

# 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

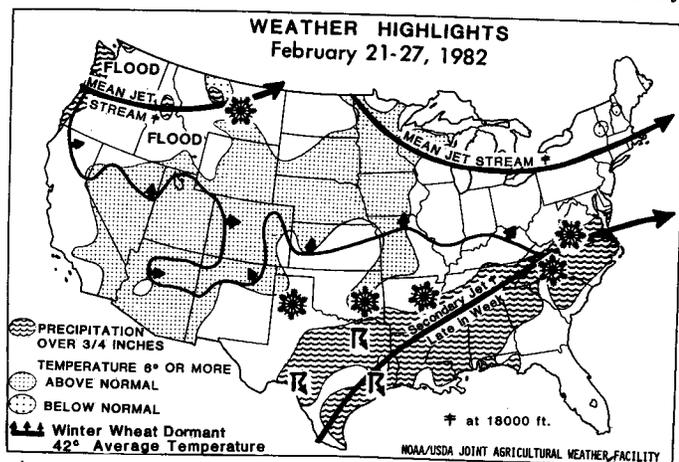
Volume 69, No. 9

WASHINGTON, D.C.

Mar. 2, 1982

## National Weather Summary

February 21-27, 1982



**HIGHLIGHTS:** Rain and melting snow early in the week caused flooding in parts of the Pacific Northwest but cooler weather and only light rain in the latter half of the week helped the situation. Dry weather in the Southeast early in the week was beneficial but cold, wet weather as the week ended delayed field work. Rain or snow through much of Texas and southern Oklahoma was beneficial to the emerging winter grain and pastures. A secondary jet stream from the western Gulf region northeastward steered a Gulf storm and spread rain or snow from western Texas, across the South; and through the Southeast to West Virginia and Maryland.

**SUNDAY...**Light snow was scattered from Ohio and West Virginia to Maine; cold rain fell along the northeast coast. Light rain continued in the Pacific Northwest and spread across the northern Rockies into parts of the northern Plains. Warm temperatures melted snow in the Northwest and kept many rivers at or above floodstage. Warm weather prevailed across the South and pushed northward through the Plains. Seventy degree readings reached into Southern Montana and South Dakota.

**MONDAY...**Light snow continued from the middle to northern Appalachians and was somewhat heavier through New England. A cold front brought a return of winter weather to the northern Plains. Snow fell through Montana and spread into Wyoming and the Dakotas. The new snow helped protect winter grain from wind and cold weather. Showers were generally light in the Pacific Northwest and snowmelt slowed. Record warm temperatures prevailed ahead of the cold air. Seventy degree readings were recorded in South Dakota and Iowa. Some eighties were recorded in parts of Kansas.

**TUESDAY...**Much colder air spread across the northern States through the Great Lakes to the central

Plains and northern Rockies and Plateau. Light snow or freezing rain and strong northerly winds accompanied the cold front. Wind and wet snow stressed livestock through the northern Plains. Snow fell through the Appalachians from Pennsylvania to New England. Summer-like weather prevailed over the South and high temperature records were set through the southern Plains and lower Mississippi Valley.

**WEDNESDAY...**Light and occasionally moderate snow continued in the northern Plains and through the Great Lakes. A mixture of freezing rain, sleet, and snow fell over the lower Great Lakes region and through Pennsylvania. Strong northerly wind ushered cold air into northern Texas, Oklahoma, the middle Mississippi Valley, and the Northeast. Thunderstorms and showers developed ahead of the cold air from central Texas through Tennessee. Showers of rain or snow fell from central Arizona through southern Colorado to western Kansas.

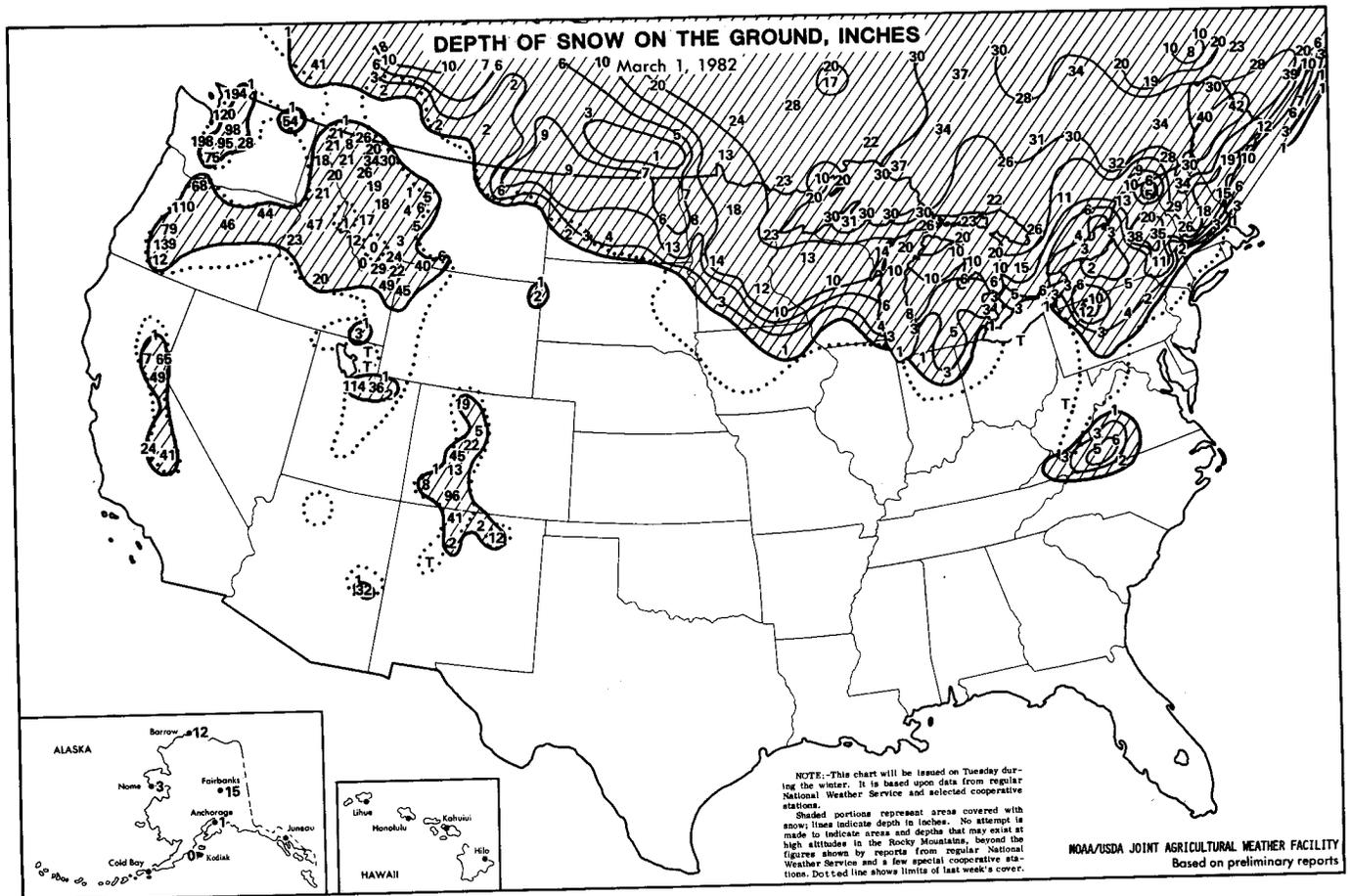
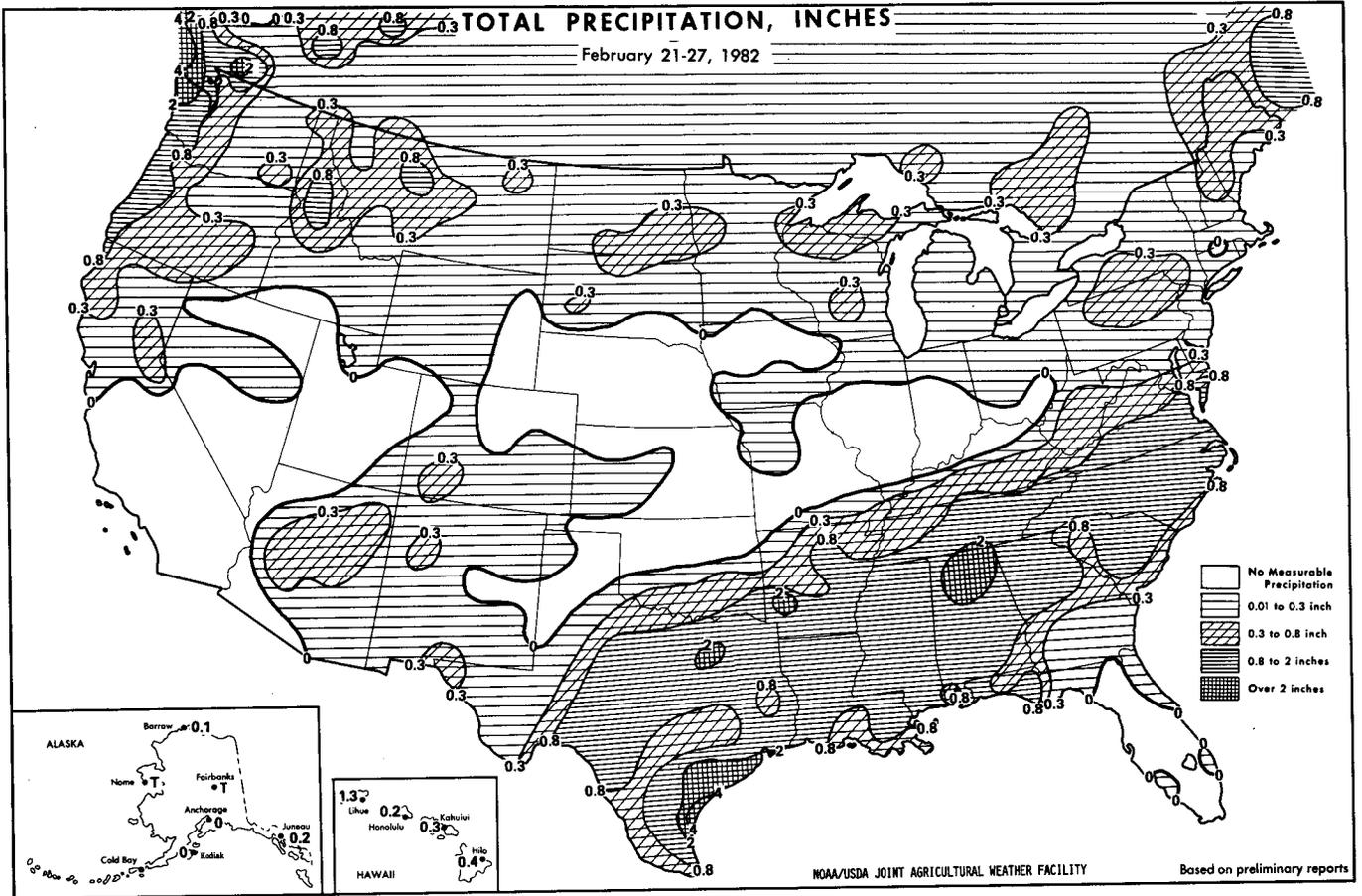
**THURSDAY...**Snow spread from Arizona and New Mexico through the Texas Panhandle and Oklahoma to Arkansas. The snow turned to rain and freezing rain through eastern Oklahoma and Arkansas. Showers and thunderstorms covered the rest of Texas and spread eastward into Georgia. The colder air pushed southward to the gulf coast during the day and changed the precipitation back to snow from northern Texas and Oklahoma to Arkansas. Freezing rain or sleet covered western Tennessee, northern Mississippi, and Alabama.

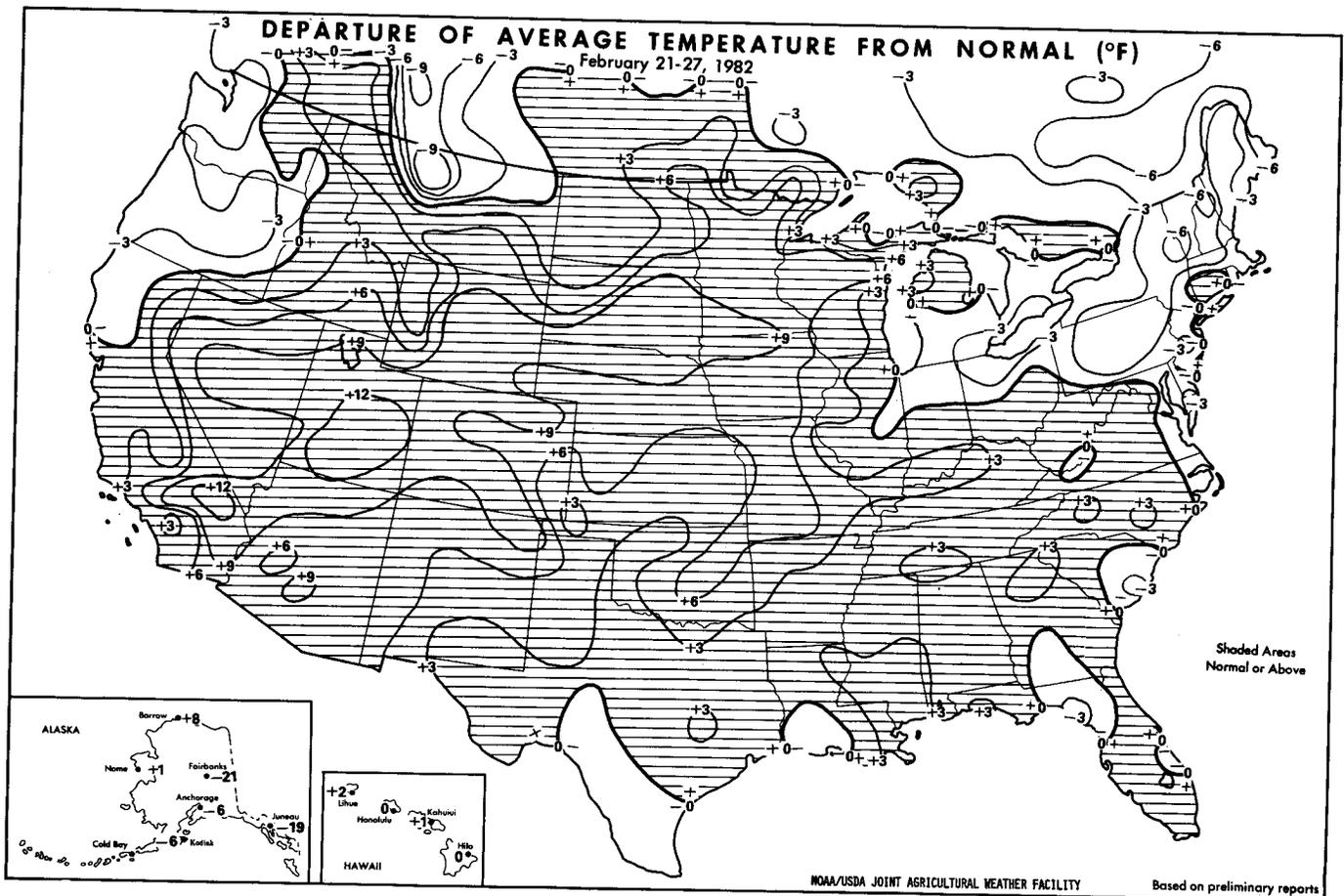
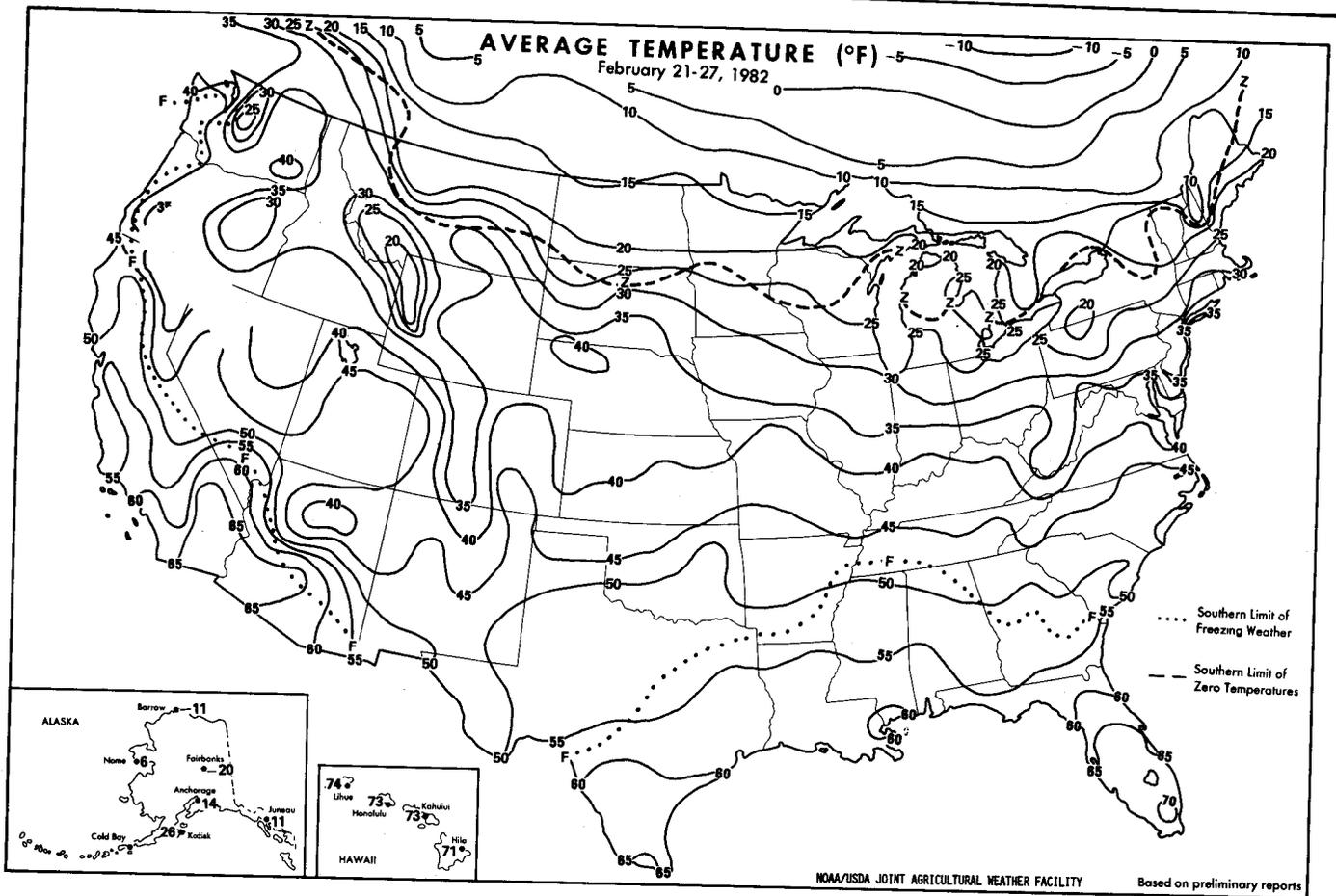
**FRIDAY...**A storm system in the Gulf of Mexico spread rain through the Gulf States to the eastern Carolinas and snow or freezing rain through Arkansas and Tennessee to the western Carolinas. Some heavy showers fell from central Louisiana to the southern Appalachians. A cold front brought rain-snow in the mountains-to the Pacific Northwest.

**SATURDAY...**A secondary jet stream from the Gulf of Mexico northeastward carried the Gulf storm with it. Rain spread from Mississippi to Florida and along the east coast to North Carolina. Snow fell from northern Georgia into southern Maryland  
(Continued on page 8.)

### Contents

	Page
National Weather Summary . . . . .	1
Precipitation & Snow . . . . .	2
Average Temperature & Departure . . . . .	3
Weather Data for Selected Cities . . . . .	4
Heating Degree Days . . . . .	7
National Agricultural Summary & Spring Temperature Outlook . . . . .	8
State Summaries of Weather & Agriculture . . . . .	9
Eurasia Outlook for March & International Weather & Crop Summary . . . . .	13
Soil Temperature & March Weather Outlook . . . . .	16





Weather Data for the Week Ending Feb. 27, 1982

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. 29	PCT. NORMAL SINCE Nov. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPI-TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	62	38	80	34	50	2	2.4	-1.0	1.7	20.6	136	13.7	146	84	38	0	0	2	2
MOBILE	68	47	77	41	58	2	.8	-.6	.7	17.8	116	11.0	125	88	42	0	0	2	1
MONTGOMERY	64	42	75	36	53	1	1.4	-.2	.7	23.3	177	14.4	192	84	38	0	0	2	2
AK ANCHORAGE	22	6	31	0	14	-6	0	-.2	0	.9	33	.6	40	56	28	0	7	0	0
BARROW	-1	-22	19	-35	-11	8	.1	-.1	.1	.7	33	.6	100	89	65	0	7	4	0
FAIRBANKS	-9	-30	4	-38	-20	-21	T	-.1	T	1.7	106	.7	78	73	44	0	7	0	0
JUNEAU	15	6	23	0	11	-19	.2	-.7	.2	7.0	57	4.3	61	72	44	0	7	1	0
KODIAK	33	19	39	12	26	-6	0	-.7	0	18.4	122	11.3	119	65	37	0	7	0	0
NOME	14	-1	20	-18	6	1	T	-.2	T	4.2	175	3.1	194	69	44	0	7	1	0
AZ PHOENIX	76	56	87	51	66	9	.2	0	.2	2.2	100	1.5	125	74	31	0	0	2	0
PRESCOTT	61	35	72	31	48	7	.6	-.2	.5	-.1	-.1	3.0	97	92	38	0	2	2	0
TUCSON	74	50	84	45	62	7	.1	-.1	T	2.4	92	1.7	106	67	23	0	0	2	0
YUMA	81	57	91	53	69	8	T	-.1	T	.3	27	.3	50	59	24	2	0	0	0
AR FORT SMITH	61	38	81	29	49	4	.2	-.7	.1	7.7	88	5.5	100	86	41	0	1	2	0
LITTLE ROCK	57	39	80	28	48	2	.6	-.5	.3	10.2	80	9.8	120	82	61	0	3	2	0
CA BAKERSFIELD	68	48	81	43	58	4	T	-.2	T	1.3	48	1.2	63	81	42	0	0	0	0
EUREKA	53	40	62	35	47	-2	.8	-.4	.7	19.7	102	10.1	85	89	60	0	0	3	1
FRESNO	63	43	76	40	53	2	0	-.4	0	3.4	55	2.6	81	91	52	0	0	0	0
LOS ANGELES	66	53	77	49	60	4	T	-.5	T	4.9	75	3.4	76	85	60	0	0	1	0
RED BLUFF	59	42	64	35	51	0	T	-.7	T	9.2	79	5.5	76	84	43	0	0	1	0
SACRAMENTO	60	43	66	32	52	0	T	-.7	T	-.1	-.1	7.5	120	85	52	0	1	1	0
SAN DIEGO	68	57	78	53	62	4	0	-.4	0	4.7	37	3.4	100	84	55	0	0	0	0
SAN FRANCISCO	59	45	61	39	52	0	T	-.7	T	15.5	135	11.7	167	85	58	0	0	1	0
CO DENVER	58	26	71	20	42	8	T	-.2	T	1.2	75	.4	36	74	20	0	6	0	0
GRAND JUNCTION	60	34	62	31	47	11	0	-.2	0	1.5	33	.8	62	80	34	0	1	0	0
PUEBLO	59	30	75	26	45	8	T	-.1	T	1.1	100	.6	86	80	31	0	6	1	0
CT BRIDGEPORT	37	24	43	14	31	-2	.1	-.7	T	8.9	98	7.4	140	62	34	0	7	0	2
HARTFORD	39	23	55	14	31	2	T	-.8	T	10.3	97	7.1	118	56	32	0	7	0	0
DC WASHINGTON	45	32	55	22	38	-1	.1	-.6	.1	8.6	105	5.6	117	77	40	0	4	1	0
FL APALACHICOLA	70	48	76	41	59	2	.2	-.9	.2	12.3	119	6.8	103	86	54	0	0	1	0
DAYTONA BEACH	74	47	81	38	61	0	T	-.8	T	7.6	110	4.4	92	88	37	0	0	1	0
JACKSONVILLE	74	45	82	35	59	2	T	-.9	T	8.2	90	4.7	75	94	42	0	0	1	0
KEY WEST	78	67	81	62	72	0	0	-.4	0	2.1	41	2.1	62	84	53	0	0	0	0
MIAMI	79	60	83	53	70	1	0	-.5	0	1.4	24	1.3	33	86	38	0	0	0	0
ORLANDO	78	51	82	43	65	2	0	-.8	0	4.4	63	2.8	57	91	31	0	0	0	0
TALLAHASSEE	74	40	82	31	57	0	.1	-1.2	.1	14.4	113	9.2	114	94	40	0	1	1	0
TAMPA	75	52	80	40	64	1	0	-.8	0	7.5	99	4.0	78	97	41	0	0	0	0
WEST PALM BEACH	77	57	82	53	67	0	T	-.7	T	6.3	82	3.6	72	87	42	0	0	1	0
GA ATLANTA	59	39	77	30	49	3	1.5	-.3	.8	19.4	147	11.7	139	76	35	0	2	2	2
AUGUSTA	60	35	78	27	48	-2	.5	-.5	.3	16.6	157	7.6	113	85	39	0	4	2	0
MACON	64	41	78	33	53	1	.4	-.8	.3	19.0	154	10.1	135	87	42	0	0	2	0
SAVANNAH	66	42	83	35	54	1	.1	-.8	.1	9.6	105	6.5	118	74	34	0	0	1	0
HI HILO	79	63	83	58	71	0	.4	-3.1	.2	35.4	92	14.3	69	91	60	0	0	4	0
HONOLULU	79	66	81	63	73	0	.2	-.4	.1	19.9	188	14.8	231	85	61	0	0	3	0
KAHULUI	81	65	84	63	73	1	.3	-.3	.3	11.7	126	10.4	176	86	63	0	0	3	0
LIHUE	80	68	81	66	74	2	1.3	-.2	.4	25.5	148	19.0	192	95	69	0	0	6	0
ID ROYSE	47	29	58	24	38	1	.1	-.2	.1	6.1	139	3.5	122	80	43	0	5	2	0
LEWISTON	46	31	51	24	38	-2	.1	-.1	.1	3.7	109	2.5	115	87	47	0	6	2	0
POCATELLO	48	27	62	14	37	6	.1	-.1	.1	4.6	148	2.4	120	89	42	0	7	3	0
IL CHICAGO	38	21	49	14	29	1	.2	-.2	.1	4.8	76	3.5	110	87	55	0	7	1	0
MOLINE	39	23	51	15	31	3	T	-.3	T	3.1	57	2.5	100	83	52	0	6	0	0
PEORIA	41	27	48	19	34	4	T	-.4	T	5.8	107	4.1	124	83	57	0	6	0	0
QUINCY	43	29	56	22	36	2	T	-.4	T	-.1	-.1	4.5	-.1	92	58	0	4	0	0
ROCKFORD	38	22	48	16	30	3	T	-.3	T	2.8	57	1.8	62	85	52	0	7	2	0
SPRINGFIELD	42	28	52	22	35	2	T	-.5	T	9.2	174	6.5	203	91	61	0	6	0	0
IN EVANSVILLE	53	31	76	26	42	4	0	-.9	0	13.9	136	11.0	169	79	44	0	4	0	0
FORT WAYNE	33	22	43	11	28	-2	T	-.5	T	10.3	149	6.9	157	86	62	0	7	1	0
INDIANAPOLIS	43	27	58	16	35	2	T	-.6	T	12.9	159	7.4	148	81	53	0	5	0	0
SOUTH BEND	35	21	41	7	28	0	.4	-.1	.3	6.0	33	4.3	110	85	58	0	5	2	0
IA DES MOINES	43	25	68	17	34	8	.1	-.3	T	4.1	123	3.4	162	81	50	0	6	2	0
SIoux CITY	43	25	68	19	34	8	T	-.3	T	3.7	142	2.1	117	94	63	0	6	0	0
WATERLOO	38	22	52	14	30	7	T	-.3	T	-.1	-.1	1.9	106	86	56	0	7	0	0
KS CONCORDIA	49	28	76	19	39	5	T	-.3	T	2.9	126	1.2	86	89	50	0	5	0	0
DODGE CITY	55	30	84	16	43	6	.1	-.1	.1	2.1	150	1.5	167	85	36	0	5	1	0
GOODLAND	51	26	77	19	39	6	T	-.1	T	1.7	142	.8	133	83	40	0	6	0	0
TOPEKA	52	29	73	23	40	5	T	-.3	T	3.4	94	2.4	120	81	46	0	5	0	0
WICHITA	55	31	75	25	43	5	0	-.3	0	3.8	119	2.5	156	81	42	0	3	0	0
KY BOWLING GREEN	53	32	79	28	42	1	.8	-.4	.4	-.1	-.1	8.7	91	92	52	0	4	3	0
LEXINGTON	50	30	72	20	40	3	T	-.9	T	11.1	102	7.7	110	83	46	0	2	0	0
LOUISVILLE	53	31	75	22	42	4	T	-.9	T	10.1	88	6.5	94	69	38	0	3	0	0
LA ALEXANDRIA	67	45	82	39	56	4	1.2	0	1.2	-.1	-.1	9.3	80	45	0	0	1	1	
BATON ROUGE	68	45	80	39	56	1	.5	-.7	.4	15.9	109								

Weather Data for the Week Ending Feb. 27, 1982

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. 29	PCT. NORMAL SINCE Nov. 29	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
ME SHREVEPORT	65	40	85	33	53	0	1.3	.4	1.0	8.5	55	6.8	91	94	48	0	0	0	0
ME CARIBOU	19	6	31	-6	13	-3	.3	-.2	.2	8.5	123	4.8	120	69	43	0	0	0	1
ME PORTLAND	31	18	39	9	25	0	.3	-.2	.2	8.5	123	4.8	120	69	43	0	0	0	1
MD BALTIMORE	43	28	59	19	36	-1	.8	-.9	.8	12.2	110	7.7	118	62	37	0	0	0	0
MD SALISBURY	42	28	53	15	35	-5	.8	-.9	.8	9.9	108	7.3	135	74	37	0	0	0	0
MA BOSTON	35	24	40	15	30	-2	.8	-.9	.8	13.9	117	8.5	133	93	45	0	0	0	0
MA CHATHAM	33	25	37	14	29	-1	.1	-.9	.1	16.0	117	7.4	104	59	36	0	0	0	0
MI ALPENA	31	14	41	-4	22	3	.1	-.3	.1	3.2	54	2.1	78	81	53	0	0	0	0
MI DETROIT	33	16	39	0	25	-4	.1	-.4	.1	6.8	115	4.5	129	89	55	0	0	0	0
MI FLINT	31	17	37	0	24	-2	.1	-.4	.1	3.3	65	2.1	68	97	69	0	0	0	0
MI GRAND RAPIDS	33	17	39	3	25	-1	.1	-.3	.1	4.6	79	3.3	103	87	49	0	0	0	0
MI HOUGHTON LAKE	32	13	39	-14	23	3	.1	-.3	.1	3.5	74	2.7	104	86	53	0	0	0	0
MI LANSING	32	17	38	0	25	-2	.1	-.4	.1	3.3	74	2.7	104	86	53	0	0	0	0
MI MARQUETTE	25	4	35	-14	15	-1	.3	-.1	.1	8.8	154	4.2	131	98	68	0	0	0	0
MI MUSKEGON	31	17	36	2	24	-2	.1	-.3	.1	6.7	102	5.0	132	90	68	0	0	0	0
MI SAULT STE. MARIE	26	6	37	-10	16	-1	.1	-.2	.1	7.5	123	5.0	152	89	50	0	0	0	0
MN ALEXANDRIA	30	14	39	0	22	8	.1	-.1	.1	7.5	123	5.0	152	89	50	0	0	0	0
MN DULUTH	27	9	41	-16	18	3	.3	-.1	.2	3.7	112	2.4	218	87	62	0	0	0	0
MN INT'L FALLS	24	3	35	-15	13	3	.1	-.2	.2	2.6	93	1.7	106	89	54	0	0	0	0
MN MINNEAPOLIS	35	17	49	5	26	7	.2	-.1	.2	4.0	160	3.0	200	87	57	0	0	0	0
MN ROCHESTER	33	19	40	8	26	6	.1	-.2	.1	2.8	140	1.8	150	88	62	0	0	0	0
MS GREENWOOD	61	42	78	37	52	2	1.1	-.2	1.0	1.0	10.9	8.8	52	0	0	0	0	0	0
MS JACKSON	66	42	83	36	54	3	1.3	0	1.3	15.8	112	9.7	115	93	45	0	0	0	0
MS MERIDIAN	68	43	85	38	55	4	1.3	0	1.2	16.7	111	9.8	114	85	38	0	0	0	0
MO CAPE GIRARDEAU	54	34	76	29	44	2	.1	-.6	.1	6.4	128	4.5	145	85	45	0	0	0	0
MO COLUMBIA	52	31	70	25	42	6	.1	-.4	.1	6.4	128	4.5	145	85	45	0	0	0	0
MO KANSAS CITY	51	29	73	21	40	6	.1	-.4	.1	6.7	153	3.5	170	91	47	0	0	0	0
MO SAINT LOUIS	49	30	70	23	39	2	.1	-.6	.1	9.5	153	6.2	166	97	50	0	0	0	0
MO SPRINGFIELD	57	34	79	25	45	7	.1	-.6	.1	9.5	153	6.2	166	97	50	0	0	0	0
MT BILLINGS	47	24	71	14	36	7	.1	-.1	.1	1.9	106	1.0	83	86	39	0	0	0	0
MT GLASGOW	26	7	49	-8	16	-1	.3	-.3	.2	1.7	155	1.3	217	83	57	0	0	0	0
MT GREAT FALLS	27	7	55	-10	17	-11	.8	-.6	.6	2.6	104	2.1	124	99	68	0	0	0	0
MT HAVRE	24	9	51	-3	16	-4	.1	-.1	.1	6	43	1.3	130	85	69	0	0	0	0
MT HELENA	43	20	62	13	32	4	.3	-.1	.2	1.7	131	1.4	175	85	37	0	0	0	0
MT KALISPELL	39	21	45	12	30	3	.1	-.1	.1	5.2	124	4.2	183	94	52	0	0	0	0
MT MILES CITY	37	19	58	9	28	4	.1	-.1	.1	1.3	93	1.2	133	94	63	0	0	0	0
MT MISSOULA	39	24	44	19	32	2	.3	-.1	.1	5.4	186	3.4	200	92	54	0	0	0	0
NE GRAND ISLAND	48	25	76	19	36	7	.1	-.2	.1	3.8	200	1.3	93	87	45	0	0	0	0
NE LINCOLN	48	25	74	18	36	6	.1	-.3	.1	3.4	126	1.2	67	87	50	0	0	0	0
NE NORFOLK	46	23	71	17	35	9	.1	-.2	.1	4.2	210	2.0	143	91	50	0	0	0	0
NE NORTH PLATTE	52	21	76	12	37	7	.1	-.1	.1	2.4	200	.3	38	92	38	0	0	0	0
NE OMAHA	44	27	71	20	36	8	.1	-.3	.1	3.8	152	1.5	88	85	63	0	0	0	0
NE SCOTTSBLUFF	56	21	71	12	39	8	.1	-.1	.1	3.8	152	1.5	88	85	63	0	0	0	0
NE VALENTINE	48	25	78	18	37	10	.1	-.1	.1	1.5	136	.5	63	85	25	0	0	0	0
NV ELY	55	25	65	16	40	11	.2	0	.1	1.5	136	.5	71	73	40	0	0	0	0
NV LAS VEGAS	72	48	76	45	60	9	.1	-.1	.1	2.1	111	1.5	136	86	31	0	0	0	0
NV RENO	60	29	73	22	44	6	.1	-.2	.1	1.2	100	1.2	150	68	23	0	0	0	0
NV WINNEMUCCA	54	28	68	21	41	5	.1	-.2	.1	2.8	78	1.6	80	80	23	0	0	0	0
NH CONCORD	31	14	42	-3	23	-2	.1	-.6	.1	2.1	72	.5	28	74	28	0	0	0	0
NJ ATLANTIC CITY	43	26	53	15	35	0	.1	-.8	.1	11.2	129	7.0	140	70	39	0	0	0	0
NM ALBUQUERQUE	60	32	70	29	46	4	.1	-.1	.1	9.9	39	6.0	91	88	46	0	0	0	0
NM CLOVIS	60	36	77	25	48	5	.1	-.1	.1	.6	35	.5	83	78	29	0	0	0	0
NM ROSWELL	63	34	83	25	49	3	.1	-.1	.1	-.7	-.7	-.7	81	31	0	0	0	0	0
NY ALBANY	32	15	39	7	23	-2	.1	-.6	.1	.8	57	.8	89	73	27	0	0	0	0
NY BINCHAMTON	30	16	39	3	23	-1	.4	-.1	.3	8.9	122	5.2	130	73	40	0	0	0	0
NY BUFFALO	29	19	37	7	24	-2	.2	-.4	.1	8.5	112	5.7	130	84	50	0	0	0	0
NY NEW YORK	40	28	49	18	34	-1	.2	-.4	.1	11.1	129	8.2	161	91	60	0	0	0	0
NY ROCHESTER	30	19	39	7	25	-1	.1	-.8	.1	11.8	123	6.8	121	71	37	0	0	0	0
NY SYRACUSE	31	19	40	6	25	-1	.3	-.4	.3	7.8	105	5.3	113	90	58	0	0	0	0
NC ASHEVILLE	54	32	76	26	43	2	1.3	-.6	.1	8.4	93	4.9	92	83	50	0	0	0	0
NC CHARLOTTE	57	37	80	27	47	2	1.4	-.4	.7	14.9	139	10.4	155	94	45	0	0	0	0
NC GREENSBORO	55	33	79	28	44	2	1.5	-.6	.9	15.8	145	9.3	133	83	39	0	0	0	0
NC HATTERAS	52	39	62	33	46	-1	.9	-.2	.9	14.5	145	7.7	120	74	39	0	0	0	0
NC NEW BERN	61	38	82	33	49	1	.9	-.2	.9	20.1	153	12.8	160	87	55	0	0	0	0
NC RALEIGH	56	35	81	26	46	2	1.1	0	1.0	-.7	-.7	11.4	154	81	39	0	0	0	0
NC WILMINGTON	61	39	81	32	50	0	1.4	-.6	1.4	15.2	154	10.2	159	81	38	0	0	0	0
ND BISMARCK	27	6	53	-13	17	0	.6	-.3	.5	17.9	177	12.2	197	74	39	0	0	0	0
ND FARGO	27	8	37	-9	18	4	.4	-.3	.1	1.5	107	1.0	111	99	74	0	0	0	0
ND GRAND FORKS	26	7	39	-8	17	5	.4	-.3	.3	2.7	208	1.9	238	91	69	0	0	0	0
ND WILLISTON	29	10	53	-9	19	2	.1	0	.1	-.7	-.7	1.9	238	97	75	0	0	0	0
OH AKRON-CANTON	37	22	50	9	29	0	.4	-.2	.2	2.4	133	1.8	138	86	63				

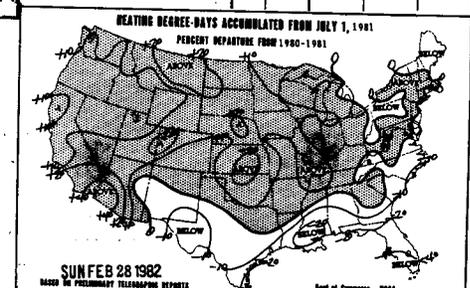
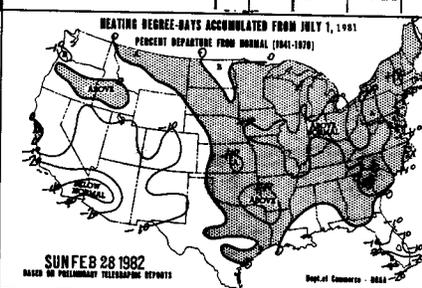
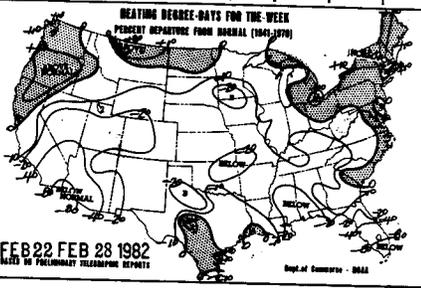
Weather Data for the Week Ending Feb. 27, 1982

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. 29	PCT. NORMAL SINCE Nov. 29	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	40	24	58	14	32	0	T	.5	T	11.8	155	8.1	162	90	60	0	6	2	0
TOLEDO	31	17	38	0	24	-5	.2	-.3	.2	7.2	116	4.7	131	91	65	0	6	3	0
YOUNGSTOWN	34	18	47	0	26	-2	.2	-.5	.2	8.3	101	5.6	110	89	56	0	7	1	0
OK OKLAHOMA CITY	62	36	83	28	49	6	T	-.3	T	5.4	146	4.7	214	75	34	0	3	0	0
TULSA	62	38	81	31	50	0	T	-.5	0	4.4	38	4.3	143	83	43	0	1	0	0
OR ASTORIA	48	36	53	31	42	-2	1.4	-.5	.8	38.9	136	24.6	148	89	59	0	1	6	1
BURNS	37	21	44	13	29	-4	.4	-.1	.3	5.9	123	2.6	93	88	57	0	6	3	0
MEDFORD	52	31	58	27	42	-1	.7	-.2	.7	13.3	140	4.8	87	99	57	0	4	3	1
PENDLETON	47	30	51	26	38	-3	.2	0	.2	4.4	102	2.2	88	87	58	0	5	3	0
PORTLAND	48	37	52	34	43	-1	.7	-.2	.4	21.8	135	12.2	131	94	61	0	0	4	0
SALEM	48	32	54	28	40	-4	.5	-.6	.3	21.7	117	11.8	107	94	66	0	4	4	0
PA ALLENTOWN	36	23	47	12	30	-1	.2	-.5	.2	8.9	32	5.8	105	86	48	0	7	3	0
ERIE	31	19	42	4	25	-2	.3	-.2	.2	7.7	100	5.0	114	77	57	0	7	3	0
HARRISBURG	39	26	47	18	33	-2	T	-.6	T	7.9	95	5.5	115	85	43	0	5	0	0
PHILADELPHIA	41	27	51	17	34	-2	.1	-.6	.1	12.4	143	7.5	153	77	43	0	6	2	0
PITTSBURGH	38	21	53	6	29	-2	T	-.6	T	9.3	119	6.3	131	70	39	0	7	2	0
SCRANTON	33	20	43	6	27	-2	.5	0	.4	6.8	103	5.1	138	77	55	0	7	3	0
RI PROVIDENCE	36	24	41	14	30	-1	T	-.9	T	14.0	126	9.2	142	67	36	0	6	1	0
SC CHARLESTON	61	38	80	29	49	-2	.4	-.5	.4	11.5	122	5.8	102	84	38	0	2	2	0
COLUMBIA	61	38	81	29	49	0	1.0	0	.6	17.3	162	8.1	119	81	35	0	4	2	1
FLORENCE	58	38	81	30	48	-1	1.0	-.2	.9	--	--	9.2	159	75	36	0	3	2	1
GREENVILLE	59	38	79	30	48	3	.7	-.5	.4	16.6	130	11.5	140	72	34	0	2	2	0
SD ABERDEEN	34	21	54	8	27	9	--	--	--	--	--	--	--	88	66	0	6	--	--
HURON	40	24	58	12	32	11	.1	-.1	.1	2.8	175	1.5	136	95	71	0	7	2	0
RAPID CITY	43	19	73	4	31	4	.3	-.1	.2	1.1	73	.8	80	86	57	0	6	2	0
SIoux FALLS	43	23	70	13	33	11	T	-.3	T	1.6	70	.9	56	91	60	0	7	2	0
TN CRATTANOOGA	58	37	78	30	47	3	1.5	-.2	1.0	20.7	128	14.3	139	80	36	0	2	3	2
KNOXVILLE	55	37	75	27	46	2	1.1	-.1	.6	15.5	110	11.6	129	87	45	0	2	3	1
MEMPHIS	56	39	78	32	48	2	.9	-.3	.7	13.6	34	10.8	117	83	49	0	1	3	1
TX NASHVILLE	55	34	82	29	45	2	1.0	-.1	.6	19.9	144	11.4	130	88	44	0	2	3	1
ABILENE	64	40	84	30	52	3	1.0	-.8	1.0	2.9	34	2.2	116	79	39	0	3	1	1
AMARILLO	62	31	82	19	46	5	T	-.1	T	.7	41	.6	67	79	23	0	3	0	0
AUSTIN	67	47	86	38	57	2	.5	-.2	.3	2.1	29	1.6	35	85	51	0	0	2	0
BEAUMONT	68	47	81	37	58	1	1.0	0	.9	9.2	68	5.4	68	96	50	0	0	2	1
BROWNSVILLE	75	51	85	42	63	-2	.6	-.3	.5	1.5	36	.8	30	96	47	0	0	2	1
CORPUS CHRISTI	71	49	82	40	60	-1	4.9	4.4	4.7	7.6	143	6.3	180	98	57	0	0	2	1
DEL RIO	68	46	84	30	57	-1	1.8	1.5	1.2	2.8	122	2.6	153	91	56	0	1	3	1
EL PASO	66	37	81	31	52	1	.5	-.4	.5	1.0	77	.8	100	78	34	0	1	2	1
FORT WORTH	65	41	87	31	53	2	1.9	1.3	1.6	5.1	85	4.4	113	78	43	0	2	2	1
GALVESTON	66	50	76	39	58	1	2.8	2.2	1.7	9.4	101	7.6	149	93	63	0	0	2	2
HOUSTON	70	46	85	37	58	1	.9	-.1	.5	9.1	81	3.4	50	98	53	0	0	2	0
LUBBOCK	65	37	84	28	51	7	.1	0	.1	1.2	80	.5	56	77	30	0	3	1	0
MIDLAND	65	38	84	24	52	2	.1	-.1	.1	.4	25	.6	60	86	35	0	3	1	0
SAN ANGELO	63	39	82	25	51	-1	1.2	1.0	1.2	2.7	108	2.7	150	96	52	0	3	2	1
SAN ANTONIO	68	44	83	31	56	0	.7	-.2	.7	3.0	59	1.9	54	95	50	0	1	2	1
VICTORIA	69	48	83	39	59	1	2.4	1.8	2.0	7.2	118	5.8	149	95	54	0	0	2	1
WACO	66	42	87	34	54	2	1.3	-.7	1.0	3.7	58	3.3	80	92	50	0	0	2	1
WICHITA FALLS	65	35	86	26	50	2	.4	-.1	.4	3.1	89	2.2	110	92	40	0	3	2	0
UT BLANDING	49	30	58	33	40	5	0	-.2	0	1.7	53	1.5	83	84	47	0	0	0	0
CEDAR CITY	60	34	67	27	47	12	0	-.2	0	--	--	3.6	240	65	25	0	3	0	0
SALT LAKE CITY	56	32	68	25	44	8	.2	-.2	.1	3.5	38	1.7	71	82	38	0	4	2	0
VT BURLINGTON	24	12	38	3	18	-3	.1	-.4	T	6.3	105	4.3	126	80	49	0	7	2	0
VA NORFOLK	47	34	58	29	41	-2	1.3	-.5	1.3	15.1	134	9.1	144	78	42	0	4	2	1
RICHMOND	48	33	63	25	41	0	1.5	-.7	1.2	12.4	133	7.3	130	84	45	0	4	2	1
ROANOKE	51	31	74	20	41	1	1.0	-.2	1.0	12.4	139	8.6	156	75	33	0	5	1	1
WA COLVILLE	40	27	53	25	33	0	.2	-.1	.2	6.7	116	4.1	121	89	77	0	4	2	0
QUILLAYUTE	43	32	47	29	38	-5	2.7	-.2	.6	55.9	131	39.0	155	99	72	0	5	7	3
SEATTLE-TACOMA	46	35	51	33	41	-2	.8	-.2	.6	17.6	108	12.4	128	83	48	0	0	5	1
SPOKANE	41	28	50	23	35	0	.1	-.3	T	5.6	32	3.3	83	87	52	0	6	4	0
YAKIMA	46	27	51	24	37	-2	T	-.1	T	4.6	131	1.8	86	82	44	0	7	1	0
WV BECKLEY	43	24	69	16	34	0	.7	-.2	.6	9.2	88	5.8	87	94	48	0	7	3	1
CHARLESTON	49	28	71	18	38	0	.4	-.4	.3	9.8	99	7.0	111	85	45	0	6	2	0
HUNTINGTON	48	27	70	17	38	0	.1	-.7	.1	9.7	103	6.9	119	74	42	0	6	1	0
PARKERSBURG	45	26	62	13	36	0	T	-.8	T	6.0	61	4.0	60	79	43	0	6	1	0
WI GREEN BAY	31	13	39	-2	22	2	T	-.2	T	2.8	76	1.5	68	95	63	0	7	1	0
LA CROSSE	36	17	46	4	27	4	.1	-.2	.1	2.6	87	1.5	83	97	55	0	7	1	0
MADISON	37	19	45	11	28	5	.1	-.2	.1	2.6	74	1.6	80	95	60	0	7	1	0
MILWAUKEE	34	19	40	12	27	2	.1	-.2	.1	4.5	96	3.1	115	86	55	0	7	1	0
WAUSAU	35	14	45	-6	24	6	.1	-.2	.1	--	--	1.9	83	91	51	0	7	1	0
WY CASPER	55	21	68	6	38	10	T	-.1	T	1.5	115	1.2	133	75	24	0	6	2	0
CHEYENNE	52	24	65	14	38	8	0	-.1	0	1.2	80	.6	67	82	28	0	6	0	0
LANDER	50	23	65	13	37	9	.1	-.2	.1	.6	35	.7	58	74	22	0	6	1	0
SHERIDAN	47	21	76	7	34	7	.1	-.1	.1	1.2	55	.9	64	80	37	0	6	2	0
PR SAN JUAN	84	72	89	69	78	2	.3	-.3	.3	22.5	203	8.7	147	79	52	0	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING FEB. 28, 1982.
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE\*, SEASONAL ACCUMULATION +, and DEPARTURE FROM 1980-81. Rows list various states and cities with their corresponding HDD values.



## National Agricultural Summary

February 22-28, 1982

**HIGHLIGHTS:** Farmers in the Southeast resumed land preparation early in the week. In the extreme South, planting of crops began. However, cold, wet weather at the end of the week halted fieldwork once again. Farmers had 2 to 4 days suitable for fieldwork in this region. Rain or snow fell over most of Texas and parts of Oklahoma. The precipitation was very beneficial to winter grains, pastures, and recently planted crops. Winter wheat was in fair to good condition. Warm weather encouraged early spring growth in southern areas. The crop was greening as far north as Nebraska and in parts of the Corn Belt. Corn planting was underway across the South from Texas to Georgia and sorghum planting gained momentum in Texas. Tobacco growers prepared plantbeds and, in some areas, seeded the crop. Vegetable planting and harvesting remained active in the South. Fruit growers pruned and sprayed trees. Pastures were in fair to good condition and livestock were in mostly good condition.

**SMALL GRAINS:** Winter wheat was in fair to good condition in nearly all areas of the Nation. Above-normal temperatures melted most of the remaining snow cover and encouraged early spring growth in southern areas. The crop was greening as far north as Nebraska and southern areas of the Corn Belt. Kansas wheat was in good condition. Moderate temperatures encouraged the crop to break dormancy in many areas. Cattle were being moved back onto wheat pastures as field conditions permitted. Montana winter wheat was in fair to good condition with wind damage reported light. Snow provided fair to good protection against the elements. Producers in the Corn Belt topped wheat when conditions permitted. Standing water in low spots threatens hay and fall-planted grain in Indiana. Small grains in Texas responded to warmer temperatures and moisture. Scattered showers from the Low Plains through the Blacklands to the Coast provided much-needed moisture for wheat. However, short moisture supplies persist on the northern High Plains and Edwards Plateau. Medium-to-heavy greenbug damage was reported in the Low Plains and Cross-Timbers areas. Spraying operations were underway. In Arizona, wheat and barley responded well to recent rainfall and the warmer weather. Earliest plantings were developing heads rapidly.

**OTHER CROPS:** Florida's sugarcane harvest continued active, but neared completion. Young cane was in fair to good condition. Corn planting was underway across the South from Texas to Georgia. However, at the end of the week wet soils delayed planting and land preparation. Land preparation for the new Arizona cotton crop continued. Planting started in some areas of the State. Sorghum planting began in Texas from the Blacklands southward. Rain interrupted the seeding, but planting was in full swing as fields dried. Tobacco growers prepared plantbeds and seeded the crop in many areas. Transplanting was underway in Florida on a limited basis. Georgia plants were in good condition.

**FRUITS AND NUTS:** Deciduous fruit growers pruned trees, applied dormant sprays, and planted new trees.

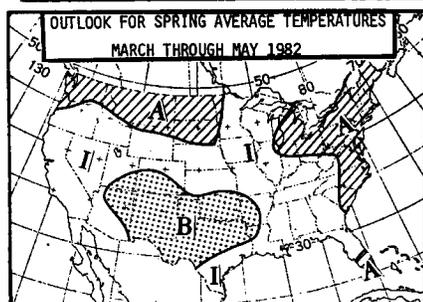
Florida's citrus trees continued to show improvement. Cool temperatures and moist conditions dominated; however, irrigation remained active in the drier locations. New growth and bloom bud development continued, with a few groves showing full blooms. The early and mid-season orange harvest slowed, but grapefruit picking was very active.

Arizona's citrus groves remained in mostly good condition. Growers harvested lemons, tangerines, Valencia oranges, and a limited volume of grapefruit.

In California, early variety almonds were nearly in full bloom; about 50% of the mid-season varieties had bloomed. Producers harvested Navel oranges, lemons, tangerines, and tangelos. Movement of bee colonies into orchards continued.

**VEGETABLES:** Mild days and cool nights prevailed in Florida's vegetable growing areas. Irrigation was active in most areas. Total vegetable shipments increased 11% from the previous week. The only vegetables registering a decline were chinese cabbage, cucumbers, lettuce, and okra. Supplies of cabbage, celery, sweet corn, peppers, radishes, peas, and squash were about steady. The strawberry harvest continued at peak activity. Watermelon planting remained active in the north; crop growth was good in the south. Warmer weather in Arizona accelerated vegetable growth. Rainy weather slowed the lettuce harvest in the Yuma area. Lettuce for later winter and early spring harvest was growing very well. Watermelon and cantaloupe planting continued active. In the Rio Grande Valley of Texas, growers harvested cabbage, broccoli, carrots, lettuce, and spinach as weather permitted. Watermelon planting continued; some replanting was necessary. The onion harvest started but was interrupted by rain. Cabbage, carrots, and lettuce were harvested in the San Antonio-Winter Garden area. Onions made good growth in the Trans-Pecos region. Land preparation for potato planting neared completion; preplanting irrigation was underway. The California asparagus harvest was underway in the Delta and Desert areas and increased in volume in the Salinas Valley. Celery harvesting was past the peak in the Imperial Valley, but increasing in the Palo Verde Valley. Lettuce harvests increased rapidly in the Blythe area, but declined in the Imperial Valley. Spring potato planting was underway in the Kern area. Strawberry harvests remained slow on the South Coast. Tomato planting for fresh market and processing was active.

**PASTURES AND LIVESTOCK:** Pastures in the South were generally in fair to good condition as warmer weather promoted growth of grasses. Although recent rainfall helped restore soil moisture, pastures remained dry. Supplemental feeding continued active in Texas. Spring calving and lambing became more widespread. Livestock were in good condition.



**A** ABOVE NORMAL  
60% CHANCE OF OCCURRENCE

**B** BELOW NORMAL  
60% CHANCE OF OCCURRENCE

**I** INDETERMINATE  
50% CHANCE OF ABOVE NORMAL  
50% CHANCE OF BELOW NORMAL

## National Weather Summary

(Continued from page 1.)

and from Tennessee and southern Kentucky through the Appalachians to eastern West Virginia. Heavy snow covered the area from western South Carolina to southern Virginia and was continuing in southern Virginia as the week ended.

## 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 normal. Rainfall reported at all stations over weekend.

Fieldwork: 3.9 days. Soil moisture adequate to surplus. Activities: Routine farm chores, planning for this year's crops, pruning fruit and pecan trees, early planting of corn and some vegetables. Applying nitrogen to wheat. Conditions: Livestock, pastures fair; pasture feed short; stored feed adequate; wheat fair to good. Plowing 34%; fieldwork behind.

**ARIZONA:** Fair, mild, early week. Storm 24th, 25th produced rain eastern two-thirds of State. Amounts mostly 0.25 to 0.75 in. Average temperatures 2 to 8° above normal.

Wheat, barley responded well recent rains, warmer temperatures. Earliest plantings rapidly developing heads, later plantings all stages. Land preparations, planting cotton active. Sugarbeets good top, tap root development. Alfalfa hay growth continued following recent warmer temperatures, rain. Newly planted, old renovated fields growing very well, harvesting increasing. Land preparations well advanced. Planting safflower, silage corn. Recent warmer weather accelerated growth iceberg lettuce, mixed vegetables. Lettuce harvest Yuma area slowed due rainy weather, depressed market. Harvest mixed vegetables, made very good progress. Lettuce for later winter, early spring harvest growing very well. Potatoes, dry onions good growth. Planting, stand establishment watermelons, cantaloups continued. Harvest lemons, tangerines, limited grapefruit, Valencia oranges active. Citrus groves remained mostly good condition, flushed new growth. Bloom increasing lemons, just starting most other varieties. Ranges mostly fair condition. Livestock fair to good. Warm weather brought good grass growth, decreased need for supplemental feed. Water supplies adequate, some northern areas had surplus.

**ARKANSAS:** Temperatures were slightly above normal. Rainfall was spotty with only a few stations receiving over 1.00 in. Highest temperature 85°, lowest 21°. All departures from normal ranged from 5 to -3°. Most rainfall 1.74 in., least zero.

Some field preparation took place during the first part of the week but the major field activity continued to be nitrogen applications on wheat. Wheat began to green up and a small number of cattle were grazing on fescue and wheat. Snow during the last part of the week temporarily stopped field activity. Soil moisture remains adequate.

**CALIFORNIA:** Warmer weather stimulated crop growth. Late plantings small grains complete. Field preparations for cotton, sugarbeets and safflower underway. Spraying weeds continues. Alfalfa fields showing growth. Early varieties almonds nearly full bloom. Mid-blooming varieties about 50% bloomed. Early varieties peaches beginning pink-bud stage. Picking, packing Navel oranges, lemons, tangerines, and Minneola tangelos continued. Artichoke harvest increasing Central Coast. Asparagus harvest underway in Delta, Desert areas, increasing Salinas Valley. Broccoli harvest increasing Central Coast, harvest declining Desert. Carrot harvest active. Cabbage harvest active Desert and San Joaquin Valley. Desert harvest complete within one week. Cauliflower harvest increasing Central Coast, appearance quality variable. Celery harvest active Imperial although past peak. Harvest spring crop increasing Palo Verde Valley. Lettuce harvest declining Imperial Valley, conclude two weeks. Harvest Blythe increasing rapidly, expected continue increasing.

Spring potato planting underway Kern District. Strawberry harvest remains slow, South Coast. Tomato planting for fresh, processing active. Warmer temperatures gave grass boost growth. Movement bee colonies into orchards continues. Calving, lambing active northern counties.

**COLORADO:** Week began and ended with mild spring-like temperatures. Some record breaking temperatures which reached 60 to 70° in the east. Colder weather prevailed in the mountains with temperatures in the 20 to 30° range. Some mountain locations reported rain and light snow during the middle of the week. Temperatures across the western slope range from 40 to 50°.

**FLORIDA:** Below normal temperatures Panhandle, north; near to above normal, central, south Peninsula. Generally mild days, cool nights. Scattered frost north, patchy frost cooler locations central, 23rd. Spotty showers but most amounts less than 0.25 in. and many locations received none.

Soil moisture mostly adequate west, upper north, short to adequate in central, south. Land preparation active. Tobacco transplanting continues but slow. Planting of early corn underway in west. Topdressing of wheat, oats about complete. Small grains fair to good condition. Sugarcane harvest remains active but nearing completion. Young cane fair to good condition. Relatively cool temperatures with little or no rain slowed growth of permanent pastures. Frost hit pastures some central, northern areas. Grazing conditions varied from very poor, some central localities, to fair to very good elsewhere. Cattle mostly fair to good condition, except some in poor flesh in dry localities where hay, grazing short. Citrus groves continue improving, cool temperatures and moist conditions. Some irrigation continues in drier locations. New growth and bloom bud development progressing, some groves full open bloom. Early and mid orange harvest slowing. Grapefruit picking very active. Cooler weather with mostly mild days, cool nights prevailed in vegetable areas. Daytime highs mostly in 70's; nighttime lows, upper 40's to 60's. Skies clear to partly cloudy with a few light showers. Most areas dry. Winds light to moderate. Irrigation active. Total shipments increased 11% from previous week. Harvest gained snap beans, carrots, cauliflower, eggplant, escarole, parsley, potatoes, strawberries, tomatoes. Supplies about steady cabbage, celery, sweet corn, peppers, radishes, southern peas, squash. Volume declined Chinese cabbage, cucumbers, lettuce, okra. Strawberry harvest continues at peak activity. Watermelon planting continues in northern areas. Crop growth, progress remains good in the south.

**GEORGIA:** Temperatures were above average with record high readings midweek. Temperatures were 2° above normal extreme south to over 7° above normal northeast. Week dry with scattered rain less than 0.10 in. in the north portion early on 26th. Weekend of 27th and 28th cold, cloudy, and wet with up to 7.00 in. of snow in the mountains 26th. Remainder of north received 1.00 to 2.00 in. of snow and ice. Precipitation from up to 2.00 in. northern third to less than 0.10 in. southeast.

Soil moisture mostly adequate to surplus. Field activity on increase southern two-thirds as soils dried. Small grains fair to mostly good. Tobacco plants in good condition. Corn planting underway southern areas. Pastures mostly fair to good. Cattle fair to mostly good, hogs good. Topdressing small grains active central and southern areas.

**HAWAII:** Weather variable. Some isolated thunder-showers slowed crop progress. Field activities affected by muddy conditions. Weather most areas generally favorable. Crop progress was fair to good. Normal planting schedule returning for some crops. Vegetables: Supplies increasing. Leafy crop production up. Bananas: Supplies light. Papayas: Harvesting up and active most orchards. Pineapples: One of the pineapple canneries expected to start canning from March 3rd after normal winter shutdown for the past three months. Sugar: More mills back to grinding after their annual repair. Pastures: Generally fair to good.

**IDAHO:** Temperatures averaged from near normal to 7° above normal. High of 63° in Emmett, low of -35° in Stanley. Rainfall was recorded in all localities in varying amounts.

Warmer temperatures melted the snow pack and caused flooding and run off problems. Though fields were clear, they remained too muddy for fieldwork to begin. Major activities included potato and grain marketing, crop planning, and paperwork. Calving and lambing were well underway and feed supplies remained adequate.

**ILLINOIS:** Temperatures 1 to 5° above normal, reached 80° south. Precipitation trace to 0.30 in.

Activities: Livestock feeding and care, general farmwork, ordering seed and supplies.

**INDIANA:** Near normal temperatures ranging from 7 to 76° and averaging from 27 to 46°. Practically no precipitation. Moderate flooding from melting ice and snow. Roads damaged from thawing. Sunshine 72% of possible.

Soils frozen 1 to 2 feet. Activities: Ready-ing equipment, cleaning barns and hauling manure, sowing clover, topdressing wheat where conditions permit, stocking seed and chemicals, caring for livestock and usual chores. Some small grains greening up in south, but pooling and water freezing in low spots threaten overwintering crops.

**IOWA:** Temperatures average about 7° above normal and precipitation totaled less than 0.10 in. Temperatures reached into the 60's over the southwestern two-thirds the 22nd but daily highs were mostly 30's and 40's thereafter. The coldest mornings were the 25th and 26th with lows to 1° at Cresco the 26th. Snow-melt continued with only 1 or 2 in. snow left over the northeast and north central parts of the State.

**KANSAS:** Less than 0.20 in. moisture at midweek from local 1.00 to 2.00 in. snows southwest, traces to none at all elsewhere. Temperatures averaged 45° southeast and 38 to 42° elsewhere or 2° above normal in the central district and 4 to 6° above normal elsewhere.

Wheat condition good. Moderate temperatures encouraged crop to break dormancy in warmer areas. Cattle moving back to wheat pasture as field conditions permit. Sowing of oats and spring barley getting underway. Topsoil moisture mostly adequate, subsoil moisture short on southwestern continuous cropland. Fieldwork: 1.0 day suitable.

**KENTUCKY:** Temperatures averaged around 4° above normal with readings well above normal 23rd and 24th and well below normal 25th and 26th. Precipitation was generally less than 0.50 in. falling the middle of the week and again on 27th.

Some drying occurred, but most fields remain too wet for much activity. Winter grains and livestock in satisfactory condition.

**LOUISIANA:** Rainfall 1.00 north, 0.50 south. Average temperatures 1 to 2° below normal, but daily highs were in low 80's first half, 40's and 50's last half.

Soil moisture adequate. Days suitable: 4.5. Spring plowing 10% 1982, 22% 1981, 15% 1980. A

few fields of corn planted. Winter wheat rated fair to good. Crop jointing in the south. Sugar-cane producers have begun shaving and off-barring fields where soils sufficiently dry. Strawberries blooming. Production should begin about mid-March. Vegetables rated poor to fair. Pastures fair condition; topdressing widespread. Ryegrass and other cool-season grasses have begun active growth. Livestock rated fair to good.

**MARYLAND AND DELAWARE:** Temperatures averaged 1° below normal. Highs mid-upper 40's and low upper 20's to low 30's. Precipitation was minimal. Greatest amount was at Oakland with 0.38 in. Least reported was a trace at Glen Dale, and Washington National. Average of remaining 12 stations was 0.16 in.

**MICHIGAN:** Temperatures averaged from 6° below to 2° above normal. The western Upper and the northern Peninsula were above normal with the eastern Upper, central and southern Lower Peninsula below normal. The warmest temperatures occurred during the first portion of the week before a cold front brought the weeks coldest temperatures about mid-week. Precipitation was mostly light with most stations recording less than 0.25 in. All divisions have received less than normal amounts of precipitation for the month of February.

**MINNESOTA:** Another fairly mild week. Temperatures averaged from 6° above normal south to 1° above normal far north. Average temperatures ranged from 30° southwest down to 12° far north. Extremes: 56° at Pipestone and -16° at Duluth for the coldest. Precipitation was generally less than 0.15 in. except up to 0.37 in. at Fargo-Moorhead and 0.33 in. at Duluth. Snowfall was less than 3 in. except 6 in. Fargo-Moorhead and 5 in. in Duluth. Snow on the ground at week's end ranged from only a trace southwest to generally 2 to 12 in. elsewhere, except 12 to 23 in. north central and north-east.

**MISSISSIPPI:** The week began with a warming trend that peaked the 23rd with temperatures in the 80's over most of the State. Maximum temperatures that day were near 20° above normal and several new records were established. Cold air spread over most of the State the 24th with rain beginning in the northwest and extreme north on the 25th. Rain spread over the entire State by noon the 26th with most of the amount occurring 26th. The rain was over by sunrise on 27th except for isolated light amounts. The greatest daily rainfall was 1.90 in. at Gulfport.

Soil moisture surplus. Days suitable for fieldwork: 3.0. Hay and roughage and feed grain supplies continue adequate. Wheat, pasture and livestock condition fair.

**MISSOURI:** Temperatures ranged from 2 to 7° above normal and precipitation was generally less than 0.10 in.

Livestock condition about normal for this time of year. Hay supplies adequate and death loss not excessive. Below normal temperatures and widespread snowfall during the first part of the month were followed by unseasonably warm, dry weather during the last part of February.

**MONTANA:** Very mild first day of week. Snow and colder the next two days. Dry, mild weather remainder of week. Modified Arctic air held over north central and northeast, also portions of central area. Temperatures over those areas 2 to 18° below normal. Elsewhere temperatures 2 to 8° above normal. Highest 75° at Broadus, lowest -18° at West Yellowstone. Precipitation was generally moderate except for portions of the south central and northeast and all of the southeast, which had light precipitation.

Winter wheat condition fair to good, wind damage light. Snow cover protection fair to good. Live-

stock feed supplies for balance of winter adequate. Calving and lambing both 15% complete. Grazing open to difficult.

NEBRASKA: Temperatures: 5 to 11° above normal. Precipitation: Scattered light rain in southeast amounted to less than 0.05 in.

Winter wheat good. Green-up underway. Moisture supplies tight in Panhandle with more moisture needed for good crop development. Percent of corn and sorghum stubble being pastured 30%, 35% last year. Hay and forage supplies adequate to above. Feedlots muddy.

NEVADA: Near record high temperatures start of week moderated to near normal last half of period. Temperatures averaged 5 to 10° above normal. Light rain along northern border and northeast. Gusty winds widespread west end of period but no precipitation reported.

Fieldwork gaining momentum extreme south. Mild weather easy on newborn calves and lambs. Lack of snowcover at lower elevations made feeding operations easier.

NEW ENGLAND: Precipitation: Early week, mostly showers or flurries over New England, except Maine where heavy snowfall occurred: Houlton, 12 in.; Eastport, 8 in.; Limestone and Caribou, 6 in. Melted precipitation slight over New England except Maine: 0.79 in. at Houlton, 0.47 in. at Eastport and 0.63 at Limestone. Temperatures: Averaged 10° below normal. Warmest day 22nd, 45° at North Conway, NH; Hartford and Groton, CT. Coldest reading the 28th, -26° at Houlton, ME.

NEW JERSEY: Temperatures were 5° below normal, averaging 28° north, 32° south and 32° coastal. Extremes: 9° at Charlotteburg and 53° at Toms River, Hammonton and Pomona. Precipitation was much below normal, averaging 0.02 in. north, none south and 0.03 in. coastal sections. Heaviest 24-hour total reported: 0.10 in. at Long Branch.

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

NEW MEXICO: Temperatures were above normal with cold setting in late in the week. Precipitation received over most areas late in the week.

Outdoor activity proceeded unhampered until late in the week when rain and snow fell over most of the State. Soil moisture remains in a short to adequate supply depending on location. Barley in good condition with about half being grazed. Irrigated winter wheat in good condition and showing good growth. Approximately 70% being grazed. Dryland winter wheat in fair to good condition depending on precipitation received. Field preparation and pre-irrigating of cotton and chile pepper fields underway. Ranges in fair to good condition in most areas. Livestock remain in good condition with supplemental feeding continuing. Calving and lambing underway.

NEW YORK: Cool, dry weather persisted. Two to four in. of snow fell over the Finger Lakes, southern tier, and the Catskills on 24th as a storm moved east through the middle Atlantic States. An in. or less fell in the Adirondacks 27th. Water content ranged from a trace in the lower Hudson Valley to 0.40 in. in Elmira. Temperatures averaged 2 to 3° below normal. Low temperatures fell well below zero in northeast sections late in the week and over the weekend.

NORTH CAROLINA: Temperatures: 2 to 4° below normal. Precipitation: Generally 1.00 in. or more.

Fieldwork: 3.8 days suitable. Soil moisture: 77% adequate and 23% surplus. Conditions: Wheat fair to mostly good; oats fair to mostly good; barley fair to mostly good; rye fair to mostly good; pasture mostly fair. Supplies: Hay and roughage mostly adequate; feed grains mostly adequate. Farm activities: Seeding tobacco plant beds, topdressing small grains, caring for stock.

NORTH DAKOTA: Average temperatures ranged from 6° above normal northeast to 9° below normal south central. Extremes ranged from -18° central on the 26th to 67° southwest on the 22nd. Precipitation fell mainly in the west and south. Average ranged from 0.17 to 0.45 in. Greatest snow depth reported on the 28th was 20 in. north central. Milder temperatures reducing snow cover. Average across the State about 7 in. southwest down to 3 in. average.

Local shortages of livestock feed still occurring. Some hay and grain being purchased overall. Supplies should be adequate with a normal spring. Calving and lambing underway. Calving 7% completed, lambing 15%. Farmers securing crop production inputs. Some seed cleaning and treating being done. Actual fieldwork still several weeks away.

OHIO: Although temperatures warmed into the upper 40's and 50's, high temperatures for week averaged as much as 8° below normal. Soil temperatures remained at freezing to mid 30's. Little precipitation.

Winter wheat greening in southern areas. Spring seeding of bedding plants underway.

OKLAHOMA: Precipitation varied from zero north central and northeast to 1.02 in. southeast. Temperatures averaged normal west central and south central and from 1 to 4° above normal elsewhere. The northeast averaged the greatest above normal.

Cold, wet weather first half February improved topsoil moisture but extremely hard on newborn calves. As of March 1, topsoil and subsoil adequate to surplus 95% counties. Wheat fields good or better condition all districts except south central, east central and southeast where 50% or more acreage fair condition. Cheat, mustard, and wild buckwheat causing problems northwestern third State. Greenbug activity throughout western half State.

OREGON: Maximum temperatures about the same as previous week, but nighttime lows were about 10° cooler, dropping the mean temperature for the week to 45° along the coast and Willamette Valley, 40° in the north central areas, and 28 to 38° in the northeast and south central sections of the State. Precipitation was considerably lighter than the previous week and measured from 1.30 to 4.15 in. at coastal stations, up to 2.24 in. in the Willamette Valley, and amounts of less than 0.53 in. in the extreme eastern section. South central areas received up to 1.22 in.

Soil moisture supply surplus in west, adequate to surplus in east. Winter wheat condition good. Spraying continues as weather and field conditions permit. Some disease in western fields, but to what extent not known at this time. Eastern grain fields experiencing above normal weed problems. Filbert pollination complete. Dormant sprays going on pears. Plum, peach, and cherry buds expanding in Willamette Valley. Training continues in berries. Livestock condition good. Range and pasture condition fair to good. Feed supplies adequate. Good snow pack in mountains.

PENNSYLVANIA: After only one week of milder than normal conditions, temperatures again averaged below normal as they have since the beginning of 1982--this week averaging 2 to 6° below normal. Brief warming 23rd when maximum reached 40's and 50's (58° southwest) but much colder 24th through 26th when minimum dipped to teens and lower (-14° north central). Driest week since end of November when totals were traces south to 0.25 in. north where 4 in. new snow measured 24th.

PUERTO RICO: Island average rainfall 0.58 in. or 0.06 in. below normal. Highest total 2.16 in. Temperatures averaged about 77 to 76° on Coasts and 70° Interior Divisions. Extremes: 90 and 49°.

**SOUTH CAROLINA:** Average temperatures were well above normal through the midweek, reaching the upper 70's and low 80's by 24th. Cold air settled into the State again the latter part of the week, with high temperatures in the 30's. Precipitation was normal. This occurred as rain, freezing rain, sleet and snow the latter part of the week.

Some land prepared for spring planting. Tobacco beds in good condition. Farm machinery being maintained. Caring for livestock and other general farm chores.

**SOUTH DAKOTA:** Temperatures mostly above normal. Average temperatures ranged 1 to 10° above normal. Extremes: 78 and -12°. Snow over northern half of State ranging from 2 to 8 in. Annual precipitation totals mostly below normal except for parts of the north central and central regions.

**TENNESSEE:** The cold front 24th ended a warm spell that saw Nashville reach 82°. Temperatures, however, averaged in the low and mid 40's which were normal for late February. Precipitation late in the week ranged from 0.50 in. in the Jackson area to near 1.50 in. in the southeast.

A few farmers took advantage of mild weather to prepare land for spring planting.

**TEXAS:** Weather: First dominated by high pressure, fair skies, warm temperatures. Cold front entered the Texas Panhandle 23rd, moved south reaching Coast early 25th. Cloudy skies north of front 24th. Rain, sleet, snow spread over the State 25th. Heavy snow portions northwest Texas, along Red River 25th. Weekend brought clearing skies, warming temperatures. Temperatures near normal. Above normal precipitation over all but Northwest Texas.

Crops: Warm, open weather record breaking temperatures first part week followed by scattered showers, freezing temperatures week's end. Scattered snow Panhandle but not enough alleviate short moisture conditions Northern High Plains. Corn, sorghum planting underway Blacklands southward; rain interrupted seeding many areas, planting full swing fields dry. Small grains responding recent moisture warmer temperatures. Late oats being planted scattered areas. Wheat fields made good growth with warmer temperatures. Scattered showers Low Plains, through Blacklands to Coast provided much-needed moisture many wheat fields. Short moisture conditions persist Northern High Plains, Edwards Plateau. Medium to heavy greenbug damage Low Plains, Cross-Timbers; spraying operations underway. Reported condition 71% of normal with 5% excellent; 37% good; 51% fair; and 7% poor. Sorghum planted for all purposes 1%, 3% 1981, 1% average. Corn planted for all purposes 1%, 2% 1981, 1% average.

Commercial vegetables: Rio Grande Valley harvest of cabbage, broccoli, carrots, lettuce continued as weather permitted. Spinach harvest remained active. Watermelon planting continued, some replanting necessary. Onion harvest underway, interrupted by rain. Citrus harvest resumed. San Antonio-Winter Garden area harvest of cabbage, carrots, lettuce continued. Irrigation continues. Trans-Pecos region onions making excellent growth. Land preparations for potato planting nearing completion. Preplant irrigation underway.

Range and livestock: Conditions remain dry, recent rains helpful in restoring soil moisture. Warm temperatures, additional moisture helpful in promoting growth of grasses, weeds. Pastures, short, supplemental feeding continues. Livestock condition good. Spring calving has begun, lambing underway on Edwards Plateau.

**UTAH:** Few periods precipitation principally northwest and extreme southeast sections. Accumulated amounts moisture generally light to moderate. Average temperatures generally much above normal but ranging between 1 and 13° above.

Recent spring-like weather has given a boost to early grasses and forage on lower elevations. Spring lambing and calving in progress. Turkey placements continue. Some apples and potatoes still in storage.

**VIRGINIA:** The last week of February was characterized by the rapid fluctuations that signify the coming of spring. Some areas, in the 70's during midweek, were under a foot or more of snow by 28th. Temperature averages were slightly above normal. Extremes: Low teens to low 80's. Precipitation was light but the southern two-thirds of the State received from 0.50 to 1.75 in. of water equivalent over the weekend.

Field conditions improved during the week and 2.8 days were suitable for fieldwork. Topsoil moisture was rated 73% adequate and 27% surplus. Some fields in central and eastern areas would support equipment and farmers applied topdressing to small grains. Winter grains continued to rate good to excellent. Pastures also rated good to excellent but rated only fair in the northern neck. Livestock continue to receive supplemental feed and less than 20% of roughage was from grazing. Eastern area herds averaged nearly 30% from grazing. Tobacco plant bed preparation continues and some were seeded in southern areas. Work was also being done to clear fence rows and field borders. Most land was still too wet for plowing.

**WASHINGTON:** West: Average temperatures were close to normal. Precipitation totals varied from 0.20 to 0.60 in. below normal on coast to 0.40 in. above elsewhere. Weekend weather was warmer than normal. Forced rhubarb harvest continues. Pruning and tying of canberries progressing. Winter cauliflower in average condition. Local hay supplies remain adequate. Field activity very slow due to wet fields.

East: Average temperatures were 2 to 4° above normals. Precipitation totals varied. In the north, precipitation was near normal, below normal in most of the central basin, and 0.10 to 0.40 in. above normal in the southeast and over the western central basin. Pruning of tree fruits and grapes continued. Seedbed preparation and fertilizing underway in the southernmost counties. Other counties still too cold for fieldwork. Fall seeded grains in average condition. Winterkill not considered extensive.

**WEST VIRGINIA:** Temperatures averaged near normal. High 71°, low 3°. Precipitation below normal in northern areas, above average elsewhere. Snow in southern area late in week.

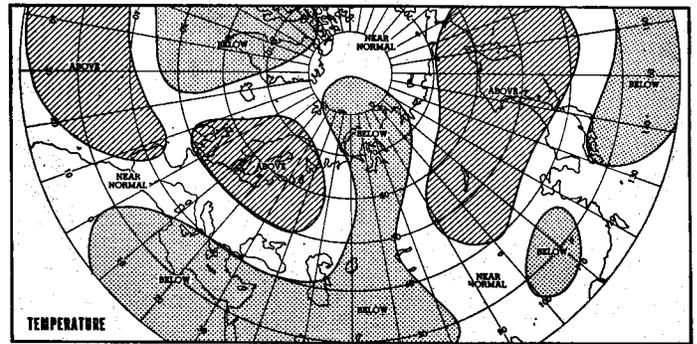
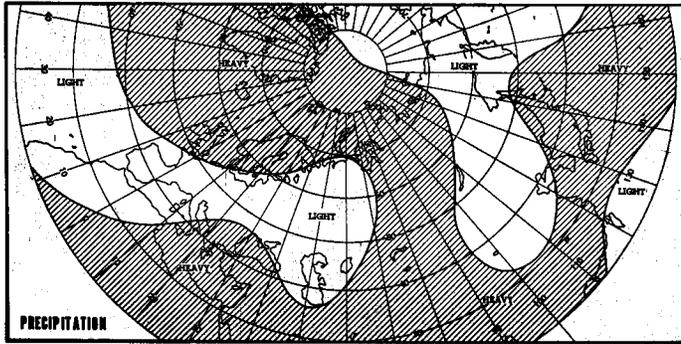
Soil moisture adequate. Days worked: 2.6. Hay short to adequate. Grain and other feed supplies adequate. Calving increasing.

**WISCONSIN:** Warm and dry weather dominated early in the week. Daytime highs were in the 30's and 40's with a few readings in the 50's on the 22nd and 23rd. Light snow and very light drizzle fell on the 24th and gradually ended on the 25th. Colder air invaded on the 24th and plunged temperatures into the -10 to -20° range on the 25th across north. General moderation took place over the weekend with some snow flurries being noted. The high temperatures, a balmy 53°, was recorded in Mondovi on the 23rd. The week's low temperature, -23° was recorded in Lake Thompson on the 25th.

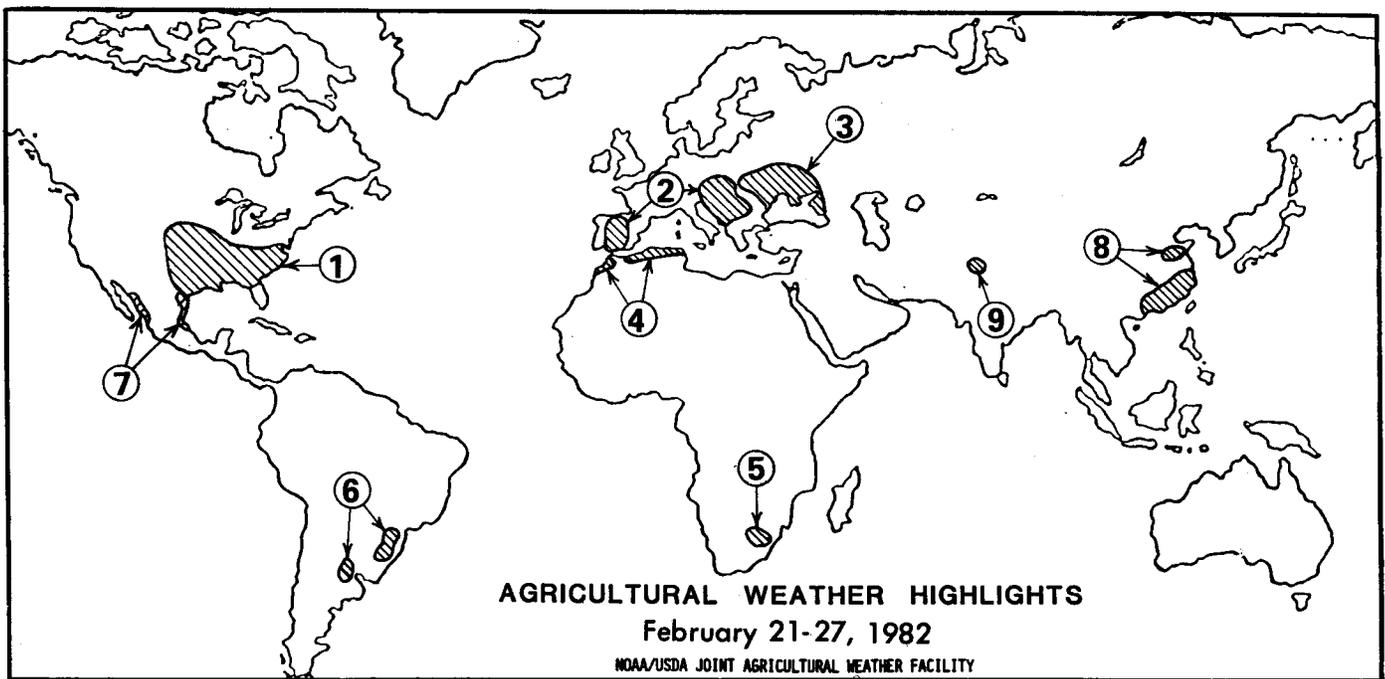
**WYOMING:** Very warm and dry weather. Temperatures averaged well above normal. In south central sections temperatures around 11 to 12° above normal. Highest temperature reported a record breaking 76°, lowest -14°. Most of State averaged below normal precipitation. Greatest amount reported 0.40 in.

Winter wheat mostly good condition. Livestock mostly good condition. Above normal temperatures reducing stress. Some early calving, lambing, shearing farm flocks.

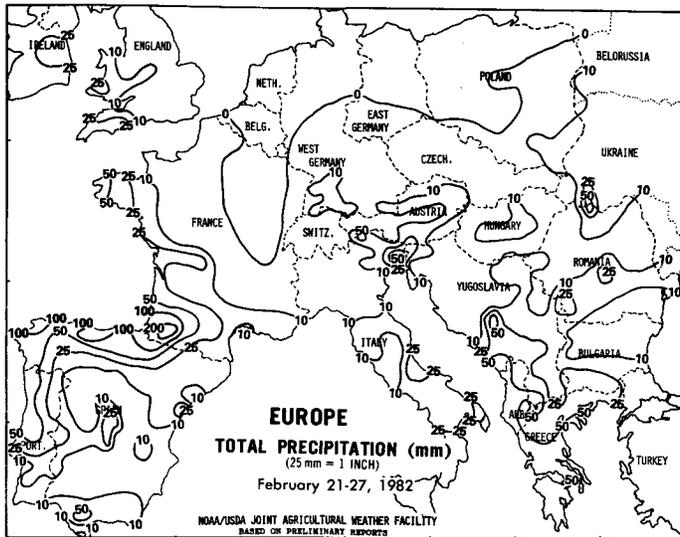
**EURASIA OUTLOOK FOR MARCH**



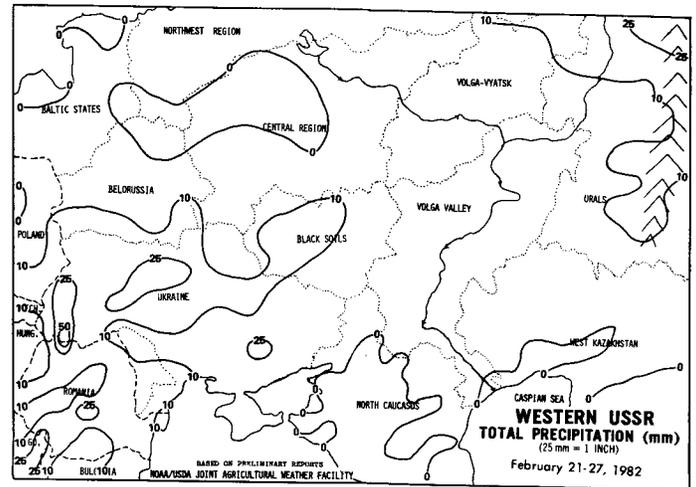
**International Weather and Crop Summary**



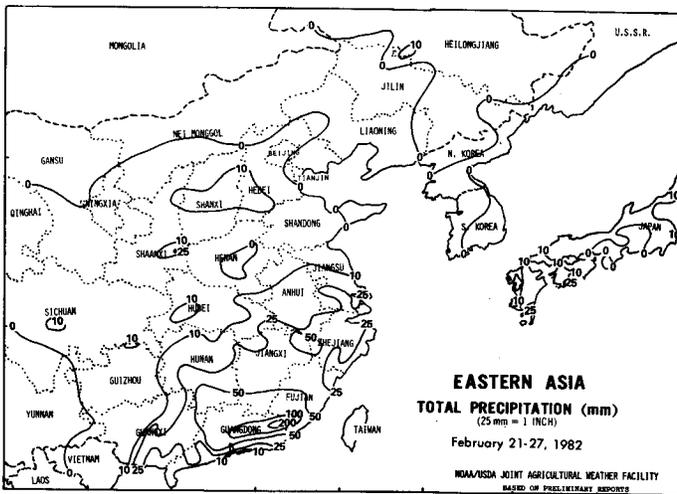
1. UNITED STATES: Drying over the Southeast boosts field work while rains improve soil moisture in the southern Plains. Seasonal warming permits some corn planting from southern Texas to Georgia and greens a few more wheat fields in the central Plains.
2. EUROPE: Beneficial rains aid grain growth in Spain and improve soil moisture conditions in the southeast.
3. WESTERN USSR: Wet weather benefits winter grains in the Ukraine.
4. NORTHWESTERN AFRICA: Continuing abundant rainfall maintains favorable winter grain growing conditions in most areas.
5. SOUTH AFRICA: Generally drier weather worsens corn crop prospects.
6. SOUTH AMERICA: Weather favorable for maturing crops in southern Brazil and Argentina.
7. MEXICO: Timely rains improve planting conditions for spring grains over the upper Northeast and citrus blooming and development around Jalapa. Sunny, mild weather favors West Coast tomatoes.
8. EASTERN ASIA: Continuing precipitation benefits China's northern winter grains; heavy rains persist in the south.
9. SOUTH ASIA: Continuing wetter-than-normal weather mostly beneficial for winter grains in northern Pakistan.



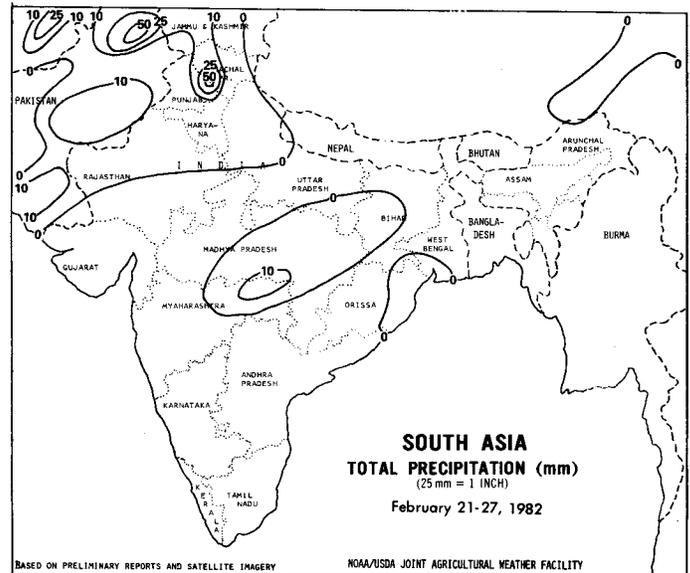
**EUROPE:** Beneficial rains continued over winter grain areas in Spain. Only light precipitation fell on grains from England southward into France and northern Italy. Below-normal temperatures forced the grain crop back into dormancy in England and northern France. Winter grains remained dormant in northern Italy. In southeast Europe, beneficial precipitation from 10 to 25 mm fell on crops in western Yugoslavia, southern Romania, and southern Bulgaria, aiding soil moisture recharge. Generally dry weather continued over central and northern Europe. Temperatures were below normal over most of Europe -- with the exception of the Iberian Peninsula, where temperatures were near normal.



**WESTERN USSR:** Wet weather benefited the major winter grain area of the Ukraine late in the week. This increase in moisture broke a relatively dry spell which had persisted since early February. Winter grain areas of southern Belorussia and the western Black Soils also received beneficial precipitation with relatively dry weather prevailing elsewhere. Temperatures for dormant winter grains went from below normal early in the week to above normal late in the week.



**EASTERN ASIA:** Precipitation increased slightly in China's northern winter grain areas; 5-15 mm fell over a fairly broad area. Temperatures rose far enough above normal to permit winter grain growth in most areas south of the Yellow River. Major southern winter grain areas had little or no rainfall, but soil moisture should have been adequate for crop needs. Above-normal rainfall occurred in the lower Yangtze Valley and in the hills and along the coast to the southwest. The moisture was mostly beneficial in improving preplanting conditions, but some heavy amounts in Guangdong may have caused localized flooding. In South Korea, light to moderate rain fell in the south as winter grain growth continued, while dry weather in the north had little impact on dormant crops.



**SOUTH ASIA:** Mostly fair weather prevailed over the region until late in the week. A storm then advanced eastward across Pakistan, spreading light to moderate rainfall over much of that country and into India. The moisture was still beneficial in northern winter grain areas of these countries where the crops were nearing maturity. Mostly light amounts in southeastern winter grain areas of India should not have caused any problems for mature crops. Temperatures remained below normal in Pakistan and northern India and above normal in southern India.





FIRST CLASS MAIL

210

