43	4	T	-.9	T	12.8	135	7.4	130	86	33	0	6	1	0	
NC CHARLOTTE	54	31	63	26	43	-1	1.2	-.2	1.1	11.2	111	6.7	108	87	39	0	6	2	1	
NC GREENSBORO	51	29	60	26	40	-1	.8	-.1	.8	8.9	99	4.4	79	89	39	0	1	3	2	
NC HATTERAS	53	39	64	32	46	0	3.7	2.6	2.0	21.8	180	15.8	226	93	63	0	1	3	1	
NC NEW BERN	56	37	62	32	46	-1	3.4	2.4	1.8	16.6	155	10.9	170	98	54	0	1	3	2	
NC RALEIGH	52	31	60	27	41	-1	1.0	.2	1.0	11.4	127	6.7	120	91	43	0	6	2	1	
NC WILMINGTON	56	36	61	30	46	-2	2.4	1.6	1.3	17.7	190	11.4	207	93	51	0	2	3	3	
ND BISMARCK	48	27	58	24	38	24	.1	0	.1	.9	64	.4	44	98	63	0	7	1	0	
ND FARGO	37	25	50	18	31	20	T	-.1	T	.6	46	.5	63	94	76	0	7	0	0	
ND GRAND FORKS	35	24	49	16	30	21	.3	-.1	-.2	1.0	63	.6	60	87	67	0	7	2	0	
ND WILLISTON	42	25	52	17	33	19	T	-.1	T	1.9	136	.4	50	93	68	0	7	0	0	
OH AKRON-CANTON	44	28	52	8	36	9	T	-.5	T	7.3	107	2.9	67	88	54	0	2	0	0	
OH CINCINNATI	46	28	59	23	37	4	T	-.8	T	7.8	92	2.6	49	87	54	0	6	0	0	
OH CLEVELAND	46	29	56	12	37	10	.1	-.5	.1	5.8	89	1.5	38	82	51	0	3	1	0	
OH COLUMBUS	44	26	56	14	35	5	T	-.6	T	6.8	97	1.9	44	90	57	0	6	0	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Feb. 19, 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. 28	PCT. NORMAL SINCE NOV. 28	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	
DAYTON	46	28	56	21	37	6	0	-.6	0	6.5	92	2.1	48	88	54	0	5	0	0	
TOLEDO	41	27	54	11	34	7	T	-.4	T	5.6	97	1.4	42	95	70	0	5	2	0	
YOUNGSTOWN	45	28	53	4	36	10	T	-.6	T	6.0	81	2.3	51	83	54	0	4	0	0	
OK OKLAHOMA CITY	64	37	71	31	51	9	.6	-.2	.6	6.0	176	4.1	205	95	49	0	2	1	1	
TULSA	64	39	70	33	51	10	0	-.4	0	7.2	160	3.8	146	83	39	0	0	0	0	
OR ASTORIA	56	46	58	43	51	7	2.0	.1	.7	34.2	128	19.0	126	92	67	0	0	7	2	
BURNS	43	30	46	23	38	6	.3	0	.2	4.4	100	1.9	76	118	99	0	4	4	0	
MEDFORD	52	38	59	31	45	3	2.7	2.2	1.7	12.1	133	6.0	118	99	64	0	1	5	1	
PENDLETON	53	39	59	34	46	7	.7	.5	.5	4.2	111	2.0	87	86	54	0	0	7	2	
PORTLAND	53	42	58	35	48	4	2.4	1.4	.9	20.9	135	11.7	133	91	68	0	0	4	2	
SALEM	54	41	57	34	47	4	3.0	1.8	1.6	23.7	134	13.0	127	88	65	0	0	6	2	
PA ALLENTOWN	40	20	45	0	30	1	-.1	-.6	-.1	8.3	95	6.1	124	91	59	0	5	1	0	
ERIE	42	26	47	9	34	9	T	-.5	T	6.0	85	2.3	58	83	56	0	5	2	0	
HARRISBURG	42	21	47	2	32	0	0	-.6	0	7.4	96	5.6	130	90	51	0	6	0	0	
PHILADELPHIA	43	24	49	3	34	0	-.1	-.6	-.1	9.1	111	6.0	130	85	46	0	5	1	0	
PITTSBURGH	44	25	52	4	35	5	T	-.6	T	6.3	89	2.8	62	89	50	0	5	0	0	
SCRANTON	39	20	47	-2	30	2	0	-.5	0	4.5	73	2.7	77	83	54	0	6	0	0	
RI PROVIDENCE	40	25	46	7	33	3	1.8	-.9	1.8	10.6	102	7.9	136	85	48	0	5	1	1	
SC CHARLESTON	58	38	65	34	48	-2	2.2	1.3	1.1	14.0	165	9.6	188	93	49	0	0	4	2	
COLUMBIA	58	32	67	29	45	-3	1.5	-.6	.8	11.6	127	7.0	125	93	42	0	4	4	2	
FLORENCE	57	36	65	33	47	-1	1.4	-.6	.9	12.8	156	7.6	155	94	45	0	0	4	1	
GREENVILLE	55	33	63	30	44	0	.8	-.3	.8	13.5	115	6.2	89	90	41	0	3	2	1	
SD ABERDEEN	45	31	50	25	38	22	T	-.2	T	.5	33	.4	44	95	73	0	4	0	0	
HURON	50	30	62	25	40	22	T	-.2	T	.7	58	0	0	100	64	0	5	0	0	
RAPID CITY	56	32	66	28	44	18	T	-.1	T	.6	55	.3	43	68	29	0	4	1	0	
SIoux FALLS	38	28	42	24	33	13	T	-.3	T	2.8	133	.8	62	100	84	0	7	1	0	
TN CHATTANOOGA	59	31	67	27	45	2	T	-1.3	T	16.9	117	5.9	67	89	37	0	5	0	0	
KNOXVILLE	57	29	63	24	43	0	0	-1.2	0	9.6	74	4.1	52	90	38	0	6	0	0	
MEMPHIS	62	34	69	31	48	4	0	-1.2	0	18.3	137	4.4	54	89	33	0	2	0	0	
NASHVILLE	58	27	68	22	43	1	0	-1.1	0	12.3	98	5.1	67	96	32	0	7	0	0	
TX ABILENE	66	39	79	33	52	4	T	-.2	T	3.6	129	1.9	112	84	37	0	0	3	0	
AMARILLO	57	29	66	25	43	3	0	-.1	0	3.5	219	2.8	350	95	43	0	5	0	0	
AUSTIN	65	43	75	35	54	1	.8	0	.8	7.0	108	4.8	117	94	50	0	0	1	1	
BEAUMONT	66	45	70	39	55	0	T	-1.1	T	26.2	213	8.7	126	96	50	0	0	2	0	
BROWNSVILLE	75	50	80	42	62	-1	.7	-.3	.7	5.3	133	2.6	104	98	45	0	0	1	1	
CORPUS CHRISTI	70	47	77	41	59	-1	1.2	-.6	1.1	3.7	79	3.0	100	95	52	0	0	2	1	
DEL RIO	70	42	80	38	56	0	-.1	-.2	.1	2.0	111	1.1	85	88	39	0	0	1	0	
EL PASO	65	35	72	28	50	2	0	-.1	0	3.6	300	.9	150	69	19	0	4	0	0	
FORT WORTH	65	43	69	31	54	5	.4	-.3	.3	6.1	111	3.3	97	84	42	0	1	2	0	
GALVESTON	63	50	67	47	57	0	-.8	-.2	.7	13.5	152	7.5	156	91	63	0	0	2	1	
HOUSTON	66	42	73	38	54	-2	-.6	-.4	.6	10.5	100	4.7	77	93	46	0	0	2	1	
LUBBOCK	64	33	70	25	48	6	T	-.1	T	5.0	385	2.9	414	86	29	0	3	0	0	
MIDLAND	68	35	73	29	51	3	0	-.1	0	2.5	179	1.3	144	84	24	0	3	0	0	
SAN ANGELO	68	38	81	30	53	3	.3	-.1	-.2	3.4	155	2.5	179	85	35	0	1	2	0	
SAN ANTONIO	67	40	77	32	53	-1	.9	-.4	.5	5.2	116	2.9	100	88	44	0	1	2	0	
VICTORIA	69	45	76	37	57	0	2.0	1.4	2.0	5.2	95	4.5	136	97	53	0	0	1	1	
WACO	65	40	72	31	53	1	T	-.6	T	5.0	86	2.9	78	93	51	0	1	1	0	
WICHITA FALLS	66	36	78	31	51	5	.8	.5	.8	4.6	135	2.7	142	95	38	0	1	1	1	
UT BLANDING	49	26	51	22	37	4	.3	-.1	-.2	4.4	147	2.7	159	90	41	0	7	3	0	
CEDAR CITY	54	30	63	26	42	9	.2	0	.1	3.0	158	1.8	180	76	35	0	5	2	0	
SALT LAKE CITY	51	33	63	29	42	8	.7	.5	.5	4.7	131	2.2	116	87	45	0	4	3	0	
VT BURLINGTON	34	16	39	-11	25	7	T	-.4	T	7.0	130	4.7	162	85	47	0	6	1	0	
VA NORFOLK	47	35	52	30	41	0	1.6	-.8	1.6	12.7	138	7.9	139	88	54	0	2	1	1	
RICHMOND	46	30	54	19	38	-1	.4	-.4	.3	9.0	107	5.1	104	91	53	0	7	0	0	
ROANOKE	48	27	55	18	38	-1	T	-.8	T	8.9	109	5.1	106	85	40	0	7	0	0	
WA COLVILLE	44	35	49	29	40	8	.4	0	.2	8.3	151	4.5	141	94	82	0	2	4	0	
QUILLAYUTE	51	40	53	35	46	4	6.4	3.4	3.0	42.6	106	28.0	122	98	82	0	0	7	3	
SEATTLE-TACOMA	52	43	55	39	47	4	1.1	-.1	.6	17.7	116	9.8	114	94	66	0	0	6	1	
SPOKANE	46	36	49	32	41	8	.9	.5	.4	7.2	114	3.6	97	96	71	0	1	6	0	
YAKIMA	50	35	58	30	42	6	.6	-.4	.3	5.4	159	3.2	160	89	62	0	2	6	0	
WV BECKLEY	47	27	55	18	37	5	T	-.8	T	4.5	47	1.8	32	87	39	0	5	0	0	
CHARLESTON	50	28	62	20	39	2	T	-.8	T	7.1	78	3.6	64	92	47	0	5	0	0	
HUNTINGTON	47	30	59	24	39	3	0	-.7	0	7.1	86	3.1	61	88	53	0	5	0	0	
PARKERSBURG	46	26	57	11	36	3	0	-.8	0	8.0	93	3.7	66	94	51	0	4	0	0	
WI GREEN BAY	37	30	41	28	33	15	.4	-.1	.4	4.7	138	1.8	95	94	75	0	7	2	0	
LA CROSSE	39	30	47	27	35	15	.2	0	-.1	3.8	152	1.5	107	99	79	0	6	3	0	
MADISON	39	29	45	23	34	13	.5	-.3	.4	6.7	191	2.7	150	94	73	0	6	3	0	
MILWAUKEE	41	30	52	21	36	13	.3	-.1	-.2	7.4	172	3.0	120	95	70	0	4	2	0	
WAUSAU	39	30	44	28	35	19	.2	-.1	-.1	5.1	159	2.1	105	96	68	0	5	2	0	
WY CASPER	45	30	52	25	37	10	.1	0	.1	4.6	354	.9	113	89	45	0	5	2	0	
CHEYENNE	50	27	63	19	39	10	T	-.1	T	.9	75	0	0	73	30	0	6	0	0	
LANDER	40	25	42	21	32	6	.5	-.3	.4	2.2	157	.6	67	87	53	0	7	2	0	
SHERIDAN	54	28	66	22	41	15	.3	-.1	.2	1.1	61	.3	30	74	32	0	7	2	0	
PR SAN JUAN	89	71	93	66	80	5	T	-.6	T	7.5	70	.7	13	83	51	3	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

National Agricultural Summary

February 14 to 20

HIGHLIGHTS...Above-normal temperatures covered the Nation except in coastal areas of the Southeast. Warm weather melted most of the snow cover in northern areas and promoted growth of crops and pastures in the South. Precipitation and wet fields further delayed field activities in the Southeast where farmers had only 1 to 3 days suitable for fieldwork. Land preparation increased in the Corn Belt as fields dried. Winter wheat was rated in fair to mostly good condition; warm weather promoted early spring growth on the southern Plains. Unusually warm weather farther north caused grasses to break dormancy in some areas. Land preparations for the new cotton crop progressed in the Southwest. Spring vegetable planting was underway in parts of Texas, Florida, Arizona, and California. Warmer weather was more favorable for livestock. Calving and lambing increased.

SMALL GRAINS...Unusually warm weather melted most of the remaining snow cover in the major winter wheat producing areas, leaving the crop vulnerable to freezing and thawing. Winter wheat was in good condition in Kansas and fair to good condition across the rest of the Nation. Warmer temperatures encouraged early spring growth of small grains in southern areas. Topdressing was limited due to wet fields.

Mild temperatures melted snow in Kansas. Some producers applied fertilizer before rain halted fieldwork late in the week. Wheat was in good condition but vulnerable to possible freeze-thaw damage. Beneficial rains fell over Oklahoma, but warmer temperatures are needed for good growth. Seeding of spring oats and barley was hindered by wetness. Rain kept equipment idle in the southern half of Texas, although some small grain fields were fertilized in other parts of the State. Prospects improved in Texas during the week as warm weather caused fields to green. Montana's winter wheat was in fair to good condition, although snow cover was none to poor. In the Pacific Northwest, winter wheat showed signs of growth due to recent mild weather.

OTHER CROPS...Wetness slowed Florida's sugarcane harvest. In low areas, cane was suffering from too much water and some drowning was expected. Harvest continued active in the Rio Grande Valley of Texas. Harvest of the remaining cotton on the High and Low Plains of Texas resumed. Ground preparations for Arizona's 1983 cotton crop was active, although progress lagged in the southeastern area of the State due to wet fields. Limited cotton planting took place in Yuma County. California growers sprayed cotton beds. Tobacco growers prepared plantbeds and seeded the crop in some areas. In Georgia, plants continued

in good condition. Wet fields delayed corn planting in Texas. Very little corn has been planted to date in Florida because of wetness.

FRUITS AND NUTS...Deciduous fruit growers pruned trees, applied dormant sprays, and planted new trees as weather permitted. Peach buds began to swell due to warm temperatures in southern areas of Texas.

Florida's citrus groves were in near excellent condition. Soil moisture was adequate to surplus as many areas had record or near-record rainfall during February. Early and midseason orange harvest neared completion, but grapefruit picking continued active. Improved conditions in California promoted work in orchards and vineyards. Early almonds were in full bloom. Early apricots, plums, and some peaches and nectarines were blooming in the San Joaquin Valley. Citrus harvests continued active. Arizona's citrus activities were normal as the warming trend made groves accessible for picking. The Navel orange harvest was finished, and the sweet orange harvest neared completion. Tangerines and tangelos were being picked throughout the State. Citrus groves were generally in good condition.

VEGETABLES...Heavy rains slowed fieldwork in Florida's vegetable producing areas. Some low spots were flooded. Drainage of fields was active. Water and gusty winds slowed planting of crops and caused some damage. Total vegetable shipments declined 26% from the previous week. The only crops registering increases were snap beans, sweet corn, and okra. The strawberry harvest continued, but volume was low. Planting of spring crops increased. Drier weather was needed in California for fieldwork to progress normally. The artichoke harvest was light. Asparagus cutting started, but fields were very wet. Carrot harvest was active in desert areas. Poor market conditions slowed the lettuce harvest in the Imperial Valley. Harvesting of winter potatoes continued in the Kern and Perris-Hemet districts. Growers planted market tomatoes as fields dried. Processing tomatoes emerged in early-planted fields in the San Joaquin Valley. Spring vegetable planting was underway in many regions of Texas. Harvest conditions were excellent in Arizona as a warming trend provided ideal weather. Spring lettuce stands showed good growth. Hand hoeing and thinning was active.

PASTURES AND LIVESTOCK...Pastures were rated in fair to good condition throughout the South as warmer weather and adequate moisture benefited grasses. Calving and lambing gained momentum. California reported some losses due to heavy rains.

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 Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures mostly 1 to 4° above the seasonal normal. Rainfall was light with less than 0.25 in. at most stations and none in the extreme northwest.

ARIZONA: Fair, mild weather over State past week. Isolated light rain, snow showers over Mogollon Rim, White Mountains northward at beginning and end of week. Moisture amounts mostly under 0.02 in. Average temperatures varied 1 to 6° above normal.

Yuma County growers increasing hay harvest activities, growers central areas beginning to cut, windrow hay on limited scale. Crop growth made mostly average progress Statewide, some fields quite weedy. Wheat, barley crop development mostly average western, central areas. Some below average development southern, southeastern areas. Irrigation, herbicides, insecticides applied as needed. Small grains early planted fields jointing stage Yuma, Mohave Counties. Later planted fields

those counties, remaining areas of State had stands established, some reaching boot stage. Safflower stand establishment, early seedling growth progressing satisfactorily Yuma County. Activities progressing for Upland and American-Pima cotton to be planted 1983. Most areas preparing seedbeds, pre-irrigating. Some weed controls taking place. Limited planting taking place Yuma County. Many growers awaiting results of payment-in-kind sign-up program before planting. Southeastern counties slightly behind cotton ground preparations due to existing wet conditions. Few changes for vegetable growers past week. Harvest conditions excellent, warming trend providing ideal conditions. Central Desert Valley areas mixed vegetables such as carrots, turnips, greens, onions, broccoli, cauliflower, leaf lettuce continued to be picked. Yuma County continued harvesting lettuce, cabbage, cauliflower on limited scale. Spring lettuce stands made good progress Statewide, hand hoeing, thinning active. Planting continued throughout State for watermelons, cantaloups, honeydew melons. Established stand immature vegetables made normal progress. Pecan harvest approaching completion. Citrus activities normal as warming trend made groves accessible picking. Valencia oranges picked limited scale Yuma County, no growers picking Valencias Maricopa County due to poor market. Navel orange harvest complete, sweet orange harvest nearing completion. Tangerines, tangelos being picked Statewide. Lemons harvested based on orders received. Citrus groves remained good condition.

ARKANSAS: Very warm week, especially across northern half with temperatures up to 9° above normal. A dry week also with no rainfall reported. Highest normal 49°, lowest 41°. Highest mean 52°, lowest 46°. Highest temperature 74°, lowest 20°. All departures from normal ranged from 0 to +9°.

Wheat improved from fair to good due to unusual warm weather and nitrogen application. Little field preparation in southern areas. Pastures improved after fertilizer application. Peach and plum buds swelling. Livestock average.

CALIFORNIA: Another wet week for the State that pushed the precipitation totals even further above their normals. Three separate storm systems lashed the State with wind and rain at the beginning, the middle, and the end of the week. The first two systems were relatively warm with high snow levels. The final system that struck 18th lowered the snow levels dramatically to 2,500 feet in some areas of the north State and to 5,000 feet in the southern districts.

Excessive soil moisture limited seedbed preparation. Small grain yellowing observed in locations with poor drainage. Fields treated for broadleaf weeds. Cotton beds sprayed. Some wheat water damage. Wheat progressing slowly. Alfalfa, barley sprayed for weeds. Discing crop residue. Improved weather prompted work in orchards and vineyards. Early almonds in full bloom, mid-blooming varieties. Pruning and pesticide spraying in vineyards. Kiwi pruning nearly completed. Early apricots, plums, some peaches and nectarines blooming in San Joaquin Valley. Still some spraying and pruning in later varieties some orchards along rivers have water seepage. Citrus harvest continues, heavy grade out in some Navel oranges and tangelos. Dry weather needed for fieldwork most vegetable areas except Desert. Light harvest artichokes. Cutting asparagus started Delta but fields very wet. Harvest increasing Desert, continues very light Salinas Valley. Harvest broccoli, cauliflower slowed by market conditions. Carrot harvest active Desert, large sizes scarce. Lettuce harvest Imperial Valley slowed by market conditions. Winter potato harvest continues Kern and Perris-Hemet Districts. Fall potatoes moving from storage. Planting market tomatoes under caps resuming Cutler-Orosi as fields dry. Processing

tomatoes emerging in early San Joaquin Valley fields. Pasture low areas north flooded due heavy rains. Warmer temperatures central southern areas improved grass growth. Supplemental feeding active most areas. Some calf, lamb loss northern areas from heavy rains.

COLORADO: On 13th a cold front moved through the State as an upper trough moved southeastward toward State. The trough moved through the State 13th and 14th morning with low pressure developing over eastern areas. Snow fell mainly in the higher mountains. The 14th saw windy conditions on the Plains with north winds gusting to 50 mph. High pressure dominated 15th through 17th with variable light clouds. Light snow dusted parts of the Plains 16th morning. Another front moved through the State 18th. A low pressure deepened as it moved south to southeastward on 19th and brought high winds to all of eastern areas with gusts up to 70 mph in Pueblo. Snow up to 4 in. fell in the southeast and up to a foot in the mountains where travel was very difficult. Temperatures for the week were 5 to 10° above normal across the State.

FLORIDA: Rains of 1.00 to 2.00 in. with local amounts of 3.00 in. or more fell at midweek. Another in the series of low pressure systems moved through the State. A weaker low pressure system moved across southern half of State, week-end. Rain amounts with this system were 0.25 in. or less in widely scattered showers. Mornings of the 15th, 18th cool with some near freezing temperatures extreme north. Some warming occurred during weekend but temperatures still averaged 2 to 4° below normal. Many sections have now had more than double the normal February rainfall.

Soil moisture mostly excessive. Water standing in low areas in south. Farm work limited due to wet fields. Very little corn planted to date. Wheat, other small grains growing slowly. Farmers cannot apply fertilizer due to wet fields. Sugar-cane harvest slow due to wet conditions. Cane in low areas suffering from too much moisture, some drowning probable. Pasture conditions fair to good Statewide with variable improvements central, north, Panhandle. Conditions in south have declined somewhat due to excessive moisture. Cattle fair to good condition. Citrus tree condition near excellent. Moisture adequate to surplus, many areas record or near record rainfall during February. Very little new foliage growth showing. Early mid orange harvest almost over. Grapefruit harvest active. Harvest, fieldwork slowed in vegetable areas by heavy rains in early week, midweek. Some low spots flooded. Drainage pumping active. Crop progress slowed by adverse weather. Some plant damage due to water, gusty winds. Total shipments decreased 26% from previous week. Crops gaining in volume were snap beans, sweet corn and okra. Supplies about steady cucumbers, southern peas and strawberries. Volume declined all other vegetables. Strawberry harvest continues but volume low. Planting of spring crops increasing.

GEORGIA: Temperatures and precipitation differed across State. Average temperatures near normal northern third, 2° below normal central, 4 to 6° below normal south. Average precipitation northern third less than 0.50 in. In contrast, 2.00 in. fell in central portions and 3.00 in. south. Locally amounts of 4.00 in. fell south central areas. Over the weekend of 19th and 20th, mild days and clear, cold nights. Highs mostly in 60's. Lows in 30's and 40's. No rain over weekend.

Soil moisture adequate to surplus. Field activities resumed in drier areas due to clear weather, but remained non-existent in wet areas. Land preparation and nitrogen topdressing of small grains limited to areas where weather permitted. Small grain condition mostly fair to good. Tobacco

plants in good condition. Pastures condition good. Cattle and hogs condition continued good.

HAWAII: Dry weather, for the most part, prevailed. Much needed rain fell in parts of the State during the second half of the week but, more is needed. In the main vegetable growing area of Waimea farmers are on a 3-hour irrigation schedule due to the dry spell. Volcanic activity resumed on 14th, again causing hazy conditions over parts of Hawaii Island. Heavy cabbage and moderate lettuce supplies expected. Most other vegetable production will be light. Papaya production will continue in a seasonal lull.

IDAHO: Warm, wet weather prevailed over the State. All areas of the State averaged 5 to 10° above normal. The warmest temperature 61° at Lewiston while Bear Lake reported the coldest temperature with 5°. Precipitation amounts were fairly heavy over the State with most stations 0.10 to 0.75 in. above normal.

A limited movement of crops to market along with some sales of seed potatoes. Farm activities continued at normal pace as preparations for the upcoming crop year move ahead. Livestock sales active in some areas with many being shipped to the Plains States. Wet weather and mud causing concern for calving and lambing in certain parts of the State. Feed supplies reported to be adequate.

ILLINOIS: Temperatures average 2 to 12° above normal across State, largest departure north. Precipitation light, ranging mostly from trace to 0.20 in. over State.

Winter wheat condition 8% excellent, 74% good, 17% fair, 1% poor. Livestock in mostly good to excellent condition, helped by mild weather. Soil moisture 4% short, 81% adequate, 15% surplus.

INDIANA: Soils mostly too soft to support equipment. Where conditions permit spreading manure, topdressing wheat and picking few corn fields not harvested last fall. Also cutting wood, hauling grain, studying farm program, seeding clover and grass, ordering supplies, attending meetings, preparing taxes, caring for livestock and usual chores.

IOWA: Unseasonably mild with moderate precipitation. Temperatures averaged 12 to 15° above normal. Moderating temperatures at the weekend reached into the upper 60's southeast. Snow cover remains over the northwest.

KANSAS: Precipitation averaged around 0.25 in. west to generally traces to 0.02 in. central and east. Temperatures averaged 43 to 44° west and north central to 46 to 48° east and south central. These were 7 to 10° above normal west to 11 to 15° above normal central and east.

Mild temperatures melted snow. Fertilizer application some areas early in the week. Additional precipitation later in the week halted fieldwork temporarily. Farmers readying equipment for seedbed preparation and spring planting. Winter wheat in good condition but vulnerable to freeze-thaw conditions. Cattle grazing with supplemental feed. Feed supplies adequate. Calving and lambing underway in all areas.

KENTUCKY: Early in week saw near normal temperatures, highs in 40's. Readings then rose steadily with daily highs in 50's at midweek and in 60's to near 70 on weekend. Mean temperatures for week were 3 to 8° above normal. No precipitation recorded. Normal precipitation ranges from 0.75 to 1.00 in.

Most tobacco markets closed. Fields dried considerably. Field activity will begin soon if dry, mild conditions continue. Livestock wintered well, ample feed supplies.

LOUISIANA: Temperatures were normal to 2° above normal. Extremes 29 and 76°. Rainfall averaged generally less than 0.50 in. Greatest 24-hour total 2.00 in. at Reserve on 16th.

Soil continued wet over the State. Routine chores and caring for livestock main activities.

MARYLAND AND DELAWARE: A warming trend enabled farmers to recover from the heavy snowfall on the 11th. Temperatures for the second consecutive week averaged below normal Statewide. Temperatures in western Maryland averaged 1 to 2° above normal while temperatures east of the mountains were mostly 1 to 3° below normal. High temperatures averaged in the upper 40's to low 50's. Low temperatures averaged about 6° in the north to the mid teens to low 20's elsewhere. Precipitation was light to nonexistence with most totals under 0.20 in. Week end weather, 19th and 20th were mild, sunny days and cool nights with no additional precipitation.

MICHIGAN: The well above normal temperatures pattern back to State. Over most of the State temperatures averaged 14° above normal. Precipitation was light.

MINNESOTA: Temperatures averaged near normal. Extremes 55° Browns Valley and 1° above at Fosston and Warroad. Precipitation averaged near normal to 0.16 in. below normal except 0.10 to 1.80 in. above normal north central. Precipitation totals averaged less than 0.10 in. except 0.10 to 0.34 in. southeast and northwest and through northeast. Snowfall trace except around 1 in. south central and southeast and 1 to 5 in. south central and northeast except 5 to 10 in. extreme northeast near the Canadian Border and Lake Superior. Snow depth at weeks end 1 in. or less western third of State to 2 to 7 in. elsewhere except 8 to 16 in. extreme north central and northeast.

MISSISSIPPI: Fair and dry weather prevailed across the northern two-thirds of State. A strong low pressure system developed midweek and spread rain into the extreme south. Rainfall amounts were generally less than 0.50 in. Greatest weekly rainfall total was 1.37 in. The greatest 24-hour total was 1.17 in. on the 16th. Temperatures averaged slightly below normal except for northwest sections where the average was near normal. Lowest temperature 22° at Oxford on the 14th. Highest 75° reported on the 20th at Lexington, Poplarville and Port Gibson.

Soil moisture surplus. Fieldwork 4.0 days suitable. Nitrating winter wheat and winter grazing as well as care and feeding of livestock were the main activities. Winter wheat condition fair. Hay and roughage supplies adequate. Feed grains adequate to short. Livestock condition fair.

MISSOURI: Temperatures averaged 10 to 14° above normal, except in the Bootheel where 5 to 7° above normal was the rule. Precipitation throughout the State was very light to none.

MONTANA: Temperatures above normal again. Averages from 17° above normal north central portion to 10° above normal west of Divide. Highest temperature 63° at Roundup, and lowest 7° above Wisdom. Significant precipitation confined to areas west of Divide and high valleys of southwest. Amounts ranged from 0.50 to 2.00 in.

Winter wheat condition fair to good. Snow cover protection none to poor. Livestock condition good.

NEBRASKA: Spotty rainfall, amounts ranged from trace up to 0.20 in. Temperatures 9 to 15° above normal. Snow cover nearly all gone.

NEVADA: Several fast moving cold fronts passed through State throughout week. Most precipitation occurred beginning and end of period. High winds

accompanied storms midweek and later with gusts greater than 60 mph common. Temperature averaged 4 to 6° above normal all areas.

Fieldwork starting extreme south. Cold weather and gusty winds not favorable for newborn calves and lambs. Movement potatoes to market continues sluggish.

NEW ENGLAND: New England temperatures averaged 3 to 8° above normal in most sections. Midweek temperatures reached 48° from Boston, MA to Springfield, VT. A cold front 14th and 17th brought temperatures down to -15° at Diamond Lake, NH. Precipitation fell as snow across northern regions, measuring 6 in. in NH, and rain across the south, with RI receiving 1.73 in.

NEW JERSEY: Temperatures above normal, averaging 32° north, 36° south and 39° coastal areas. Extremes 4° at Newton and 53° at Toms River. Precipitation below normal averaging, 0.07 in. north, 0.07 in. south and 0.08 in. coastal sections. The heaviest 24-hour total reported 0.14 in. on 17th to 18th at Pomona. Depth of snowfall on ground 20th 6 in. at Newton and Flemington, 5 in. at Canoebrook, 3 in. at Belvidere Bridge, Charlotteburg and Neshanic Station, 2 in. at Freehold and New Brunswick.

Soil moisture supply mostly adequate to surplus. Small grain crops generally in good condition. Major farm activities: Caring for livestock, repairing machinery, ordering supplies and other winter chores.

NEW MEXICO: Average temperatures were a little above normal at most locations.

Soil moisture supplies remain adequate with some surpluses reported. Cold temperatures and snowfall slowed fieldwork in some areas. Wheat and barley in good condition. Grazing of fields increasing as snow melts off. Transplanting of onion sets active. Fall seeded onions in good condition. Spring lettuce fields sprouting well. Pruning of pecan trees following harvest progress. Ranges fair to good condition. Grazing remains limited due to snow. Supplemental feeding of livestock difficult due to the snow. Death losses reported to be higher than expected.

NEW YORK: Average temperatures from mid 20's to mid 30's, with the warmer readings in southeast and west. All stations had less than 0.25 in. of precipitation.

NORTH CAROLINA: Temperatures 1 to 3° below normal, near normal in southwest. Almost no rain in the mountains, heavy along the coast. Soil moisture: 1% short, 16% adequate, and 83% surplus. Days suitable for fieldwork: 1.2. Conditions: Wheat, oats, barley and rye fair to mostly good. Hay and roughage: 1% short, 97% adequate, and 2% surplus. Feed grains: 91% adequate and 9% surplus. Pasture conditions: 11% poor, 50% fair, and 39% good. Major farm activities: Cutting firewood, leasing tobacco allotments, preparing and seeding tobacco beds, machine maintenance, reviewing the PIK program, income tax returns, and top-dressing small grains.

NORTH DAKOTA: Temperatures were from 15 to 23° above normal across the State. Extremes from 64° south central on the 18th to 2° north central on the 18th. Precipitation ranged from near normal northeast and north central to 0.10 in. below normal elsewhere.

Above normal temperatures beneficial to exposed winter wheat and rye. The mild winter thus far has been conducive to livestock care and general farm work.

OHIO: High temperatures averaged 5 to 13° above normal. Averages mid 40's to low 50's. Readings

into 60's Statewide. Low temperatures averaged upper 20's to mid 30's. Soil temperatures over 40°, average values mid to upper 30's. Little, if any, precipitation.

Unseasonably mild, dry weather brought farmers into the fields; some plowing and cleanup of last year's row crop harvests.

OKLAHOMA: Temperatures averaged 4° above normal Panhandle and west central to 7° above normal north central and northeast. All sections of State except northeast and southeast received measurable rainfall. Rainfall averaged 0.11 in. southwest to 0.77 in. south central.

Rain beneficial to wheat in major producing areas. Warmer temperatures needed for good growth. Rain continued to hinder planting of spring oats and barley. Cattle remain in good to fair condition.

OREGON: Heavy precipitation along the coast and in western valleys ranged from 3.00 in. at Astoria to 6.60 in. at Brookings. Eastern areas received amounts up to 0.50 in. towards the end of the week. Temperatures were 5° above normal for the Willamette Valley and coastal areas and 7° above normal for eastern sections. Grain crops generally look good. Some concern over possible erosion from heavy runoff in a few areas particularly to late seeded fall crops. Orchard pruning in full swing. Some dormant spray activity going on. Buds starting to swell 2 weeks early. Filberts still pollinating. Growers ready to start fertilizing grass fields when weather improves. Livestock in mostly good condition. Hay in short supply many areas.

PENNSYLVANIA: The week began very cold as overnight temperatures were in the negative values in isolated areas. The snow cover in eastern counties was primarily the cause of these low temperatures. By week's end daytime highs reached into the 40's and 50's with little snow cover remaining. Statewide temperatures averaged 5 to 10° above normal. Extremes 53 and -4°. Precipitation across the State was practically nil with only 4 stations reporting measurable amounts. Of these 4 less than 0.10 in. was observed.

PUERTO RICO: Island average rainfall 0.22 in. or 0.45 in. below normal. Highest weekly total 1.15 in. Highest 24-hour total 0.24 in. Temperatures averaged about 79 to 75° on Coasts and 68 to 64° Interior Divisions. Mean station temperatures ranged from 80.3 to 64.1°. Extremes 93 and 57°.

SOUTH CAROLINA: Temperatures averaged above normal. Tobacco, vegetable and other croplands prepared for spring planting. Fruit trees, vines pruned; trees, vines set. Equipment maintained and livestock cared for.

SOUTH DAKOTA: Average temperatures ranged from 11 to 25° above normal. Extremes: 16 and 77°. Precipitation light over most of State. Up to 0.36 in. southeast. Parts of northeast and north central received up to 4 in. of snow.

TENNESSEE: High pressure dominated the weather across State throughout the week. A cold front pushed into the State from the north; however, it dissipated and brought no rain. The entire week was rain free. Springlike temperatures were common and afternoon readings climbed into the 50's and 60's. Overnight lows were generally in the 20's and 30's.

TEXAS: Weather characterized by systems moving through the State and producing rain. Temperatures were generally normal or slightly above normal except for the Cross-Timbers, Blacklands and East Texas regions where temperatures were 5° above normal. Precipitation normal or near normal

over most of the western half of the State and was above normal over the eastern half of the State. Amounts were as much as 1.00 to 1.50 in. above normal in South Central Texas, the Coastal Bend and the Upper Coast regions.

Crops: Some outdoor activities were attempted. Remaining cotton harvest resumed High and Low Plains. Some fertilizer applied to small grains. Rain southern half of State kept most equipment idle. Small grain prospects improved by warm weather with greening up and initiation of new growth. Sugarcane harvest continued in the Rio Grande Valley. Corn planting and land preparation southern half of the State were delayed by rain and wet fields. Cotton harvested 100%, 100% 1981, 100% average.

Commercial vegetables: In the Lower Rio Grande Valley, harvest of cabbage, carrots, greens, celery, cauliflower, lettuce and broccoli continued. Planting of spring vegetables underway. Planted vegetables coming up to good stand. Onions make good progress. Citrus harvest remained active. At Laredo, onions continue to look good. Harvest of carrots continued while broccoli harvest neared completion. In Coastal Bend, some cabbage acreage ready to harvest. In San Antonio-Winter Garden, harvest of cabbage, carrots, lettuce and spinach continued with good volume. Land preparation and planting of spring vegetables active. In East Texas planting of spring vegetables was underway. On High Plains land preparation for potatoes resumed. Warm weather has caused peach buds to begin to swell in some southern areas.

Range and livestock: Ranges and pastures benefited from the return of warm temperatures across the State. Moisture conditions for range and pastures very good. Supplemental feeding, however, continued and helped to maintain livestock in fair to good condition. Calving and shearing of sheep and goats active.

UTAH: Periods of precipitation most of the State. Accumulations variable, ranging from light to heavy. Average temperatures well above normal, ranging from 1° below to 10° above.

Some apple and potato shipments. Lambs and calves beginning to drop. Early turkeys for next season being placed. Major activities, routine chores and care of livestock.

VIRGINIA: Daytime highs in the 30's and 40's rose mainly into the 50's as the week wore on. Lows were generally in the 20's and 30's. Cooler air during the first part of week resulted in averages across the State being near, or a few degrees below normal. Little precipitation fell from the northern portion through the southwest part of the State. The remainder ended up with around 0.50 in. - with a few spots reporting up to 1.50 in.

The snow cover and extremely wet conditions after melting kept the number of days suitable for fieldwork near "0". Topsoil moisture was rated 16% adequate and 84% surplus. During this snow period livestock work increased. Births in the

snow increased death loss but many animals had been moved in close to barns so losses were not great. Mud in some areas is now becoming a problem. Winter grains and grazing crops rated in excellent condition. The supply of hay, roughage and feed grains about normal. Other outdoor activities include snow removal, cutting firewood, equipment maintenance and very limited topdressing of small grains. Tobacco seeding progressed rapidly during the weekend in anticipation of forecast rain. Indoor activities include tax preparation, educational meetings, pesticide recertification and a lot of thought about the PIK program.

WASHINGTON: A large, low pressure system over the Gulf of Alaska continued as the dominant feature on weather charts of the Pacific Northwest. The system maintained a moderate to strong flow of warm, moist marine air over the State. Fronts were embedded in the flow and produced above normal rainfall for all areas as they moved over the State in a sequence of one every 24 to 30 hours.

West: Temperatures mild throughout the week, with rain, heavy at times. Between rains, farmers seeding Christmas trees and pruning bushberries. Buds beginning to break on fruit trees and ornamental shrubs.

East: Field preparation hampered by wet conditions. Pruning and orchard clean-up continued. Winter wheat showing signs of growth from recent mild temperatures. Calving and lambing season well underway. Farmers attending meetings.

WEST VIRGINIA: Temperatures were cold in early part of the week; unseasonably warm at the end. Range -11 to 62°. Precipitation below normal after heavy snowfall the previous week.

Soil moisture adequate to surplus. Days worked 1.3. Hay and other feed grains adequate.

WISCONSIN: Very mild week, highs in the 30's and 40's, capped off by highs in the 50's and 60's on 20th. On 20th, Cambridge reported 63° and the lowest reported temperature was 17° in Duluth-Superior on 17th. Occasional periods of light rain and snow occurred 17th thru 18th. A band of wet heavy snow developed from southwest thru central and northeast areas. One to two in. fell 15th and into 16th, with another 1.00 to 4.00 in. 16th and 17th. One-half to three in. fell in western and northern areas on 18th.

WYOMING: Temperatures ranged from 4 to 14° above seasonal. Another dry week reported. All areas below normal with few exceptions.

Winter wheat good condition. Land preparation for spring planting underway scattered areas. Some locations may need moisture. Livestock good condition most areas. Early calving, lambing of farm flocks underway. Other activities: Disking corn stalks, spreading manure.

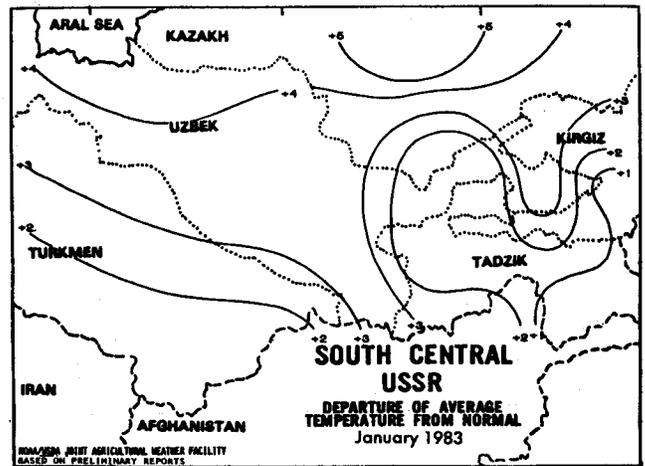
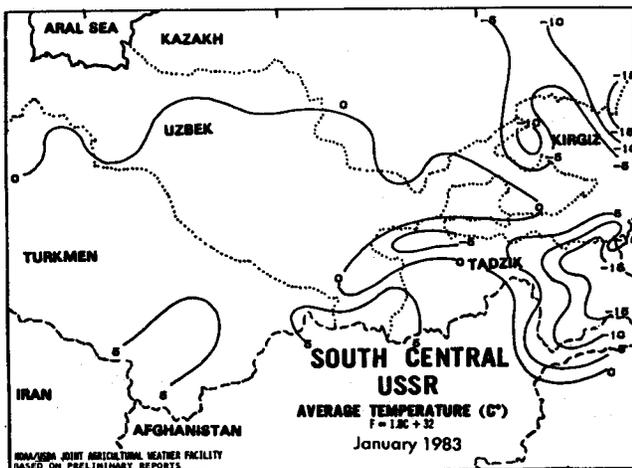
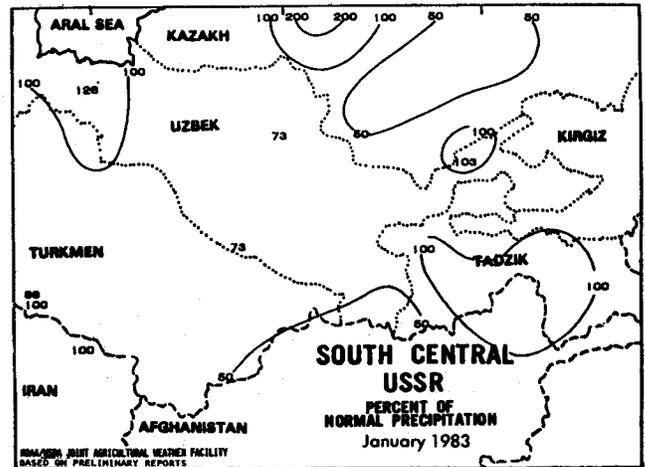
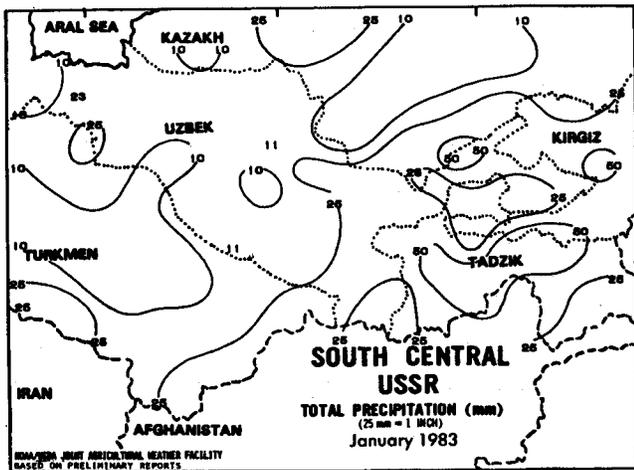
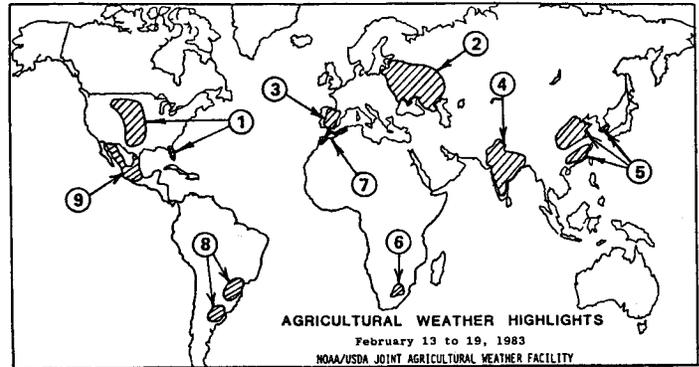
National Weather Summary (continued from front cover)

SATURDAY ... A strong cold front moved out of the Western States into the Plains and triggered a variety of weather. Heavy snow, accompanied by high winds, fell along the continental divide in Colorado and Wyoming. Blowing dust preceded light rain over the High Plains from Kansas to North Dakota, while showers and thunderstorms reached from central Texas through Oklahoma. Warm weather continued for the day through the Plains but was being replaced by colder air.

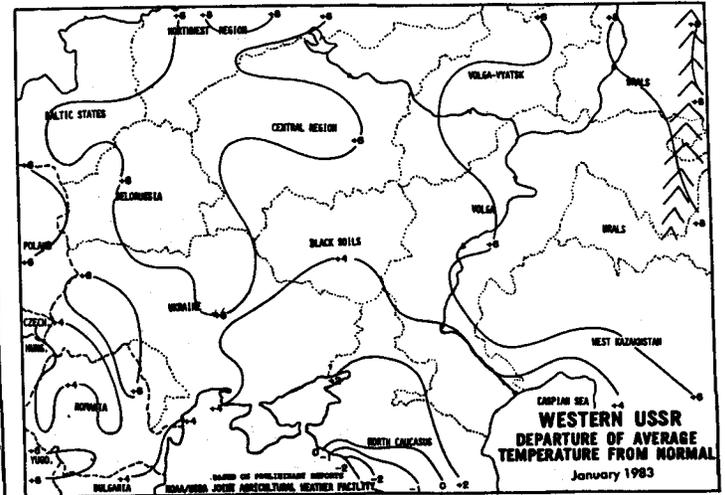
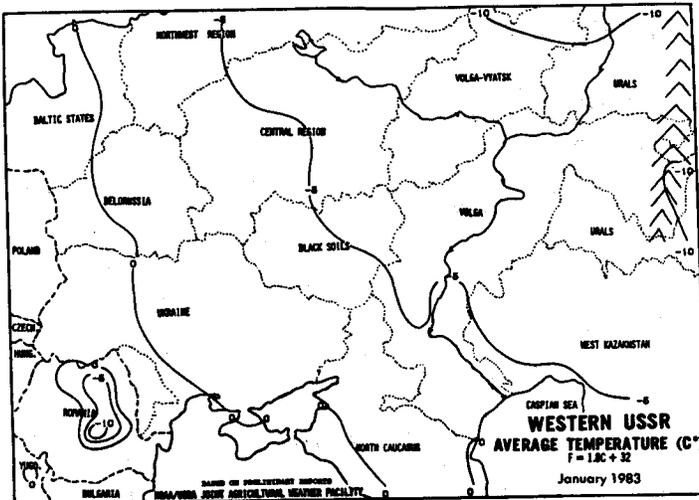
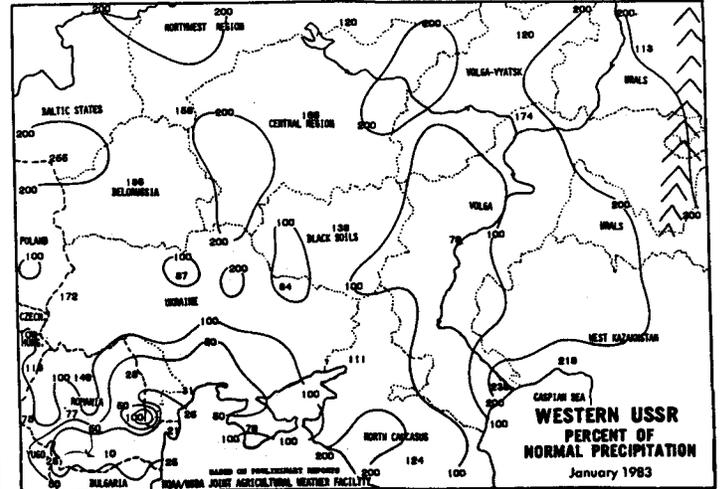
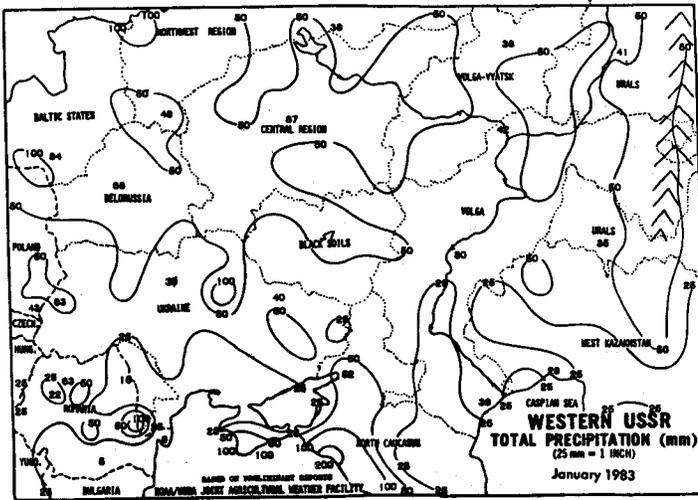
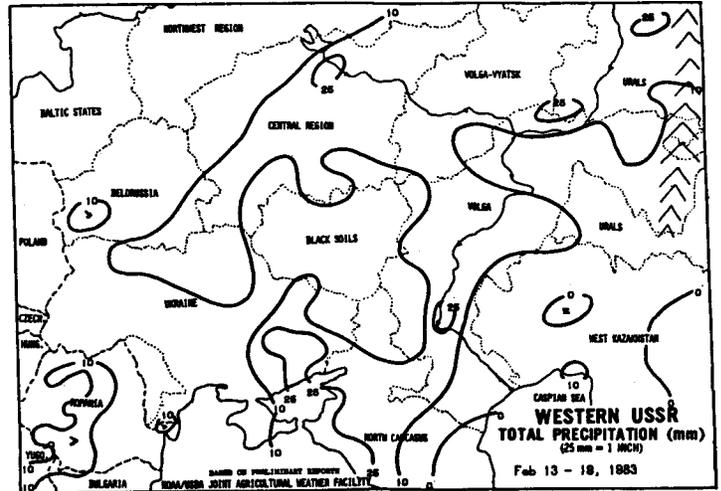
International Weather and Crop Summary

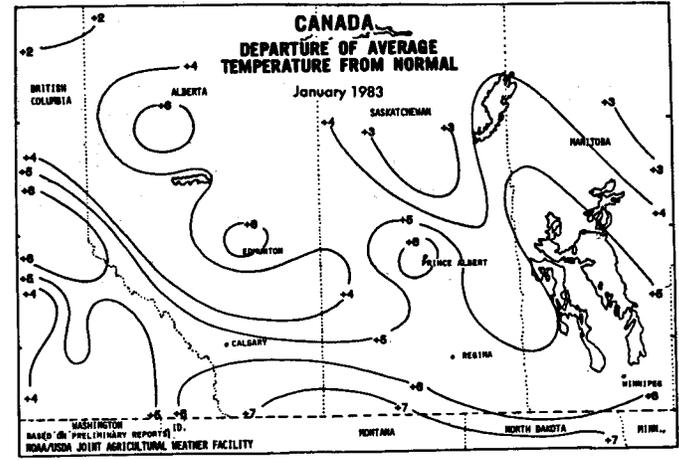
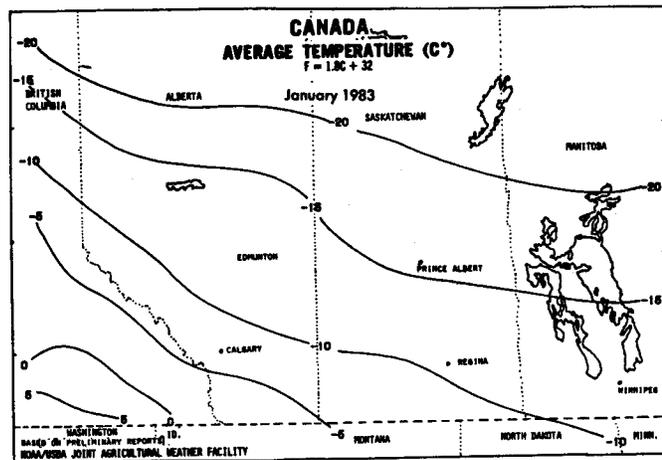
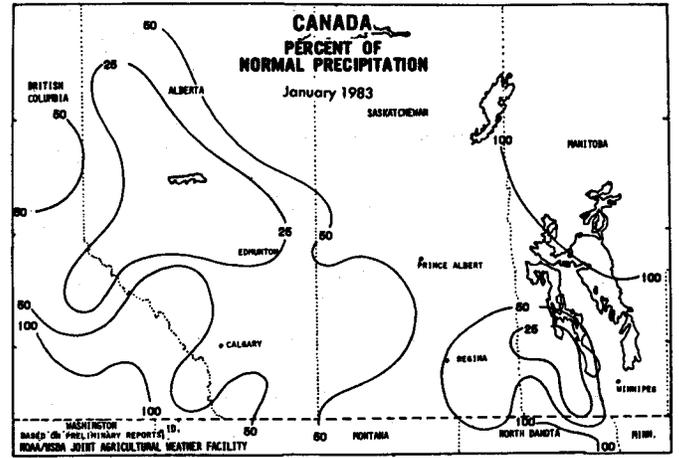
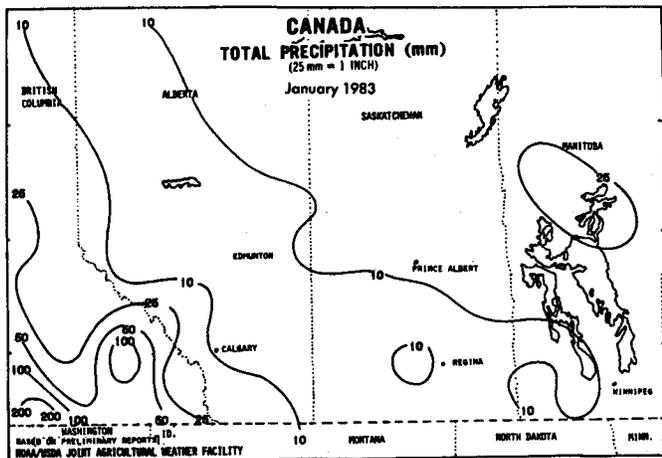
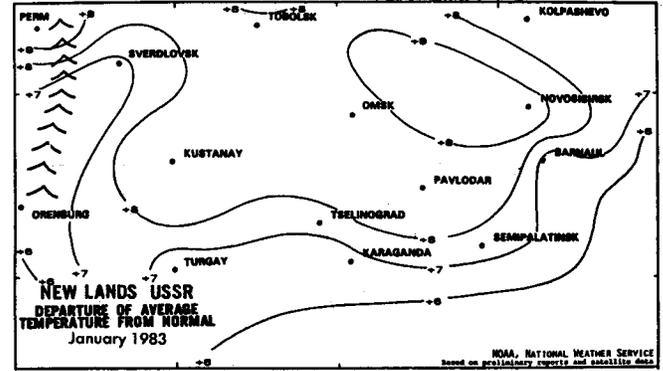
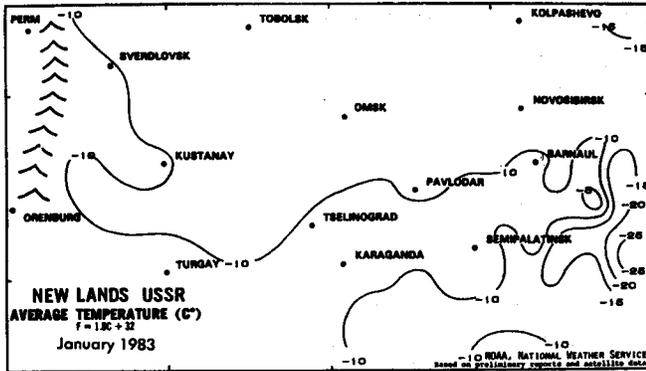
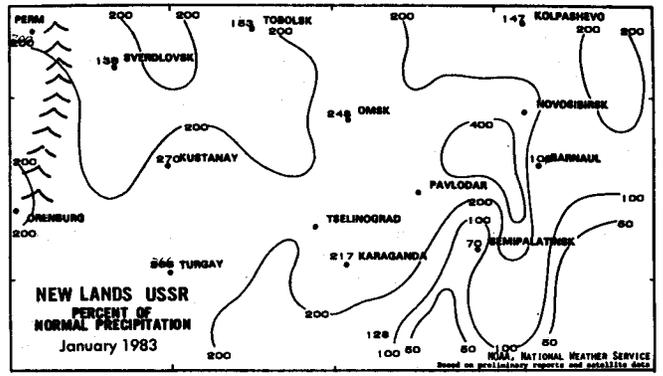
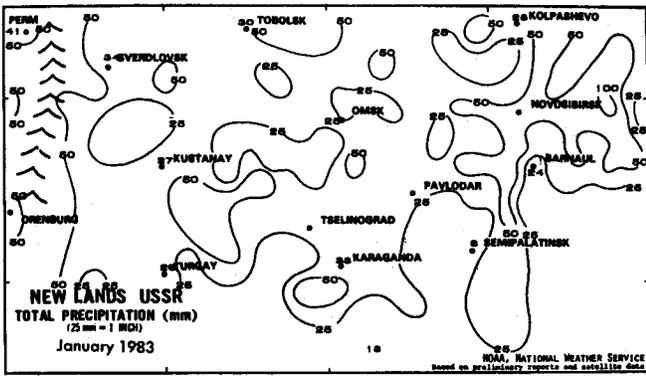
February 13 to 19

1. UNITED STATES ... Heavy rains slow Florida's fruit and vegetable harvest, causing some damage. Unseasonable warmth across the Plains causes wheat to green in the south and lose some dormancy in the north.
2. WESTERN USSR ... Light precipitation and seasonably cold weather cover most winter grain areas.
3. EUROPE ... Mostly dry weather continues to plague Spanish grains.
4. SOUTH ASIA ... Dry weather covers most crop areas.
5. EASTERN ASIA ... Wet weather provides favorable preplanting moisture in southern rice areas. Dry, cold weather continues for dormant winter grains in South Korea and North China Plain.
6. SOUTH AFRICA ... Scattered showers provides little relief for severely stressed corn in the grain-filling period throughout southern and western portions of the Maize Triangle.
7. NORTHWESTERN AFRICA ... Showers improve winter grain prospects in Morocco and western Algeria.
8. SOUTH AMERICA ... Rains benefit pod-filling soybeans in Brazil. Much-needed rains in Argentina fall too late for corn but benefit soybeans.
9. MEXICO ... Abundant sunshine favors fieldwork, but dryness slows some spring planting.

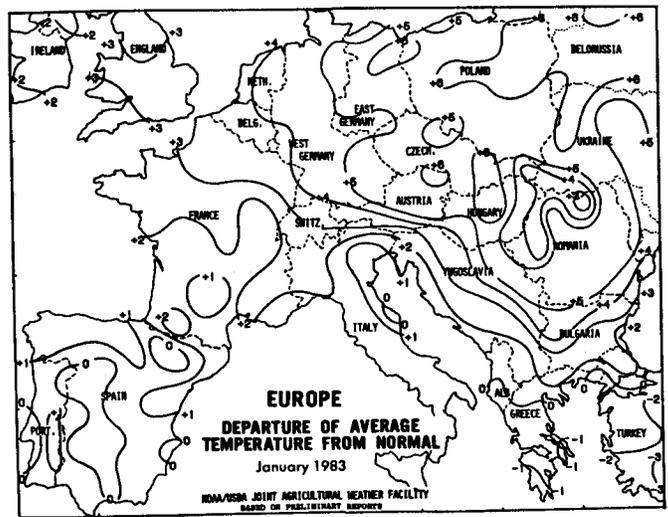
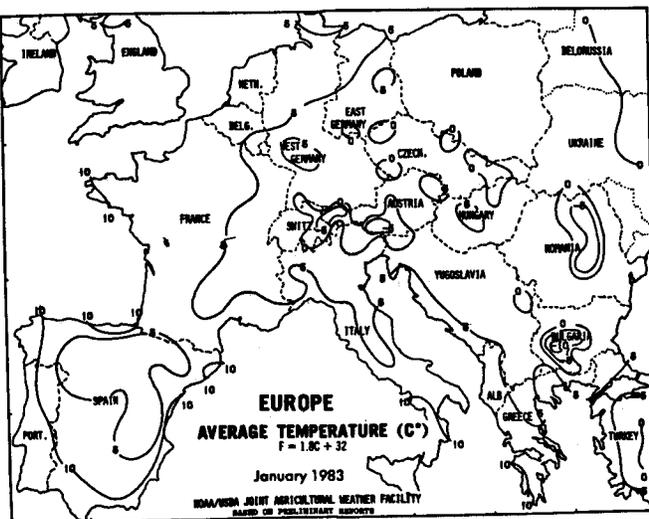
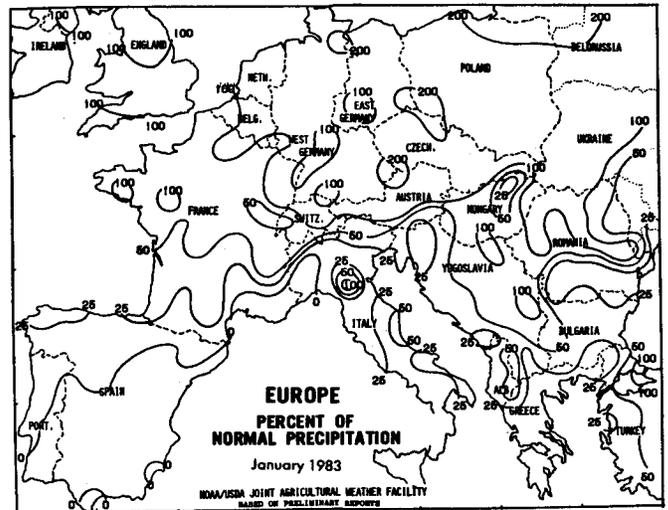
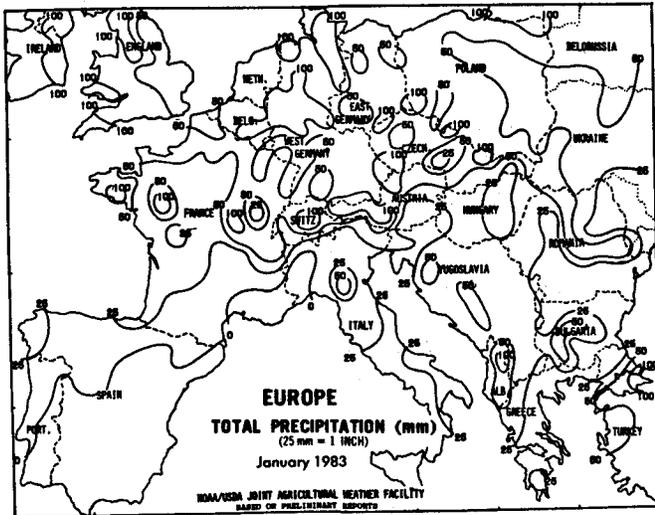
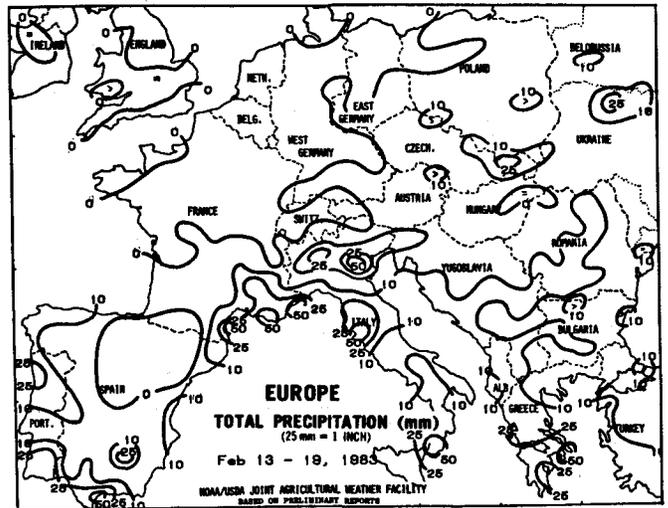


WESTERN USSR...Light precipitation covered a large portion of the region. However, generous amounts of moisture fell on winter grains in the eastern Ukraine, the southern North Caucasus, and the southern Volga Valley. In January, above-normal precipitation, covered most winter grain areas except Moldavia, parts of the south central Ukraine, and the lower half of the Volga Valley. Monthly temperatures generally ranged 4-6°C above normal over the region, but temperatures still were cold enough in most areas to keep crops dormant. Temperatures this past week became more seasonably cold with nighttime lows on some days dropping to around -15°C. The cold weather did not last long enough to produce winterkill.

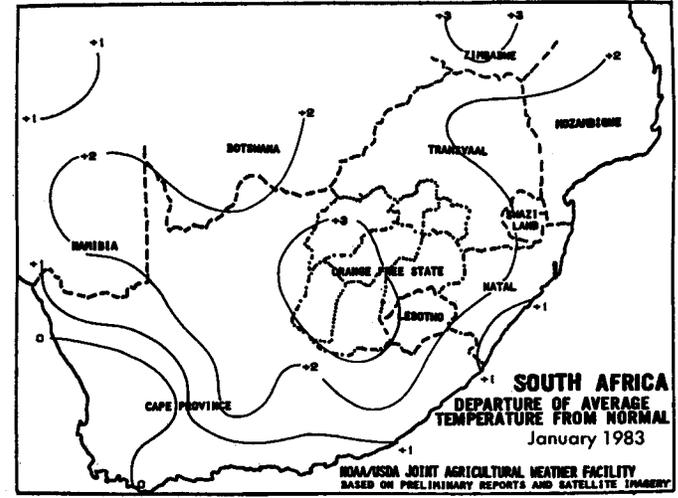
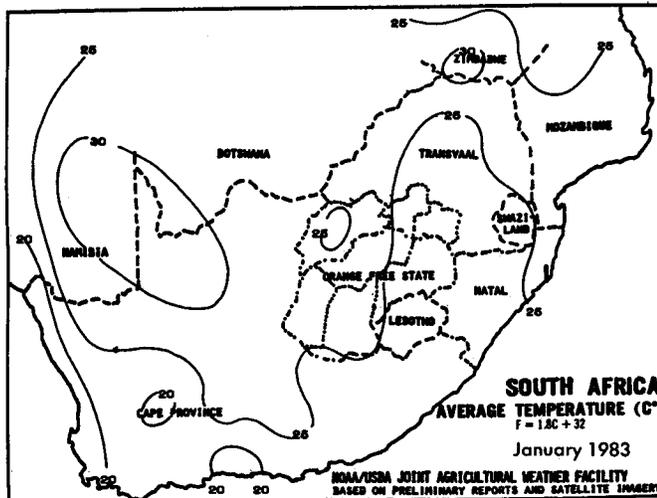
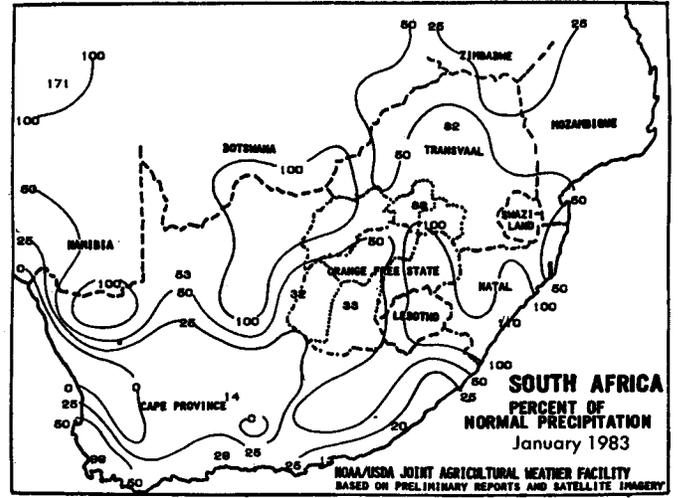
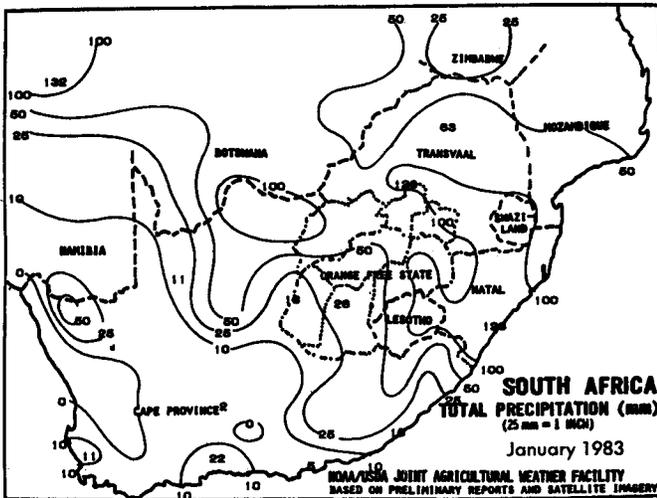
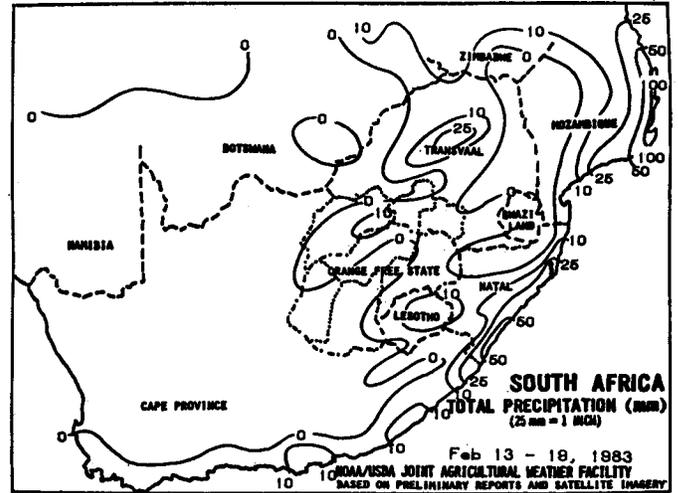




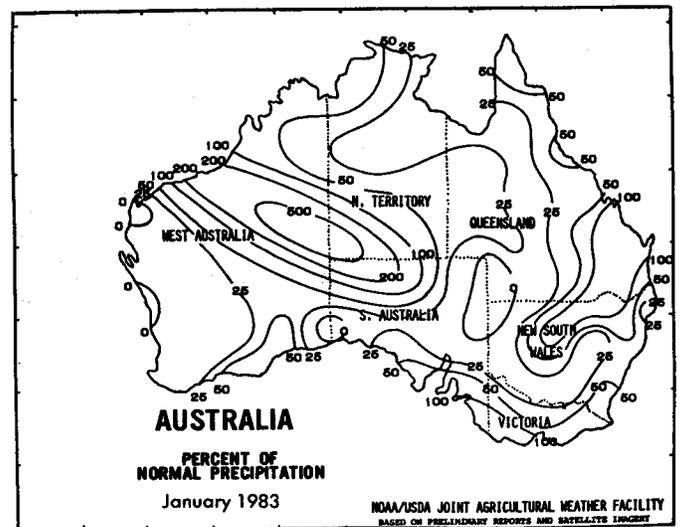
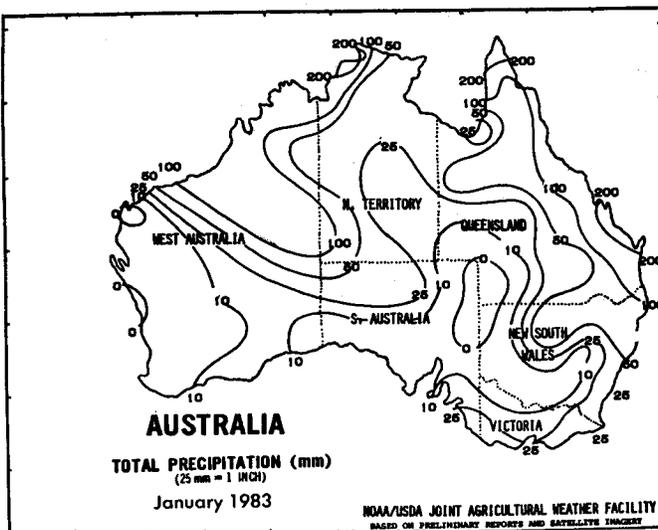
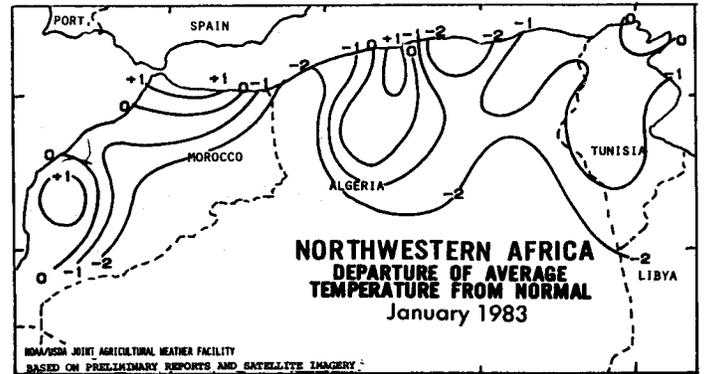
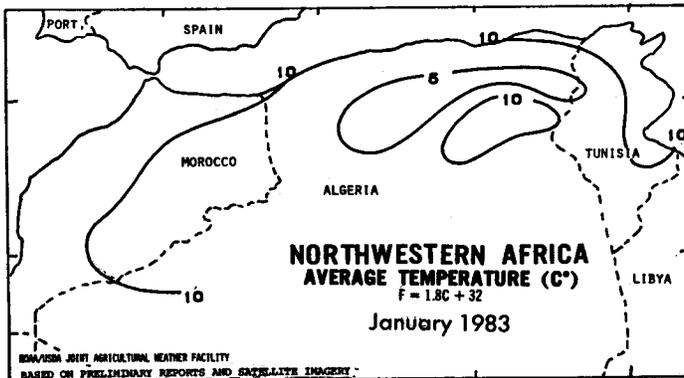
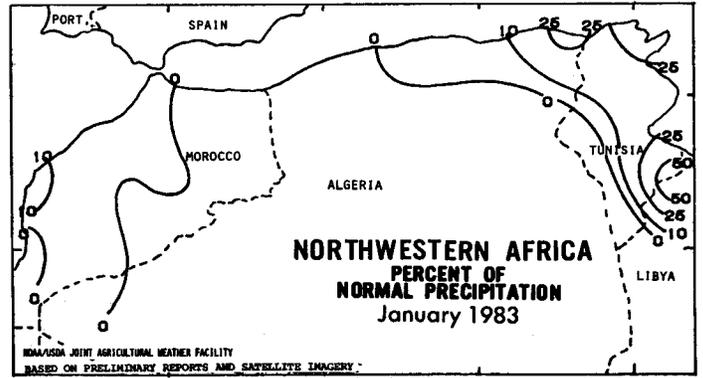
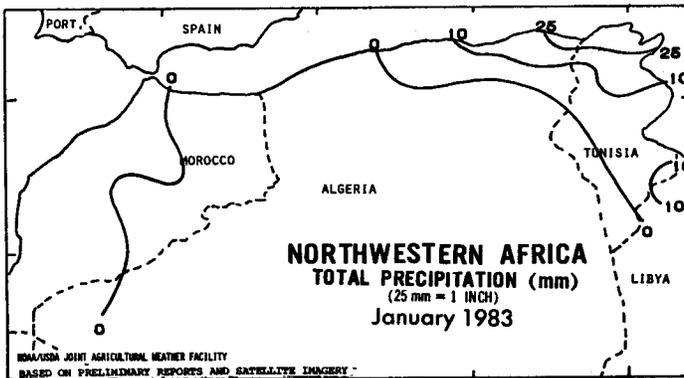
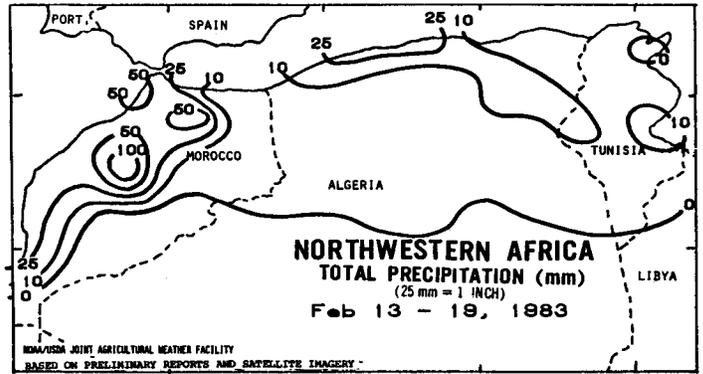
EUROPE...Light precipitation covered most of the region except northern Italy where locally heavy showers fell. In January, near- to above-normal precipitation maintained favorable soil moisture in England, northern France, West Germany, Yugoslavia, Romania, and Bulgaria, and improved soil moisture levels in East Germany and Poland. Monthly temperatures in the above areas were 3 to 6°C above normal. Most crops remained dormant during January, except in England and northern France where growth may have been slow. In Spain, unseasonable dryness stressed winter grains in January. Although recent showers benefited parts of southern Spain, most crop areas still remain unfavorably dry. Cold nighttime temperatures inhibited vigorous plant growth, thereby reducing the potentially adverse effects of the dry weather on the grain crop. However, subfreezing temperatures this past week may have damaged citrus and olive trees located along the eastern shore.

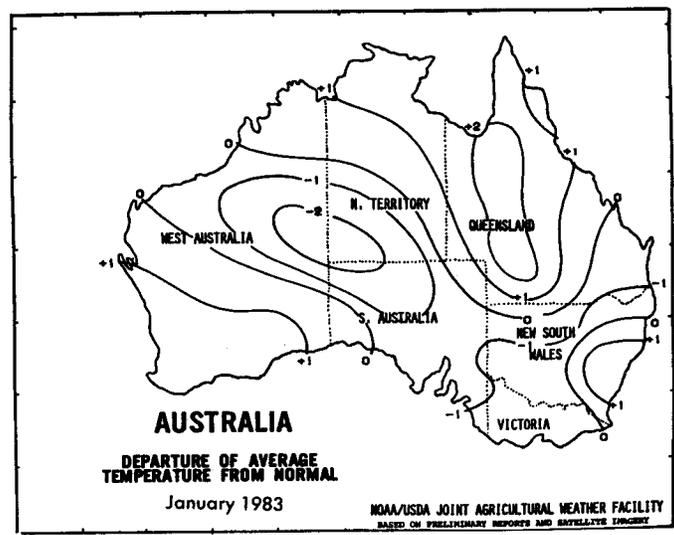
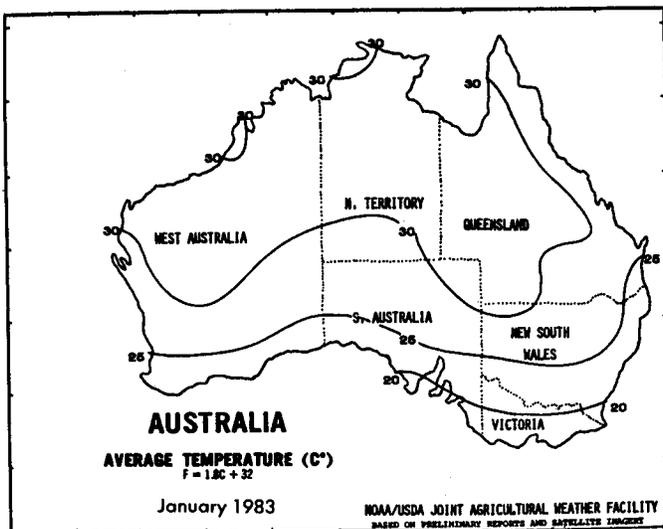
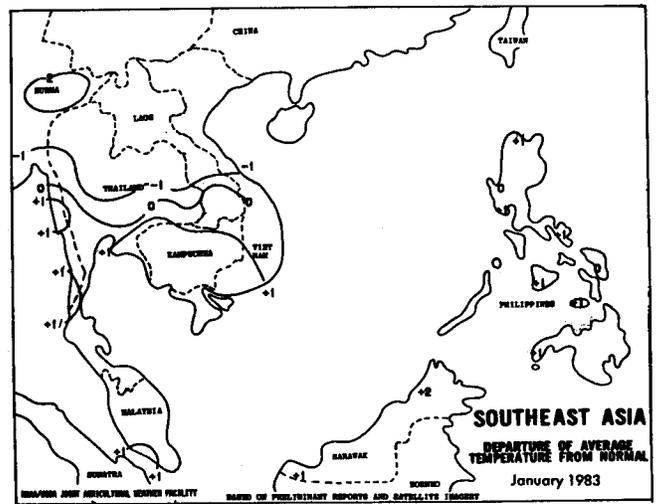
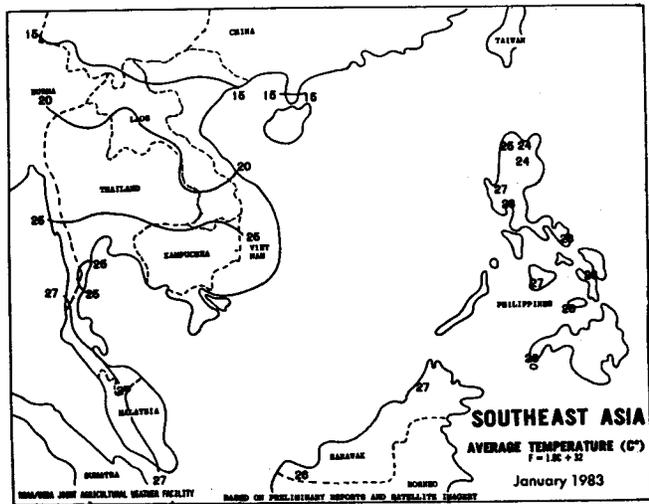
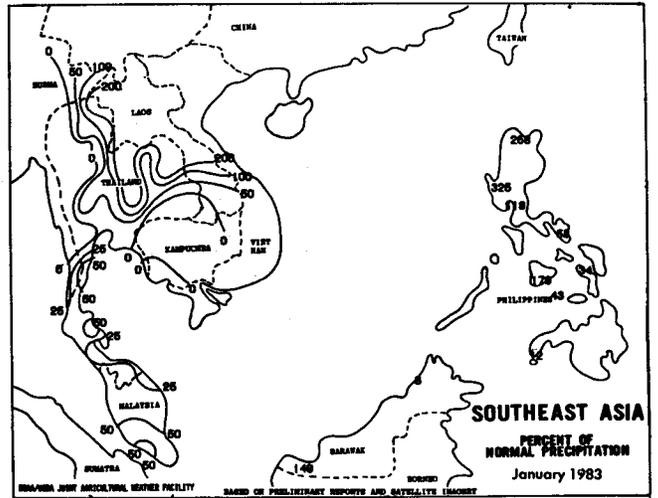
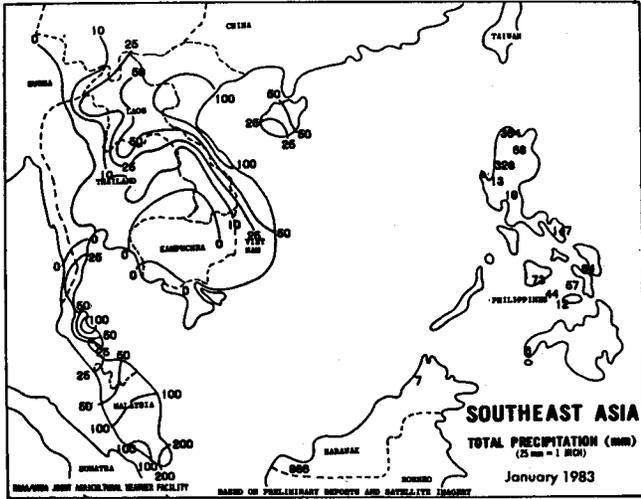


SOUTH AFRICA... Scattered showers provided little relief to the severely stressed corn in the Maize Triangle. January rainfall was well below average for the second consecutive month in southern and western crop areas, while monthly average temperatures were above normal. The prolonged hot, dry weather has coincided with crucial moisture-sensitive growth stages ranging from late vegetative growth through the present grain-filling period. The unfavorable weather has not only advanced the growth cycle ahead of normal but also stunted crop development, significantly reducing the crop yield potential. Isolated but beneficial showers fell in the northern Transvaal, while substantial rains from a tropical storm off the coast covered eastern Mozambique.

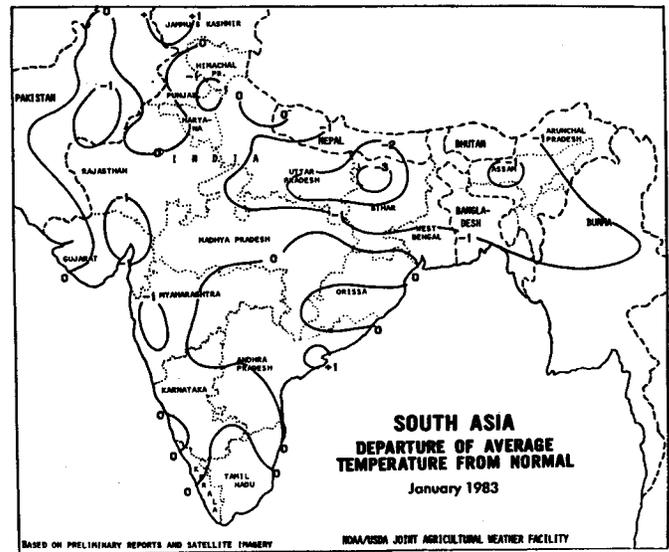
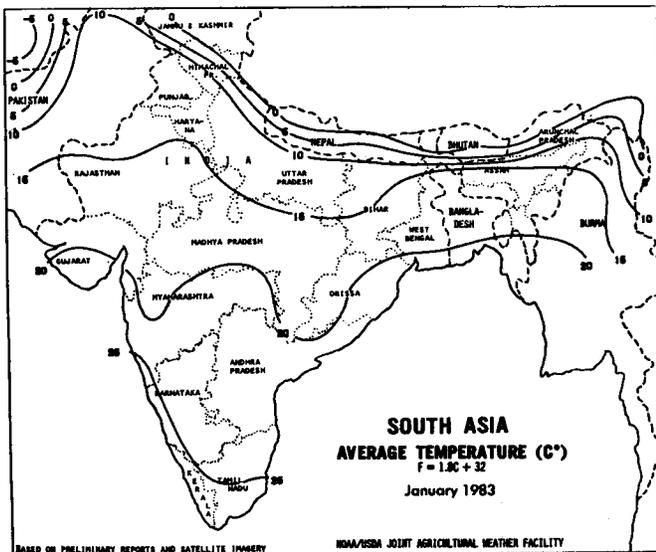
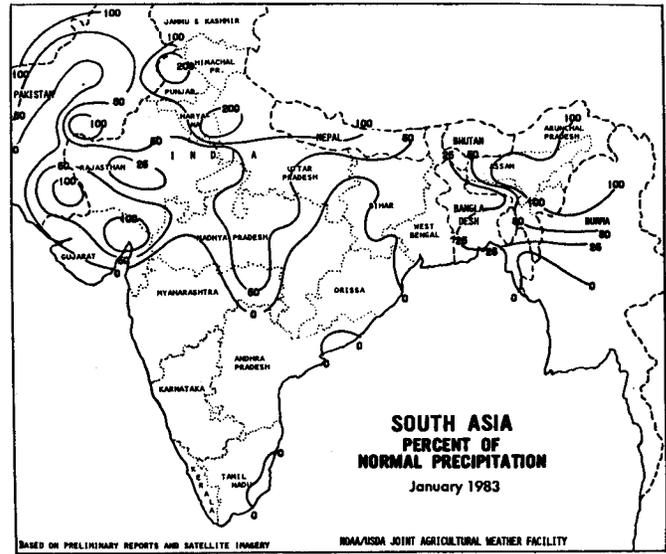
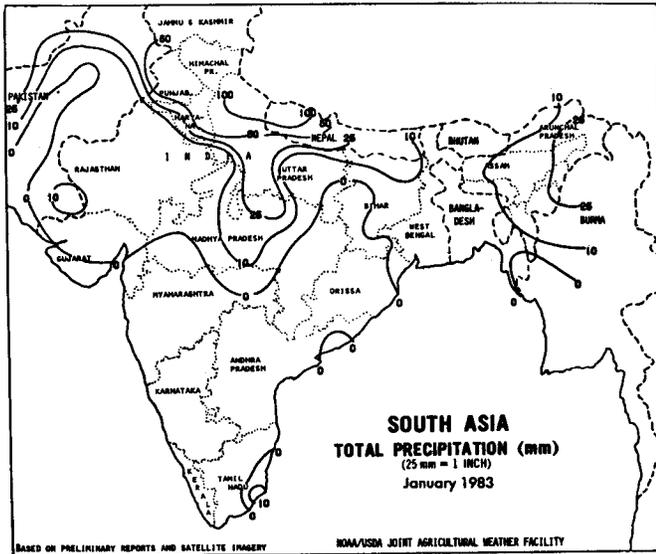
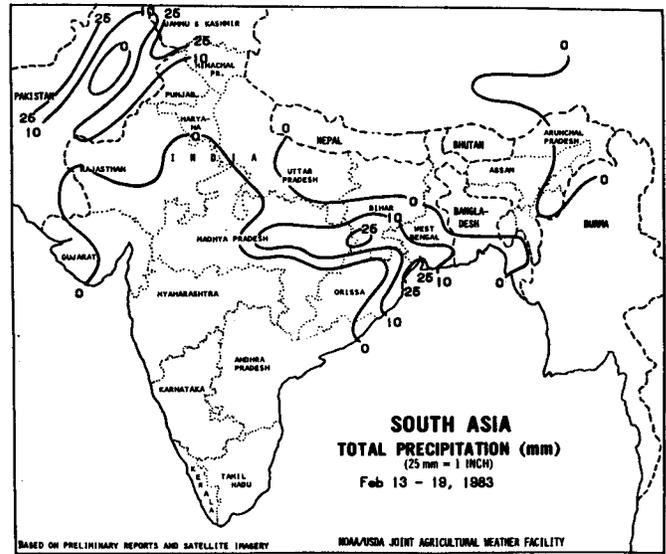


NORTHWESTERN AFRICA...Widespread rains continued to benefit winter grains in Morocco and western Algeria. Rainfall amounts generally ranged from 25 to 50 mm, reversing January's adversely dry weather pattern. The recent rains have improved crop prospects, but more rain is needed. Crop areas in eastern Algeria and Tunisia also received less than normal rainfall in January. January's light precipitation pattern continued in these areas this past week.

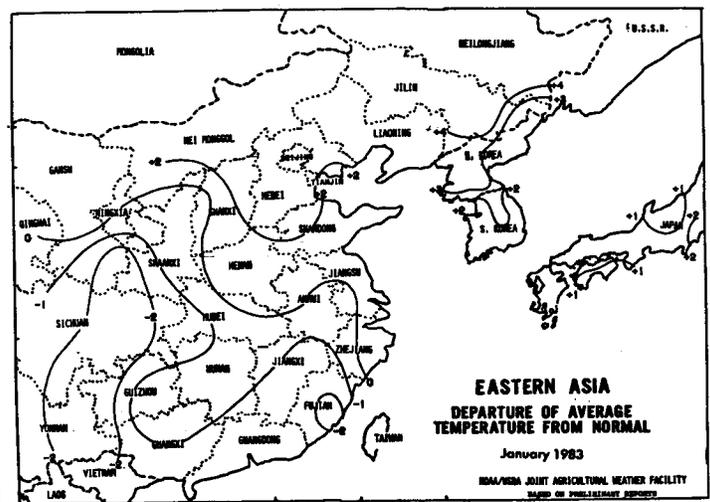
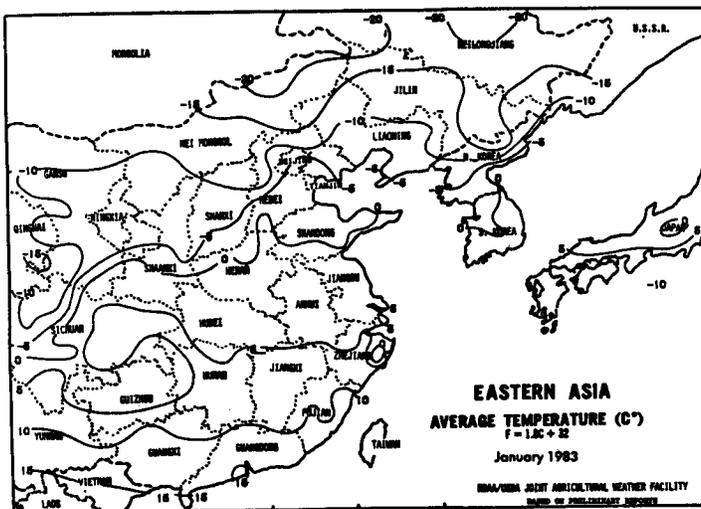
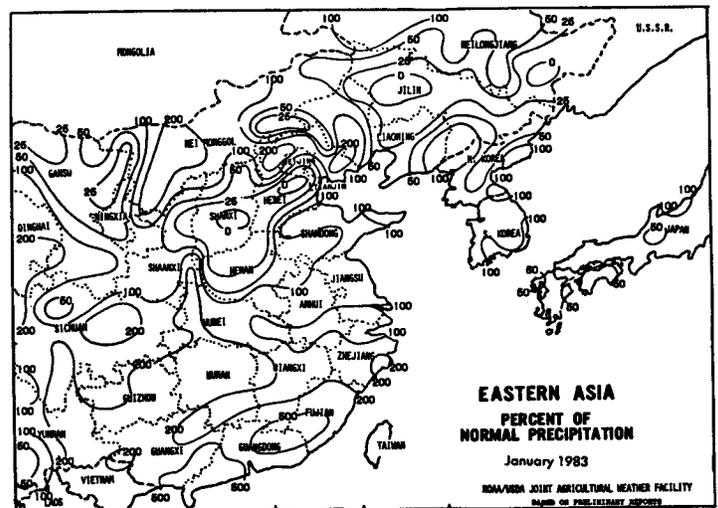
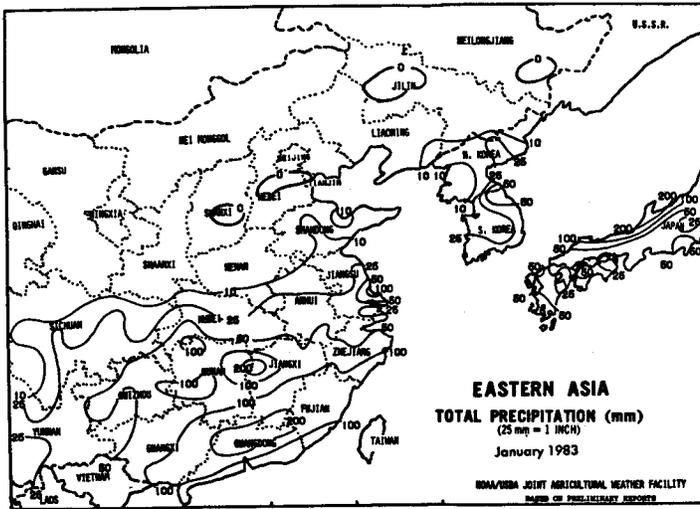
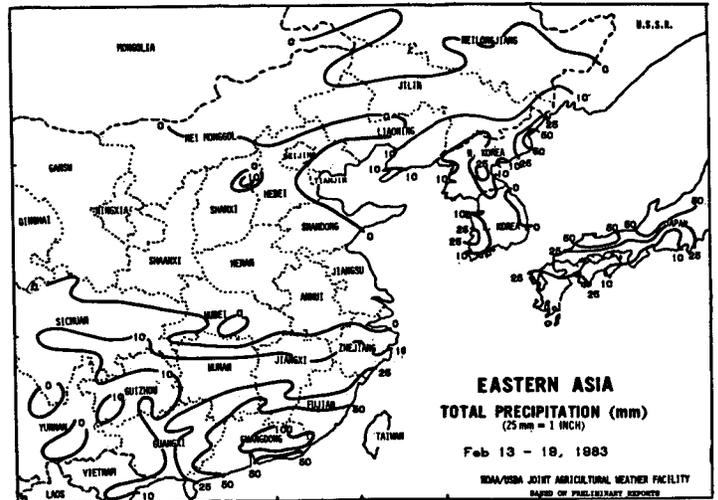




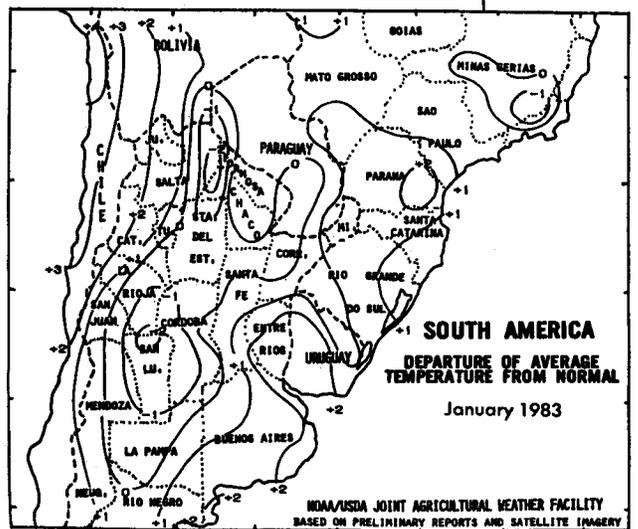
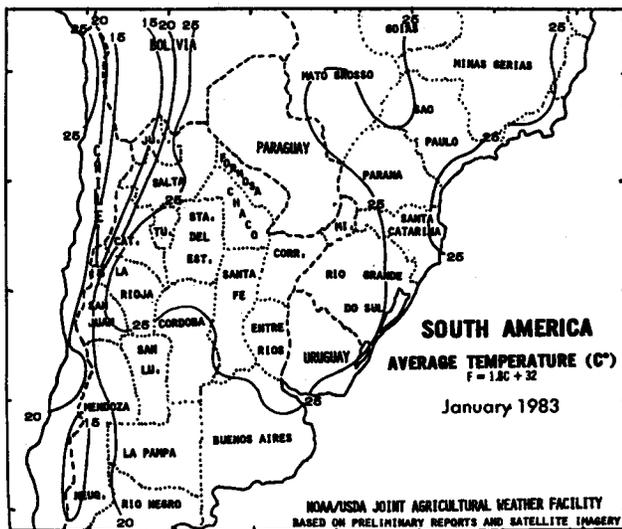
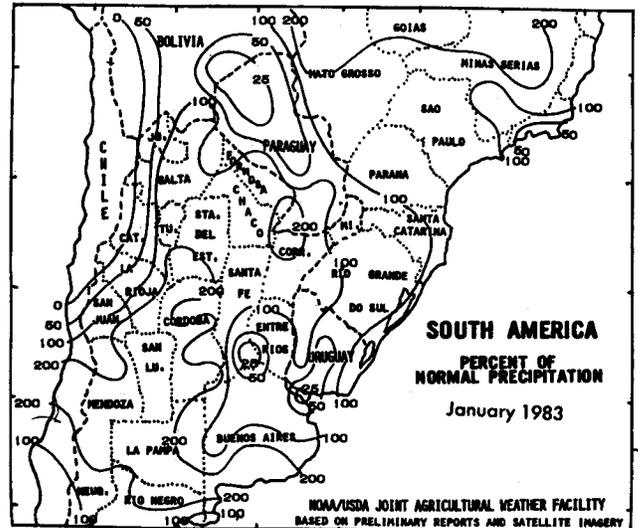
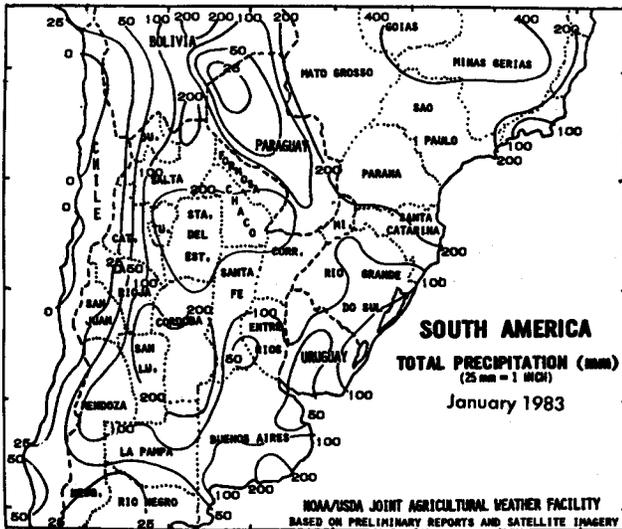
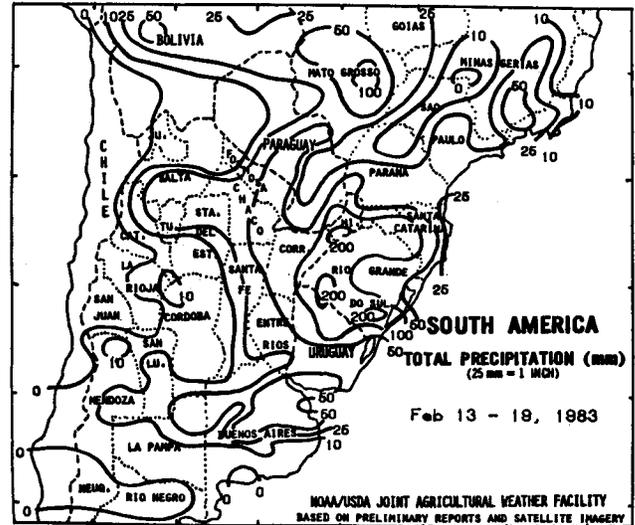
SOUTH ASIA... Mostly dry weather covered winter grain areas of northern India during the week. In January, above-normal precipitation at the end of the month benefited winter wheat in the heading stage, improving yield prospects in unirrigated areas. Elsewhere, seasonably dry weather covered crop areas in peninsular India during January. Recently, thunderstorms early in the week produced generous rains in central Madhya Pradesh, southern Bihar, and eastern Orissa. Crop areas in Bangladesh and Burma continued seasonably dry.



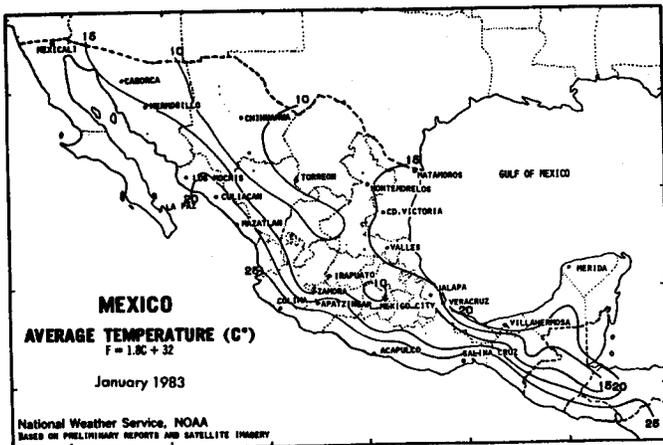
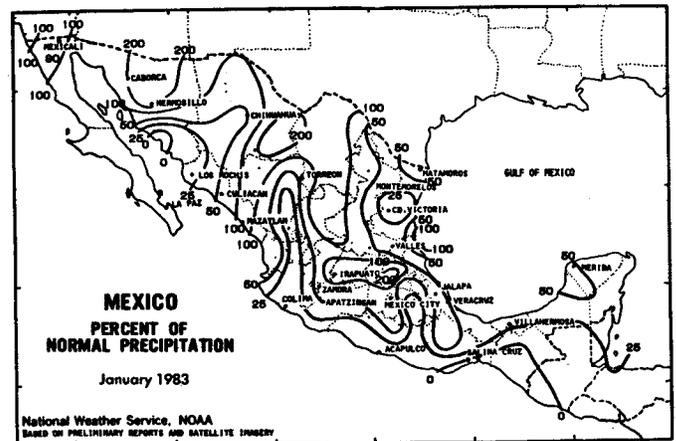
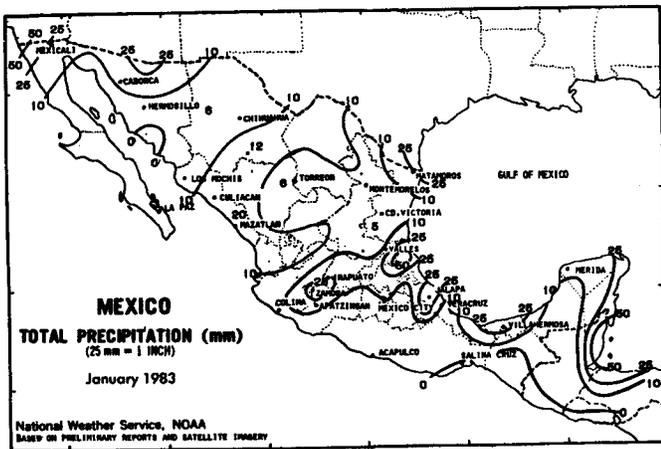
EASTERN ASIA...Seasonably dry weather covered winter grains in the North China Plain, continuing January's dry pattern. Most of the crop remained dormant; therefore, the dry weather had little impact. In contrast, heavy rains fell on rice areas south of the Yangtze River, continuing January's above-normal pattern. Heavy downpours early in the week may have caused local flooding. Overall, the moisture provided favorable preplanting moisture for the rice crop. Planting of the early rice crop normally begins in late February or early March in most areas. In South Korea, light precipitation continued January's near-normal rainfall pattern.



SOUTH AMERICA...Locally heavy rain caused some flooding in southern Rio Grande do Sul during midweek; however, rains benefited much of Brazil's southern soybean areas where rainfall has been below-average in recent weeks. January rainfall was somewhat below average in Rio Grande do Sul and Santa Catarina, while northern crop areas, including the coffee and citrus areas, benefited from above-average rain. Early soybean harvesting has begun in Parana, but most of the crop is in the pod-filling stage in Brazil. In Argentina, showers covered eastern crop areas, providing much-needed rain in southern Santa Fe where January rainfall was well-below average. The moisture was probably too late for corn in the grain-filling period but improved growing conditions for second crop soybeans still flowering and setting pods. Argentina's northern crop area has sufficient moisture for later stages of crop development.



MEXICO...Abundant sunshine favored fieldwork, but soil dryness is likely delaying some spring planting. Light rain along the upper northeastern and lower southwestern coasts were generally insignificant for crops and rangeland vegetation. The northeast and most of the west coast were unseasonably dry during January, requiring more irrigation than usual.



WEEKLY NEWS BULLETIN
SECOND CLASS

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210



Heating Degree Days (Base 65° F.)

January 1983

ALA. Birmingham . . .	729	MAINE, Caribou . . .	1543	OKLA. Okla. City . . .	809	Orlando . . .	233	Norfolk . . .	1246	Fort Worth . . .	663
Mobile . . .	545	Portland . . .	1225	Tulsa . . .	794	W. Palm Beach . . .	88	North Platte . . .	1167	Galveston . . .	359
Montgomery . . .	834	MD. Baltimore . . .	936	OREG. Astoria . . .	543	Tallahassee . . .	482	Omaha . . .	1206	Houston . . .	457
ALASKA, Anchorage . .	1507	MASS. Boston . . .	1049	Burns . . .	1116	Tampa . . .	218	Valentine . . .	1092	Lubbock . . .	1001
Barrow . . .	2619	Chatham . . .	956	Bedford . . .	775	GA. Atlanta . . .	756	NEV. Ely . . .	1111	Midland . . .	711
Fairbanks . . .	2356	MICH. Alpena . . .	1319	Pendleton . . .	741	Augusta . . .	710	Las Vegas . . .	564	San Angelo . . .	611
Juneau . . .	-	Detroit . . .	1119	Portland . . .	635	Macon . . .	618	Reno . . .	947	San Antonio . . .	498
Rome . . .	1930	Flint . . .	1153	Salem . . .	668	Savannah . . .	579	Winneconne . . .	948	Victoria . . .	390
ARIZ. Flagstaff . . .	1046	Grand Rapids . . .	1151	PA. Allentown . . .	1071	IDaho, Boise . . .	897	W. H. Concord . . .	1291	Waco . . .	599
Phoenix . . .	272	Houghton Lake . . .	1331	Erie . . .	1063	Lewiston . . .	755	W. J. Atlantic City . .	973	Wichita Falls . . .	732
Tucson . . .	371	Lansing . . .	1187	Harrisburg . . .	985	Pocatello . . .	1029	Trenton . . .	-	UTAH, Milford . . .	1015
Winslow . . .	950	Marquette . . .	1446	Philadelphia . . .	951	ILL. Cairo . . .	891	N. MEX. Albuquerque . .	917	Salt Lake City . . .	916
Yuma . . .	172	S. Ste. Marie . . .	1520	Pittsburgh . . .	1080	Chicago . . .	1194	Roswell . . .	-	VT. Burlington . . .	1356
ARK. Fort Smith . . .	826	MINN. Duluth . . .	1598	Scranton . . .	1158	Moline . . .	1175	N. Y. Albany . . .	1255	VA. Lynchburg . . .	893
Little Rock . . .	613	International Falls . .	1664	R.I. Providence . . .	1037	Peoria . . .	1133	Binghamton . . .	1241	Norfolk . . .	762
CALIF. Bakersfield . .	636	Minneapolis . . .	1400	S. C. Charleston . . .	596	Rockford . . .	1224	Buffalo . . .	1172	Richmond . . .	836
Eureka U. . .	415	Rochester . . .	1456	Columbia . . .	739	Springfield . . .	1117	New York . . .	942	Romanoke . . .	904
Fresno . . .	607	St. Cloud . . .	1568	Greenville . . .	797	IND. Evansville . . .	918	Rochester . . .	1161	WASH. Colville . . .	-
Los Angeles . . .	203	MISS. Jackson . . .	653	S. DAK. Aberdeen . . .	1292	Fort Wayne . . .	1096	Syracuse . . .	1280	Omak . . .	-
Red Bluff . . .	537	Meridian . . .	616	Huron . . .	1215	Indianapolis . . .	1062	N. C. Asheville . . .	872	Quillayute . . .	635
Stockton . . .	638	MO. Columbia . . .	1018	Rapid City . . .	1014	South Bend . . .	1100	Charlotte . . .	806	Seattle-Tacoma . . .	613
San Diego . . .	137	St. Louis . . .	1008	Sioux Falls . . .	1385	IOWA, Burlington . . .	-	Greensboro . . .	894	Spokane . . .	897
San Francisco . . .	521	Kansas City . . .	1074	TEKN. Chattanooga . .	807	Des Moines . . .	1162	Hatteras B. . . .	613	Walla Walla . . .	687
COLO. Denver . . .	1017	St. Louis . . .	1008	Knoxville . . .	828	Dubuque . . .	1294	Raleigh . . .	828	Yakima . . .	840
Grand Junction . . .	946	Springfield . . .	925	Memphis . . .	759	Sioux City . . .	1310	Wilmington . . .	688	W. VA. Beckley . . .	1071
Pueblo . . .	974	MONT. Billings . . .	911	Nashville . . .	806	KANS. Concordia . . .	1121	N. DAK. Bismarck . . .	1294	Charleston . . .	955
CONN. Bridgeport . . .	1034	Glasgow . . .	1369	TEX. Abilene . . .	686	Dodge City . . .	980	Fargo . . .	1513	Huntington . . .	930
Hartford . . .	1170	Great Falls . . .	1007	Amarillo . . .	972	Goodland . . .	1049	Williston . . .	1388	Parkersburg . . .	-
D. C. Washington . . .	827	Havre . . .	1241	Austin . . .	538	Topeka . . .	1002	OHIO. Akron-Canton . .	1113	WIS. Green Bay . . .	1344
FLA. Apalachicola . .	434	Helena . . .	1059	Beaumont . . .	446	Wichita . . .	1022	Cincinnati . . .	1029	Madison . . .	-
Ft. Myers . . .	130	Kaliispell . . .	1090	Brownsville . . .	187	KY. Lexington . . .	961	Cleveland . . .	1056	Milwaukee . . .	1346
Jacksonville . . .	490	Miles City . . .	-	Corpus Christi . . .	308	Louisville . . .	953	Columbus . . .	1081	WYO. Casper . . .	1040
Key West . . .	24	Missoula . . .	1079	Dallas . . .	423	LA. Baton Rouge . . .	500	Dayton . . .	1105	Cheyenne . . .	992
Lakeland . . .	-	NEBR. Grand Island . .	1216	Del Rio . . .	423	Lake Charles . . .	478	Toledo . . .	1154	Lander . . .	1194
Miami . . .	50	Lincoln . . .	1173	El Paso . . .	720	New Orleans . . .	453	Youngtown . . .	1083	Sheridan . . .	962

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