

WEEKLY WEATHER AND CROP BULLETIN

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

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

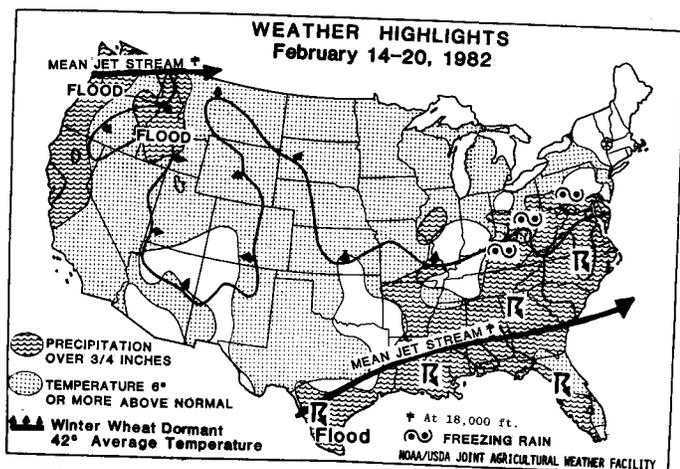
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Feb. 23, 1982

National Weather Summary

February 14-20, 1982



HIGHLIGHTS: The week appeared to be a harbinger of spring as mild temperatures spread over the Nation. Average temperatures soared to 50°F. in southcentral Montana. A large portion of the eastern slopes of the northern Rockies was 18 to 22°F. warmer than normal. Only Maine averaged below normal. Precipitation was heavy over southeastern and northwestern United States. Floods--resulting from rain and melting snow--were widespread west of the Cascades and in Nevada and Idaho. Heavy downpours caused flashfloods in the Southeast and southern Texas.

SUNDAY...A cold front approaching the coast of the Pacific Northwest spread rain from Washington to central California, over the central and northern Plateau, to the northern Rockies. Showers also extended through Utah to central Arizona. The rain and warm temperatures melted snow and caused many rivers in the area to rise to near or above flood stage. Mild temperatures prevailed over much of the Nation. Showers developed along the coast of the Gulf of Mexico from Texas through Alabama.

MONDAY...Rain continued through the Pacific Northwest and spread to the southern California coast. Heavy rain fell in western Washington and northcentral California, exacerbating the flooding in those areas. A warm front across the southern States lifted warm, moist air from the Gulf of Mexico and spread rain northward to southern Iowa and into western Pennsylvania. Heavy thunderstorms dumped large amounts of rain from northeastern Texas to central Alabama.

TUESDAY...Mild temperatures and continued rain across much of the Nation produced widespread flood threats from melting snow. Rain was generally

light all along the west coast and across the central and northern Plateau to the northern and central Rockies. Rain or showers covered much of the East. From the central and lower Mississippi Valley to the mid-Atlantic coast and the Southeast, rain was light to moderate. Thunderstorms were accompanied by heavy rain from northern Alabama to southeastern North Carolina. Some light snow fell over the northern Plains.

WEDNESDAY...Warmer weather continued over most of the Nation. Only the area from eastern North Dakota through Minnesota, the Great Lakes region, and the Northeast was below freezing in the early morning. Light rain continued in the Pacific Northwest and from Arizona into Utah and Nevada. Freezing rain fell in the northern Mississippi Valley and in western Pennsylvania and Maryland. Rain and showers spread from the east central Plains across the central Mississippi Valley to the east coast. Rain was moderate to heavy in parts of the mid-Atlantic coast. Thunderstorms covered most of Florida.

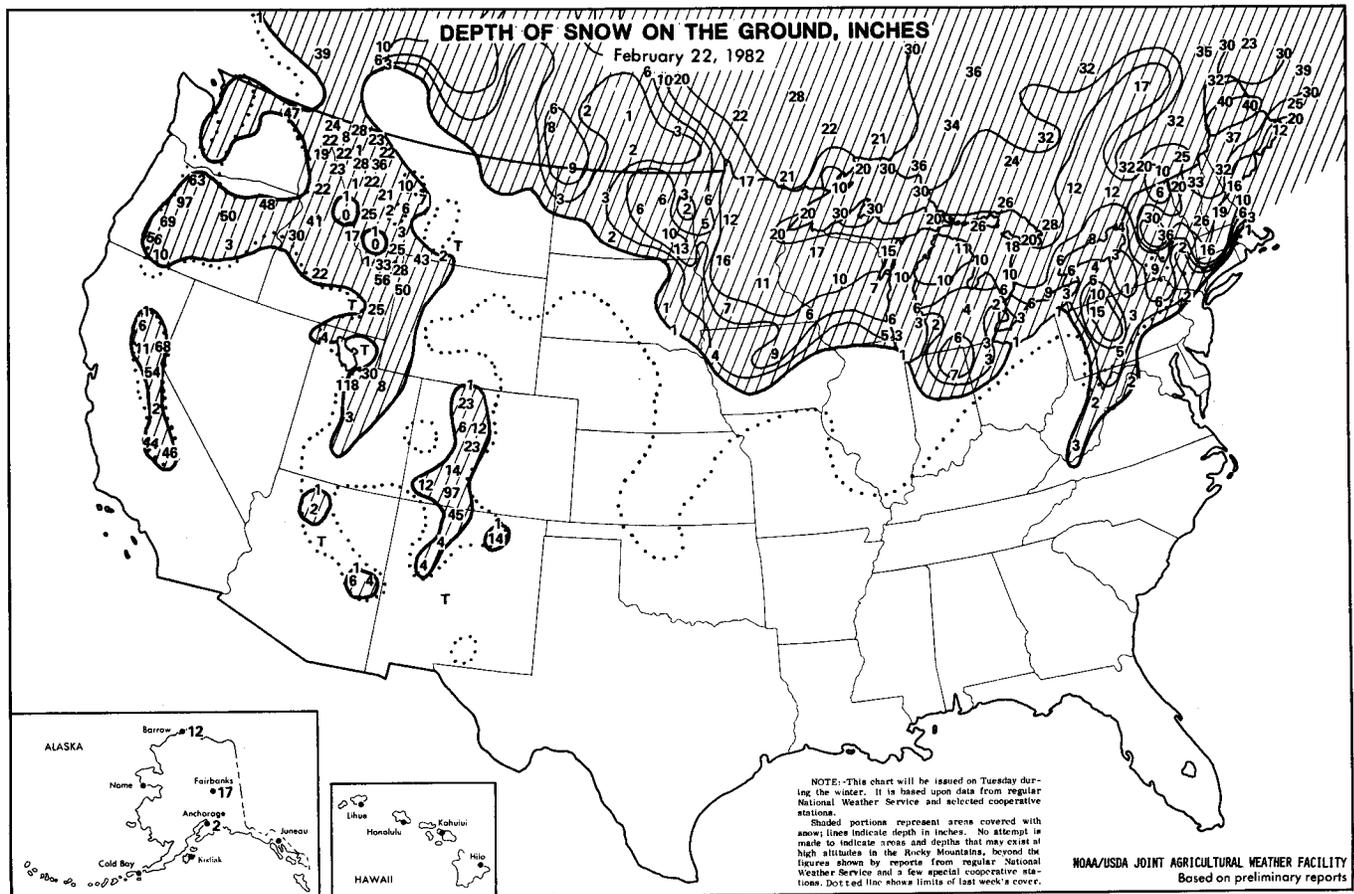
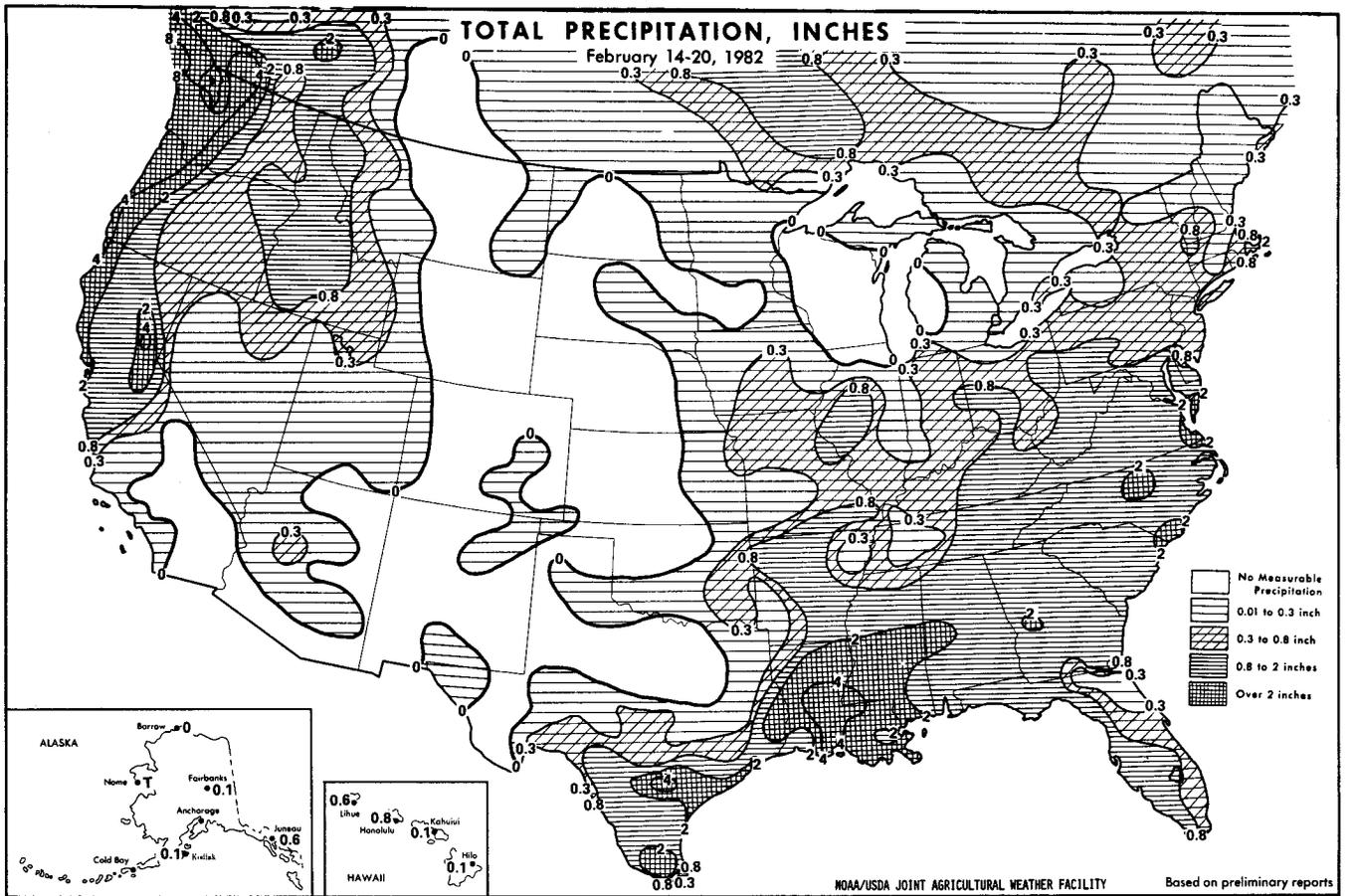
THURSDAY...Rain was heavier in the Pacific Northwest and light showers fell over Arizona and New Mexico. Somewhat cooler air spread over most of the Nation, but afternoon temperatures were mild in most areas. A mixture of freezing rain, sleet, and snow persisted from Maryland through central Pennsylvania into New York. Light snow began in Iowa and Missouri and extended across the lower Great Lakes region but changed to rain later in the day. Precipitation was light from northern Alabama to New York.

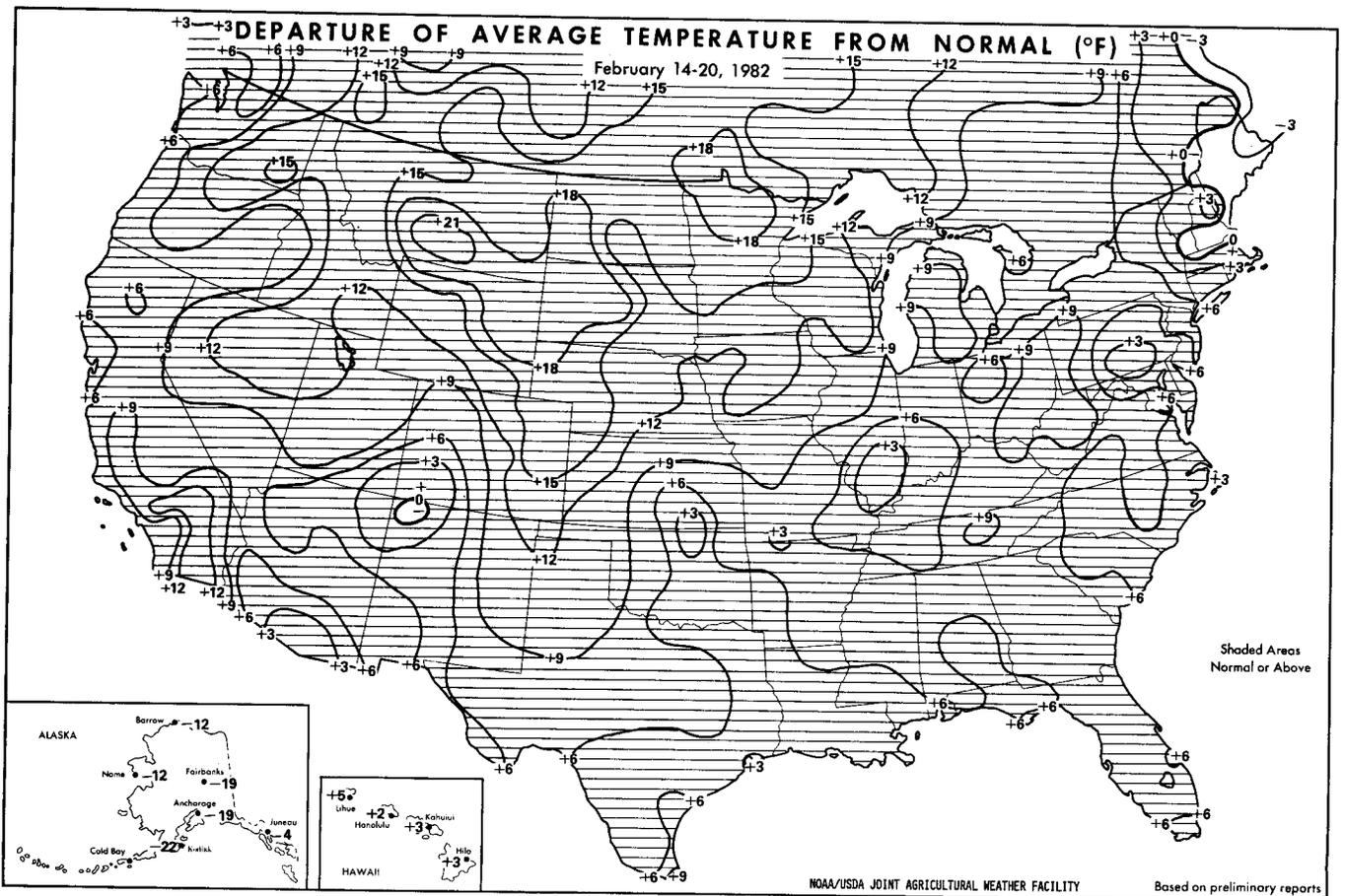
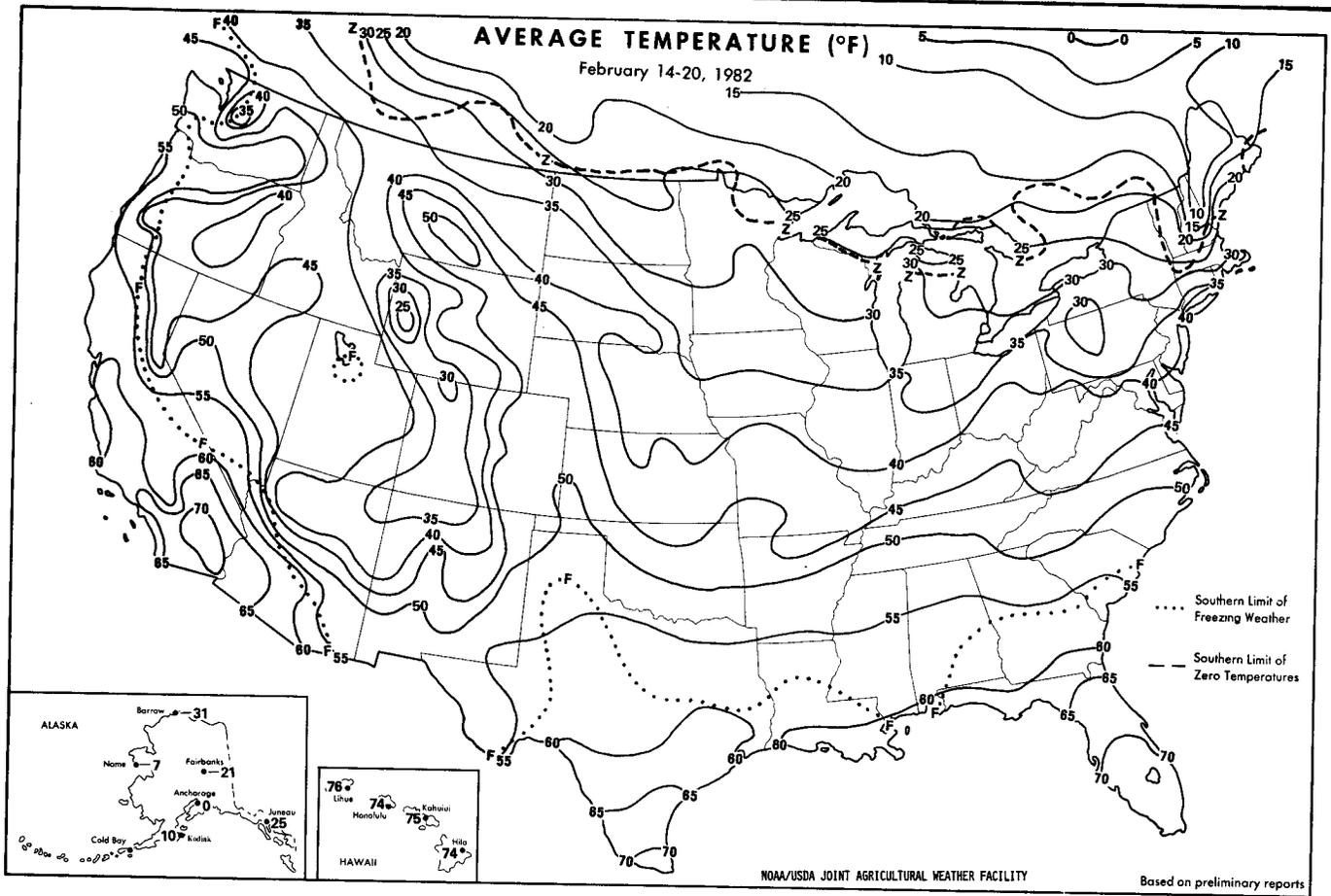
FRIDAY...Rain persisted in the Pacific Northwest and many rivers rose to flood stage or above. Freezing drizzle or light snow continued through the upper Ohio Valley and mid-Atlantic States but changed to all rain by midday. Snow covered New England. Heavy rain and thunderstorms spread over southern Texas, where downpours produced over 3 inches and caused local flooding.

SATURDAY...Heavy rain continued to drench the southern tip of Texas before the disturbance spread
(Continued on page 8.)

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Weather Data for the Week Ending Feb. 20, 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
AL BIRMINGHAM	68	42	77	27	55	8	1.6	.3	1.3	18.2	132	11.3	141	93	45	0	1	3	1
MOBILE	72	49	79	30	60	6	.9	.3	.9	17.0	121	10.2	138	93	46	0	1	1	1
MONTGOMERY	66	44	74	30	55	4	1.1	0	.9	21.9	183	13.4	206	96	56	0	1	2	1
AK ANCHORAGE	7	-7	14	-12	0	-19	T	.2	T	.9	36	.6	46	79	39	0	7	1	0
BARROW	-26	-36	-13	-45	-31	-12	0	.1	0	.6	75	.5	83	75	62	0	7	0	0
FAIRBANKS	-14	-28	4	-38	-21	-19	.1	0	T	1.7	113	.7	88	71	43	0	7	0	0
JUNEAU	30	19	33	4	25	-4	.6	.2	.3	6.8	60	4.1	67	95	68	0	7	4	0
KODIAK	16	3	31	-8	10	-22	.1	1.1	.1	18.4	132	11.3	136	77	44	0	7	4	0
NOME	0	-14	3	-22	-7	-12	T	.2	T	4.2	191	3.1	221	62	40	0	7	1	0
AZ PHOENIX	76	48	82	28	62	6	.1	0	.1	2.0	100	1.3	130	78	27	0	1	1	0
PRESCOTT	59	33	69	30	46	5	.6	.2	.4	—	—	2.4	89	96	39	0	4	3	0
TUCSON	70	43	75	38	56	3	0	.2	0	2.3	96	1.6	114	78	31	0	0	0	0
YUMA	82	57	88	53	70	10	0	.1	0	.3	30	.3	60	47	21	0	0	0	0
AR FORT SMITH	62	37	73	24	49	6	.2	.6	.2	7.5	95	5.3	115	97	54	0	2	1	0
LITTLE ROCK	62	43	72	28	52	7	1.4	.3	1.3	9.6	83	9.2	130	92	64	0	1	3	1
CA BAKERSFIELD	69	52	73	46	61	8	.1	.2	.1	1.3	52	1.2	71	89	54	0	0	1	0
EUREKA	64	51	70	45	57	8	3.9	2.7	1.0	18.9	104	9.3	87	93	77	0	0	7	4
FRESNO	66	48	72	43	57	7	.5	.1	.2	3.4	71	2.6	93	99	65	0	0	3	0
LOS ANGELES	72	54	80	49	63	7	T	.5	T	4.9	82	3.4	85	82	62	0	0	1	0
RED BLUFF	63	50	67	43	56	6	.9	.2	.6	9.2	84	5.5	85	97	68	0	0	3	1
SACRAMENTO	64	50	67	45	57	6	1.8	1.0	1.2	—	—	7.9	134	94	68	0	0	3	2
SAN DIEGO	71	57	81	53	64	6	T	.4	T	4.7	94	3.4	113	89	55	0	0	1	0
SAN FRANCISCO	62	51	66	44	57	5	2.7	2.0	1.8	15.5	144	11.7	186	92	75	0	0	4	2
CO DENVER	62	31	68	25	46	13	0	.2	0	1.2	86	.4	44	69	19	0	5	0	0
GRAND JUNCTION	48	32	58	29	40	6	.2	0	.2	1.5	94	.8	73	94	55	0	6	1	0
PUEBLO	66	34	72	27	50	15	T	.1	T	1.1	110	.6	100	80	23	0	3	0	0
CT BRIDGEPORT	43	30	57	19	36	5	.4	.3	.4	8.8	106	7.3	162	76	46	0	5	1	0
HARTFORD	41	23	54	14	32	5	.2	.6	.2	10.3	103	7.1	137	66	42	0	7	1	0
DC WASHINGTON	52	33	68	24	43	5	1.5	.8	.9	8.5	113	5.5	134	94	59	0	4	5	1
FL APALACHICOLA	70	54	74	42	62	6	1.3	.3	.8	12.1	132	6.6	120	91	64	0	0	2	1
DAYTONA BEACH	76	56	84	49	66	6	.3	.4	.2	7.6	125	4.4	110	92	52	0	0	3	0
JACKSONVILLE	77	50	83	38	64	7	.2	.8	.1	8.2	100	4.7	87	98	50	0	0	3	0
KEY WEST	81	71	83	67	76	4	1.5	1.0	1.3	2.1	45	2.1	70	91	67	0	0	3	1
MIAMI	82	67	84	62	74	6	.3	.2	.2	1.4	26	1.3	37	89	57	0	0	2	0
ORLANDO	81	57	87	48	69	8	.4	.4	.4	4.4	71	2.8	68	96	45	0	0	1	0
TALLAHASSEE	74	46	80	33	60	5	1.3	.1	.9	14.3	124	9.1	134	99	49	0	0	2	1
TAMPA	78	58	83	47	68	6	1.6	.8	1.1	7.5	110	4.0	93	100	56	0	0	2	1
WEST PALM BEACH	81	66	85	60	74	7	.7	0	.5	6.3	90	3.6	84	87	56	0	0	2	0
GA ATLANTA	63	44	70	31	53	8	1.1	0	1.0	17.9	149	10.2	142	93	57	0	1	3	1
AUGUSTA	67	41	74	27	54	6	1.2	.3	.8	16.1	168	7.1	125	98	53	0	2	3	1
4ACOV	69	47	77	32	58	8	1.6	.4	1.5	18.6	168	9.7	154	96	57	0	1	2	1
SAVANNAH	71	49	77	35	60	7	.5	.2	.3	9.5	116	6.4	139	90	52	0	0	3	0
HI HILO	84	64	88	62	74	3	.1	3.4	.1	35.0	101	13.9	81	89	58	0	0	1	0
HONOLULU	79	69	81	61	74	2	.8	.2	.6	19.7	197	14.6	252	85	69	0	0	2	1
KAHULUI	83	66	85	62	75	3	.1	.5	.1	11.4	131	10.1	191	84	60	0	0	1	0
LIHUE	82	70	86	66	76	5	.6	.5	.2	24.2	150	17.7	201	98	72	0	0	4	0
ID BOISE	51	38	56	30	45	8	1.4	1.1	.7	6.0	146	3.2	133	88	65	0	1	6	1
LEWISTON	56	43	64	35	49	10	.6	.4	.6	3.6	113	2.2	122	86	54	0	0	2	1
POCATELLO	46	34	55	30	40	10	.6	.4	.2	4.5	155	2.3	128	92	64	0	3	6	0
IL CHICAGO	39	30	46	17	34	8	T	.3	T	4.6	109	3.1	119	93	69	0	5	0	0
MOLINE	40	31	48	19	35	9	.2	.1	.1	3.1	72	2.5	114	89	71	0	4	2	0
PEORIA	41	34	51	22	37	9	.9	.5	.4	5.8	116	4.1	141	90	72	0	1	3	0
QUINCY	43	33	54	24	38	—	.6	—	.4	—	—	4.5	—	96	75	0	2	3	0
ROCKFORD	37	29	45	14	33	8	T	.3	T	2.8	61	1.8	69	89	70	0	5	0	0
SPRINGFIELD	40	33	52	23	37	6	1.4	1.0	.7	9.2	192	6.5	241	93	78	0	2	3	2
IN EVANSVILLE	48	35	61	19	41	5	.7	.2	.6	13.9	149	11.0	196	98	72	0	1	2	1
FORT WAYNE	38	29	43	17	34	6	.5	0	.2	10.3	161	6.9	177	94	75	0	5	4	0
INDIANAPOLIS	41	32	46	19	37	6	.6	0	.5	12.9	172	7.4	168	94	70	0	3	4	1
SOUTH BEND	39	31	44	21	35	8	.5	0	.4	5.6	89	3.9	115	90	68	0	5	2	0
IA DES MOINES	42	32	51	24	37	12	.4	.1	.2	4.0	143	3.3	194	88	69	0	2	3	0
SIoux CITY	41	27	50	17	34	10	.1	.2	.1	3.7	161	2.1	140	100	84	0	7	1	0
WATERLOO	38	28	42	13	33	11	.3	.1	.2	—	—	1.9	127	91	77	0	6	2	0
KS CONCORDIA	50	33	64	27	41	9	0	.2	0	2.9	145	1.2	109	94	65	0	2	0	0
DODGE CITY	56	34	68	30	45	9	0	.1	0	2.0	167	1.4	200	80	45	0	4	0	0
GOODLAND	62	33	69	28	48	16	0	.1	0	1.7	155	.8	160	77	30	0	2	0	0
IOPEKA	50	34	66	31	42	8	.2	.1	.2	3.4	103	2.4	141	91	68	0	3	1	0
WICHITA	50	31	68	28	41	4	T	.3	T	3.8	131	2.5	192	90	56	0	4	0	0
KY BOWLING GREEN	55	36	65	21	45	6	.7	.4	.6	—	—	7.9	94	100	69	0	3	4	1
LEXINGTON	52	37	63	20	44	9	.8	0	.7	11.1	111	7.7	126	98	76	0	1	4	1
LOUISVILLE	51	36	61	21	43	7	.4	.5	.4	10.1	95	6.5	108	88	64	0	1	1	0
LA ALEXANDRIA	68	48	78	33	58	—	4.6	—	2.7	—	—	8.1	—	88	53	0	0	3	2
BATON ROUGE	70	48	78	34	59	5	3.4	2.2	2.9	15.4	115	9.7	126	97	57	0	0	3	1
LAKE CHARLES	69	50	79	37	60	4	.8	.4	.4	6.4	47	3.7	52	98	62	0	0	4	0
NEW ORLEANS	71	51	78	39	61	5	1.2	.1	1.1	15.5	113	9.9	129	91	58	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Feb. 20, 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		PRECIPI-TATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	67	41	75	28	54	3	.2	-.8	.1	7.2	59	5.5	83	98	55	0	1	2	0	
ME CARIBOU	24	3	37	-10	14	1	.1	-.5	.1	8.2	128	4.5	129	71	46	0	7	2	0	
ME PORTLAND	34	11	45	0	23	0	.2	-.7	.1	12.2	120	7.7	138	79	43	0	5	2	0	
MD BALTIMORE	49	30	66	18	40	5	1.8	1.1	1.0	9.9	118	7.3	159	89	52	0	7	5	2	
MD SALISBURY	50	34	64	10	42	3	2.0	1.2	1.1	--	--	7.7	138	98	69	0	1	6	1	
MA BOSTON	39	25	51	20	32	2	.5	-.5	.3	13.9	126	7.4	119	73	47	0	7	2	0	
MA CHATHAM	38	27	52	19	33	1	2.1	1.4	1.4	16.0	--	8.1	--	86	67	0	6	2	2	
MI ALPENA	32	19	40	-1	26	7	T	-.3	T	3.2	68	2.1	88	91	64	0	7	1	0	
MI DETROIT	38	30	44	24	34	7	.2	-.3	.1	6.7	124	4.4	147	93	69	0	6	2	0	
MI FLINT	35	29	41	24	32	8	.2	-.2	.2	3.3	70	2.1	78	98	80	0	5	2	0	
MI GRAND RAPIDS	36	29	42	25	32	8	T	-.3	T	4.5	83	3.2	114	85	67	0	6	0	0	
MI HOUGHTON LAKE	34	23	41	13	28	10	T	-.3	T	3.4	79	2.6	118	91	69	0	7	1	0	
MI LANSING	38	28	50	24	33	9	.2	-.2	.2	3.2	--	2.1	72	97	65	0	6	1	0	
MI MARQUETTE	33	14	41	-7	23	9	T	-.4	T	8.5	160	3.9	139	95	64	0	7	1	0	
MI MUSKEGON	34	28	37	25	31	6	T	-.4	T	6.6	106	4.9	144	90	69	0	7	0	0	
MN SAULT STE. MARIE	29	14	34	-4	21	6	.1	-.2	.1	7.4	128	4.9	163	86	58	0	7	2	0	
MN ALEXANDRIA	34	23	38	14	28	17	T	-.2	T	--	--	2.3	256	94	74	0	7	1	0	
MN DULUTH	32	23	40	10	27	15	T	-.2	T	3.4	110	2.1	131	90	62	0	7	0	0	
MN INT'L FALLS	32	20	39	4	26	18	.3	-.1	.3	2.5	100	1.6	123	94	73	0	7	4	0	
MN MINNEAPOLIS	36	25	45	16	31	14	T	-.2	T	3.8	173	2.8	233	90	67	0	7	0	0	
MN ROCHESTER	36	26	40	18	31	14	T	-.1	T	2.7	159	1.7	189	94	72	0	7	2	0	
MS GREENWOOD	65	44	73	28	54	--	1.1	--	.8	--	--	9.8	--	92	63	0	1	3	1	
MS JACKSON	69	44	79	24	56	6	2.6	1.5	1.8	14.5	113	8.4	118	97	54	0	1	2	2	
MS MERIDIAN	73	43	77	27	58	8	2.2	.9	1.3	15.4	112	8.5	116	94	48	0	1	2	2	
MO CAPE GIRARDEAU	49	36	65	26	43	3	1.1	.4	1.0	--	--	13.3	233	99	76	0	1	2	1	
MO COLUMBIA	50	35	62	26	42	8	.4	0	.2	6.4	139	4.5	167	95	68	0	1	3	0	
MO KANSAS CITY	49	34	63	29	41	8	.4	.1	.3	6.7	181	3.9	205	94	67	0	3	3	0	
MO SAINT LOUIS	47	33	58	21	40	5	.6	.1	.6	9.5	170	6.3	197	99	73	0	1	3	1	
MO SPRINGFIELD	55	36	64	30	46	8	T	.5	T	9.5	170	4.8	171	91	61	0	2	1	0	
MT BILLINGS	59	41	62	37	50	22	T	-.1	T	1.8	113	.9	90	57	30	0	0	0	0	
MT GLASGOW	41	23	51	12	32	16	T	-.1	T	1.4	127	1.0	167	82	60	0	6	0	0	
MT GREAT FALLS	53	32	62	19	43	15	T	-.2	T	1.8	78	1.3	87	75	45	0	3	0	0	
MT HAVRE	39	26	54	6	32	14	T	-.1	T	.5	35	1.2	120	76	57	0	4	0	0	
MT HELENA	55	35	63	30	45	19	.1	.1	.1	1.4	127	1.1	183	78	39	0	2	2	0	
MT KALISPELL	43	32	48	23	38	12	.8	.6	.4	5.1	128	4.1	195	95	75	0	2	5	0	
MT MILES CITY	45	29	53	19	37	15	T	-.1	T	1.2	100	1.1	157	92	61	0	5	1	0	
MT MISSOULA	48	32	54	25	40	12	.5	.3	.2	5.1	182	3.1	194	94	62	0	4	3	0	
NE GRAND ISLAND	47	28	63	20	38	9	0	-.2	0	3.8	224	1.3	108	91	62	0	6	0	0	
NE LINCOLN	46	30	61	22	38	9	T	-.3	T	3.4	142	1.2	80	93	62	0	4	1	0	
NE NORFOLK	47	27	57	19	37	13	T	-.2	T	4.2	233	2.0	167	96	66	0	6	0	0	
NE NORTH PLATTE	63	25	67	21	44	16	0	.1	0	2.4	218	.3	43	92	29	0	7	0	0	
NE OMAHA	44	32	55	25	38	12	T	-.2	T	3.8	173	1.5	107	92	77	0	4	1	0	
NE SCOTTSBLUFF	62	30	66	24	46	17	0	-.1	0	--	--	.5	71	74	22	0	5	0	0	
NE VALENTINE	46	31	57	29	39	14	0	.1	0	1.5	150	.5	83	75	53	0	5	0	0	
NV ELY	52	28	62	24	40	12	.1	-.1	T	1.9	112	1.3	144	91	42	0	7	3	0	
NV LAS VEGAS	68	45	75	41	57	7	T	-.1	T	1.2	109	1.2	171	75	32	0	0	1	0	
NV RENO	60	37	72	27	49	11	.3	.1	.1	2.8	82	1.6	89	82	38	0	1	5	0	
NV WINNEMUCA	57	37	69	25	47	12	.1	-.1	T	2.1	78	.5	31	82	43	0	2	3	0	
NH CONCORD	35	6	47	-6	21	-2	.1	-.6	.1	11.1	139	6.9	160	84	43	0	7	1	0	
NJ ATLANTIC CITY	50	33	67	16	42	8	.5	-.3	.4	9.8	96	5.9	104	97	62	0	2	4	0	
NM ALBUQUERQUE	61	31	69	25	46	5	T	-.1	T	.6	60	.5	100	78	29	0	5	0	0	
NM CLOVIS	64	37	70	32	51	--	0	--	0	--	--	.7	--	75	28	0	1	0	0	
NM ROSWELL	68	38	79	25	53	9	0	-.1	0	.7	38	.7	100	68	24	0	1	0	0	
NY ALBANY	36	19	45	9	28	4	.5	-.1	.5	8.9	133	5.2	153	79	49	0	7	1	1	
NY BINGHAMTON	36	24	47	13	30	7	.4	-.2	.3	8.1	114	5.3	136	79	52	0	7	2	0	
NY BUFFALO	37	27	45	21	32	8	.2	-.4	.1	10.9	136	8.0	178	90	61	0	6	4	0	
NY NEW YORK	45	32	57	25	38	5	.4	-.4	.4	11.8	134	6.8	142	75	47	0	5	1	0	
NY ROCHESTER	36	26	46	16	31	6	.1	-.6	T	7.5	112	5.0	125	93	64	0	7	4	0	
NY SYRACUSE	38	25	50	19	31	7	.3	-.5	.2	8.3	100	4.8	104	86	53	0	7	4	0	
NC ASHEVILLE	55	36	66	17	46	6	1.7	.8	.8	13.6	140	9.1	160	99	67	0	1	4	1	
NC CHARLOTTE	60	37	68	26	49	5	1.4	.4	.9	14.4	145	7.9	132	95	61	0	1	5	1	
NC GREENSBORO	56	35	67	23	45	5	1.7	.8	.7	13.0	143	6.2	113	92	62	0	3	5	2	
NC HATTERAS	54	42	66	27	48	2	.9	-.1	.5	19.2	160	11.9	172	97	73	0	1	4	1	
NC NEW BERN	61	41	71	28	51	4	.9	-.1	.8	--	--	10.3	163	93	62	0	1	4	1	
NC RALEIGH	60	37	69	25	49	6	3.1	2.2	1.8	13.8	152	8.8	157	94	58	0	1	3	2	
NC WILMINGTON	63	42	71	28	52	4	2.2	1.3	1.7	17.3	188	11.6	219	90	56	0	1	3	1	
ND BISMARCK	36	15	44	8	26	11	T	-.1	T	1.4	108	.9	113	99	72	0	7	0	0	
ND FARGO	32	20	38	8	26	15	T	-.1	T	2.3	192	1.5	214	94	75	0	7	1	0	
ND GRAND FORKS	33	20	41	9	26	18	T	-.1	T	--	--	1.8	257	98	82	0	7	2	0	
ND WILLISTON	42	24	48	13	33	18	T	-.1	T	2.0	125	1.4	127	85	64	0	6	1	0	
OH AKRON-CANTON	43	33	53	23	38	11	.9	.4	.5	9.2	133	5.9	148	92	69	0	3	6	1	
OH CINCINNATI	45	33	53	20	39	6	.4	-.4	.3	11.1	132	8.1	153	98	78	0	4	3	0	
OH CLEVELAND	41	33	47	25	37	9	.4	-.2	.2	8.7	130	5.2	130	85	65	0	3	4	0	
OH COLUMBUS	45	34	53	18	40	9	.8	-.3	.3	9.0	132	6.1	145	99	79	0	1	6	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Feb. 20, 1982

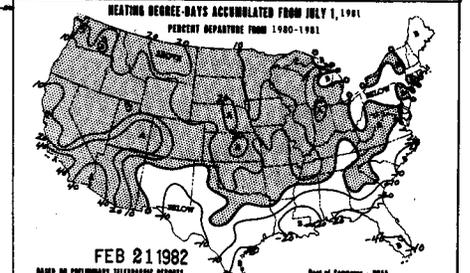
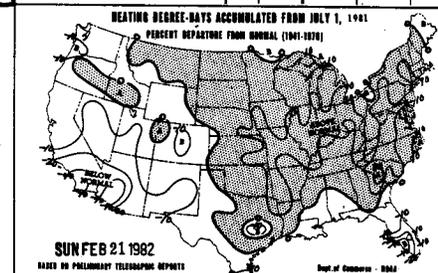
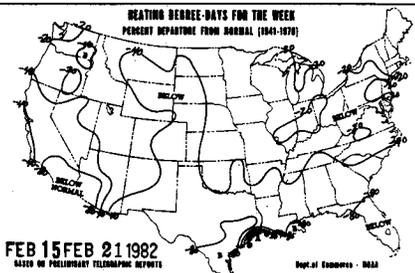
STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Nov. 29	PCT. NORMAL SINCE Nov. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	44	32	53	22	38	8	1.0	.4	.6	11.8	166	8.1	180	96	78	0	4	5	1	0
TOLEDO	38	29	45	21	33	6	.2	-.3	.2	7.0	123	4.5	145	97	77	0	6	1	0	1
YOUNGSTOWN	40	32	50	23	36	9	.6	-.1	.5	8.1	108	5.4	123	93	69	0	5	4	0	1
OK OKLAHOMA CITY	60	37	73	31	48	7	T	-.3	T	5.4	159	4.7	247	88	49	0	1	0	0	0
TULSA	59	39	77	30	49	7	T	-.4	T	4.4	98	4.3	172	97	64	0	2	0	0	0
OR ASTORIA	55	46	58	40	50	6	6.3	4.3	1.4	37.5	140	23.2	158	82	74	0	0	0	0	0
BURNS	45	31	52	18	38	7	.5	.2	.1	5.5	122	2.2	88	88	69	0	3	6	5	0
MEDFORD	59	42	72	35	51	9	1.4	.9	.4	12.6	140	4.1	82	95	69	0	0	7	0	0
PENDLETON	61	45	69	32	53	13	.4	.2	.2	4.2	102	2.0	87	79	51	0	1	7	0	0
PORTLAND	59	47	65	39	53	10	4.2	3.2	1.9	21.1	138	11.5	137	99	70	0	0	7	2	3
SALEM	58	45	63	33	52	8	4.1	2.9	1.6	21.2	121	11.3	114	95	71	0	0	7	3	2
PA ALLENTOWN	41	28	53	18	35	5	.3	-.4	.2	8.7	37	5.6	117	79	53	0	6	3	0	0
ERIE	39	31	49	23	35	10	.4	.2	.1	7.4	103	4.7	121	83	59	0	6	5	0	0
HARRISBURG	40	27	50	15	34	1	.7	.1	.4	7.9	103	5.5	131	95	58	0	5	0	0	0
PHILADELPHIA	46	31	62	21	39	5	.8	.2	.5	12.3	154	7.4	176	85	53	0	4	4	1	1
PITTSBURGH	42	31	54	21	37	7	1.2	.6	.8	9.3	129	6.3	150	82	61	0	6	6	1	0
SCRANTON	38	28	46	18	33	6	.4	-.1	.4	6.3	103	4.6	144	77	56	0	6	2	0	0
RI PROVIDENCE	40	24	54	13	32	3	.3	-.6	.3	14.0	137	9.2	164	79	49	0	6	1	0	0
SC CHARLESTON	66	44	73	29	55	4	.8	-.1	.5	11.1	131	5.4	113	99	54	0	1	2	0	0
COLUMBIA	66	41	74	27	54	6	1.1	.2	1.0	16.3	168	7.1	122	98	55	0	2	3	1	1
FLORENCE	63	40	73	27	52	4	1.7	.8	1.5	---	---	8.2	164	93	54	0	1	3	1	1
GREENVILLE	59	39	68	27	49	5	1.1	-.1	.5	15.9	137	10.8	154	91	55	0	2	5	0	0
SD ABERDEEN	36	24	45	14	30	15	---	---	---	---	---	---	---	94	76	0	6	---	---	---
HURON	41	25	48	16	33	15	T	-.2	T	2.7	193	1.4	156	99	83	0	6	1	0	0
RAPID CITY	58	31	63	28	45	18	T	-.1	T	.8	62	.5	63	79	37	0	5	0	0	0
SIoux FALLS	41	26	48	16	33	13	.1	-.2	.1	1.6	80	.9	69	97	75	0	6	2	0	0
TN CHATTANOOGA	61	38	67	21	50	6	1.8	-.4	1.2	19.2	129	12.8	142	93	52	0	2	4	1	1
KNOXVILLE	60	38	67	21	49	6	.8	-.4	.4	14.4	112	10.5	135	96	58	0	3	4	0	0
MEMPHIS	60	41	67	29	51	6	.3	-.9	.2	12.7	96	9.5	124	96	62	0	1	2	0	0
NASHVILLE	60	39	70	22	49	8	.4	-.7	.4	18.9	140	10.4	135	94	56	0	2	2	0	0
TX ABILENE	71	42	78	34	56	8	0	-.2	0	1.9	66	1.2	71	77	28	0	0	0	0	0
AMARILLO	67	35	73	32	51	11	T	-.1	T	.7	44	.6	75	74	20	0	2	1	0	0
AUSTIN	74	50	90	39	62	8	.1	-.7	.1	1.6	25	1.1	28	84	48	1	0	1	0	0
BEAUMONT	69	52	76	40	60	5	1.7	-.6	1.2	8.2	66	4.4	63	99	63	0	0	3	1	0
BROWNSVILLE	83	62	94	50	73	9	.1	-.3	T	.9	23	.2	8	93	53	1	0	2	0	0
CORPUS CHRISTI	76	54	91	47	65	5	1.1	.6	.5	2.7	56	1.4	47	99	58	1	0	0	3	1
DEL RIO	73	49	86	39	61	5	.7	-.4	.6	1.0	50	.8	57	70	45	0	0	2	1	0
EL PASO	71	40	75	30	55	7	T	-.1	T	.5	42	.3	43	62	22	0	1	1	0	0
FORT WORTH	69	41	77	28	55	5	0	-.6	0	3.2	59	2.5	76	89	43	0	1	0	0	0
GALVESTON	66	48	78	9	57	0	2.2	1.6	1.2	6.6	76	4.8	107	95	67	0	1	3	2	2
HOUSTON	71	49	83	39	60	5	.4	-.1	.4	8.2	78	2.5	42	98	58	0	0	4	0	0
LUBBOCK	70	38	76	32	54	11	0	-.1	0	1.1	79	.4	50	66	22	0	1	0	0	0
MIDLAND	70	41	78	30	55	7	.1	-.1	T	.3	21	.5	63	73	24	0	1	2	0	0
SAN ANGELO	72	42	81	34	57	6	.2	0	.2	1.5	65	1.5	94	87	34	0	0	1	0	0
SAN ANTONIO	73	47	87	39	60	5	.4	-.1	.4	2.3	50	1.2	40	88	45	0	0	3	1	1
VICTORIA	73	51	85	42	62	5	2.8	2.2	2.2	4.8	87	3.4	103	98	59	0	0	3	1	0
JACO	73	43	82	31	58	7	T	-.6	T	2.4	41	2.0	57	92	42	0	1	0	0	0
WICHITA FALLS	68	35	72	28	51	5	0	-.3	0	2.7	84	1.8	106	96	36	0	2	0	0	0
UT BLANDING	45	25	60	22	35	1	T	-.2	T	1.7	57	1.5	94	94	68	0	6	1	0	0
CEDAR CITY	55	34	63	29	44	11	.1	-.2	.2	6.2	113	4.2	145	90	46	0	1	4	0	0
SALT LAKE CITY	54	35	61	32	45	11	.2	-.1	.1	3.3	92	1.5	75	83	46	0	7	1	0	0
VT BURLINGTON	33	11	45	0	22	3	.2	-.3	.2	6.2	113	4.2	145	90	46	0	1	4	0	0
VA NORFOLK	54	36	69	25	45	3	2.1	1.3	.9	13.8	153	7.8	142	92	62	0	2	5	2	2
RICHMOND	55	36	67	24	45	6	1.3	.5	.7	10.9	128	5.8	121	96	69	0	1	4	1	1
ROANOKE	52	32	63	24	42	4	1.5	.7	.6	11.4	141	7.6	162	94	65	0	5	5	1	1
WA COLVILLE	46	38	56	36	42	10	1.0	.6	.3	6.5	118	3.5	126	94	74	0	0	7	0	6
QUILLAYUTE	50	41	51	34	46	4	7.9	4.9	1.8	53.2	133	36.3	163	100	81	0	0	7	6	5
SEATTLE-TACOMA	53	45	58	38	49	6	3.7	2.7	.8	16.8	110	11.6	133	90	66	0	0	7	5	5
SPOKANE	52	41	56	32	46	13	1.2	.7	.5	5.5	86	3.2	89	90	67	0	1	6	0	1
YAKIMA	59	41	63	29	50	13	1.2	1.0	.7	4.6	135	1.8	90	89	45	0	1	6	1	1
WV BECKLEY	49	33	59	16	41	9	1.1	.2	.7	8.5	89	5.1	88	98	66	0	3	5	1	1
CHARLESTON	54	35	62	12	44	8	1.0	.2	.3	9.4	103	6.6	120	94	62	0	2	5	0	0
HUNTINGTON	52	36	62	16	44	8	.7	0	.5	9.6	112	6.8	136	96	68	0	2	6	0	0
PARKERSBURG	49	36	57	20	43	9	.5	-.3	.2	6.0	65	4.0	68	90	63	0	1	5	0	0
WI GREEN BAY	34	22	44	8	28	10	T	-.3	T	2.8	30	1.5	75	97	76	0	7	0	0	0
LA CROSSE	38	25	45	15	32	11	T	-.2	T	2.5	93	1.4	93	98	67	0	6	0	0	0
MADISON	38	28	46	22	33	12	T	-.2	T	2.5	78	1.5	88	98	74	0	6	0	0	0
MILWAUKEE	35	28	44	20	32	9	T	-.3	T	4.4	100	3.0	125	92	68	0	7	0	0	0
WAUSAU	37	21	44	11	29	13	T	-.3	T	---	---	1.8	90	95	62	0	6	0	0	0
WY CASPER	55	35	60	28	45	18	0	-.1	0	1.5	125	1.2	150	70	29	0	2	0	0	0
CHEYENNE	55	31	59	20	43	14	0	-.1	0	1.2	86	.6	75	65	26	0	4	0	0	0
LANDER	54	26	58	25	40	14	0	-.2	0	.5	36	.6	67	69	26	0	7	0	0	0
SHERIDAN	59	35	67	32	47	20	0	-.2	0	1.1	55	.8	67	62	30	0	2	0	0	0
PR SAN JUAN	84	72	85	68	78	3	.6	0	.5	22.2	211	8.4	158	87	65	0	0	3	1	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING FEB. 21, 1982.

BASED ON 9141-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981.

Table with columns for STATES AND STATIONS, WEEKLY ACCUMULATION, and SEASONAL ACCUMULATION. It lists data for various states including ALA., ARIZ., ARK., CALIF., COLO., CONN., DEL., D.C., FLA., GA., IDAHO, ILL., IND., IOWA, KANS., KY., LA., MAINE, MD., MASS., MICH., MINN., MISS., MO., MONT., NEBR., NEV., N.H., N.J., N.M., N.Y., N.C., N.DAK., OHIO, OKLA., OREG., PA., R.I., S.C., S.DAK., TENN., TEXAS, UTAH, VT., VA., WASH., W.VA., WIS., and WYO. Each entry includes weekly total and departure, and seasonal total and departure from 1980-81.



BASED ON PRELIMINARY TELEPHONE REPORTS. Dept. of Commerce - NOAA

National Weather Summary

(Continued from page 1.)

northward and dropped heavy amounts through the San Antonio--Houston area. Snow and freezing drizzle continued from Kentucky and the central Appalachians and the middle and northern Atlantic coast. Showers and wind persisted in the Pacific Northwest where locally heavy rain fell on the Washington and Oregon coast. Mild temperatures prevailed over all of the Nation later in the day. Marquette, Mich., reached a record high of 48°F. and Sheridan, Wyo., reached 68°F.

COMING FEATURES

Maps of "Mean Date of Last 32°F Temperature in the Spring" and "Zones of Plant Hardiness" will be issued in coming weeks as space permits.

National Agricultural Summary

February 8-21, 1982

HIGHLIGHTS: Temperatures were well-above normal in all regions of the Nation. The warm weather melted much of the snow cover in northern areas and encouraged growth of crops and pastures in southern areas. Widespread precipitation and wet fields curtailed field activities in the South where farmers had only 2 or less days suitable for fieldwork. Land preparations for spring planting fell further behind schedule. Farmers in Texas were able to plant limited acreages of corn and sorghum. Winter wheat was in good to excellent condition in Kansas and fair to good condition in other major producing States. Warm weather caused the crop to start greening as far north as southern Kansas. Fruit growers continued pruning, spraying, and planting new trees. Vegetable planting and harvesting remained active across the South. Pastures were in poor to fair condition in the South, but should show improvement as warmer weather and ample moisture promote new growth. Calving and lambing gained momentum. Livestock were in fair to good condition.

SMALL GRAINS: Winter wheat was in good to excellent condition in Kansas and fair to good condition in other major producing States. Above-normal temperatures melted much of the snow cover in northern areas and encouraged early spring growth in southern areas. Wet fields in the Southeast limited topdressing activities.

Warm temperatures and ample moisture in Kansas promoted greening of winter wheat in southwestern and south-central regions of the State. Spring barley and oats seedings were delayed by muddy fields. Oklahoma wheat was in fair to good condition. Abundant moisture, together with mild weather, allowed winter wheat to break dormancy. Texas winter wheat responded to the warmer weather and made good growth where moisture supplies were adequate. Cattle were being removed from wheat pastures in the Northern High Plains. The condition of the crop varied from fair to good across the State. Montana wheat was in good condition. Warm weather removed most of the old snow cover, but new snow at the end of the week again provided a protective blanket.

Melting snow exposed winter wheat in parts of the Corn Belt. In Arizona, wheat and barley continued to make good growth. Earliest plantings were forming heads. Grain planting remained active in southern California. Most emerged crops were in good condition. Some oats were green chopped.

OTHER CROPS: Florida's sugarcane cutting continued active. Young cane improved from earlier freeze damage. Corn and sorghum planting started in southern areas of Texas. Land preparation for planting gained momentum as far north as the Panhandle of Texas. Scattered showers in parts of Texas provided good preplanting moisture. Wet soils again delayed land preparations in the Southeast. Land preparations continued for the new Arizona cotton crop. Application of herbicides and irrigation was active. Georgia's tobacco plants were in good condition. Tobacco growers prepared plantbeds and seeded the crop in many areas.

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

Condition of Florida's citrus trees improved. New growth and bloom increased; some full and open blooms were evident. High winds caused increased fruit droppage. Harvesting of early and mid-season oranges was in the clean-up stage.

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

The Texas citrus harvest continued active. Demand improved for the harvested fruit.

Picking and shipping of Navel oranges, lemons, tangerines, and tangelos continued in California's lower San Joaquin Valley. Rain is needed in southern coastal regions to improve the lemon crop. Movement of bee hives into almond orchards increased.

VEGETABLES: Favorable weather continued in Florida's vegetable growing areas. Total shipments decreased 6% from the previous week. Only snap beans, celery, sweet corn, escarole, okra, parsley, potatoes, radishes, and strawberries increased, while supplies were about steady for carrots, chinese cabbage, peppers, peas, and squash. The strawberry harvest reached peak activity. Watermelon planting got underway

in northern areas; the crop made good growth in early-planted fields in southern areas.

Arizona's lettuce harvest continued in full swing in the Yuma area. Lettuce for later winter and spring harvest made good progress. Melon planting was underway on a limited basis.

In the Rio Grande Valley of Texas, growers harvested spinach, cabbage, carrots, celery, broccoli, and lettuce. Watermelon planting continued active. Producers in the San Antonio-Winter Garden area harvested cabbage, carrots, and lettuce. Irrigation has been heavy, due to dry weather. Watermelon and potato planting continued active. Land preparation and preplanting irrigation progressed steadily in the Trans-Pecos region. Spring onions continued to develop well.

Rains in parts of California delayed field preparations for spring planting and delayed harvests, but warmer weather hastened growth. The asparagus harvest started in the Delta and Salinas areas and increased in Desert areas. Harvesting

of broccoli increased on the Central Coast; good quality was reported. The carrot harvest was fairly active in the Desert and Kern areas. Lettuce harvest was past peak in the Imperial Valley and starting in the Palo Verde Valley. Spring onion and potato planting continued active in the Kern area. On the South Coast, strawberry picking continued at a slow pace. Tomato planting was active from southern areas to the Sacramento Valley when weather permitted.

PASTURES AND LIVESTOCK: Pastures in the South were generally in poor to fair condition, but warmer temperatures and ample moisture should encourage growth of grasses. In Texas, dry conditions persisted and pastures showed little improvement. Grazing was short in most areas. Supplemental feeding remained high in most areas of the Nation. Supplies of hay and feed remained adequate, although a few local shortages were reported. Calving and lambing continued to increase. Milder temperatures were easier on livestock. Sheep shearing started in a few areas.

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.

ARKANSAS: Warm week, temperatures above normal. Dry week with some rain falling early in the week. Highest temperature, 79°, lowest 20°. All departures from normal ranged from +4 to +10°. Most rainfall 2.12 in., least trace.

Fieldwork began last week with nitrogen being applied to more than half of the wheat crop. Application of nitrogen expected to be completed this week. Soil moisture remains adequate and cattle still on full feed.

ARIZONA: Mostly sunny skies, mild temperatures except for storm system 17th that spread showers, thunderstorms eastern two-thirds of State. Amounts varied traces extreme south to 0.75 in. central basins, central mountains. Snowfall amounts mostly under 2.00 in. Average temperatures 4 to 10° above normal.

Wheat, barley continued very good progress, earliest plantings forming heads. Land preparations new cotton crop continued accelerating rate, application preplant herbicides, irrigation active. Sugarbeets continued very good progress. Alfalfa hay growth accelerated slightly following warmer temperatures. Cutting, baling seasonally slow, increasing. Lettuce harvest continued full volume Yuma area. Lettuce for later winter, spring harvest making good progress. Harvest mixed vegetables very good progress. Potatoes, dry onions very good progress. Melon planting underway limited basis. Harvest lemons, tangerines, limited volume grapefruit, Valencia oranges active. Most citrus groves very good condition. Ranges mostly fair, southwestern Desert areas poor. Livestock fair to good, some supplemental feeding required. Water supplies adequate.

ALABAMA: Temperatures 6 to 8° above normal. Rainfall reported at all stations.

Fieldwork: 2 days. Soil moisture surplus. Activities: Routine farm chores, winter maintenance, planning for this year's crops, pruning fruit and pecan trees. Conditions: Livestock, wheat fair; pasture feed short; stored feed adequate; pastures poor to fair; plowing 27%; fieldwork behind.

CALIFORNIA: State averaged over 5° above normal. Some high temperature records set 18th and 19th after ample rainfall beginning of week. Northern third of State rainfall continues much above nor-

mal. Southern third of State had temperatures into the 80's for the first time since late last November. Daily records were set at both Los Angeles and San Diego.

Heavy rains slowed field activity early in week. Winter grain plantings continue southern areas. Grains good condition, except for some root rot and yellowing from excessive moisture. Ground preparations for spring planting. Herbicide application active, small grains. Green chopping some oats. Early sugarbeets emerging in San Joaquin Valley; over-wintered fields in good condition. Warm sunny weather in Central Valley. Early variety almonds 20 to 60% full bloom. Picking and shipping of Navel oranges, lemons, tangerines and tangelos continues from lower San Joaquin. Southern Coastal lemons have grade and condition problems, need rain. Rains early in week halted field preparation, delayed harvest. Warmer temperatures hastened growth. Artichoke harvest increased Central Coast. Asparagus harvest started Delta, Salinas, increased Desert. Broccoli harvest increased Central Coast, good quality. Carrot harvest fairly active Desert, Kern District. Cauliflower harvest increased Central Coast; losses from rain damage South Bay area. Lettuce harvest past peak Imperial Valley, starting Palo Verde Valley. Planting spring potatoes continues Kern District. Strawberry harvest remains slow South Coast. Tomato planting active as weather allows, southern California to Sacramento Valley. Pasture flooded some northern areas. Mild temperatures produced increase grass growth foothills Sacramento, San Joaquin Valleys. Movement bee hives into almond orchards increasing.

COLORADO: Week characterized by above normal temperatures and very little precipitation. High pressure dominated with only a weak Pacific front passing over the area 16th. Heaviest precipitation at lower elevations occurred in the southeast with 0.40 to 0.75 in. The mountains received 1 to 6 in. of snow. Daily high temperatures averaged 5 to 15° above normal with frequent readings in the 50's to 60's. The week ended with near record readings of 70° in the Arkansas Valley.

FLORIDA: Several weak frontal systems slipped downward through the State, bringing cloudiness, some much needed rain to nearly all areas. The 22nd was dry, sunny but the 23rd through 25th was

rather wet. The next three days were dry and sunny. Temperatures remained very mild to warm despite the weak frontal systems passing through. Lows mostly in 40's, north to 50's, central with 60's, south. Only a few spotty 30's extreme northwest portions.

Soil moisture mostly adequate Peninsula, adequate to excessive Panhandle. Land preparation increasing, some corn land prepared. Transplanting tobacco beginning due to mild weather causing young plants in beds to grow rapidly. Small grains good condition, growing well. Topdressing of grains continues as weather permits. Sugarcane cutting continues, young cane improving. Pasture conditions improved considerably with rains over most areas, warm temperatures. However, additional rain would benefit many central areas. Cattle, calves fair to good condition. Citrus tree condition improved all areas. New growth and bloom increasing; some full, open bloom, fruit droppage increased with high winds. Harvest of early and mid oranges in cleanup stage. Favorable weather continued in vegetable areas. Daytime highs in 80's; nighttime lows, 60's to 70's. Skies clear to partly cloudy. Rainfall light to moderate. Heaviest rains, some hail in west central area. Winds light to moderate but gusty with shower activity. Total shipments decreased 6% from previous week. Harvest gained snap beans, celery, sweet corn, escarole, okra, parsley, potatoes, radishes and strawberries. Supplies about steady carrots, Chinese cabbage, peppers, southern peas and squash. Volume declined cabbage, cauliflower, cucumbers, eggplant, lettuce and tomatoes. Strawberry harvest at peak activity. Watermelon planting underway northern areas. Crop making good growth, progress in south.

GEORGIA: Temperatures above normal, departures around 5°. Coldest readings first part of the week. Overnight minimums milder during middle and latter portions of week. Rainfall totals generally above 1.50 in. with 2.00 in. common across southern third of State. Skies fair throughout State 20th and 21st with mild days and rather cool nights. Conditions dry with high in 60's and low 70's. Lows in the 30's and 40's.

Soil moisture surplus. Field activity continued light due to wet soils, only limited activity southern part of State. Small grains good condition, wet fields limiting top dressing. Tobacco plants in good condition. Pasture conditions fair. Cattle and hogs in good condition.

HAWAII: Favorable weather returned to the Island chain. Showers were light and scattered. More sunny periods and warmer days. Field preparations and plantings were increasing as grounds became workable. Spraying frequent to control diseases. Vegetables: Supplies generally light. Head and Chinese cabbage continues heavy. Bananas: Supplies light. Papayas: Production increasing. More fruits reaching maturity. Pineapples: Harvesting very light. Sugar: Cultivations for plantings continue. Harvesting light. Only 3 mills grinding. Pastures: Generally fair to good.

IDAHO: Temperatures averaged 3 to 13° above normal with a few nighttime readings below zero in the southeast during the first few days. High of 64° in Lewiston, low of -9° in Aberdeen. Precipitation fell in all areas, ranging from 0.06 in. below normal to 2.34 in. above normal. The greatest amount was 3.07 in. in Sandpoint.

Thawing snow and rain have made barnyards and corrals very muddy and have caused flooding and mudslides in many areas. Calving well underway, but the muddy conditions causing health problems in the young animals and there have been many deaths. Hay supplies remain adequate. Some po-

tatoes moved but in several areas the roads too soft for the trucks to move.

ILLINOIS: Temperatures 3 to 10° above normal. Low level flooding began; harvest in the South. Precipitation: Trace in north, 1.00 in. or more central and south.

Soil moisture: 40% adequate, 60% surplus. Winter wheat 53% good, 39% fair, and 8% poor. Activities: Livestock feeding and care, general farm work, hauling manure, tax preparation, and ordering seed and supplies.

INDIANA: Second week of thawing temperatures. Thermometer readings averaged 6° above normal and ranged from 27 to 61°. Precipitation generally 0.50 in. but 1.00 in. in east central. Snow cover negligible but ice cover and resulting crop damage apparent. Soils frozen to 2 feet in central and north damaging pipelines and roads. Sunshine 13% of possible.

Activities: Moving snow, hauling grain and hay, cutting wood, attending farm meeting, buying seed and chemicals, making plans and catching up on book work, caring for livestock and usual chores.

IOWA: The warmest week since early December with mean temperatures averaging above freezing throughout the State and 8 to 15° above normal. The warm temperatures allowed considerable snow-melt with only 3 to 6 in. snow cover remaining at week's end in the northern third of State. The snow melt for the week amounted to 8 to 17 in. in the northern half resulting in minor flooding on several streams and rivers. Alleviating the flooding potential was the fact that precipitation was generally less than 0.10 in. over the northwestern half of the State. Greatest precipitation amounts were recorded in the south central portion of the state with 0.61 in. at Lamoni and 0.67 in. at Leon.

KANSAS: Temperatures averaged 43 to 49°, 10 to 15° above normal. Precipitation generally 0.10 in. or less, limited to eastern third and extreme southwest, local amounts extreme northeast 0.25 in. to 0.50 in.

Wheat condition good to excellent. Greenup southwest and south central due to warming temperatures, good moisture. Spring barley and oats seedings delayed by muddy conditions. Surface soil moisture adequate to surplus, subsoil moisture adequate. Snow melt causing heavy runoff some areas, little erosion evident. Muddy conditions keep cattle off pasture, supplemental feeding continues most areas. Feed grains, hay forage supplies adequate. Warming temperatures facilitate calving and lambing.

KENTUCKY: Damp, but mild weather. Precipitation averaged between 0.25 and 1.00 in. Temperatures were at or above seasonable normals, highs 50's and 60's, lows mostly in 30's.

No reports of field activity. Most fields very wet. Dark fired tobacco selling well with much less going to government pool than last year. Early spring calving underway.

LOUISIANA: Rainfall 1.00 to 3.50 in. Temperatures 4 to 6° above normal. Extremes: 27 and 83°.

Activities: Routine chores and caring for livestock. Cool season grasses showing new growth.

MARYLAND AND DELAWARE: Temperatures averaged 2° above normal. Highs averaged in the upper 40's and lows averaged in the upper 20's to low 30's. Precipitation averaged 1.54 in. with the greatest amount reported at Royal Oak with 2.49 in. and the least at the Wilmington, DE Airport with 0.66 in. Weekend weather was cloudy with high temperatures

averaging in the upper 40's and nighttime lows in the mid 30's. Some scattered rain and snow showers in northern and western Maryland on 20th with scattered rain and snow the 21st.

MICHIGAN: After nearly 8 weeks of below normal temperatures the week ending 21st had temperatures that ranged from 9 to 11° above normal. It was warmest during the first portion of the week due largely to clear skies. Toward the end of the week skies were mostly cloudy with both warm and cooling trends. Precipitation amounts were very light with several stations reporting only trace amounts. The largest amount was reported in the eastern Upper Peninsula and the southern Lower Peninsula which collected nearly 0.25 in. of water. February precipitation is below half of what is normally expected for the month.

MINNESOTA: A mild, dry week most sections. Temperatures averaged upper 20's to 30's and were from 13 to 20° above normal. Extremes: 45° in Minneapolis, Pipestone, and Grand Marais for the warmest and 10° at International Falls for the coolest. Precipitation totals 0.05 in. most sections and up to 0.31 in. north central. Most precipitation occurred as rain or freezing rain. There was no measurable snowfall. Melting and/or settling of snowpack occurred most areas. Snow-depth was 4 in. southwest and generally 5 to 12 in. elsewhere except 12 to 21 in. north central and northeast.

MISSISSIPPI: It was a very mild week for February. Temperatures were on the average 5° above normal. Some stations were as many as 8° above normal. Rain fell on an average of 2 days in response to a low pressure system moving through the State the 16th and 17th. Rainfall totals averaged close to 2.00 in. Highest temperature was 80° and the lowest was 26°. The greatest daily rainfall amount was 3.62 in. at Port Gibson.

Soil moisture surplus. With the surplus moisture situation days suitable for fieldwork was limited to 1.0. Hay, roughage and feed grain supplies adequate. Wheat and livestock condition fair. Pasture condition poor to fair.

MISSOURI: Much warmer air returned to the State as temperatures ranged from 3 to 9° above normal. Precipitation was less than 0.25 in. for most of the State and between 0.50 to 0.75 in. in northeast.

MONTANA: Temperatures very mild, averaged 11 to 22° above normal. Temperatures reached 60's over parts of southwest, central and south central. Highest 69° Zortman, lowest 6° Glasgow and Havre. Precipitation was moderate to heavy west and mountains of southwest. Some areas received 3.00 to 5.00 in. of moisture.

Winter wheat condition good, snow cover fair to good. Warm weather removed most of snow cover, but was replaced by new cover 21st. Cattle and calves, sheep and lambs condition good. Calving and lambing proceeded normally with good weather. Stock water supplies mostly adequate.

NEBRASKA: Temperatures: 11 to 18° above normal. Precipitation: Isolated light rain at midweek ranged from trace amounts to 0.10 in.

NEVADA: Pacific storm brought warm, moist air. Early and middle part of week several weak low pressure systems moved across State with relatively warm rains for time of year. Melting of snow pack at lower elevations, some flooding west. Temperatures near record levels end of period.

Fieldwork started extreme south after storms. Warm, spring like weather easy on newborn calves and lambs.

NEW ENGLAND: Precipitation averaged between 0.25 and 0.50 in., except over the southeast corner of New England where amounts over 1.50 in. were reported. Most occurred as snow on the 19th and 20th. Temperatures: At start of week above normal, with some 50° readings in southern New England on 16th. Temperatures returned to near normal by midweek.

NEW JERSEY: Temperatures 5 to 7° above normal, averaging 36° north, 41° south and 40° coastal. Extremes: 22° at Charlottesville and 67° at Pomona. Precipitation near normal averaging: 0.63 in. north, 0.68 in. south and 0.76 in. coastal. Heaviest 24-hour total: 0.55 in. at Cape May Court House.

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

NEW MEXICO: Open, mild weather permitted outdoor activity to proceed unhampered. Wheat, barley, onions progressing well; spring lettuce emerging. Field preparation for planting cotton, chile active. Ranges fair to good condition; livestock mostly good.

NEW YORK: Mild through most of the period especially early in the week when daytime temperatures reached in the 40's and lower 50's. Briefly cold on 17th with moderate to mild weather for the remainder of the week. It was dry until 19th when 3 to 7 in. of snow occurred in central and eastern sections. Snow and rain noted in west. Precipitation water content 0.25 to 0.50 in. Another light snow in western and central areas 21st with up to 3 in. of snow in the southern tier. Precipitation water content 0.10 to 0.25 in.

NORTH CAROLINA: Temperatures: 6 to 8° above normal, except 2 to 4° above normal in the northeast. Precipitation: 0.33 in. at Elizabeth City to 2.20 in. at Wilmington.

Fieldwork: 1.0 days suitable. Soil moisture: 33% adequate and 67% surplus. Conditions: Wheat 43% fair, 56% good, 1% excellent; oats 5% poor, 42% fair, 52% good, 1% excellent; barley 3% poor, 47% fair, 50% good; rye 1% poor, 41% fair, 57% good, 1% excellent; pastures 14% poor, 49% fair, 37% good. Supplies: Hay and roughage 8% short, 85% adequate, and 7% surplus; feed grains 2% short, 88% adequate, 10% surplus. Major farm activities: Tending livestock, repairing equipment, and preparing tobacco plant beds.

NORTH DAKOTA: Weather unseasonably warm. Average temperatures ranged from 8° above normal east to near 20° above normal southwest. Extremes from -7° east central on the 15th to 61° southwest on the 21st. Precipitation below normal. Average precipitation ranged from a trace west to 0.10 in. southeast. Warm temperatures continued to reduce snow cover. Greatest snow depth reported was 17 in. on the 21st, north central.

Warm weather caused some local flooding problems in southwest. Livestock enjoyed warm temperatures. Potential spot shortages of feed aided by improved weather. Farmers monitoring stored grain for insect activity and water seepage with rising temperatures.

OHIO: Springlike weather from 5 to 10° above normal eases livestock stress. Melting snow cover exposing winter wheat. Average highs ranged from upper 30's north to upper 40's south; lows averaged near 30°. Soil temperatures recover from winter time lows. Precipitation ample without being excessive.

OKLAHOMA: Temperatures were generally above normal except for the south central sections, where

they averaged 5° below normal. Warmest in the State was the Panhandle, where the average was 11° above normal. Precipitation amounts were light, with no precipitation being reported in the northeast and central. Highest amount reported was 0.38 in. in the south central.

Above normal temperatures coupled abundant moisture allowing wheat break dormancy. Wheat good to fair condition.

OREGON: Freezing weather of previous week gave way to much warmer weather, resulting in mean temperatures 4 to 11° above normal. Maximum temperatures in low 60's at coast and north central areas and high temperatures near 60° in extreme east. Heavy rains which brought as much as 7.50 in. at coastal stations and from 3.00 to 6.40 in. rain in Willamette Valley caused flooding west of Cascades and, together with the warmer temperatures, melted snow east of Cascades. South central areas had amounts ranging from 0.30 to 1.60 in.

Soil moisture supplies mostly adequate to surplus in east; mostly surplus west. Winter wheat reported fair to good west; good to excellent east. Aerial weed spraying and fertilizing continuing. Filbert orchards still shedding pollen. Other orchard activities include pruning, fertilizing, and dormant spraying. Range and pasture fair to good. Livestock condition good. Feed supply adequate.

PENNSYLVANIA: A series of low pressure disturbances affected all of the State during the week. Average precipitation across the area was approximately 0.90 in. and was in the form of mixed snow, freezing rain, and rain. Around midweek, a narrow band of heavy snowfall was reported in the south central counties which ranged from 4 in. to nearly a foot. Temperature extremes: 62 and 10°.

PUERTO RICO: Island average rainfall 0.78 in. or 0.11 in. above normal. Highest total 3.50 in. Temperatures averaged about 76° on Coasts and 71 to 70° Interior Divisions. Extremes: 90 and 48°.

SOUTH CAROLINA: Temperatures averaged above normal in all sections. Heavy thunderstorms 16th in most areas brought normal rainfall amounts.

Weather permitting, tobacco and vegetable lands prepared for spring planting. Fruit trees and vines pruned, equipment maintained and livestock cared for.

SOUTH DAKOTA: Average temperatures well above normal. Average temperatures ranged from 13 to 23° above normal. Extremes: 75 and 12°. Precipitation below normal except parts of northeast quarter of State.

TENNESSEE: For February, the week was mild and wet. Rain moved through the State on 18th averaging over 1.00 in. and temperatures were 7 to 13° above normal. The weather began clearing on 19th and the weekend was sunny and mild.

Chores and livestock feeding were the main farm activities.

TEXAS: Weather: Cold fronts caused cloudiness, few showers Panhandle, East Texas. Upper level weather system caused heavy showers southern half Texas with most rain Lower Valley. Temperatures 8 to 11° above normal. Rainfall below normal northern half of Texas, above normal in southern areas.

Commercial vegetables: Rio Grande Valley harvest of spinach, cabbage, carrots, celery, broccoli, lettuce continued. Watermelon planting continued. Onions progressing well, harvest underway soon. Citrus harvest continued, demand has improved. San Antonio-Winter Garden area harvest of

cabbage, carrots, lettuce remained active. Uvalde harvest of spinach continued. Irrigation has been heavy. Planting of watermelons, potatoes continued. Trans-Pecos region land preparation, preplant irrigation progressing steadily. Spring onions continue to develop well.

Range and livestock: Range, pasture condition showed little improvement as dry conditions continued. Grazing very short in most areas, lack of moisture halted growth of native grasses, small grains. Livestock fair to good condition, supplemental feeding heavy, supplies of hay remain good. Insects, disease problems light.

Crops: Warmer temperatures, open weather across State provided ideal conditions field operations. Land preparation corn, sorghum gained momentum across Panhandle as fields dried. Over weekend, scattered showers Blacklands, Central Texas along Coast provide good preplant moisture. Some planting activities Coast interrupted by rains. Corn, sorghum planting underway Lower Valley, Coastal Bend. Blacklands corn planting started scattered areas. Rice seedbed preparation active along Coast. Small grains beginning to recover with warmer temperatures. However, oat fields Low Plains completely destroyed by January's severe cold weather. Wheat responding warmer weather, been making good growth, where moisture supplies adequate. Recent snow Panhandle provided some moisture, but soils dry most areas. Northern High Plains cattle being removed from wheat pastures. Reported condition across State 69% of normal with 5% excellent; 32% good; 54% fair; 9% poor.

UTAH: Recurring periods precipitation forepart period. Accumulated amounts generally light to moderate. Average temperatures ranged from 3° below normal to 8° above. Few areas local flooding due to rain falling on snowpack.

Onion and apple marketing season near completion. Routine farm chores and care of livestock, repair of farm machinery, and making plans occupy most operator's time. Some increase in early calves.

VIRGINIA: Period was wet with above normal temperatures. Precipitation occurred early in period and through second half, evenly spread across State with average of 1.70 in. Average temperature departure of plus 2.3°.

Fields continued wet and muddy, limiting most outdoor farm work. Topsoil moisture was rated 15% adequate, 85% surplus. Days suitable for fieldwork: 0.2. Some farmers pruned trees in home orchards and more activity evident in preparing for maple syrup production. Potato growers on the Eastern Shore becoming anxious as fields too wet for planting, which is usually underway at this time. Small grain producers also anxious to apply nitrogen topdressing as soon as possible. Small grains reported in good to excellent condition. Flue-cured tobacco leases being negotiated and signed. Some work has been done to prepare and seed tobacco beds. Calving and lambing season well underway, and the fluctuating weather and wet conditions favoring scouring and respiratory problems. Supplies of hay and roughage judged to be 89% of normal while feed grains 90% of normal on hand due to the increased feeding necessary since the beginning of 1982.

WASHINGTON: West: Temperatures averaged 5 to 9° above normal. Precipitation was much above normal with heaviest being 3.00 in. above at Sea Tac, 6.00 in. above at Olympia, 4.00 in. above at Brenerton, 5.00 in. above at Bellingham, 7.00 in. above at Hoquiam, and 8.00 in. above at Quillayute. Very wet everywhere with localized flooding. Pruning and tying of canberries, daffodil harvest, and forced rhubarb harvest were done when weather

permitted. Winter cauliflower in average condition. Hay supplies adequate.

East: Temperatures averaged 8 to 14° above normal. Precipitation was above normal with heaviest amounts in the eastern area from Colville south to Walla Walla. Minor reports of flooding. Most snow cover on fall seeded grains melted, increasing concerns over extent of any winterkill damage. Most peel not significant to date. Calving and lambing continues. Tree fruit and grape pruning progressing. Vegetable seed crops beginning to show spring growth. Some preparations being made for spring planting. Hay supplies adequate.

WEST VIRGINIA: Temperatures averaged 8° above normal. High 65°, low 3°. Precipitation well above normal in the eastern half of the State and near normal in the western half.

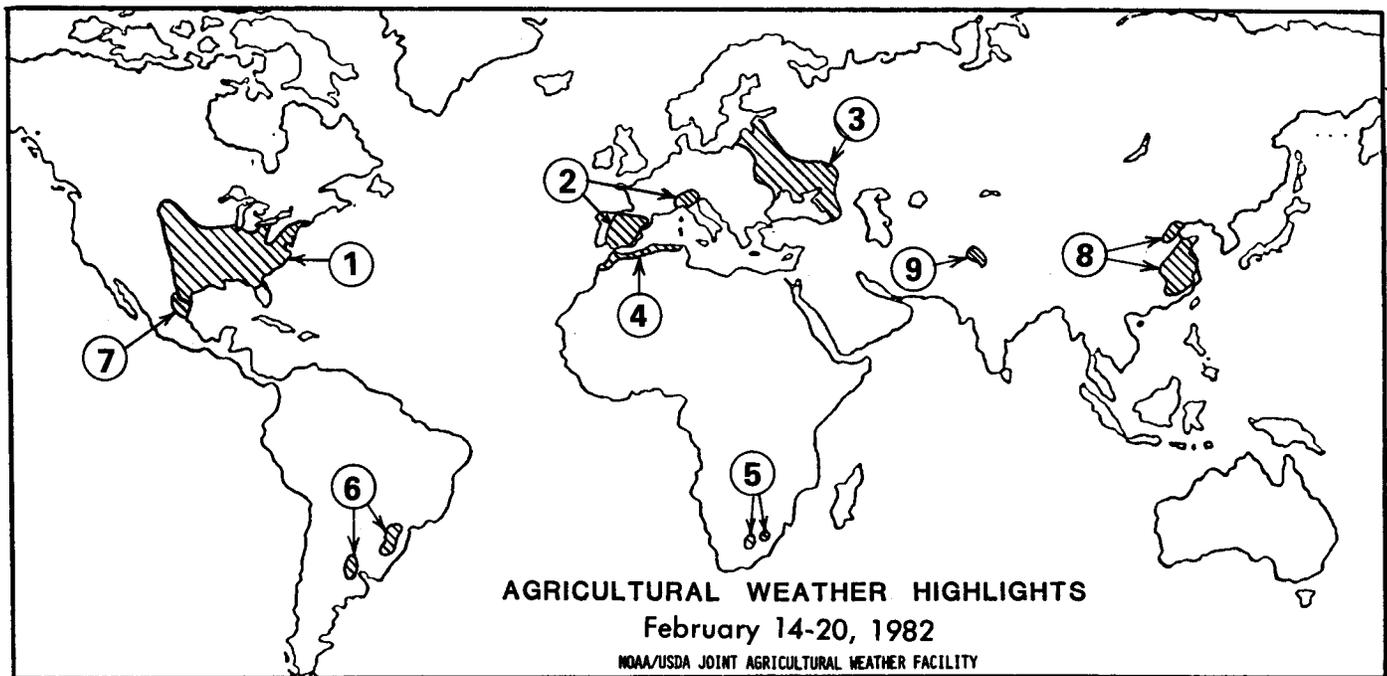
Soil moisture was reported surplus to adequate. Days worked average 0.8. Hay supplies continued to be short to adequate. Grain and other feed supplies remained adequate.

WISCONSIN: Mild, dry weather prevailed. Overnight low temperatures were in the teens and 20's during the first of the week and in the 20's and 30's during the latter portion. Daytime highs were in the 30's and 40's. Precipitation totals were zero to trace amounts. Very light snow and freezing drizzle fell at a few stations on the 16th, 17th and 18th. Low temperature, 12°, was recorded at various stations on the 15th and 16th. Warm temperature, 47°, was reported in Mondovi on the 21st.

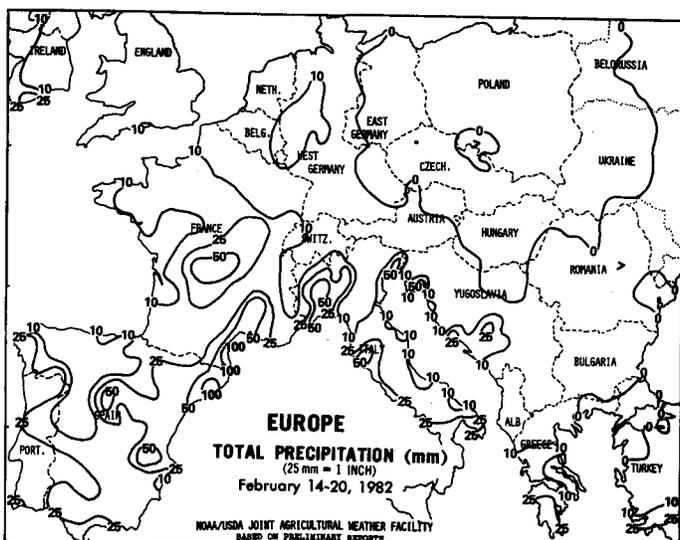
WYOMING: Very warm, dry weather returned. Temperatures averaged 10° above normal in western half and 15° above in eastern half. Highest temperature 63°. Coldest temperature 4° below zero. Greatest moisture amount: 1.60 in.

Winter wheat mostly good, wind damage reported from a few areas. Early calving, lambing farm flocks started. Sheep shearing started few areas. Livestock mostly good condition. Warmer weather reducing stress.

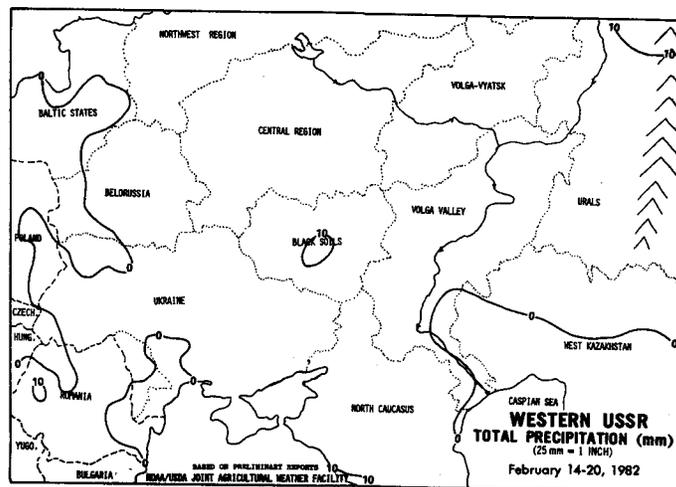
International Weather and Crop Summary



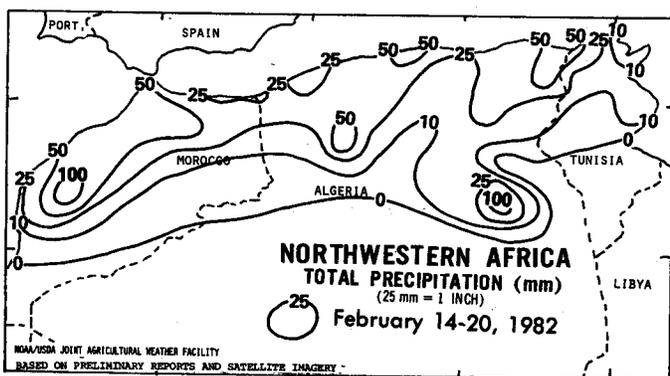
1. **UNITED STATES:** Wetness continues over the Southeast, further delaying land preparation and winter grain top-dressing. Unseasonable warmth melts much of the northern snow, aids livestock, greens wheat into southern Kansas, and permits spring grain planting in South Texas.
2. **EUROPE:** Timely rains benefit winter grains in Spain and northern Italy.
3. **WESTERN USSR:** Generally dry weather continues over most winter grain areas.
4. **NORTHWESTERN AFRICA:** Abundant rainfall benefits most winter grain areas.
5. **SOUTH AFRICA:** Some corn-growing areas remain unfavorably dry.
6. **SOUTH AMERICA:** Showers aid crops in grain-or pod-filling stages of development.
7. **MEXICO:** Rapid warming over the northeast favors planting and germination of spring crops. Seasonal weather elsewhere allows harvesting and spring planting.
8. **EASTERN ASIA:** Very light precipitation benefits China's winter grains; heavy rains continue in the south.
9. **SOUTH ASIA:** Excessively heavy rains damage some winter grains in northern Pakistan.



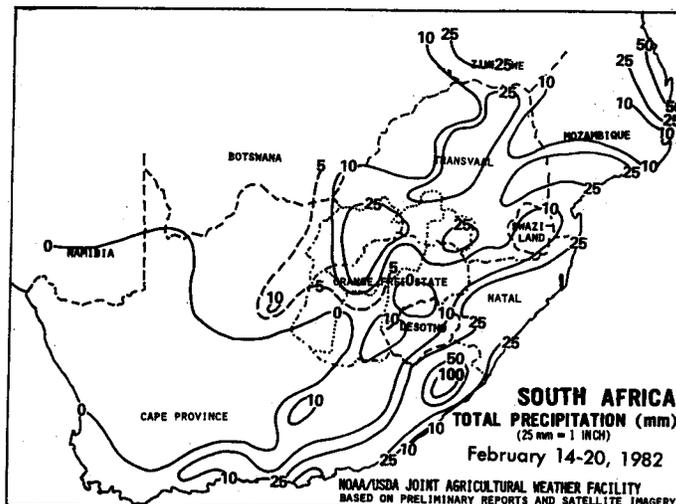
EUROPE: Timely rains early in the week benefited winter grains in Spain and northern Italy. The grain crop remained dormant in northern Italy but vegetative growth took place in Spain. In France and England, seasonal to above-normal temperatures likely induced winter grains to break dormancy. In addition, sub-soil moisture supplies should be very good in both countries. Dry weather benefited dormant winter grains in central Europe, but continued to limit normal soil moisture recharge in most southeastern crop areas. Temperatures continued below-normal over most eastern winter grain areas.



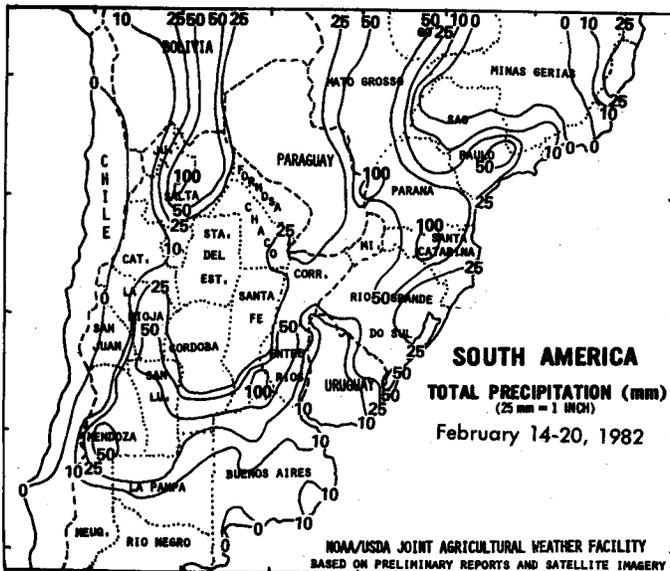
WESTERN USSR: Generally dry weather continued over most winter grain areas. Although precipitation has been light for the past 3 weeks, soil moisture conditions remain generally favorable. However, additional moisture -- particularly in the major grain area of the Ukraine -- would be highly beneficial when the crop breaks dormancy and spring growth begins. Temperatures over the region were above normal in the north and below normal in the south.



NORTHWESTERN AFRICA: A major rainstorm moved slowly across the region during the week. Above-normal rainfall in Morocco substantially improved winter grain conditions. Prospects in central and eastern Algeria remained good as generous rains fell. Northeastern Tunisia had only light rainfall by the week's end, but rainfall was continuing. Temperatures in the region stayed near normal for the most part, but edged above normal in northeastern Tunisia.



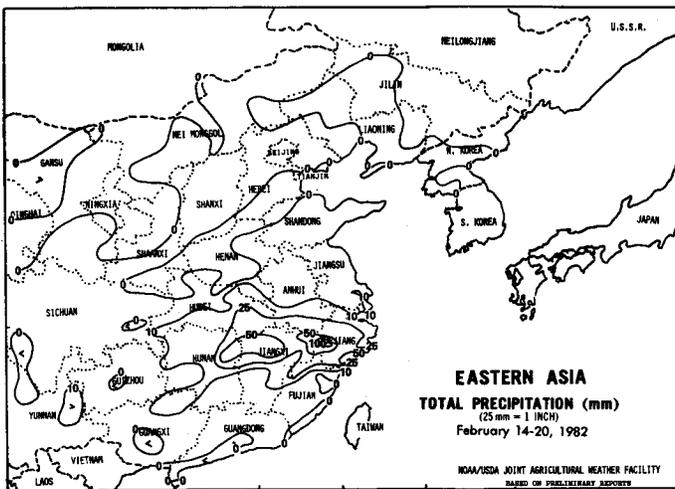
SOUTH AFRICA: Beneficial showers continued over much of the Maize Triangle, although dry conditions persisted in some important areas. Some locations that had become relatively dry in recent weeks had beneficial rainfall. In spite of mounting South African concern about conditions, overall yield prospects should not yet have fallen substantially. Some minor southwestern crop areas have remained too dry, and serious yield losses can be expected. Temperatures remained above normal, but unfavorably hot weather was of limited extent and not so extreme.



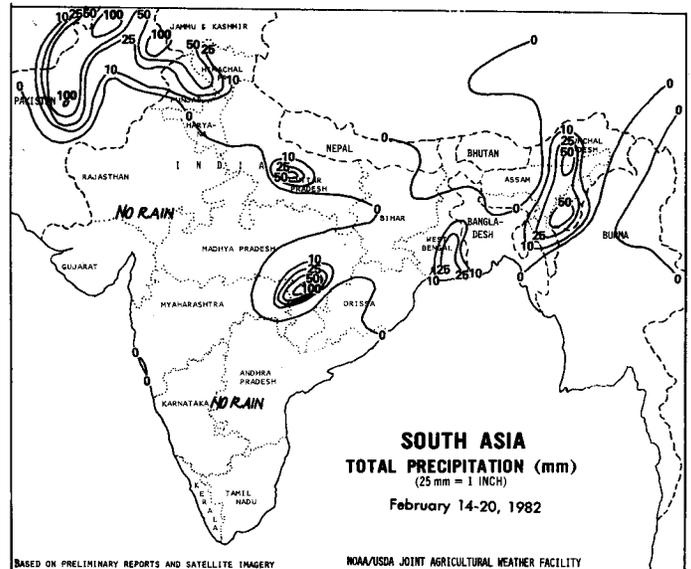
SOUTH AMERICA: Crops are advancing into the grain or pod-filling stages of development with generally adequate moisture supplies. Showers and thunderstorms produced 25 to 50 mm of weekly rainfall in many corn and soybean growing areas. Some locally heavy showers may have produced excessive amounts at scattered locations in Argentina and Brazil; however, overall conditions are favorable for crop growth as early-seeded crops approach maturity. Second-crop soybeans in Argentina are flowering and setting pods. In Brazil, shower activity in southern crop areas sustained topsoil moisture supplies which aided development of corn and soybeans. Some premature soybean leaf shedding has been reported due to the prolonged January dry spell. Early crop harvest has begun in northern crop areas.



MEXICO: A rapid change of seasons, from cold winter to warm spring, over the Northeast generally favored planting and germination of corn, grain sorghum, and tender vegetables. However, localized heavy rains in northern Tamaulipas State may have delayed some field work but improved soil moisture. Seasonal weather continued over most other principal agricultural areas, allowing harvesting of mature winter crops and spring planting.



EASTERN ASIA: Very light precipitation, mostly less than 5 mm, fell over much of the North China Plain. However, a substantial area along the Yellow River and in western Henan remained dry, and concern about the dryness seems to be mounting in China. Temperatures in the area rose above normal, but were still mostly too cold for winter grain growth. Heavy rain continued south of the Yangtze River. The moisture benefited winter grains in this minor production area and increased preplanting moisture supplies. Southern coastal areas had little or no rainfall. In South Korea, beneficial rain of 15 to 30 mm fell on southern winter grain areas as above-normal temperatures allowed some renewed growth.



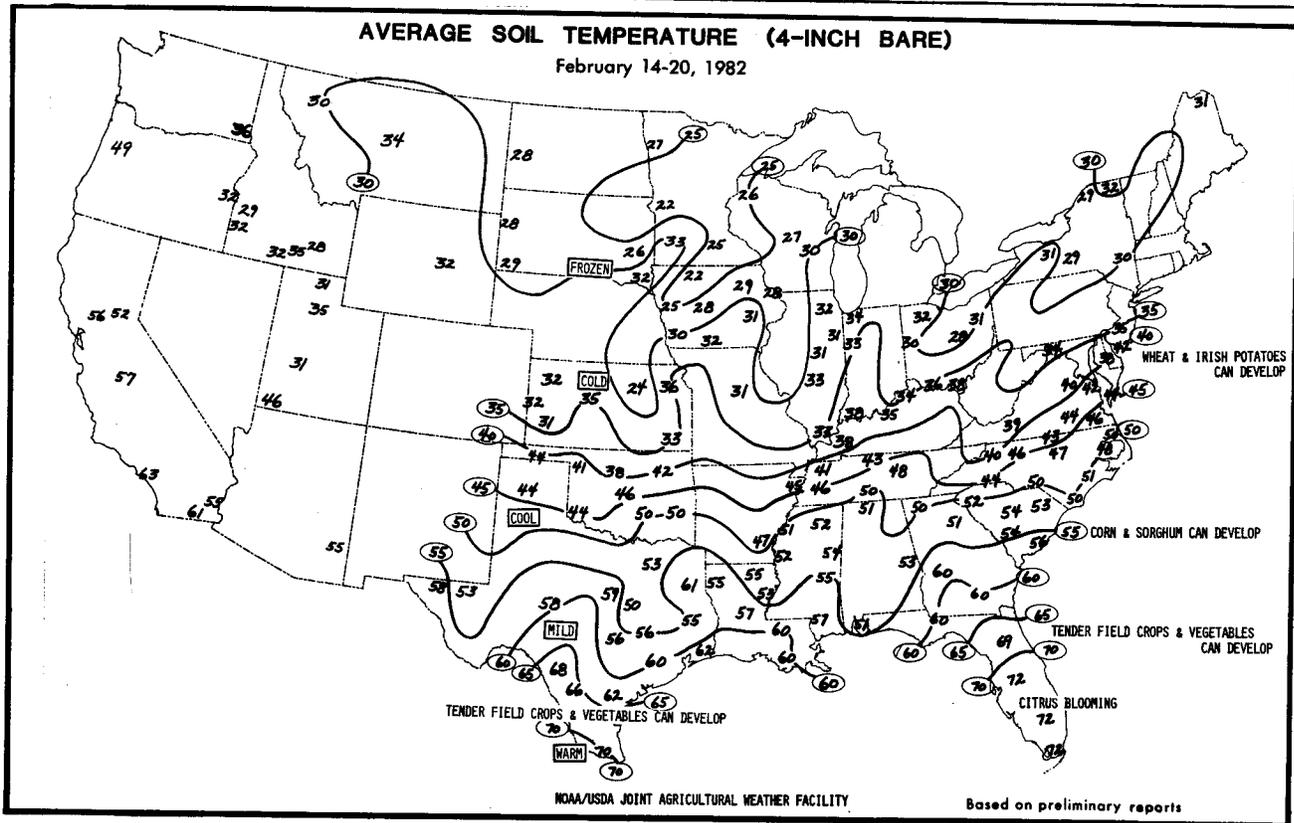
SOUTH ASIA: Excessively heavy precipitation occurred in parts of northern Pakistan late in the week, causing some flooding and damaging winter grains. Other crop areas in northern Pakistan and India benefited from the rain, with winter grains in the heading stage. Fair weather prevailed over central India where winter grains neared maturity and harvest prospects remained very good. Showers in eastern India benefited winter crops, but most of Bangladesh remained unfavorably dry, and crop prospects were reportedly not good. Temperatures rose above normal over most of India and Bangladesh, but stayed below normal in northern Pakistan.



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