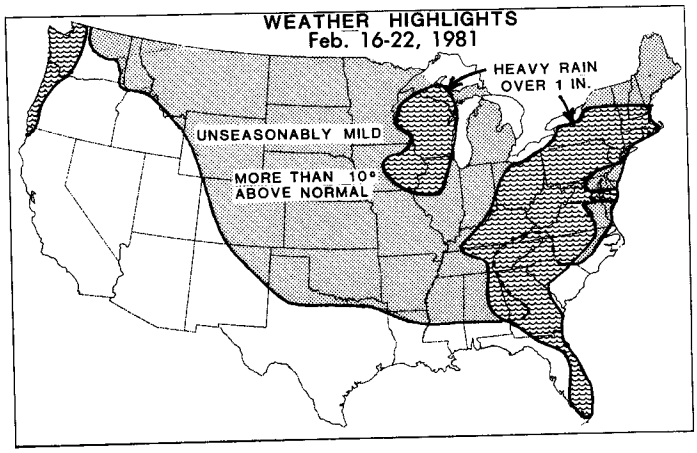
WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Economics and Statistics Service
World Food and Agricultural Outlook and Situation Board

Volume 68, No. 8 | Washington, D.C. | Feb. 24, 1981



National Weather Summary

February 16-22, 1981

HIGHLIGHTS: Mild, spring-like temperatures dominated the Nation. Many record-high temperatures were reached on several days of the week from southern California to New England and from western Montana to Alabama. Average temperatures were as much as 27° warmer than normal in the northern Plains and 30° in parts of New England. Some winter grasses were reported to be breaking dormancy as far north as Montana. Precipitation was widespread from the Mississippi Valley eastward. Heavy rain in the Northwest and the Northeast caused some flooding.

MONDAY...Showers were scattered throughout the Pacific Northwest. Light rain and showers also spread from the eastern gulf coast and Florida across the Tennessee and Ohio Valleys through the southern and central Appalachians into New York. It was springtime in winter over the north central States as nearly two dozen new record-high temperatures were set from the northern and central Plains to the Great Lakes.

TUESDAY...Low pressure over the Gulf of Mexico continued to produce widely scattered showers as far north as Kentucky and Virginia. A cold front triggered showers along the northern Atlantic Coast. Another cold front caused scattered showers over western Washington, the northern Plateau and Rockies. Unusually mild weather continued over all of the Nation. The area of cities reporting record-high temperatures expanded eastward to New England.

WEDNESDAY...Record-high temperatures began to be broken in the morning from Michigan to New England and by afternoon were as much as 30° above normal from Nevada to New England. A low pressure system brought showers and thunderstorms to the Southeast and a cold front continued the showers in the Pacific Northwest.

THURSDAY...A new cold front brought showers and thunderstorms to the northern Pacific Coast and showers and strong winds spread through the Northwest. Wet weather continued in the East and thundershowers developed through the Ohio Valley and the Middle Atlantic States. The warm weather continued, with record-high temperatures at about 40 cities from San Diego, Ca. to Caribou, Me. Billings, Mont. reached 70° by mid-afternoon.

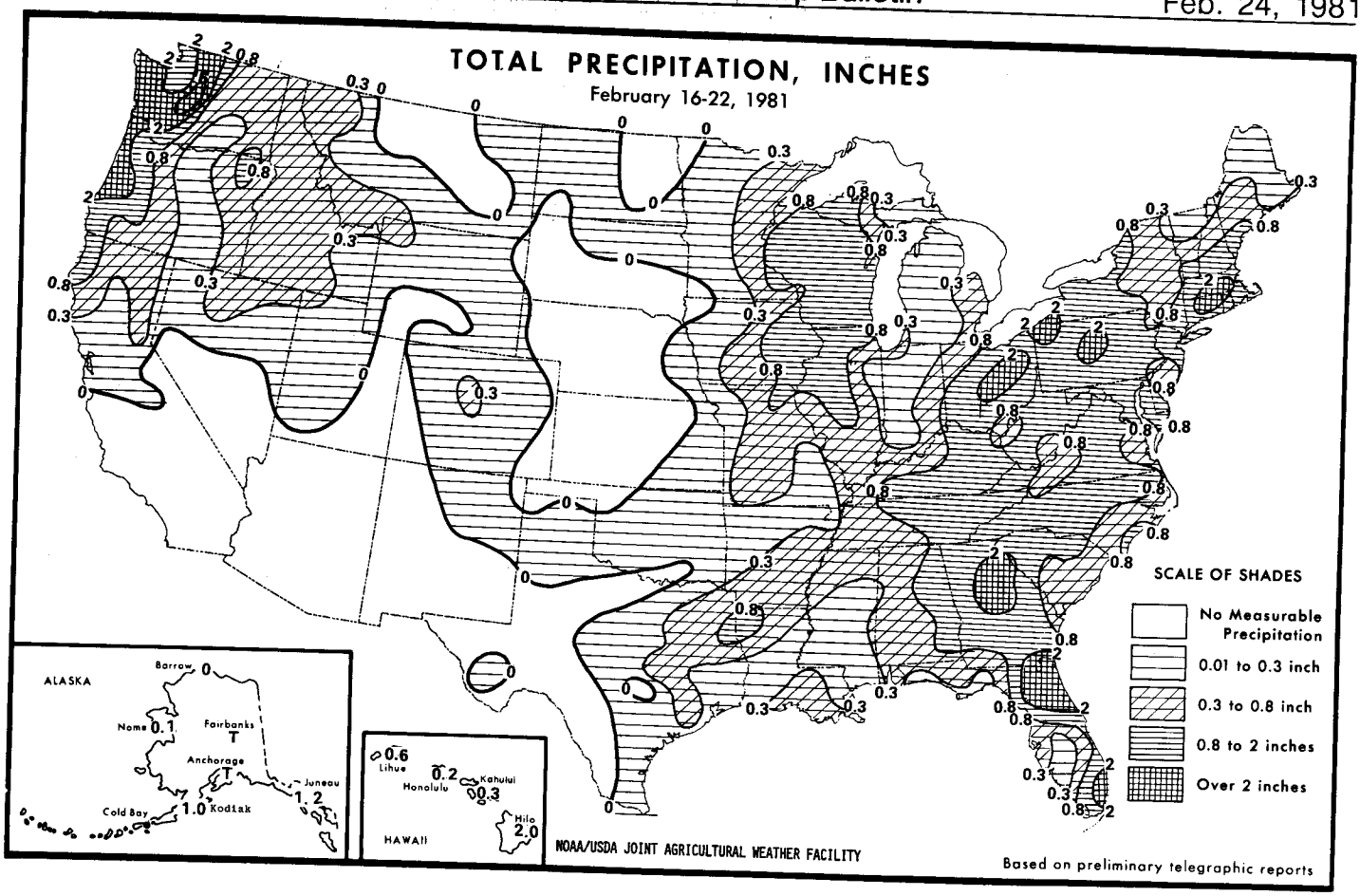
FRIDAY...Widely scattered rain and snowshowers continued in parts of the northern and central Rockies and gusty winds were reported from southern California to Montana. In the East, rain fell from the upper Ohio Valley and lower Great Lakes region through the northern half of the Atlantic Coast. Showers and occasional thunderstorms were reported in North Carolina. Spring-like weather continued across the Nation and flooding was reported along some rivers in the East due to the combined effects of rain, melting snow, and ice jams.

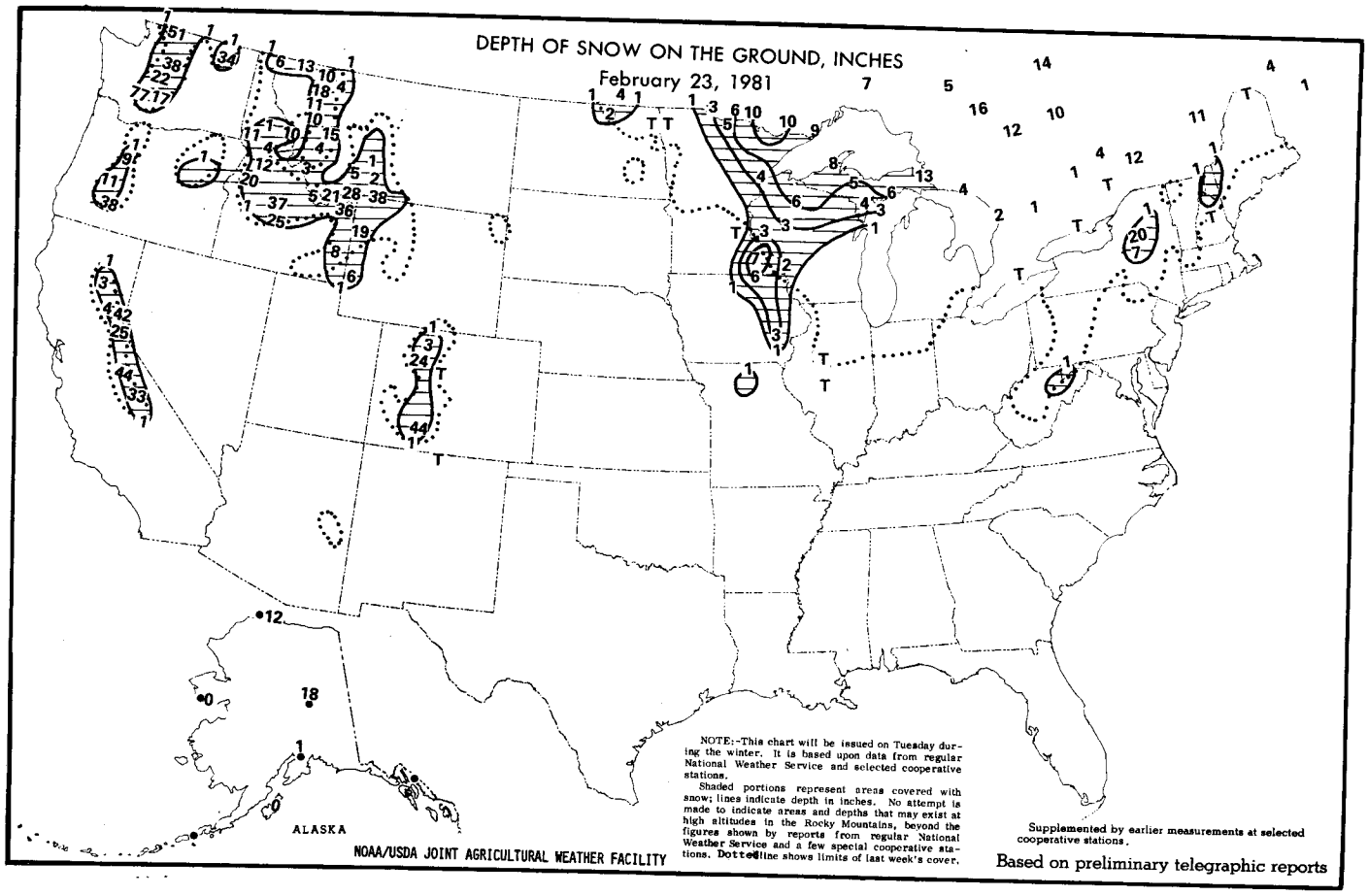
SATURDAY...Continuing rain from a low center moving slowly along the mid-Atlantic States compounded the threat of flooding on northeastern rivers. Snow fell in the central Rockies early in the day and then a cold front brought showers throughout the Mississippi Valley and thunderstorms to the lower Valley.

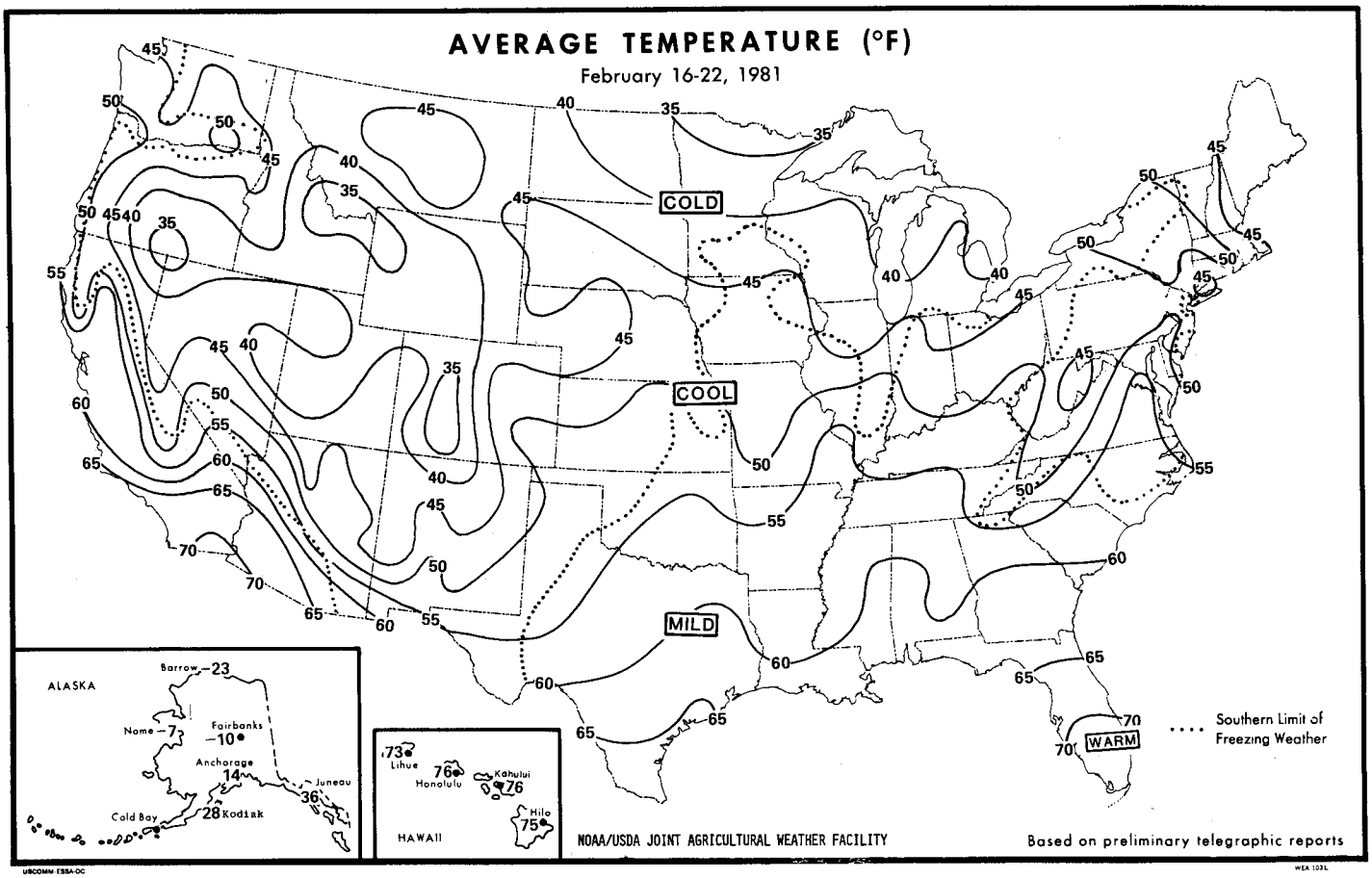
SUNDAY...A strong low pressure center over northern Illinois brought snow to the upper Mississippi Valley and light rain and drizzle to much of eastern United States. Some thunderstorms were reported in the Ohio Valley. Temperatures were cooler to the west of the low center but were still mild for this time of year.

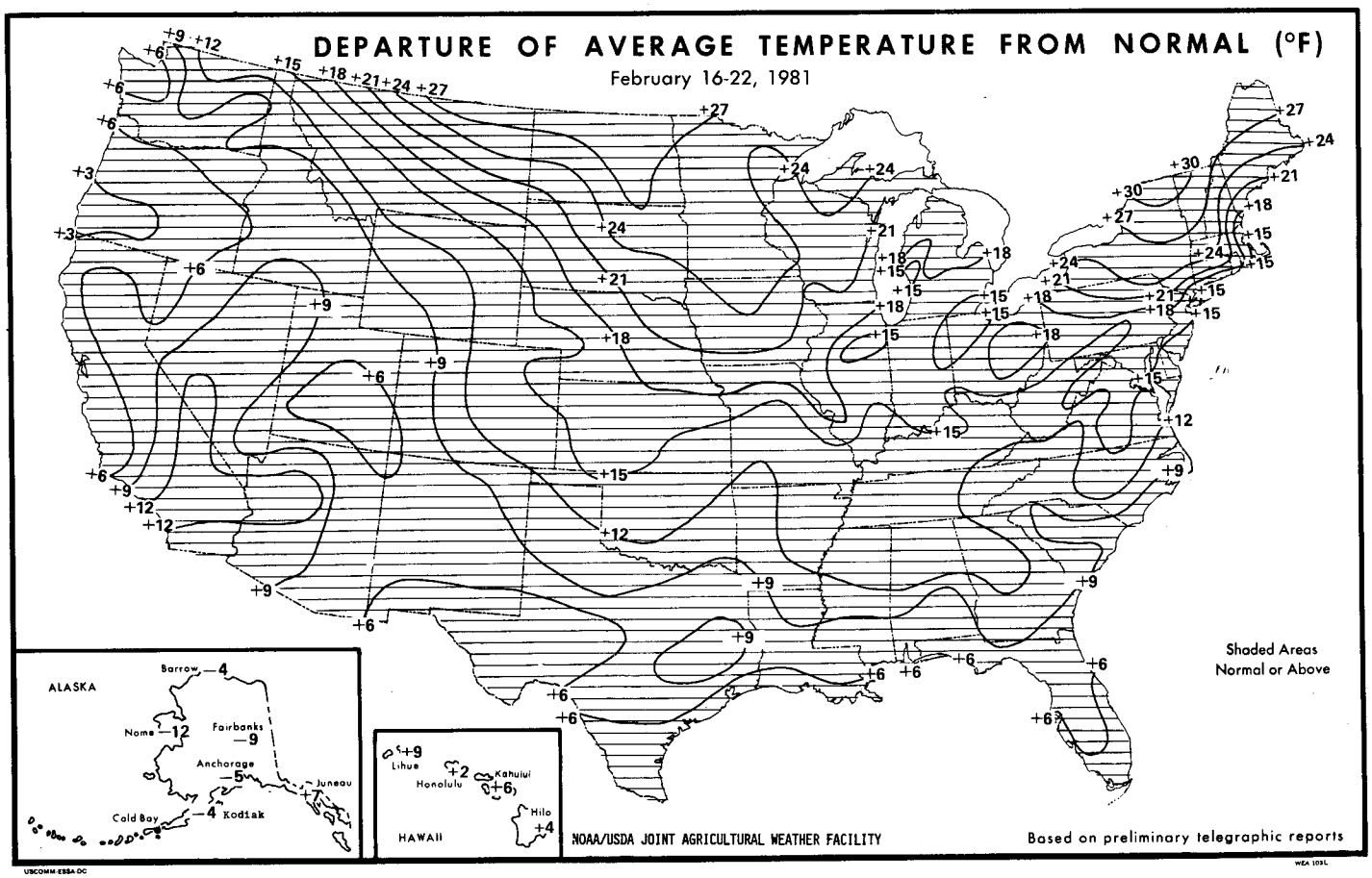
In This Issue

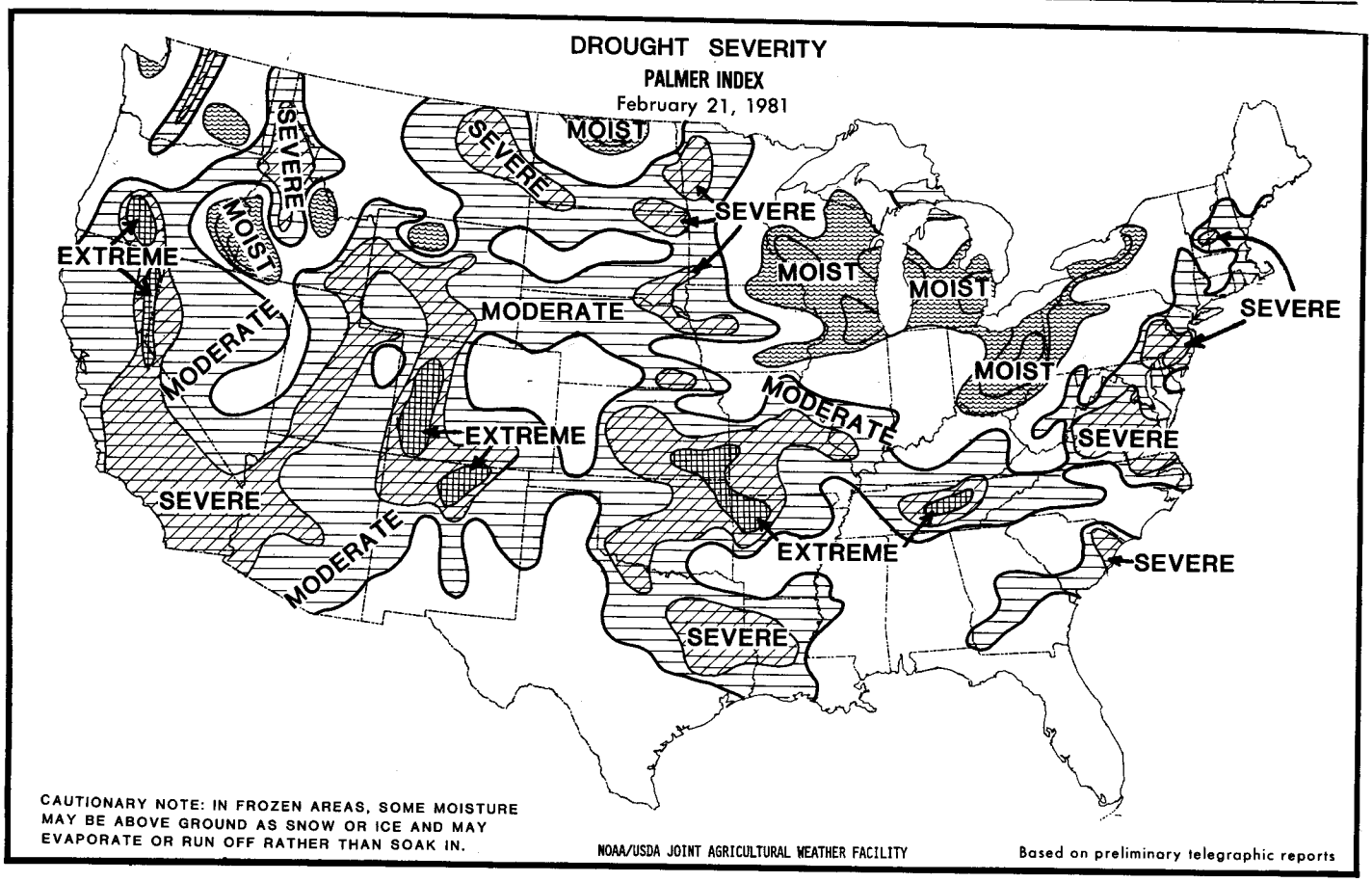
	Page
National Weather Summary	1
Precipitation and Snow Cover	2
Average Temperature & Departure	3
Drought Severity (Palmer Index)	4
Soil Temperature	5
Percent of Possible Sunshine	6
Weather Data for Selected Cities	7
Heating Degree Days Data	10
National Agricultural Summary	11
State Summaries of Weather and Agriculture	12
International Weather & Crop Summary	16
Subscription Information	20

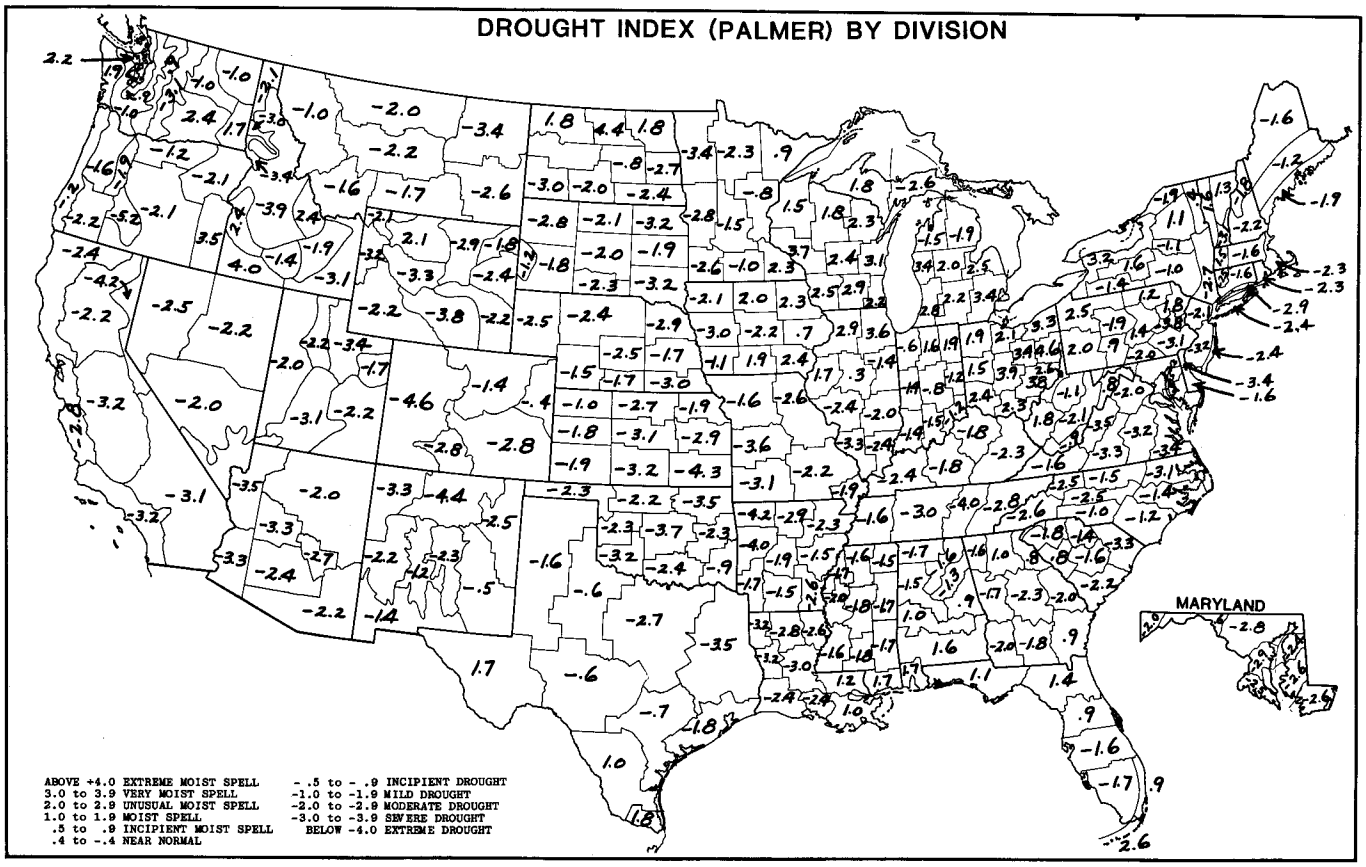

TOTAL PRECIPITATION, INCHES
February 16-22, 1981
SCALE OF SHADES
No Measurable Precipitation
0.01 to 0.3 inch
0.3 to 0.8 inch
0.8 to 2 inches
Over 2 inches
ALASKA
Barrow
Nome
Fairbanks
Anchorage
Juneau
Cold Bay
Kodiak
HAWAII
Lihue
Honolulu
Kahului
Hilo
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

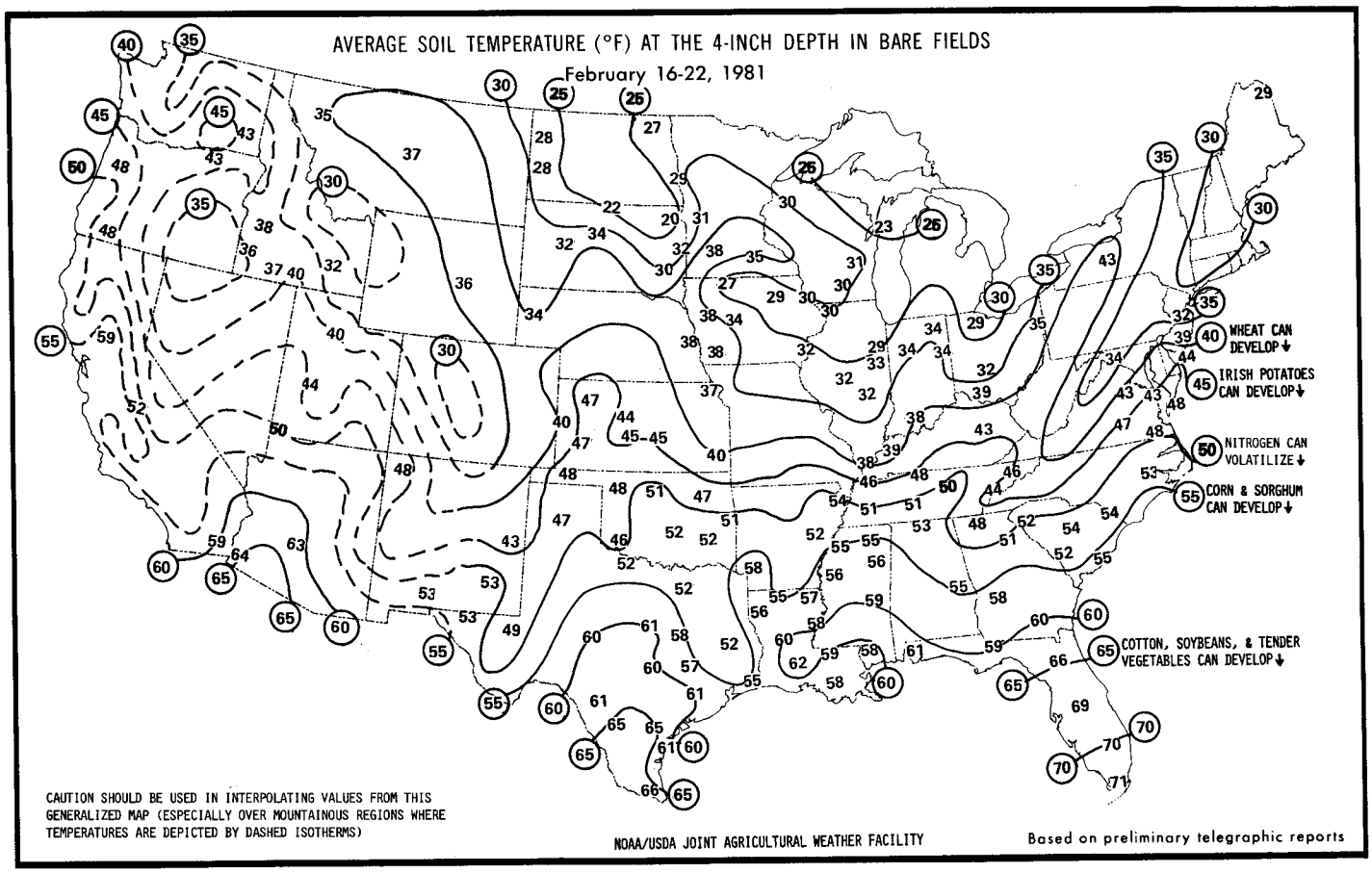

DEPTH OF SNOW ON THE GROUND, INCHES
February 23, 1981
ALASKA
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
NOTE:-This chart will be issued on Tuesday during the winter. It is based upon data from regular National Weather Service and selected cooperative stations.
Shaded portions represent areas covered with snow; lines indicate depth in inches. No attempt is made to indicate areas and depths that may exist at high altitudes in the Rocky Mountains, beyond the figures shown by reports from regular National Weather Service and a few special cooperative stations. Dotted line shows limits of last week's cover.
Supplemented by earlier measurements at selected cooperative stations.
Based on preliminary telegraphic reports

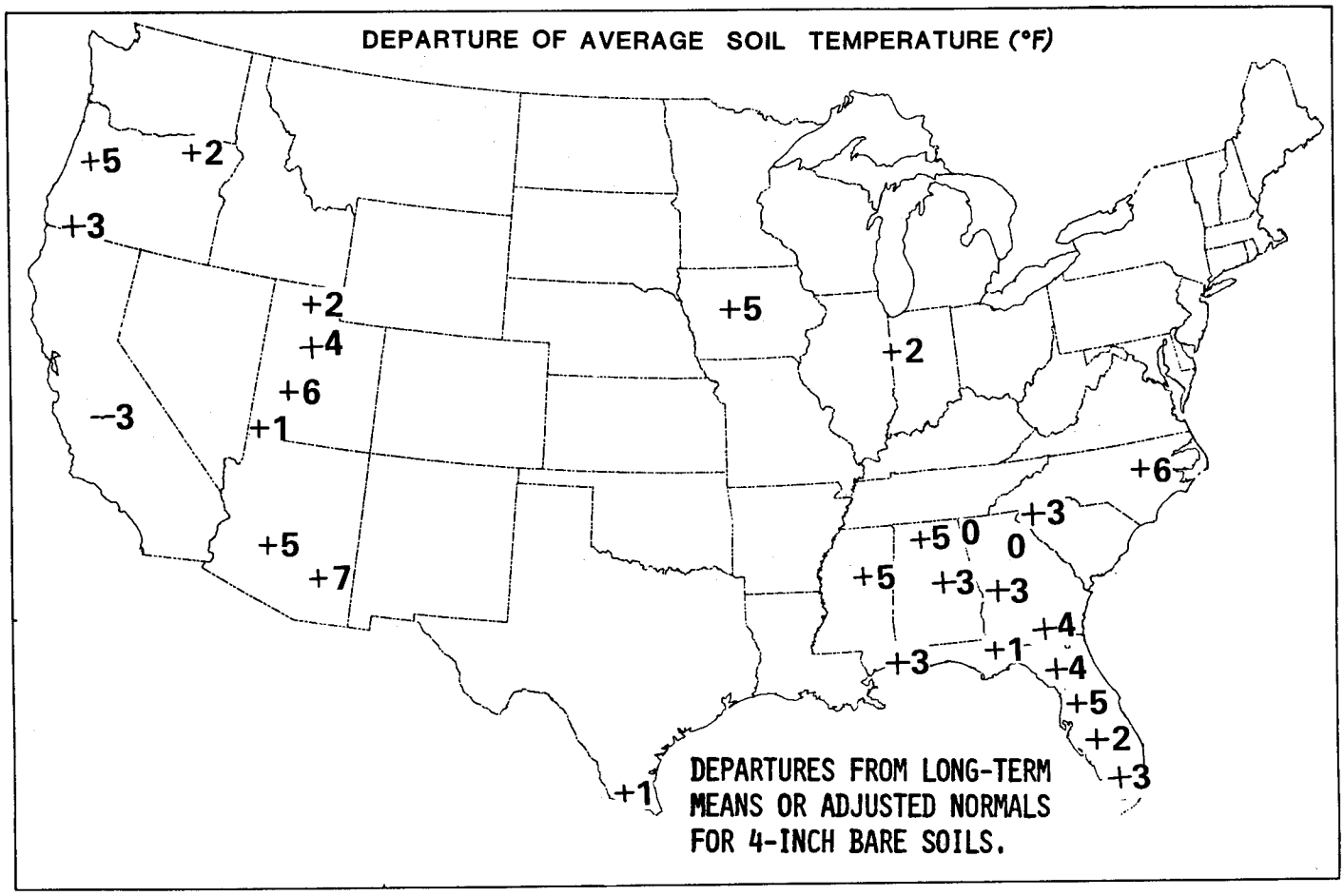

AVERAGE TEMPERATURE (°F)
February 16-22, 1981
COLD
COOL
MILD
WARM
Southern Limit of Freezing Weather
ALASKA
Barrow -23
Nome -7
Fairbanks -10
Anchorage 14
Juneau 36
Cold Bay 28
Kodiak
HAWAII
Lihue 73
Honolulu 76
Kahului 76
Hilo 75
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

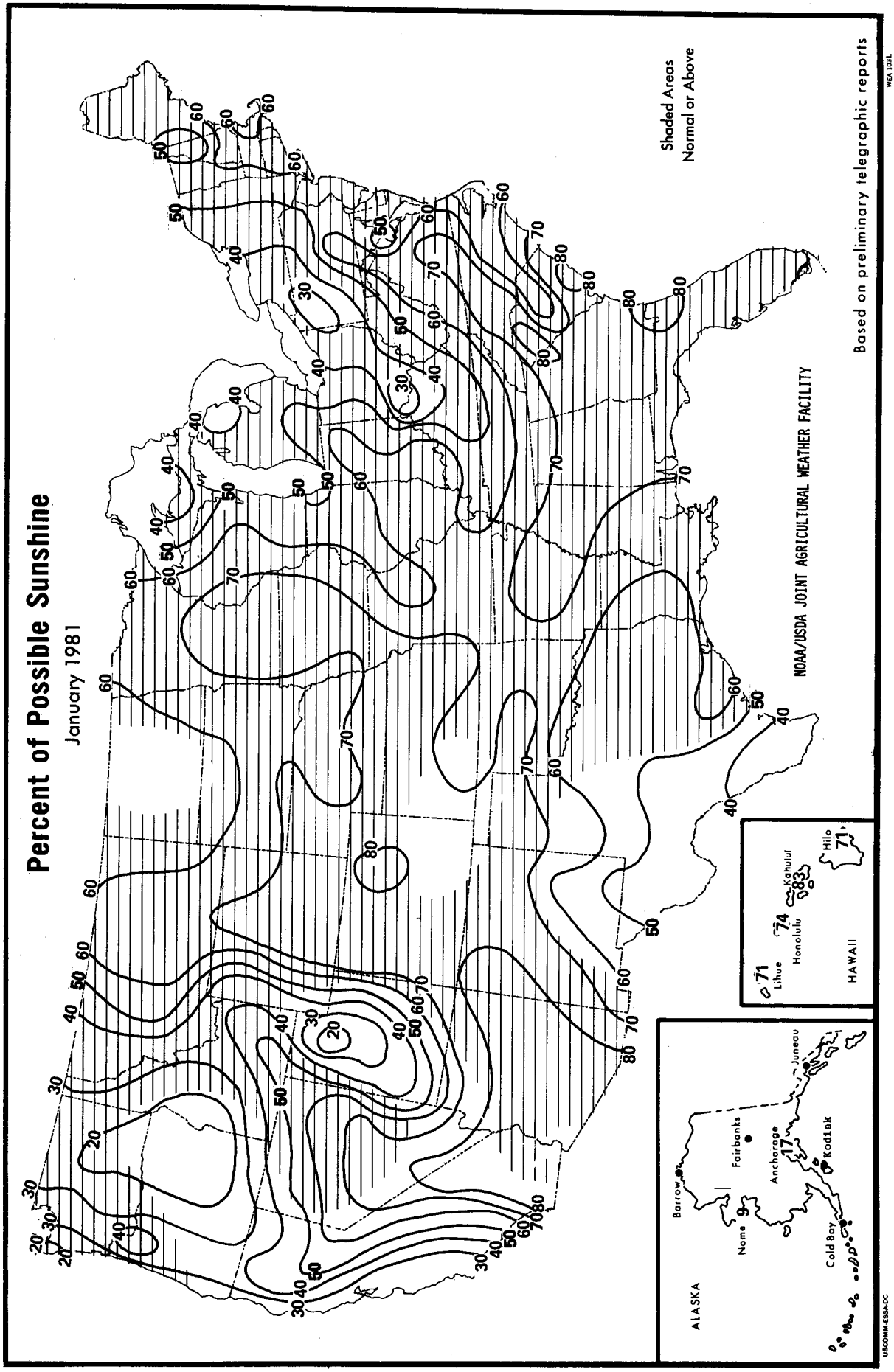

DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
February 16-22, 1981
Shaded Areas Normal or Above
ALASKA
Barrow -4
Nome -12
Fairbanks -9
Anchorage -5
Juneau
Cold Bay -4
Kodiak
HAWAII
Lihue +9
Honolulu +2
Kahului +6
Hilo +4
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


DROUGHT SEVERITY
PALMER INDEX
February 21, 1981
MOIST
SEVERE
SEVERE
SEVERE
EXTREME
MOIST
MOIST
MOIST
MODERATE
MODERATE
MODERATE
SEVERE
MOIST
EXTREME
MODERATE
SEVERE
SEVERE
EXTREME
SEVERE
SEVERE
CAUTIONARY NOTE: IN FROZEN AREAS, SOME MOISTURE MAY BE ABOVE GROUND AS SNOW OR ICE AND MAY EVAPORATE OR RUN OFF RATHER THAN SOAK IN.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


DROUGHT INDEX (PALMER) BY DIVISION
MARYLAND
ABOVE +4.0 EXTREME MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
1.0 to 1.9 MOIST SPELL
.5 to .9 INCIPIENT MOIST SPELL
.4 to -.4 NEAR NORMAL
-.5 to -.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to -2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT


AVERAGE SOIL TEMPERATURE (°F) AT THE 4-INCH DEPTH IN BARE FIELDS
February 16-22, 1981
WHEAT CAN DEVELOP
IRISH POTATOES CAN DEVELOP
NITROGEN CAN VOLATILIZE
CORN & SORGHUM CAN DEVELOP
COTTON, SOYBEANS, & TENDER VEGETABLES CAN DEVELOP
CAUTION SHOULD BE USED IN INTERPOLATING VALUES FROM THIS GENERALIZED MAP (ESPECIALLY OVER MOUNTAINOUS REGIONS WHERE TEMPERATURES ARE DEPICTED BY DASHED ISOTHERMS)
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


DEPARTURE OF AVERAGE SOIL TEMPERATURE (°F)
DEPARTURES FROM LONG-TERM MEANS OR ADJUSTED NORMALS FOR 4-INCH BARE SOILS.


Percent of Possible Sunshine
January 1981
Shaded Areas
Normal or Above
Based on preliminary telegraphic reports
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
WEA 103L
USCOMM-ESSA-DC
ALASKA
Barrow
Nome
Fairbanks
Anchorage
Juneau
Kodiak
Cold Bay
17
9
HAWAII
Lihue
Honolulu
Kahului
Hilo
71
74
83
71

Weather Data for the Week Ending Feb. 22, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION					RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
														TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec. 1	PCT. NORMAL SINCE Dec. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	70	50	77	37	60	12	1.0	- .4	.4	6.8	48	85	54	0	0	5	0
MOBILE	73	53	79	47	63	7	.8	- .5	.6	11.3	78	96	55	0	0	3	1
MONTGOMERY	69	50	74	36	59	8	.6	- .5	.3	9.5	78	96	60	0	0	2	0
AK ANCHORAGE	21	7	35	-6	14	-5	T	- .2	T	2.1	81	69	57	0	7	1	0
BARROW	-17	-28	-10	-36	-23	-4	0	- .1	0	.4	50	84	78	0	7	0	0
FAIRBANKS	2	-22	18	-37	-10	-9	T	- .1	T	1.3	100	59	40	0	7	1	0
JUNEAU	40	31	42	27	36	7	1.2	.4	.3	--	--	99	73	0	5	7	0
KODIAK	33	22	45	16	28	-4	1.0	- .2	.7	20.6	148	74	61	0	7	5	1
NOME	1	-15	9	-25	-7	-12	.1	- .1	.1	2.4	109	65	50	0	7	1	0
AZ FLAGSTAFF	59	27	65	22	43	12	0	- .4	0	3.3	61	--	22	0	7	0	0
PHOENIX	82	53	88	45	67	11	0	- .1	0	1.9	112	49	16	0	0	0	0
TUCSON	78	48	85	37	63	9	0	- .2	0	2.2	105	49	12	0	0	0	0
WINSLOW	65	30	74	16	47	7	0	- .1	0	1.0	83	--	--	0	4	0	0
YUMA	85	56	91	50	70	10	0	- .1	0	.4	33	32	12	2	0	0	0
AR FORT SMITH	70	39	81	33	55	10	.1	- .8	.1	4.2	54	87	36	0	0	2	0
LITTLE ROCK	67	49	77	41	58	13	.5	- .6	.5	7.1	62	75	50	0	0	1	0
CA BAKERSFIELD	69	48	78	40	59	6	0	- .3	0	1.6	62	--	51	0	0	0	0
EUREKA	63	46	70	36	54	5	.9	- .3	.6	16.0	88	95	50	0	0	3	1
FRESNO	67	46	75	40	57	6	T	- .4	T	4.1	85	90	52	0	0	0	0
LOS ANGELES	80	56	85	54	68	12	0	- .7	0	3.8	59	52	30	0	0	0	0
RED BLUFF	70	47	76	40	58	7	.1	- .7	.1	9.4	85	--	36	0	0	1	0
SAN DIEGO	80	56	83	53	68	11	0	- .4	0	2.7	56	62	32	0	0	0	0
SAN FRANCISCO	66	49	70	44	57	5	T	- .7	T	8.6	79	79	52	0	0	1	0
STOCKTON	70	44	73	34	57	7	T	- .5	T	5.8	78	--	47	0	0	0	0
CO DENVER	63	32	71	24	47	14	.3	.1	.3	.8	62	57	20	0	5	1	0
GRAND JUNCTION	56	28	63	24	42	7	T	- .1	T	.4	31	60	25	0	7	0	0
PUEBLO	69	28	81	18	49	13	T	- .1	T	.3	25	61	17	0	7	1	0
CT BRIDGEPORT	49	35	60	23	42	11	1.4	.6	1.2	4.5	54	--	77	0	1	3	1
HARTFORD	59	39	68	24	49	22	2.2	1.4	1.7	5.4	55	88	58	0	1	4	1
DC WASHINGTON	64	47	76	33	56	18	.6	0	.4	3.3	43	--	--	0	0	3	0
FL APALACHICOLA	71	54	76	44	63	7	.3	- .7	.1	5.6	59	93	66	0	0	3	0
DAYTONA BEACH	76	56	80	46	66	6	3.1	2.3	2.7	7.2	114	87	57	0	0	3	1
FORT MYERS	82	62	87	49	72	7	.2	- .3	.2	2.9	63	96	54	0	0	1	0
JACKSONVILLE	77	52	82	40	64	8	2.1	1.2	2.1	5.8	71	89	46	0	0	2	1
KEY WEST	75	67	80	63	71	-1	2.0	1.5	1.9	3.1	63	93	71	0	0	3	1
MIAMI	80	65	82	52	72	4	3.1	2.6	2.6	5.5	100	86	51	0	0	3	1
ORLANDO	80	56	83	47	68	6	.8	0	.7	5.1	77	95	41	0	0	4	1
TALLAHASSEE	76	51	80	35	64	8	.3	- 1.0	.2	11.1	95	84	49	0	0	3	0
TAMPA	78	58	83	52	68	6	.4	- .3	.4	6.2	93	96	53	0	0	1	0
WEST PALM BEACH	80	61	82	50	70	4	2.3	1.7	1.8	6.0	88	83	48	0	0	3	1
GA ATLANTA	67	51	74	41	59	14	2.0	.8	1.0	8.7	71	77	55	0	0	4	2
AUGUSTA	71	47	75	35	59	10	.8	- .2	.7	6.8	69	92	43	0	0	4	1
MACON	72	54	79	46	63	12	2.4	1.3	2.1	10.5	92	86	67	0	0	3	1
SAVANNAH	72	52	76	45	62	10	.5	- .2	.5	5.2	63	81	52	0	0	1	1
HI HILO	--	--	--	--	75	4	2.0	- 1.5	--	--	--	--	--	0	0	0	0
HONOLULU	84	68	85	62	76	4	.2	- .4	.1	5.6	54	78	48	0	0	2	0
KAHULUI	--	--	--	--	76	4	.3	- .3	--	--	--	--	--	0	0	0	0
LIHUE	--	--	--	--	73	2	.6	- .4	0	--	--	--	--	0	0	0	0
ID BOISE	52	34	63	25	43	6	.5	.2	.2	3.7	95	79	49	0	4	4	0
LEWISTON	55	41	60	35	48	9	.5	.3	.2	3.0	91	72	49	0	0	4	0
POCATELLO	47	30	59	20	39	8	.3	.1	.2	1.7	63	84	50	0	4	3	0
IL CAIRO	62	46	68	41	54	13	.5	- .5	.3	5.3	49	--	--	0	0	3	0
CHICAGO	53	36	62	30	44	18	.5	.2	.5	5.4	117	94	61	0	2	2	1
MOLINE	57	34	62	26	46	19	1.5	1.2	1.1	5.1	93	88	48	0	3	2	1
PEORIA	54	34	60	31	44	16	1.4	1.0	1.0	4.8	81	97	63	0	2	2	1
ROCKFORD	55	33	60	28	44	19	1.4	1.1	1.4	4.9	109	97	51	0	4	2	1
SPRINGFIELD	58	37	63	32	48	16	.9	.4	.9	4.3	86	87	56	0	1	2	1
IN EVANSVILLE	60	41	65	33	51	14	.4	- .5	.3	3.8	40	84	60	0	0	2	0
FORT WAYNE	47	38	54	33	42	14	.7	.2	.4	6.2	97	96	75	0	0	3	0
INDIANAPOLIS	54	40	57	34	47	16	.4	- .1	.4	3.9	53	88	73	0	0	3	0
SOUTH BEND	52	41	59	32	46	19	.1	- .4	.1	6.1	91	92	74	0	1	1	0
IA BURLINGTON	58	37	63	32	48	20	1.1	.8	.8	4.7	107	--	--	0	1	2	1
DES MOINES	60	36	68	28	48	23	.6	.3	.4	2.5	83	64	24	0	1	2	0
DUBUQUE	56	34	61	30	45	19	1.5	1.2	1.3	4.1	91	92	42	0	3	2	1
SIOUX CITY	61	31	71	27	46	22	T	- .2	T	1.1	61	80	31	0	4	1	0
KS CONCORDIA	64	37	73	33	51	18	T	- .2	T	1.1	55	69	32	0	0	0	0
DODGE CITY	66	37	84	26	51	15	0	- .1	0	1.0	83	58	22	0	2	0	0
GOODLAND	62	32	72	28	47	15	T	- .1	T	1.0	83	69	26	0	4	0	0
TOPEKA	63	35	74	30	49	15	T	- .3	T	4.3	130	85	35	0	2	1	0
WICHITA	68	37	81	30	52	15	.1	- .2	.1	2.7	96	73	27	0	1	1	0
KY LEXINGTON	60	42	66	31	51	15	1.7	.8	.6	6.0	59	83	63	0	1	6	1
LOUISVILLE	61	44	64	34	52	16	.4	- .5	.2	4.3	45	86	63	0	0	5	0
LA BATON ROUGE	71	55	79	47	63	7	.4	- .8	.2	10.8	82	100	62	0	0	3	0

Weather Data for the Week Ending Feb. 22, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION					RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
														TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec. 1	PCT. NORMAL SINCE Dec. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LAKE CHARLES	70	52	75	47	61	5	.2	- 1.0	.1	7.5	56	95	56	0	0	2	0
NEW ORLEANS	71	54	79	45	62	6	.1	- 1.2	T	10.8	80	94	62	0	0	3	0
SHREVEPORT	72	47	84	41	59	8	1.0	.1	.9	5.8	52	92	49	0	0	2	1
ME CARIBOU	49	34	52	12	42	28	.1	- .5	.1	6.7	103	90	58	0	1	2	0
PORTLAND	51	34	60	26	42	19	1.0	.1	.4	5.1	50	96	63	0	3	4	0
MD BALTIMORE	62	44	73	25	53	18	.9	.2	.4	3.5	42	88	58	0	1	4	0
MA BOSTON	54	39	66	29	46	15	.9	0	.5	4.8	45	97	66	0	1	4	1
CHATHAM	46	37	50	31	42	--	1.2	--	1.1	10.1	--	98	79	0	1	4	1
MI ALPENA	47	33	57	25	40	21	T	- .3	T	3.8	81	--	--	0	3	1	0
DETROIT	47	36	51	32	41	14	.5	.1	.4	5.7	106	100	81	0	2	3	0
FLINT	45	35	53	30	40	15	.3	- .1	.3	5.1	106	95	85	0	3	3	0
GRAND RAPIDS	49	36	58	31	43	18	.2	- .1	.2	5.5	106	94	76	0	1	1	0
HOUGHTON LAKE	46	34	48	29	40	21	.2	- .1	.2	4.1	93	98	73	0	3	2	0
LANSING	47	36	57	28	42	17	T	- .4	T	4.7	92	99	78	0	2	1	0
MARQUETTE	45	31	61	21	38	23	.2	- .2	.1	5.7	112	93	65	0	4	3	0
MUSKEGON	44	34	50	29	39	14	.2	- .2	.2	6.6	106	97	79	0	2	1	0
SAULT STE. MARIE	41	29	44	23	35	19	.2	- .2	.1	6.4	119	95	77	0	5	3	0
MN DULUTH	42	30	53	24	36	23	.7	.5	.3	2.0	59	91	68	0	5	3	0
INT'L FALLS	42	27	48	22	34	26	.1	- .1	T	1.0	42	92	65	0	6	2	0
MINNEAPOLIS	53	33	60	27	43	25	.6	.4	.6	1.5	71	85	53	0	1	1	1
ROCHESTER	53	33	63	29	43	25	.9	.8	.5	1.9	119	91	60	0	2	3	0
SAINT CLOUD	51	29	57	24	40	26	.3	.1	.3	1.3	57	96	--	0	5	3	0
MS JACKSON	71	47	78	40	59	9	.1	- 1.1	T	5.1	38	93	52	0	0	3	0
MERIDIAN	74	48	81	37	61	11	.4	- .9	.4	7.2	50	95	53	0	0	2	0
MO COLUMBIA	60	38	66	33	49	14	.5	.1	.3	3.1	65	78	51	0	0	2	0
KANSAS CITY	62	38	68	33	50	16	.1	- .3	.1	6.3	158	62	33	0	0	2	0
SAINT LOUIS	66	43	71	39	54	18	.6	0	.6	3.4	52	85	47	0	0	2	1
SPRINGFIELD	63	38	72	33	50	12	.5	0	.4	4.5	75	86	47	0	0	2	0
MT BILLINGS	57	35	70	29	46	17	T	- .1	T	.6	40	56	26	0	2	1	0
GLASGOW	54	33	57	29	44	27	.1	0	.1	.3	25	85	45	0	3	1	0
GREAT FALLS	55	37	67	31	46	18	0	- .2	0	1.1	50	55	31	0	2	0	0
HAVRE	57	34	68	28	46	27	T	- .1	T	.8	67	68	34	0	4	0	0
HELENA	51	32	64	29	41	15	T	- .1	T	.6	50	69	42	0	5	2	0
KALISPELL	47	34	53	27	41	15	.7	.5	.5	5.8	141	78	57	0	1	4	0
MILES CITY	55	33	63	30	44	22	T	- .1	T	.6	50	71	34	0	4	0	0
MISSOULA	48	32	55	26	40	12	.2	0	.1	2.2	73	86	56	0	2	3	0
NE GRAND ISLAND	62	34	71	29	48	20	T	- .2	T	.6	43	73	22	0	3	0	0
LINCOLN	64	34	71	24	49	20	.1	- .1	.1	1.2	71	76	26	0	2	1	0
NORFOLK	61	33	72	26	47	22	T	- .2	T	.6	38	71	26	0	4	0	0
NORTH PLATTE	62	25	74	19	44	15	T	- .1	T	.2	17	59	20	0	7	0	0
OMAHA	61	37	69	29	49	22	T	- .2	T	.7	35	75	35	0	1	1	0
VALENTINE	59	29	67	23	44	18	T	- .1	T	.7	58	84	30	0	6	0	0
NV ELY	53	25	61	16	39	10	T	- .1	T	2.0	133	73	31	0	7	1	0
LAS VEGAS	73	45	82	36	59	9	0	- .1	0	.3	25	35	14	0	0	0	0
RENO	60	26	68	19	43	5	T	- .2	T	1.6	52	76	27	0	6	0	0
WINNEMUCCA	59	27	74	17	43	8	.4	.2	.3	1.2	50	79	32	0	5	2	0
NH CONCORD	55	33	63	23	44	20	1.0	.3	.7	4.8	60	95	47	0	4	4	1
NJ ATLANTIC CITY	57	37	69	22	47	13	1.4	.6	.8	4.6	46	96	65	0	1	3	2
TRENTON	57	43	68	30	50	16	.9	.2	.7	3.4	43	--	--	0	1	4	0
NM ALBUQUERQUE	66	31	74	28	48	7	0	- .1	0	1.3	108	55	15	0	6	0	0
ROSWELL	71	33	81	24	52	7	0	- .1	0	.5	42	--	--	0	6	0	0
NY ALBANY	61	38	66	31	50	26	.7	.1	.6	5.2	75	88	56	0	2	3	1
BINGHAMTON	54	44	61	31	49	26	1.0	.5	.5	5.8	84	86	70	0	1	3	1
BUFFALO	55	43	65	37	49	24	1.6	.9	.7	6.6	83	86	72	0	0	4	2
NEW YORK	55	42	66	31	49	15	2.2	1.4	1.5	5.3	60	94	65	0	1	4	2
ROCHESTER	55	44	62	39	50	24	1.6	1.0	.8	5.9	89	74	66	0	0	5	2
SYRACUSE	60	42	69	35	51	26	.6	- .1	.3	6.8	85	77	55	0	0	3	0
NC ASHEVILLE	57	41	65	30	49	9	1.3	.4	.6	5.6	57	76	69	0	1	4	1
CHARLOTTE	65	45	69	38	55	11	1.0	.1	.7	4.8	48	85	53	0	0	4	1
GREENSBORO	63	48	68	35	55	14	1.3	.5	1.2	4.9	55	79	52	0	0	3	1
HATTERAS	62	47	70	38	55	9	.1	- .9	.1	8.1	66	94	64	0	0	3	0
RALEIGH	66	47	71	31	57	14	1.5	.6	1.4	5.4	60	83	55	0	1	3	1
WILMINGTON	66	48	70	38	57	8	1.5	.6	1.3	9.6	103	88	51	0	0	3	1
ND BISMARCK	52	29	57	21	41	26	T	- .1	T	.5	42	88	41	0	5	1	0
FARGO	48	28	53	24	38	26	T	- .1	T	.8	67	94	56	0	7	1	0
WILLISTON	52	34	57	29	43	27	.1	- .1	.1	1.1	85	73	48	0	1	1	0
OH AKRON-CANTON	52	41	60	35	47	18	2.1	1.5	1.1	7.0	101	91	69	0	0	5	2
CINCINNATI	55	42	62	36	49	15	1.5	.8	.5	5.5	65	95	61	0	0	5	1
CLEVELAND	51	39	62	33	45	17	1.4	.8	.5	5.5	80	93	77	0	0	4	1
COLUMBUS	54	43	60	37	49	18	2.5	2.0	1.0	7.1	100	94	78	0	0	6	2
DAYTON	53	43	59	35	48	17	1.0	.4	.5	5.1	74	93	68	0	0	5	1
TOLEDO	48	36	57	31	42	15	.8	.3	.4	6.2	107	99	81	0	2	3	0
YOUNGSTOWN	49	39	59	33	44	17	1.6	1.0	.5	5.4	72	86	74	0	0	6	1
OK OKLAHOMA CITY	71	38	84	33	55	12	.2	- .1	.2	2.6	74	80	30	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Feb. 22, 1981

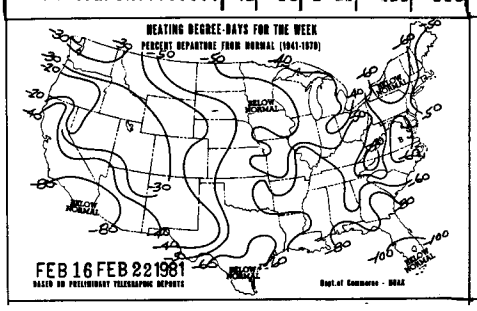
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION					RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
														TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec. 1	PCT. NORMAL SINCE Dec. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
TULSA	71	42	83	38	56	14	.2	-.3	.2	3.0	64	85	31	0	0	1	0
OR ASTORIA	58	44	64	36	51	7	2.5	.6	1.3	22.7	85	92	67	0	0	5	3
BURNS	46	28	51	22	37	5	.2	-.1	.1	3.0	67	89	59	0	5	4	0
MEDFORD	56	34	65	27	45	3	.6	.1	.5	4.5	51	99	63	0	4	3	0
PENDLETON	57	41	64	34	49	9	.4	.1	.3	3.3	75	76	50	0	0	4	0
PORTLAND	59	43	64	34	51	7	1.6	.6	1.2	14.6	96	89	60	0	0	4	1
SALEM	57	40	61	29	49	5	1.2	.1	.6	15.4	89	91	62	0	2	4	1
PA ALLENTOWN	57	38	65	24	48	18	1.3	.6	1.0	5.0	57	95	71	0	1	5	1
ERIE	52	40	61	33	46	20	2.4	1.8	1.7	7.5	106	--	--	0	0	4	1
HARRISBURG	56	40	65	26	48	15	1.5	.9	1.1	5.6	74	86	56	0	1	5	1
PHILADELPHIA	59	40	68	25	50	15	.5	-.1	.4	3.5	44	99	66	0	1	4	0
PITTSBURGH	54	40	65	33	47	17	1.2	.6	.6	5.3	74	86	71	0	0	3	1
SCRANTON	57	45	64	33	51	23	.8	.3	.5	9.1	149	83	72	0	0	2	1
RI PROVIDENCE	59	39	72	27	49	19	1.2	.4	.8	5.6	55	88	50	0	1	4	1
SC CHARLESTON	69	50	72	42	60	8	.8	-.1	.8	4.5	52	82	47	0	0	1	1
COLUMBIA	67	45	74	33	56	8	.6	-.4	.5	6.2	63	82	54	0	0	3	1
GREENVILLE	61	46	68	35	54	9	1.2	.1	.6	4.5	39	80	58	0	0	4	1
SD ABERDEEN	56	29	61	22	43	26	T	-.2	T	.4	31	78	32	0	5	1	0
HURON	59	31	65	23	45	25	0	-.2	0	.2	14	74	32	0	5	0	0
RAPID CITY	56	31	63	26	44	17	0	-.1	0	.9	75	70	30	0	6	0	0
SIOUX FALLS	59	31	70	25	45	24	T	-.3	T	.6	30	81	31	0	5	0	0
TN CHATTANOOGA	64	46	70	34	55	11	1.6	.2	.8	8.0	54	90	57	0	0	4	1
KNOXVILLE	63	44	68	35	53	10	1.1	-.1	.6	6.3	48	91	64	0	0	5	1
MEMPHIS	68	51	74	45	59	15	.5	-.7	.4	5.8	43	67	56	0	0	2	0
NASHVILLE	66	46	72	35	56	15	.9	-.2	.6	6.6	52	79	52	0	0	4	1
TX ABILENE	71	45	82	40	58	9	T	-.2	T	3.2	110	75	27	0	0	1	0
AMARILLO	69	33	83	25	51	10	.1	0	.1	.7	50	67	20	0	2	1	0
AUSTIN	74	51	81	36	63	8	T	-.8	T	4.1	60	88	44	0	0	0	0
BEAUMONT	71	52	75	46	62	6	.3	-.8	.1	8.8	70	87	52	0	0	3	0
BROWNSVILLE	76	58	82	47	67	3	.2	-.2	.2	4.4	110	90	59	0	0	1	0
CORPUS CHRISTI	75	55	82	42	65	4	T	-.5	T	4.6	92	68	55	0	0	2	0
DEL RIO	74	52	84	44	63	6	T	-.3	T	1.7	89	93	38	0	0	0	0
EL PASO	74	36	80	23	55	6	0	-.1	0	1.4	117	50	14	0	2	0	0
FORT WORTH	73	44	83	34	58	9	.2	-.5	.2	2.8	50	82	31	0	0	1	0
GALVESTON	65	55	68	50	60	3	.1	-.5	.1	4.8	55	88	62	0	0	1	0
HOUSTON	76	54	82	44	65	9	.3	-.6	.3	5.5	52	88	46	0	0	1	0
LUBBOCK	70	33	81	28	52	8	T	-.1	T	1.1	92	76	23	0	4	0	0
MIDLAND	69	38	79	32	53	5	T	-.1	T	1.7	142	74	29	0	1	0	0
SAN ANGELO	71	41	81	34	56	5	T	-.2	T	3.3	165	86	31	0	0	0	0
SAN ANTONIO	74	49	81	34	62	6	T	-.5	T	3.5	69	72	45	0	0	1	0
VICTORIA	74	54	82	42	64	7	T	-.6	T	3.6	63	73	53	0	0	1	0
WACO	72	45	78	34	59	7	.3	-.4	.3	5.3	91	89	44	0	0	1	0
WICHITA FALLS	73	40	86	38	57	10	T	-.3	T	2.5	74	82	30	0	0	0	0
UT BLANDING	57	28	63	20	43	9	0	-.2	0	.5	16	63	21	0	6	0	0
SALT LAKE CITY	52	32	61	24	42	8	.2	0	.1	1.3	35	82	41	0	4	2	0
VT BURLINGTON	57	42	62	33	49	30	.1	-.3	.1	5.3	102	92	62	0	0	2	0
VA LYNCHBURG	62	45	67	30	54	15	1.1	.4	.9	4.6	57	84	--	0	1	3	1
NORFOLK	62	45	71	28	54	12	.6	-.2	.4	5.7	63	90	62	0	1	3	0
RICHMOND	63	46	73	27	55	15	.7	-.1	.2	3.7	44	87	58	0	1	2	0
ROANOKE	59	40	67	25	50	11	.4	-.4	.3	3.2	39	80	62	0	1	3	0
WA COLVILLE	51	38	52	30	44	12	.5	.2	.2	5.4	100	--	--	0	2	4	0
OMAK	55	36	62	30	45	--	.5	--	.4	4.5	--	--	36	0	2	3	0
QUILLAYUTE	53	41	61	35	47	5	3.8	.9	1.4	32.8	83	96	90	0	0	6	5
SEATTLE-TACOMA	53	44	56	39	49	6	1.2	.2	.4	13.9	93	86	66	0	0	4	0
SPOKANE	49	35	53	30	42	9	.6	.2	.3	6.0	94	90	63	0	3	3	0
WALLA-WALLA	57	42	66	34	51	9	1.2	.8	.6	6.8	128	75	60	0	0	3	2
YAKIMA	57	35	64	30	46	9	.3	.1	.2	4.3	134	82	48	0	2	3	0
WV BECKLEY	54	41	63	35	48	15	.5	-.4	.3	3.3	34	87	70	0	0	4	0
CHARLESTON	60	41	70	32	50	13	1.0	.3	.5	5.9	64	89	65	0	1	5	0
HUNTINGTON	60	43	68	33	51	15	.6	-.1	.3	5.9	70	86	64	0	0	5	0
PARKERSBURG	59	43	70	32	51	16	.8	.1	.3	4.8	60	84	62	0	1	4	0
WI GREEN BAY	47	33	55	27	40	21	1.3	1.0	1.3	3.4	100	90	69	0	3	2	1
LA CROSSE	56	36	64	27	46	25	.8	.6	.8	2.1	81	87	55	0	1	1	1
MADISON	53	32	61	26	43	21	1.6	1.3	1.6	4.0	108	95	60	0	4	2	1
MILWAUKEE	49	35	59	29	42	18	1.0	.8	1.0	6.3	147	96	74	0	2	1	1
WY CASPER	52	26	59	17	39	12	.1	0	.1	1.1	92	--	30	0	4	1	0
CHEYENNE	54	31	62	24	43	14	T	-.1	T	.6	50	57	26	0	5	1	0
LANDER	50	26	59	20	38	12	T	-.2	T	1.1	85	68	35	0	6	0	0
SHERIDAN	53	30	66	24	41	15	T	-.2	T	1.3	72	69	31	0	6	1	0
PR SAN JUAN	85	74	87	72	79	4	.5	-.6	.4	8.2	77	80	55	0	0	5	0

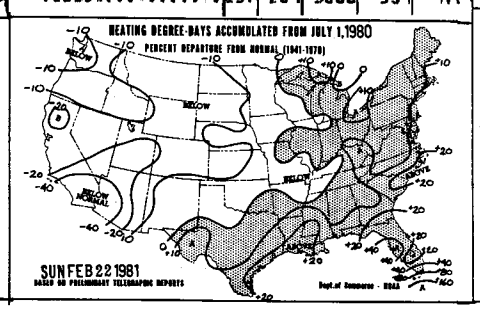
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

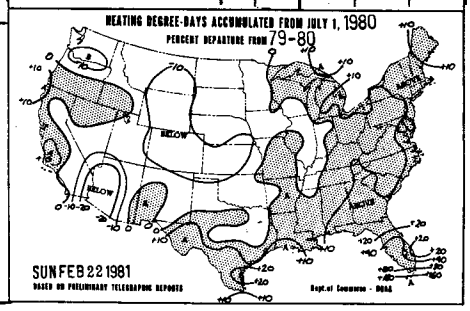
HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING FEB. 22, 1981.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1980.

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1979-80
ALA. BIRMINGHAM	36	-89	2419	201	208
MOBILE	13	-67	1504	234	222
MONTGOMERY	41	-59	2014	208	340
ARIZ. FLAGSTAFF	151	-87	3680	-119	-1079
PHOENIX	6	-62	555	-699	-308
TUCSON	18	-62	974	-390	-107
WINSLOW	123	-50	3054	-425	-297
YUMA	1	-43	322	-530	-142
ARK. FORT SMITH	72	-74	2714	-116	-70
LITTLE ROCK	45	-105	2563	-40	234
CALIF. BAKERSFIELD	42	-40	1351	-340	194
EUREKA	73	-39	2590	-330	329
FRESNO	57	-43	1730	-253	65
LOS ANGELES	0	-66	524	-592	-16
RED BLUFF	45	-54	1533	-416	-95
SAN DIEGO	1	-55	384	-581	-10
SAN FRANCISCO	52	-40	1744	-227	107
STOCKTON	57	-49	1783	-260	148
COLO. DENVER	125	-97	3376	-728	-835
GRAND JUNCTION	161	-50	3322	-817	-586
PUEBLO	111	-95	3336	-530	-615
CONN. BRIDGEPORT	158	-78	4053	374	410
HARTFORD	110	-153	4786	331	554
DEL. WILMINGTON	100	-115	3716	186	292
D.C. WASHINGTON	64	-127	2954	-149	244
FLA. APALACHICOLA	14	-57	1332	230	165
DAYTONA BEACH	7	-44	936	215	196
FORT MYERS	0	-28	480	53	167
JACKSONVILLE	10	-58	1373	299	170
KEY WEST	0	-7	173	118	116
LAKELAND	0	-41	826	270	331
MIAMI	0	-16	254	77	103
ORLANDO	1	-44	779	187	251
TALLAHASSEE	17	-61	1618	335	198
TAMPA	0	-42	852	264	341
WEST PALM BEACH	0	-21	313	55	36
GA. ATLANTA	39	-97	2426	56	234
AUGUSTA	41	-74	2294	286	153
MACON	12	-90	1846	58	182
SAVANNAH	19	-72	1807	246	281
IDAHO. BOISE	154	-44	3880	-220	55
LEWISTON	116	-63	3342	-532	-287
POCATELLO	184	-57	4668	-212	-34
ILL. CAIRO	41	-130	2926	-5	3
CHICAGO	140	-127	4570	-35	164
MOLINE	134	-134	4692	-64	-1
PEORIA	144	-111	4526	-107	-82
ROCKFORD	157	-123	4808	-84	-243
SPRINGFIELD	120	-116	4115	-51	-27
IND. EVANSVILLE	98	-101	3545	-93	-51
FORT WAYNE	156	-101	4595	-191	-4
INDIANAPOLIS	124	-111	4265	-220	-75
SOUTH BEND	129	-137	4318	-220	-186
IOWA. BURLINGTON	122	-134	4525	-61	-15
DES MOINES	118	-159	4490	-351	-8
DUBUQUE	136	-157	4940	-258	-24
SIOUX CITY	130	-153	4748	-291	-140
KANS. CONCORDIA	100	-127	3676	-404	-414
DODGE CITY	95	-108	3184	-476	-829
GOODLAND	123	-107	3786	-491	-438
TOPEKA	108	-105	3790	-73	-206
WICHITA	86	-108	3251	-234	-355
KY. LEXINGTON	96	-107	3745	270	154
LOUISVILLE	89	-111	3406	20	49
LA. BATON ROUGE	19	-60	1655	288	85
LAKE CHARLES	28	-44	1602	387	224
NEW ORLEANS	23	-48	1352	159	100
SHREVEPORT	42	-58	1765	238	113
MAINE. CARIBOU	161	-198	6663	102	530
PORTLAND	156	-135	5305	230	390
MD. BALTIMORE	82	-126	3606	185	375
MASS. BOSTON	131	-108	4282	428	530
MICH. ALPENA	169	-155	5653	-40	176
DETROIT	163	-101	4978	489	382
FLINT	174	-110	5212	353	540
GRAND RAPIDS	154	-126	4938	226	496
HOUGHTON LAKE	176	-149	5839	151	367
LANSING	162	-121	5069	274	242
MARQUETTE	187	-167	6572	106	175
MUSKEGON	179	-100	5014	327	292
S. STE. MARIE	209	-137	6863	727	747
MINN. DULUTH	200	-163	6707	6	332
INTERNATL FALLS	213	-184	7274	-139	-111
MINNEAPOLIS	154	-177	5477	-340	-32
ROCHESTER	152	-177	5547	-271	39
ST. CLOUD	173	-181	5978	-318	-160
MISS. JACKSON	41	-66	2204	382	71
MERIDIAN	26	-81	2031	126	73
MO. COLUMBIA	111	-102	3917	186	43
KANSAS CITY	105	-116	3882	-63	-90
ST. LOUIS	73	-130	3495	-22	-37
SPRINGFIELD	100	-90	3353	-25	154
MONT. BILLINGS	131	-124	4024	-545	-553
GLASGOW	147	-192	5282	-1012	-549
GREAT FALLS	133	-127	4617	-566	-283
HAVRE	134	-189	5168	-949	-229
HELENA	165	-103	4956	-680	-415
KALISPELL	169	-103	5109	-771	-316
MILES CITY	143	-152	4577	-994	-629
MISSOULA	173	-83	4858	-646	-332
NEBR. GRAND ISLAND	114	-140	4184	-427	-438
LINCOLN	110	-141	4051	-469	-439
NORFOLK	127	-154	4520	-486	-313
NORTH PLATTE	147	-105	4338	-418	-128
OMAHA	129	-121	4514	-95	-240
VALENTINE	146	-131	4521	-577	-462
NEV. ELY	183	-71	4524	-658	-43
LAS VEGAS	38	-69	1405	-652	-325
RENO	151	-38	3557	-521	-10
WINNEMUCCA	151	-59	3874	-627	-36
N.H. CONCORD	149	-144	5635	525	698
N.J. ATLANTIC CITY	124	-91	4220	731	601
TRENTON	110	-108	3893	381	544
N.MEX. ALBUQUERQUE	116	-53	3058	-161	-90
ROSWELL	91	-58	2632	-253	-129
N.Y. ALBANY	105	-181	5276	430	674
BINGHAMTON	111	-183	5382	389	580
BUFFALO	112	-170	4757	-68	351
NEW YORK	114	-107	3878	449	548
ROCHESTER	106	-172	4920	321	333
SYRACUSE	98	-180	5015	431	569
N.C. ASHEVILLE	107	-69	3252	144	259
CHARLOTTE	68	-76	2824	364	245
GREENSBORO	66	-101	3126	243	252
HATTERAS	71	-62	2365	436	351
RALEIGH	57	-100	2909	252	210
WILMINGTON	54	-63	2281	400	290
N.DAK. BISMARCK	169	-182	5568	-829	-557
FARGO	186	-185	6267	-325	-193
WILLISTON	151	-195	5611	-858	-456
OHIO. AKRON-CANTON	127	-130	4558	200	190
CINCINNATI	112	-108	4167	484	255
CLEVELAND	138	-119	4680	413	353
COLUMBUS	111	-129	4198	98	183
DAYTON	110	-120	4392	345	231
TOLEDO	151	-104	5033	534	476
YOUNGSTOWN	145	-119	5014	543	507
OKLA. OKLAHOMA CITY	71	-88	2737	-80	-28
TULSA	59	-101	2717	-101	-7
OREG. ASTORIA	96	-51	2667	-698	-256
BURNS	194	-36	4716	-177	-126
MEDFORD	138	-23	3035	-349	-109
PENDLETON	110	-63	3473	-354	-532
PORTLAND	98	-51	2595	-649	-323
SALEM	114	-35	2966	-262	-202
PA. ALLENTOWN	119	-127	4128	0	341
ERIE	134	-142	4688	82	449
HARRISBURG	109	-116	4016	217	276
PHILADELPHIA	106	-108	3861	375	432
PITTSBURGH	125	-123	4581	357	369
SCRANTON	96	-165	4692	264	577
R.I. PROVIDENCE	112	-135	4460	387	673
S.C. CHARLESTON	36	-66	1946	256	192
COLUMBIA	61	-59	2454	408	150
GREENVILLE	76	-65	2774	348	331
S.DAK. ABERDEEN	155	-185	5410	-738	-313
HURON	139	-182	5167	-588	-173
RAPID CITY	149	-119	4304	-680	-373
SIOUX FALLS	138	-172	5201	-406	-121
TENN. CHATTANOOGA	69	-83	2902	219	148
KNOXVILLE	82	-72	3121	471	397
MEMPHIS	37	-107	2266	-205	-76
NASHVILLE	58	-106	2935	116	77
TEXAS. ABILENE	53	-61	2032	18	23
AMARILLO	97	-75	3083	8	233
AUSTIN	28	-53	1460	53	52
BEAUMONT	43	-28	1515	288	186
BROWNSVILLE	10	-25	635	99	59
CORPUS CHRISTI	21	-24	1004	230	206
DEL RIO	22	-43	1353	58	170
EL PASO	65	-41	2110	-64	-50
FORT WORTH	45	-63	1978	106	62
GALVESTON	36	-28	1248	283	162
HOUSTON	16	-53	1334	166	2
LUBBOCK	92	-59	2573	-122	-38
MIDLAND	80	-35	2367	284	224
SAN ANGELO	61	-36	1910	108	-69
SAN ANTONIO	33	-40	1386	97	137
VICTORIA	21	-39	1215	209	45
WACO	42	-53	1760	113	-105
WICHITA FALLS	57	-71	2233	-34	-54
UTAH SALT LAKE CITY	160	-54	3746	-474	-35
VT. BURLINGTON	109	-210	5855	409	832
VA. LYNCHBURG	79	-106	3322	191	169
NORFOLK	78	-85	2864	319	326
RICHMOND	70	-106	3244	306	471
ROANOKE	106	-79	3371	210	220
WASH. QUILLAYUTE	123	-38	3300	-499	-171
SEATTLE-TACOMA	111	-43	2934	-502	-254
SPOKANE	158	-62	4345	-417	-236
WALLA WALLA	105	-59	3176	-331	-412
YAKIMA	129	-65	3584	-749	-817
W. VA. BECKLEY	121	-106	4221	231	170
CHARLESTON	102	-94	3732	353	274
HUNTINGTON	94	-105	3672	279	287
PARKERSBURG	88	-120	3749	235	152
WIS. GREEN BAY	173	-151	5694	54	308
LACROSSE	130	-178	5111	-213	-88
MADISON	156	-151	5330	-109	-5
MILWAUKEE	161	-130	5141	26	407
WYO. CASPER	171	-92	4485	-590	-844
CHEYENNE	156	-96	4120	-671	-699
LANDER	185	-84	4713	-695	-808
SHERIDAN	164	-103	4566	-678	-639







National Agricultural Summary

February 16 - 22, 1981

HIGHLIGHTS: Temperatures were well-above normal in all regions of the Nation. The warm weather melted most of the snowcover in northern areas and encouraged growth of crops and pastures in southern areas. Widespread precipitation curtailed field activities across the South where farmers had only 2 to 4 days suitable for fieldwork. Farmers in a few southern areas were able to plant limited acreages of corn and sorghum. Winter wheat generally rated fair to good. Farmers began fertilizing wheat in southern areas where mild temperatures encouraged growth. Pastures also showed improvement from the above-normal temperatures and recent rains. Fruit growers continued to prune mature trees, set out new trees, and apply dormant sprays. Vegetable planting and harvesting continued active across the South. Calving and lambing extended throughout all areas of the Nation; no unusual losses were reported.

SMALL GRAINS: Winter wheat generally rated fair to good in major producing States. Above-normal temperatures and ample soil moisture encouraged early spring growth in southern areas. Spring-like weather in northern growing areas melted much of the remaining snowcover.

Kansas winter wheat condition rated fair, varying from excellent in some districts to poor in others. There were scattered light wind damage and light greenbug infestations in the southern third of the State.

Winter wheat and other small grains in Oklahoma need additional moisture for good growth.

Small grain fields in Texas responded to the warm weather, but continued growth decreased topsoil moisture supplies especially in the wheat fields of the Panhandle where rain is needed.

Signs of moisture stress were evident in small grain fields in Central and South Texas. Greenbug infestations were increasing with the warmer temperatures. Winter wheat rated mostly fair to good, although condition was reported poor in a few areas.

Arizona small grains made excellent progress under ideal conditions. Earliest planted fields were developing heads, substantially ahead of normal. Winter wheat in the Pacific Northwest was in good to excellent condition with weed spraying continuing. Warm weather stimulated growth in California's small grain fields. Aerial application of herbicides increased and some spraying for aphid control in wheat fields was noted. Montana's winter wheat was in generally fair condition with light to moderate wind damage. There was very little snowcover. Across the South, farmers topdressed fields as weather permitted.

OTHER CROPS: Florida's sugarcane harvest neared completion, but harvesting in Texas remained active. Corn and sorghum planting advanced ahead of schedule in southern areas of Texas. Corn planting started in Florida. Tobacco growers prepared and planted seedbeds.

FRUITS AND NUTS: Warm temperatures and rain improved citrus grove conditions in Florida. New growth and bloom-bud formation was beginning. Harvest of early and midseason oranges neared completion.

In Arizona, deciduous fruit trees showed substantial new growth and small fruit. Grape vines were growing very well. Harvests of lemons, tangerines, grapefruit and Valencia oranges made seasonal progress. Trees showed abundant new growth; blooms were increasing.

Early variety stone fruits were nearing full bloom in the upper San Joaquin Valley area of California. Desert grapefruit, lemon, Navel orange, and Minneola tangelo harvests continued active. Desert lemons were almost finished. All major almond varieties in the Central Valley were in or past full bloom under ideal conditions.

Deciduous fruit growers pruned trees, applied dormant sprays, and planted new trees.

VEGETABLES: Above normal temperatures prevailed in Florida's vegetable growing areas. Overall vegetable shipments were 2% below the previous week. Harvests gained for cabbage, cauliflower, cucumbers, eggplant, escarole, and peppers. Steady supplies were available for carrots, celery, sweet corn, lettuce, radishes, and squash. Volume declined for snap beans, Chinese cabbage, okra, parsley, and tomatoes. The potato harvest increased, with quality and size mostly good. Germination and growth of the watermelon crop was improved by the mild temperatures.

In the Rio Grande Valley of Texas, harvesting of cabbage, carrots, broccoli, and lettuce continued. Spring onions made steady progress. Watermelon and tomato planting was active. In the Coastal Bend and East Texas area, cabbage, potato, lettuce, and broccoli were planted. In the San Antonio-Winter Garden area, harvesting of cabbage and carrots continued. The chili pepper harvest continued in the Trans-Pecos region. Onions made good progress.

California's artichoke harvest increased seasonally on the Central Coast. In the Salinas Valley the asparagus harvest gained momentum while it just started in Woodland and Firebough. The carrot harvest was active in the Desert and in the Kern District. Lettuce harvesting increased in the Palo Verde Valley and decreased in the Imperial Valley. Strawberry picking increased on the South Coast. Tomato planting was active in central interior valleys.

PASTURES AND LIVESTOCK: Grasslands across the southern half of the Nation generally rated fair to good and were improving as a result of adequat soil moisture and mild temperatures. Pastures began supplying increasing amounts of forage reducing the amount of supplemental feeding required. Feed and hay supplies proved adequate except in a few isolated areas. Calving and lambing extended throughout all areas of the Nation; no unusual losses were reported.

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures 10° above normal. Rainfall beginning and end of week. Heaviest eastern counties.

Fieldwork: 2.3 days. Soil moisture adequate to surplus. Plowing 60% complete. Fieldwork on schedule. Feed supply from pasture and stored feed very short to short. Condition: Wheat fair; pastures poor to fair; livestock mostly fair. Activities: Preparation for spring planting, soil testing, machinery repair, care of livestock and poultry.

ARIZONA: Unusually warm temperatures through 19th, maximums mostly 10 to 18° above normal. Cooler air, windy conditions 20th, 21st. Average temperatures 6 to 13° above normal. No precipitation.

Small grains excellent progress, ideal conditions. Earliest plantings developing heads, substantially ahead normal. Sugarbeets rapid growth. Alfalfa growing accelerated rate, abnormally warm. Haying well underway, some growers central, western areas completed 1st cutting. Preparations for cotton well advanced, limited planting underway Yuma area. Land preparations continued corn, sorghum. Safflower planting underway. Harvest lettuce Yuma area very good progress, volume movement exceeding last year with reduced acreage. Harvest mixed vegetables good progress. Earliest planted potatoes, dry onions good growth. Preparations, plantings cantaloups, watermelons well advanced. Deciduous fruit trees substantial spring-like growth, small fruit forming. Grape vines growing very well. Harvest lemons, tangerines, grapefruit, Valencia oranges making seasonal progress, trees abundant new growth, bloom increasing. Very poor to poor ranges Desert areas, fair higher elevations. Cattle fair to good, sheep, lambs, good. Water supplies short to adequate.

ARKANSAS: Very warm with temperatures well above normal. Light rain fell at the beginning and end of the week with most amounts less than 0.50 in. Highest normal 51°, lowest 42°. Highest mean 59°, lowest 53°. Highest temperature 82°, lowest 24°. All departures from normal ranged from 13 to 8°. Most rainfall 1.21 in., least 0.06 in.

Wheat in good condition. Topdressing applied to about one-half of crop. Rain improved pastures in most areas, but growth still slow. Tall fescue growing. Rye grass looks good. Livestock in fair condition. Hay supplies becoming scarce. Four days available for fieldwork.

CALIFORNIA: A few relatively weak weather systems passed over early in the week and late in the week. Light precipitation amounts were scattered haphazardly across the State. Greatest amounts were measured along the North Coast near the Oregon border. The snow pack in the Sierra keeps dwindling. A return, for the second consecutive week, to above normal means was noted. Some temperatures were as much as a dozen degrees above normal.

Small grains doing well. Recent warm weather stimulated growth and too wet fields expected to recover. Aerial application of herbicides increasing. Some spraying for aphid control noted in wheat fields. Sugarbeet fields continue to do well. Cotton preplant operations continue. Winter cultural practices being completed. Early variety stone fruits nearing full bloom upper San Joaquin Valley. Desert grapefruit, lemon, Navel orange, Minneola tangelo harvests continue. Desert lemons almost finished. All major almond varieties, Central Valley, full bloom or past, conditions ideal. Artichoke harvest increasing seasonally Central Coast. Asparagus harvest increasing Delta, Salinas Valley; started Woodland, Firebaugh. Carrot harvest active Desert, Kern District. Lettuce harvest increasing Palo Verde Valley, decreasing Imperial Valley. Strawberry harvest increasing South Coast. Planting tomatoes active central interior valleys. Range conditions look good. Combination good soil moisture, warm temperatures produced good growth. More moisture needed continue growth. Bees continue to be moved into orchards for pollination.

COLORADO: Most of the week was dry and springlike, with several record high temperatures. A fast moving cold front moved through producing 4 to 10 in. of snow in the mountains and locally up to 3 in. at lower elevations. Temperatures averaged 9 to 17° above the seasonal normal. Water content of precipitation was very light and averaged only 0.10 in. or less.

FLORIDA: Brisk winds, considerable cloudiness, and scattered showers prevailed the 16th early into the 19th. Locally heavy rain fell Statewide on the 18th and early on the 19th with rains of 3.00 to 6.00 in. along lower east coast. Skies cleared on the 19th remaining nearly clear through end of period. Mild, near ideal temperatures prevailed all week. Coldest morning of period was the 21st with some lows in the 30's, northwest and 40's and low 50's elsewhere. Scattered showers spread into Panhandle late on the 22d preceding a cold front. Rain was light, less than 0.20 in. Temperatures averaged 5° above normal making this the warmest week thus far this year.

Soil moisture mostly adequate. A few dry spots as well as a few wet spots still exist in scattered areas. Sugarcane harvest active, nearing completion. Corn planting underway in northern and western counties. Land preparation active all areas. Growth of small grains improving. Pastures poor to fair but improving. Cattle fair to good but supplemental feeding still necessary many areas. Warm temperatures and rain improved citrus grove conditions. New growth and bloom bud formation beginning. Harvest of early and midseason oranges nearing completion. Brisk winds, considerable cloudiness, scattered showers through early 26th in vegetable areas. Locally heavy rains at midweek with 3.00 to 7.00 in. in sections of lower east coast. Skies were mostly clear remainder of week. Mild, above normal temperatures prevailed all week. Overall shipments 2% below previous week. Harvest gains for cabbage, cauliflower, cucumbers, eggplant, escarole and peppers. Steady supplies available for carrots, celery, sweet corn, lettuce, radishes, and squash. Volume declined for snap beans, Chinese cabbage, okra, parsley and tomatoes. Potato harvest increasing. Quality, size mostly good. Fieldwork active, watermelon crop. Germination, growth improved by mild temperatures. Strawberry production should continue to increase. Improved yields expected by early March.

GEORGIA: Rainfall varied considerably. Portions of extreme southeast and mountains received 3.00 in. while most south central and southwest less than 0.50 in. Large portion north central and northeast received over 2.00 in. Other regions 1.00 to 2.00 in. Amounts from 3.95 in. at Brunswick to 0.21 in. at Tifton. Temperatures 7 to 10° above normal in the north, and 2 to 5° above normal in the south. Temperatures averaged 47° at Clayton in the mountains to 61° at Valdosta. The 21st and 22d were warm with rain Statewide on 22d.

Soil moisture continued adequate. Field activity increasing. Small grains fair to mostly good. Pasture conditions fair to good. Cattle and tobacco plants fair to good. Small grain topdressing increasing.

HAWAII: Weather variable. Rains during weekend brought temporary relief to the Puna, Hilo, Hamakua districts, Island of Hawaii. Rains also fell in the drought stricken South Kohala and Waimea districts. Water reservoirs partially filled, but still remains low. New plantings have decreased. Elsewhere, Hawaiian chain, rains keeping moisture level adequate.

Vegetables: Bruising lowered quality for snap beans, cucumbers and eggplant from last week's stormy winds. Production generally light for most crops except for the heavy volume of head cabbage. Bananas: Growers busy salvaging and cleaning debris in orchards damaged by last week's strong winds. Production light. Rains beneficial to Puna fields, Island of Hawaii. Papayas: Damage light from last week's strong winds. Supplies at moderate volume. Pineapples: Harvesting down. Sugar: Harvesting increasing. Pastures: Poor in the dry areas. Other sections generally fair to good.

IDAHO: Temperature and precipitation averaged above normal most areas. Strong winds in many areas late in week. Precipitation evenly distributed. Some northern stations received up to 0.50 in. Some southeastern stations reported sub-normal amounts.

Calving and lambing progress good. Wet conditions posing some problems. Feed supplies remain adequate. Marketing and routine winter chores main farm and ranch activity.

ILLINOIS: Temperatures 15 to 22° above normal. Precipitation 1.00 to 1.50 in. most areas, 0.52 in. northeast, 0.33 in. south.

Soil moisture 81% short, 18% adequate, 1% surplus. Winter wheat 3% excellent, 47% good, 44% fair, 6% poor. Mostly good condition. Activities: Machinery repair, livestock feeding, manure hauling, general farmwork.

INDIANA: Cold and much snow early, heavy fog later. Temperatures 15° above normal and ranged from 3 to 72°. Precipitation 0.50 to 1.50 in., heaviest central and north.

Fieldwork nil. Fields wet and muddy. Activities: Cutting wood, attending meetings on seed, chemicals and management, readying equipment for planting season, working on tax records, trucking grain and livestock to market, caring for livestock and usual chores.

IOWA: Unseasonably warm until turning cooler with rain and snow at the weekend. Temperatures averaged 22° above normal during the most prolonged mild February spell in about 50 years. Precipitation negligible in the west, heavy in the east where 1.00 to 2.00 in. precipitation fell. Snowfalls to 5 or 6 in. were reported around Charles City and Waterloo southward to Bloomfield with lesser amounts in other eastern localities.

KANSAS: Dry with temperatures well above normal. Record breaking highs in 70's and 80's on 20th. Temperatures averaged from 49° northwest to 54° southeast or 15 to 19° above normal Statewide.

Wheat condition rated fair, districts vary from excellent to poor. Scattered light wind damage, greenbugs active southern third, mostly light infestations. Spring seeding starting, 5% oats seeded. Livestock movement normal. Fieldwork: 4.5 days suitable.

KENTUCKY: Rain occurred each day during the period. Total amounts ranged from around 0.50 in. north central and west to as much as 1.75 in. over portions of east and south central. Temperatures averaged 14 to 18° above seasonal normals.

Precipitation welcome. Subsoil still dry many areas. Fieldwork generally not started, but few early farmers have been in fields. Only 3 burley markets remain open and on a limited basis.

LOUISIANA: Rains general. Temperatures 5 to 9° above normal. Extremes: 36 and 84°.

Activities: Routine chores and caring for livestock.

MARYLAND AND DELAWARE: Temperature highs averaged 13° above normal. The lows averaged 8° above normal. Overall, temperatures were 11° above normal. High temperatures averaged in the upper 50's to low 60's. Lows averaged in the 30's. The Patuxent River station reported the most precipitation at 1.22 in. Hagerstown reported the next highest at 1.15 in. The remaining parts of the States including Wilmington, Delaware averaged a little more than 0.50 in.

MICHIGAN: Temperatures averaged 15 to 25° above normal. Maximum temperatures in 40's and 50's most of the week, dropping to 30's and 40's by weekend. Precipitation 0.30 in. to 1.00 in. Lower and 0.10 in. to 0.20 in. Upper. Extensive dense fog across State most of week. Most snowcover melted Lower and 3 to 13 in. remaining Upper.

MINNESOTA: Temperatures averaged 25° above normal in all districts except locally in northeast 16° above normal. Extremes: 65° Canby and Lamberton and 21° at Hibbing. Precipitation averaged 0.10 to 0.15 in. below normal in the western districts, near normal in the central districts, 0.50 to 0.75 in. above normal northeast, 0.10 to 0.35 in. above normal east central, 0.75 in. above normal southeast. Precipitation totals were very light in the western districts, less than 0.10 in., 0.10 to 0.45 in. central districts, 0.50 to 1.00 in. eastern districts, snowfall 1 to 4 in. northeast district, 1.0 in. southeast district, zero elsewhere. Snowdepth 1 to 5 in. northeast, 1 in. southeast, zero elsewhere. Extremes: Trace Grand Forks, 0.96 in. Grand Marais.

MISSISSIPPI: Temperatures above normal. Extremes: 27 and 81°. Rainfall very light with most areas receiving less than 0.75 in. Greatest 24-hour rainfall 1.03 in. at Corinth.

Soil moisture adequate to short. Fieldwork: 2.0 days suitable. Wheat condition fair to poor. Pastures poor. Livestock condition fair to poor. Hay and roughage supplies and feed grains short to adequate.

MISSOURI: Temperatures averaged 11 to 20° above normal. At the end of the week, a cold front passed through bringing cooler air and much needed moisture. The heaviest precipitation fell mainly in east.

MONTANA: Very mild week. Temperatures averaged 25° above normal northeast, 23° above normal north central, 12° above west. Highest, 70° at Billings. Lowest, 6° at West Yellowstone. Moderate to heavy precipitation over portions of the west and southwest. Some mountain areas had 3.00 to 5.00 in. moisture. Mostly dry and windy over Plains.

Topsoil and subsoil moisture short to adequate, except in west adequate to surplus. Specifically, subsoil moisture short in eastern third and central districts. Winter wheat condition generally fair. Wind damage light to moderate. Snowcover light to none. Hay and grain supplies adequate with some hay surpluses in west and shortages in east. Lambing and calving 10% complete. Grazing is open.

NEBRASKA: Temperatures 15 to 22° above normal. Precipitation less than 0.10 in. in eastern portion of State; remainder of State zero.

NEVADA: Mild weather most of week. Weak storm early in period brought light precipitation north. Following cold front lowered temperatures midweek but moderated again end of period. Temperatures averaged several degrees above normal. Extremes: 82 and 1° below zero.

Winter grains mostly good condition. Calving and lambing gaining momentum.

NEW ENGLAND: Temperatures above normal with record high temperatures midweek. Light rain early week. Storm end of week brought amounts of 1.00 to 1.50 in. south, less than 0.25 in. extreme north.

NEW JERSEY: Temperatures were 7 to 10° above normal, averaging 43° north, 46° south and 45° coastal. Extremes: 8° at Charlotteburg and Long Valley and 72° at Toms River. Precipitation was well above normal, averaging 2.20 in. north, 1.21 in. south and 1.26 in. coastal. Heaviest 24 hour total reported was 2.55 in. at Midland Park.

Farmers caring for livestock and tending to other normal winter chores.

NEW MEXICO: Dry and mild through most of the week. Temperatures averaged 5 to 12° warmer than normal.

Open weather prevailed allowing outside work to progress unhampered. Soil moisture continued short. The main farm and ranch activities included land preparation, supplemental feeding of livestock, and sheep shearing. Barley in fair to good condition with 55% being grazed. Irrigated winter wheat in good condition with 60% being grazed and dryland wheat in fair condition with 40% being grazed. Some late season onions still being planted in the Mesilla Valley. Ranges in mostly fair condition with most areas in need of rain. Livestock in good condition as supplemental feeding is continuing.

NEW YORK: Very mild temperatures continue with 15 to 30° above normal; average reading in the mid 40's to lower 50's. Low pressure moving south of New York at the end of the week produced above normal rainfall in most areas, ranging from 1.00 to 2.50 in. in the south, 0.25 to 1.00 in. in the north. Isolated areas in the Catskills reported up to 5.00 in.

NORTH CAROLINA: Temperatures 6 to 12° above normal. Precipitation: 0.10 in. along the Outer Banks to 1.50 in. in the mountains.

Soil moisture: 1% very short, 27% short, 66% adequate, 6% surplus. Fieldwork: 3.3 days suitable. Conditions: Wheat, oats, barley, rye, mostly fair to good. Pastures poor to mostly fair. Farm feed supplies: Hay, roughage, and feed grains mostly adequate. Major activities: Topdressing small grains and pastures, preparing and seeding tobacco plant beds, pruning fruit trees, applying lime, tending livestock and poultry, planting spring cabbage and Irish potatoes.

NORTH DAKOTA: Very mild with the average temperatures 18 to 25° above normal. Many locations saw 60° or better temperatures. Overnight lows did not drop below 20°. Extremes ranged from 68° in the south central division on 20th to 20° in the central division on 17th. Precipitation was scattered and very light. Most rain reported in northwest with 0.06 in. falling on 21st. Snowcover has virtually disappeared with the warm temperatures.

Most fields were bare with some snow remaining in sheltered areas in the north central division. The warm weather is stretching feed and fuel supplies. Roads generally in good condition except for some mud due to snow melt. Some cattle and sheep are being marketed with lambing expected to increase by next week. Certain seed varieties that are anticipated to be in short supply this spring are being purchased early by some farmers to insure their supply of those varieties.

OHIO: Unseasonably mild temperatures late in the week pushed averages well over 10° above normal. Highest readings were well into the 50's and in the low 60's south. Significant precipitation recorded with totals of over an inch at several locations. High humidities were accompanied by heavy fog on several days.

Soil temperatures at 4 in. under bare ground had climbed into the 40's across the south and thawing penetrated several inches even in the north. Wheat greening due to above seasonal temperatures.

OKLAHOMA: Temperatures averaged 9° above normal south central to 14° above normal northeast. Most stations reported maximum readings in upper 70's and 80's on 27th. A cooling trend occurred over the weekend. All divisions reported precipitation, ranging from 0.03 in. Panhandle to 0.25 in. east central. Nearly all precipitation occurred 20th and 21st in conjunction with the cool front.

Wheat, other small grains, and pastures and ranges need additional moisture. Dry windy conditions continue to increase the danger of range fires.

OREGON: Temperatures 5 to 7° warmer than normal. Coastal stations received an average of 4.50 in. of rain with Cloverdale receiving a little over 6.00 in., 1.50 to 2.50 in. fell in the Willamette and southwest valleys; central and eastern sections received from 0.50 to 1.50 in.

Soil moisture supplies mostly adequate to a few surplus conditions. Winter wheat reported good to excellent; weed spraying continuing. Grass seed fields good condition. Pruning continuing in berries and tree fruits; dormant spraying going on. Pastures beginning to greenup. Feed supplies adequate.

PENNSYLVANIA: Typical mid-April weather prevailed with record high temperatures and abundant rainfall. Maximum temperatures reached the 50's and 60's most days while minimums remained in the 30's to 50's. Extremes: 70 and 28°. After partly sunny conditions first 3 days, clouds, rain and drizzle moved in with rainfall last 4 days totaling 1.00 to 2.50 in. all except extreme southeast areas for wettest week since October. This was also the warmest week since mid-October.

PUERTO RICO: Island average rainfall 1.69 in. or 1.05 in. above normal. Highest weekly total 5.11 in. Temperatures averaged about 77° on Coasts and 73 to 71° Interior divisions. Extremes: 89 and 54°.

SOUTH CAROLINA: Warmest weather of winter occurred during week. Temperatures in the 70's recorded most stations. Nighttime temperatures in 50's midweek cooler at beginning and end. Steady, moderate rainfall occurred during first half of week.

Main outside activities include setting and pruning fruit trees, planting and caring for tobacco beds, topdressing pastures, small grains and early land preparation for spring planting. Small grain condition improved with warmer temperatures and additional moisture.

SOUTH DAKOTA: Spring-like temperatures spread over area. The northeast part of the State had a 43° average, which was about 27° above normal. The southeast averaged about 25° above normal, with average readings in the mid to upper 40's. Record high temperatures were established on five consecutive days at Sioux Falls. However, Yankton and Pickstown had the highest readings for the State with 75 and 74°. West of the River temperatures averaged mostly in the low to mid-40's except for Winner and Pierre which had 49 and 47°. Most averages were near 25° above normal. Exceptions were Newell 19°, Rapid City 19°, Martin 18° and Oelrichs 16° above normal. Precipitation widely scattered and in small amounts. Most significant moisture was in the southwest where Oelrichs received 0.08 in. and Edgemont and Buffalo Gap each had 0.07 in. Elsewhere a few hundredths fell over the northeast.

TENNESSEE: Temperatures were 10 to 15° above normal. Precipitation near normal or slightly above in the southeast while elsewhere it was drier than normal. Rainfall this year to date is still below normal.

Farm activities include general chores and caring for livestock.

TEXAS: Weather: High pressure conditions prevailed first half week; Pacific front 21st thunderstorms north, central Texas. Near normal eastern portions; 4 to 8° above normal remainder. Rainfall near normal north central Texas; below normal elsewhere.

Crops: Warm weather welcomed relief from recent subfreezing temperatures; warm, open weather continue field operations. Panhandle farmers applying preplant irrigation. Corn, sorghum planting ahead schedule southern areas. Small grain fields responded warm temperatures; continued growth decreasing topsoil moisture. Panhandle warm, windy days deplete moisture many dryland wheat fields. Central, South Texas small grain fields show signs of moisture stress. Fields Panhandle, Central Texas, signs freeze damage. Greenbug infestations increasing with warm temperatures. Reported wheat condition: 2% excellent; 28% good; 46% fair; 23% poor; and 1% failure. Sugarcane harvest active.

Commercial vegetables: In the Rio Grande Valley, harvest cabbage, carrots, broccoli, lettuce continued. Spring onions making steady progress, planting watermelon, tomatoes active. In the Coastal Bend and East Texas area, cabbage, potatoes, lettuce, broccoli planted. In the San Antonio-Winter Garden area, harvest cabbage, carrots continued. In the Trans-Pecos regions, onions continue make good progress. Harvest of chili peppers continued.

Range and livestock: Supplemental feeding continued. Calving, lambing, kidding started. Livestock remain fair condition.

UTAH: Widely scattered areas of rain or snow showers. Accumulated amounts moisture generally light. Cooling trend temperatures latter part period northwest portion. Average temperatures ranged from 4 to 15° above normal.

Soil moisture situation continuing to become more critical on many lower elevation ranges. Onion and apple marketing season nearing completion. Some potatoes still being sold as market has needs. Routine farm chores and care of livestock, repair of farm machinery and making plans for next year occupy most operators; time. Turkey placements continue. Some increase in early calves. Early lambs on farm flocks dropping.

VIRGINIA: Temperatures well above normal. Extremes: mid 70's to teens. Rainfall moderate, ranging 0.50 to 1.00 in. with most rain last half of week.

Mild temperatures eased livestock feed requirements and aided calving and lambing operations. Precipitation helped water shortage. Topsoil moisture still rated short to adequate. An average 1.7 days were suitable for fieldwork. Winter grains only fair. Supplies of hay and other roughage and feed grain supply below normal. Activities of major emphasis: Topdressing small grains; overseeding pasture and hay fields; spring plowing and disking; fruit tree pruning; care and feed of livestock; fertilizing and liming; manure spreading; lice and parasite treatments; tobacco plant bed preparation; securing farm supplies; tax and record work and soil sampling.

WASHINGTON: West: Temperatures were mainly 5 to 8° above normal and precipitation on the west Olympic coast was very heavy, while the rest of the west was much above normal. Harvest of daffodil and forced rhubarb continued. Pruning and caning of berries also took place between storms. Winter cauliflower and winter wheat both look good. Livestock in good condition and on winter rations. Hay supplies remained adequate.

East: Generally had temperatures 10 to 15° above normal while precipitation was above normal in most regions, except for the Palouse Blue Mt. area where it was much above normal. Crops showed negligible damage from cold snap. Orchard and vineyard pruning is becoming more active. Fertilizing of fields underway on a limited basis. The early application of pydrin on pears for psylla was reported. Calving continued while lambing was near completion. Livestock in good shape with adequate feed supplies.

WEST VIRGINIA: Temperatures 13° above normal. High 73°, low 12°. Precipitation above average except in southwest where it was near normal. Rains and snow melt alleviated some water shortages but many areas still experiencing shortages.

Soil moisture adequate. Days suitable for fieldwork: 2.1. Main activities: Some plowing early in week, calving and lambing. Hay, grain and other feed supplies adequate.

WISCONSIN: Temperatures much above normal with many record highs in 50's and 60's 16th to 19th. Extremes: 65 and 24°. Cooler weekend with highs 30's and 40's. Precipitation very light until 22nd when slow moving low pressure system dumped 1.00 to 1.50 in. rain over State except northwest where rain changed to snow. Snow 2.00 to 4.00 in. west and northwest, with locally heavier amounts of 6.00 in. Snowcover melted except for new snow 22nd. Frost thawed in upper few inches of soil, allowing some absorption of heavy rains but runoff brought Kickapoo River near flood stage.

WYOMING: Unseasonably mild and dry. Only area to receive significant precipitation was extreme west. Snake drainage in northwest corner received up to 0.75 in. of rain and snow. Only 13 of 40 reporting sites received any measurable precipitation. Temperatures averaged 12 to 19° above normal. Warmest recorded reading 68°. Coldest spot, south central with 3°.

Winter wheat mostly good, additional moisture would be beneficial. Some spring plowing underway. Livestock mostly good. Some early calving, lambing underway.

International Weather and Crop Summary

FEBRUARY 16 - 22, 1981

HIGHLIGHTS

WESTERN USSR: Above-normal precipitation increased snow depths over much of the winter grain belt, but maintained wet conditions in southerly portions, where temperatures near freezing again raised the possibility of ice damage.

EUROPE: Precipitation remained light and temperatures stayed slightly below normal in most countries. A return of dry weather in Iberia kept winter grain yield on the decline. Dryness persisted in northern Italy.

NORTHWESTERN AFRICA: Beneficial rainfall occurred over much of the region, maintaining good winter grain conditions in Tunisia and eastern Algeria, and improving prospects in western Algeria and northern Morocco. More moisture is needed in northern Morocco, however, crop deterioration in southern areas is beyond recovery.

SOUTH AFRICA: Above-normal rainfall again in the Maize Triangle kept corn crop prospects high.

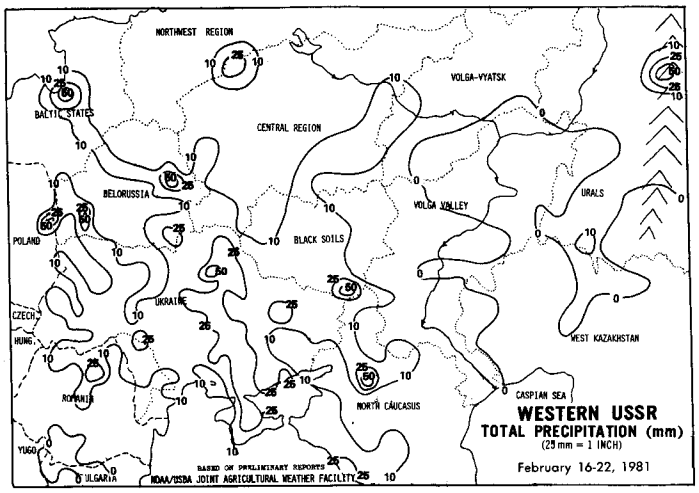
CHINA: Cooler temperatures kept winter grains nearly dormant in the south. Reservoir supplies are reportedly abnormally low in Beijing area. Abundant rains continued in the southeast.

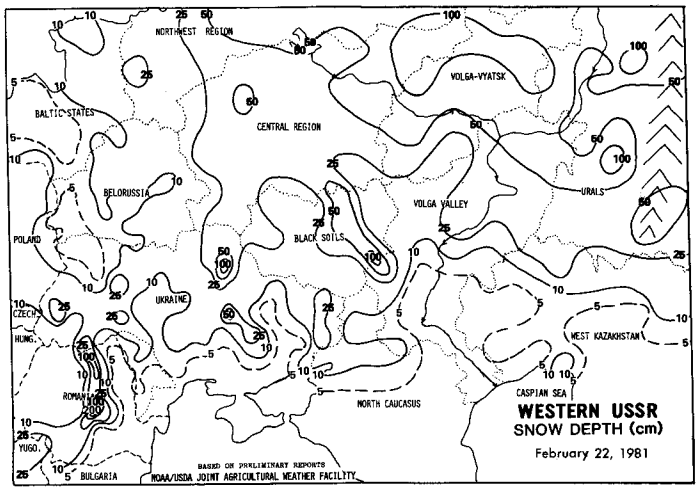
INDIA: Major winter grain areas received no rainfall. The crop should be nearing maturity.

MEXICO: Warm, spring-like weather speeded development of crops; citrus was ready to bloom.

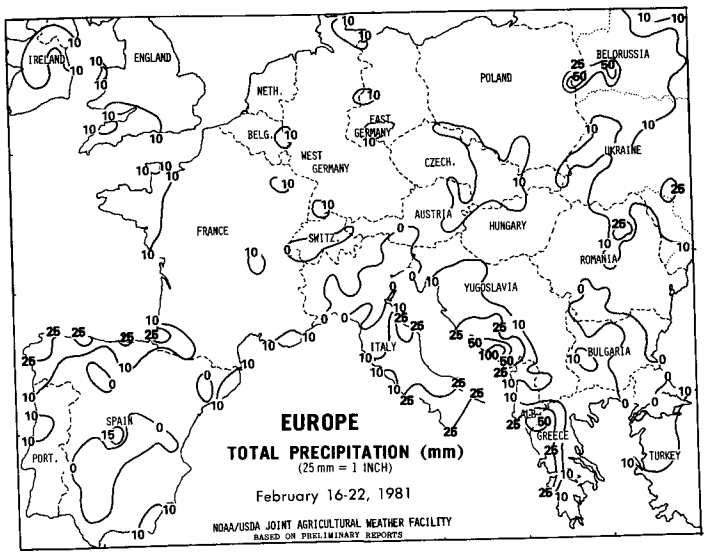
SOUTH AMERICA: Moderate rainfall in Brazil maintained good conditions for soybeans and corn. Drier weather in Argentina may actually have been a relief to crops in some low fields.

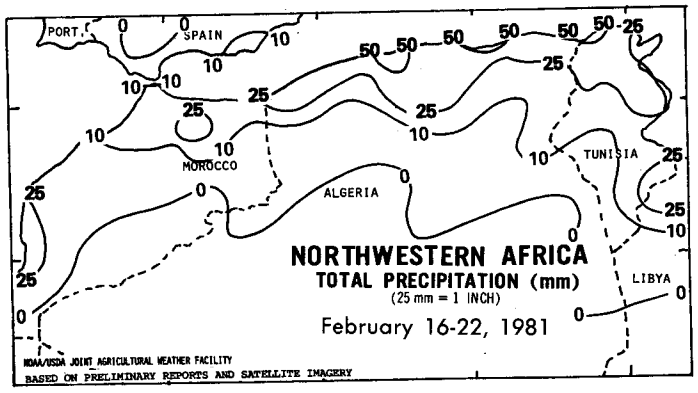
WESTERN USSR: Precipitation slackened a little over the winter grain belt, but still remained generally above normal. The moisture fell as snow over much of the belt, increasing the protective covering, and only parts of the lower Volga Valley appeared dangerously short of snowcover. Temperatures remained slightly on the mild side, however, posing no threat of winterkill. Daytime temperatures reached above freezing across southern portions of the belt, and melted most of the snow which had fallen during the previous week. Once again these southerly areas are in a weather situation where temperatures oscillating about freezing may cause damage as ice forms in wet fields.





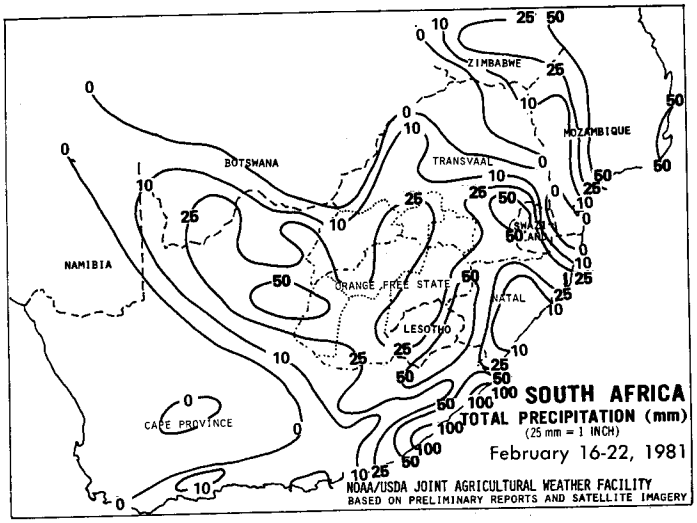
EUROPE: Most of the region received light precipitation of less than 10mm. Once again, the heaviest totals fell in parts of the southeastern countries. Coastal areas of the west had some increased precipitation, but the moisture did not penetrate inland to cover crop areas. For the most part, winter grains should remain in good condition. However, little or no rainfall over most crop areas of the Iberian Peninsula brought a return of pessimistic prospects for winter grains there. Spring crops will also suffer unless heavy rainfall occurs soon. The area depends on abundant soil moisture reserves to carry crops through as the normal dry season begins. Conditions in northern Italy remained dry also. The greatest deficits prevailed in the western part of the Po Valley, but moisture shortages in winter grain fields are gradually increasing all across the north. Eastern Europe remained snow-covered, and France and England picked up some snowcover as temperatures remained slightly below normal.





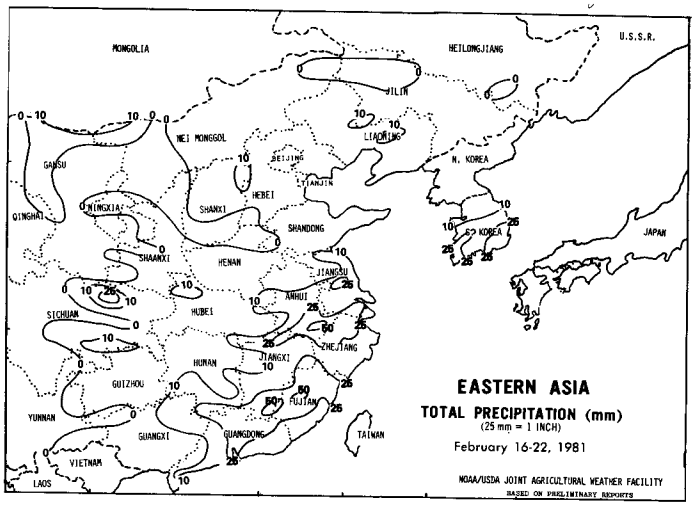
NORTHWESTERN AFRICA: Two storms spread beneficial rainfall over much of the region. The first doused southwestern coastal areas of Morocco, but left inland winter grain fields dry. To the east, it dropped widespread rains across Algeria and Tunisian crop areas. Later in the week, the second system brought some relief to winter grain areas of northern Morocco and added to the week's totals to the east. The moisture maintained good growing conditions in Tunisia and eastern Algeria, and improved conditions in central and western Algeria. Soils had become a little too dry in this latter area during January and early February. In Morocco, the light amounts which fell in southern winter grain areas were probably not sufficient to help seriously stressed crops. Slightly greater amounts in northern areas benefited winter grains, but additional regular precipitation will be needed as the winter grains enter the heading stage of development.

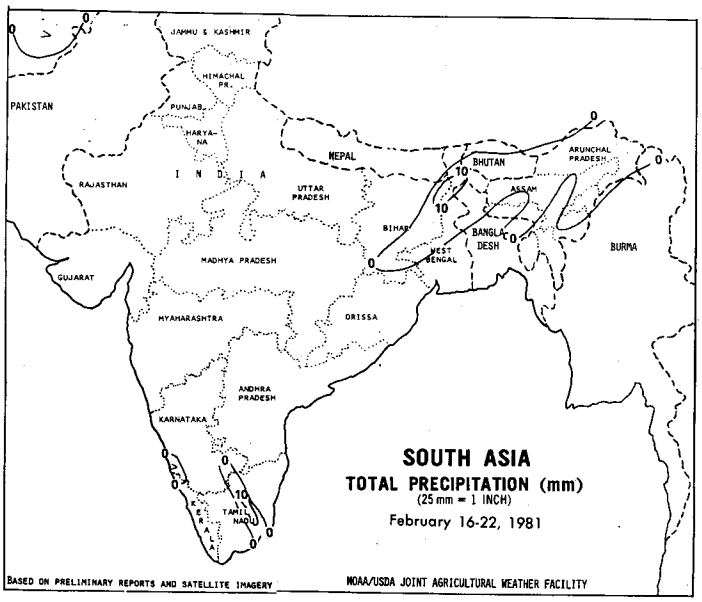
SOUTH AFRICA: Rainfall increased again over much of the Maize Triangle, surging above normal at many locations. The rainfall pattern complemented that of the previous week, and very few areas were short of moisture. With corn in the grain-filling stage, such abundant soil moisture supplies mean that crop prospects would remain bright even if rainfall were to diminish to below normal for the remainder of the crop cycle.



EASTERN ASIA: Most winter grain areas on the North China Plain received only light precipitation as the heaviest amounts occurred in the lower Yangtze Valley and the hills to the south. The moisture fell as snow in the north. Temperatures decreased in most winter grain areas, curtailing growth in all but the southern fields. This, of course, kept water needs of the crop to a minimum. Moisture shortages were greatest to the north of the Yellow River, where reservoir levels were reportedly much below normal.

South Korean winter barley remained in dormant but good condition as precipitation rose much above normal. Moisture should be in good supply as dormancy breaks in the next few weeks.

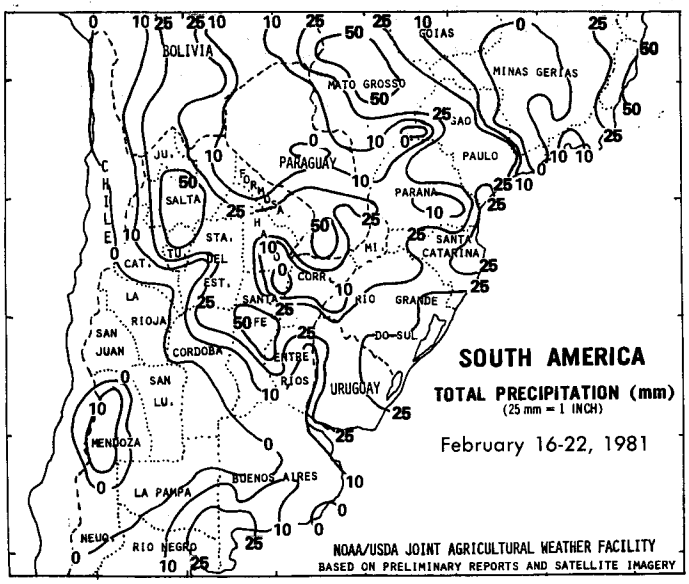




SOUTH ASIA: Most of the region received no precipitation, with only scattered amounts in northern Bangladesh, eastern India, and the Indian Peninsula. This weather should be favorable for winter grains, with harvesting normally beginning about this time in Madhya Pradesh in central India. In the major growing areas of the north, the crop should be just starting to turn color. Overall crop prospects remain good.

MEXICO: Unseasonably warm, spring-like weather across the north favored agriculture. Soil temperatures averaging 20° C in the northeast were warm enough for germination of early corn and grain sorghum. Tomatoes, cucumbers, and other West Coast winter vegetables progressed well under sunny skies. Some light rains fell over the Valles citrus orchards which should have bud swelling and be almost ready to bloom.

SOUTH AMERICA: Conditions remained beneficial for corn and soybeans in Brazil. Moderate rainfall in Parana kept soils adequately moist for late-planted soybeans, but conditions were not too wet for harvesting early varieties. Initial harvest results point to very good yield prospects. Much of the Rio Grande do Sul soybean crop is still in flower, and moderate rainfall maintained good growing conditions. In Argentina, rainfall slackened substantially over most of the corn/-soybean belt. This drier weather may actually have been a relief, for some low areas were probably too wet from the abundant rainfall of recent weeks. On these good soils, even a prolonged dry spell at this time would not seriously hurt yields of either corn or soybeans.



NOAA/USDA Joint Agricultural
Weather Facility
USDA South Bldg., Room 3526
Washington, D.C. 20250

IMMEDIATE - U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

FIRST CLASS MAIL

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
210

U.S.MAIL

The Weekly Weather and Crop Bulletin is jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44 USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the Bulletin. The contents may be reprinted freely, with proper credit.

Annual subscription: $13 domestic and $18 foreign airmail, checks drawn on U.S. banks or international money orders in U.S. funds... payable to U.S. Department of Commerce, NOAA. Order from the NOAA/USDA Joint Agricultural Weather Facility, USDA South Building, Room 3526, Washington, DC 20250.

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor.....Don Haddock
Meteorologists.....Lyle Denny
Ray McInturff
Jim Williams
Meteorological Technician.....Wes Byrd
Subscriptions.....Thelma Elis

U.S. Department of Agriculture
Economics and Statistics Service
Editor .....Don Dickson
Agricultural Statistician.....Bill Blackson

World Food & Agricultural Outlook & Situation Board
Agricultural Weather Analysts.....Laras Lambert
Ray Motha