

WEEKLY WEATHER AND CROP BULLETIN

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

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

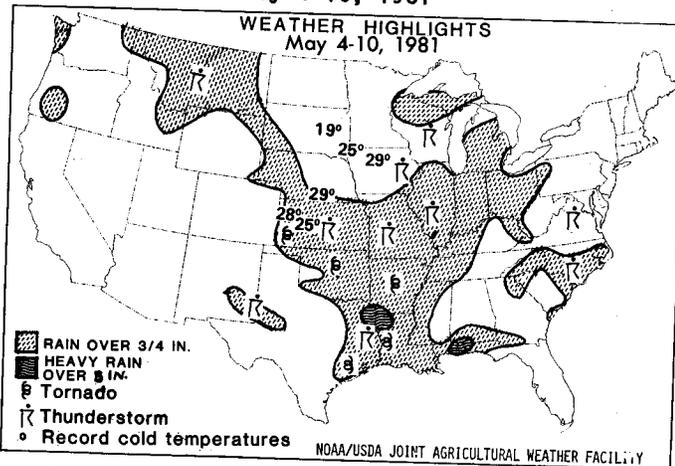
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May 12, 1981

National Weather Summary

May 4-10, 1981



HIGHLIGHTS: Moderate to heavy rain through most of the southern and central Plains gave temporary respite from the severe drought that had gripped much of the area. The rain moved northeastward through the Corn Belt making fields too wet for farmwork. Very cold air behind a strong cold front brought freezing temperatures as far south as Kansas and Nebraska.

MONDAY... A cold front pushed through the Mississippi Valley with accompanying showers and thunderstorms. Showers were scattered from eastern Texas to Wisconsin. Heavy rain fell in southeastern Texas for the third day in a row, bringing new flooding from swollen streams. Strong thunderstorms broke out behind the front late in the day. Hail fell in the Texas Panhandle and tornadoes were spotted in the coastal Plains of Texas and in Oklahoma. Another frontal system in the West brought widely scattered showers to the Pacific Northwest and the northern Rockies.

TUESDAY... Cool weather settled over the northern Plains. Temperatures in the thirties extended into Minnesota. The slow-moving cold front scattered showers and thunderstorms from Louisiana to Michigan. The heaviest rain fell in Louisiana. Thundershowers also fell over the Rockies from New Mexico to Montana. An unusually cold, moist air mass moved into the northwest and caused snowshowers in some areas.

WEDNESDAY... Winter-like weather returned to the northern Rockies. The cold front moved through the Rockies during the morning. Cold rain was scattered across Montana, while snow fell in the mountains. Butte, Mont., was covered with 3 inches of snow. Severe thunderstorms developed over the central Rockies and western Great Plains as the cold air pushed eastward, producing hail and several tornadoes. The slow-moving cold

front in the East dumped heavy rain along the gulf coast and showers over the eastern third of the Nation.

THURSDAY... The cold front moved into the Plains, leaving the Rockies whitened with snow. Cold, gusty, northerly winds blew through the mountains behind the front while strong southerly winds warmed the Plains. The Dakotas reached the sixties. Severe weather produced at least five tornadoes along the front in western Texas. Rains and showers ended in most of the East, but lingered in the Southeast. Tropical storm Arlene developed in the Caribbean, but posed no threat to the United States.

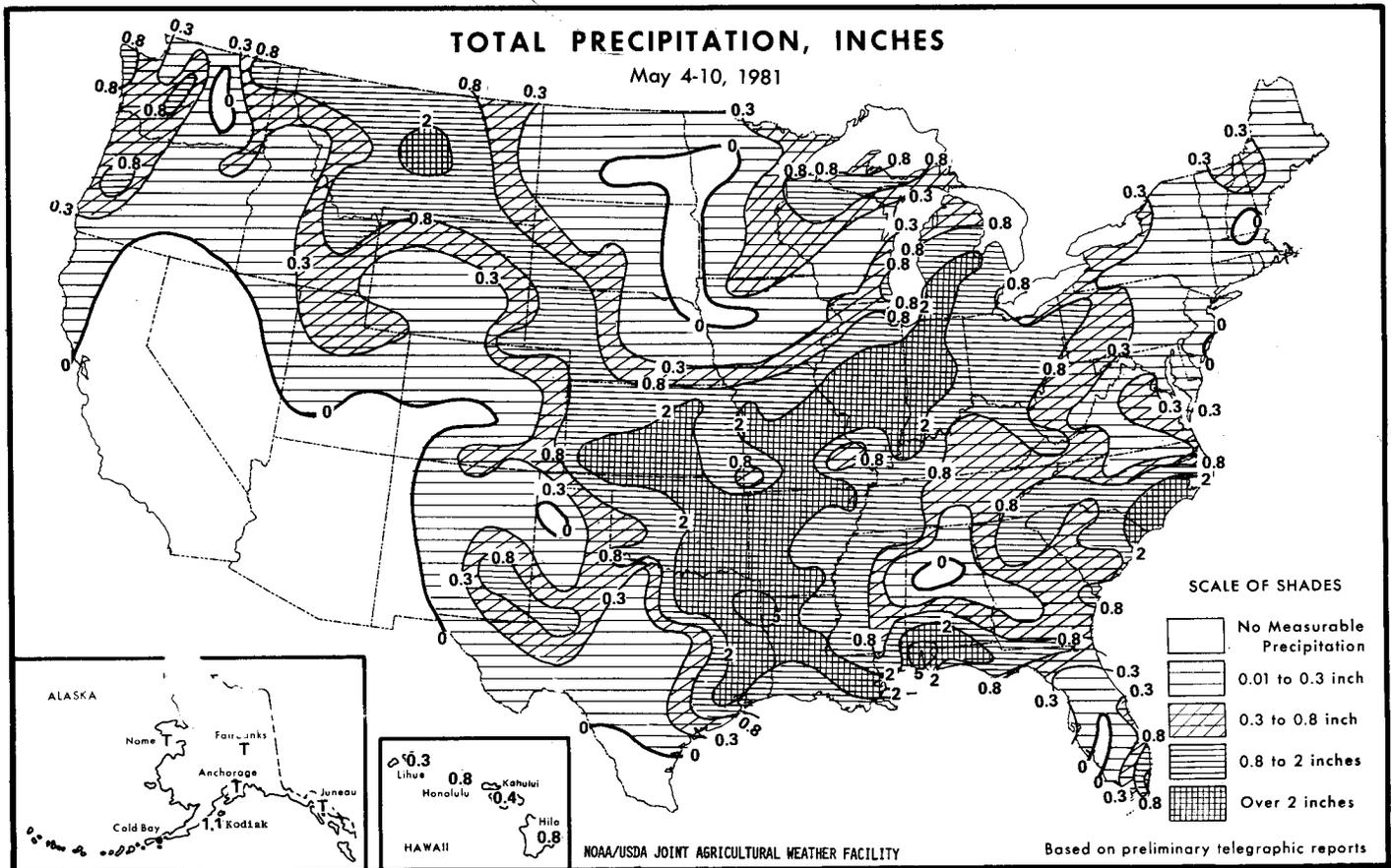
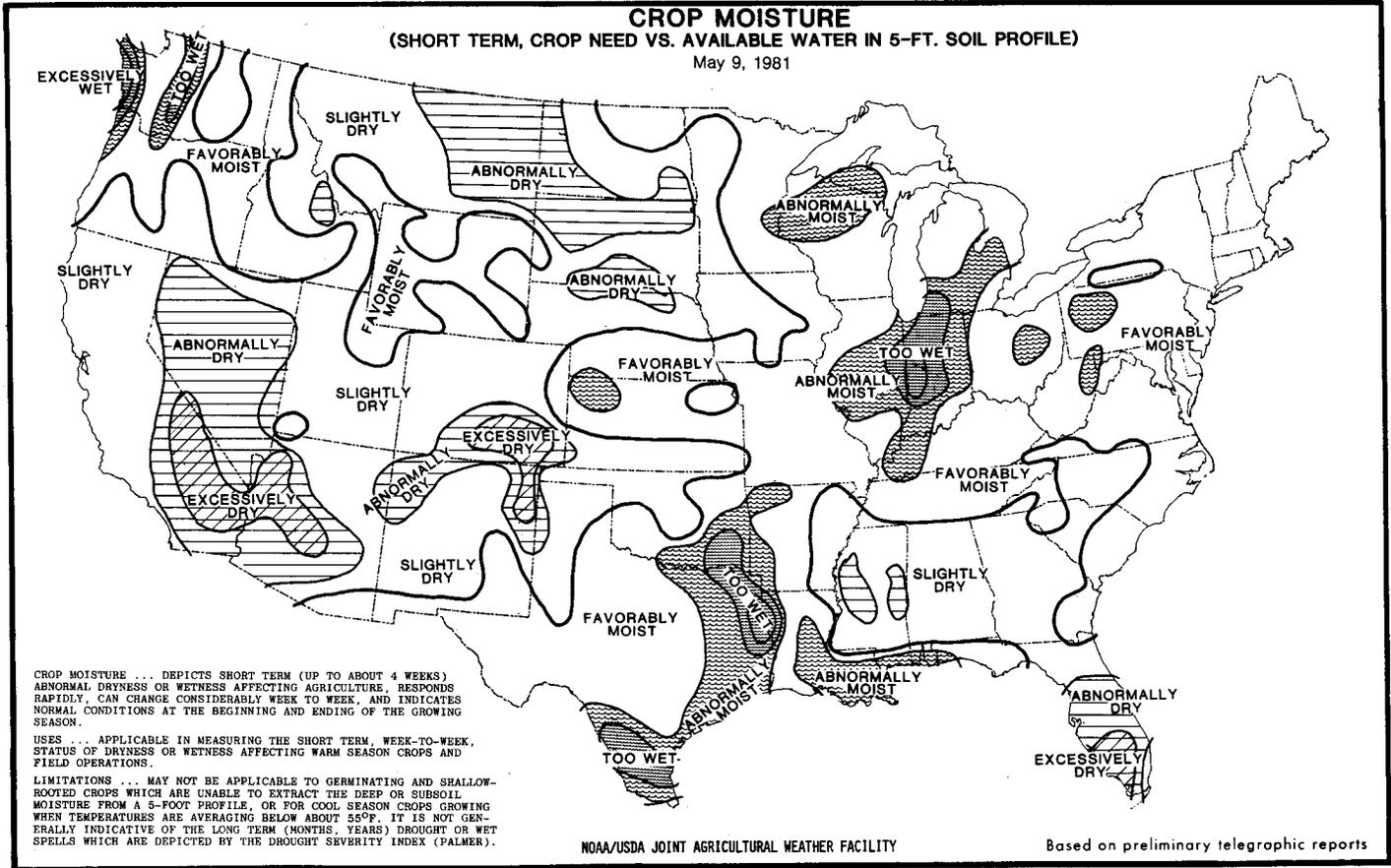
FRIDAY... Showers and thunderstorms continued through the Plains from Texas to the Dakotas. Moderate rain fell over portions of eastern Montana where drought conditions prevail. Isolated heavy rain accompanied some storms in Texas and Oklahoma. Tornadoes hit again in Texas and Kansas. The cold weather reached across the Plains to the Great Lakes but the central and southern Plains remained in the warm air.

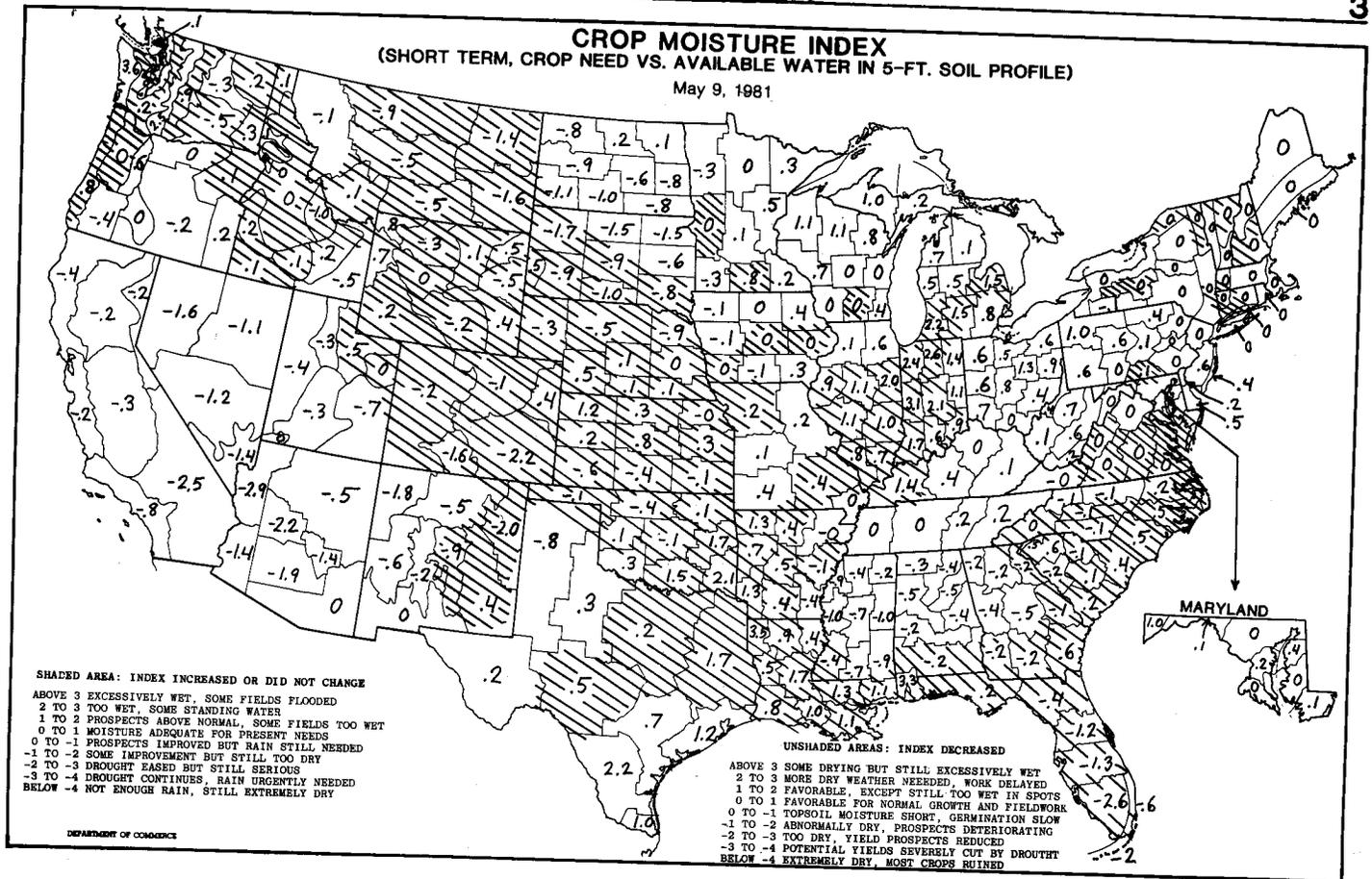
SATURDAY... Intense thunderstorms again developed over parts of southern United States from eastern Texas through Arkansas. Tornadoes were reported in Texas, Louisiana, and Arkansas. Rains also spread into portions of the middle Mississippi and Ohio Valleys. Cold weather pushed through the northern Plains as far east as Michigan and south into western Nebraska.

SUNDAY... Record cold temperatures occurred in the central and northern Plains. Temperatures in Goodland, Kan., dropped to 28°; Sioux Falls, S. Dak., 25°; and Huron, S. Dak., 19°. Heavy thunderstorms rumbled across the Ohio Valley, producing hail and damaging winds. Showers and some thunderstorms developed later over the mid-Atlantic States and were widely scattered over the Southeast.

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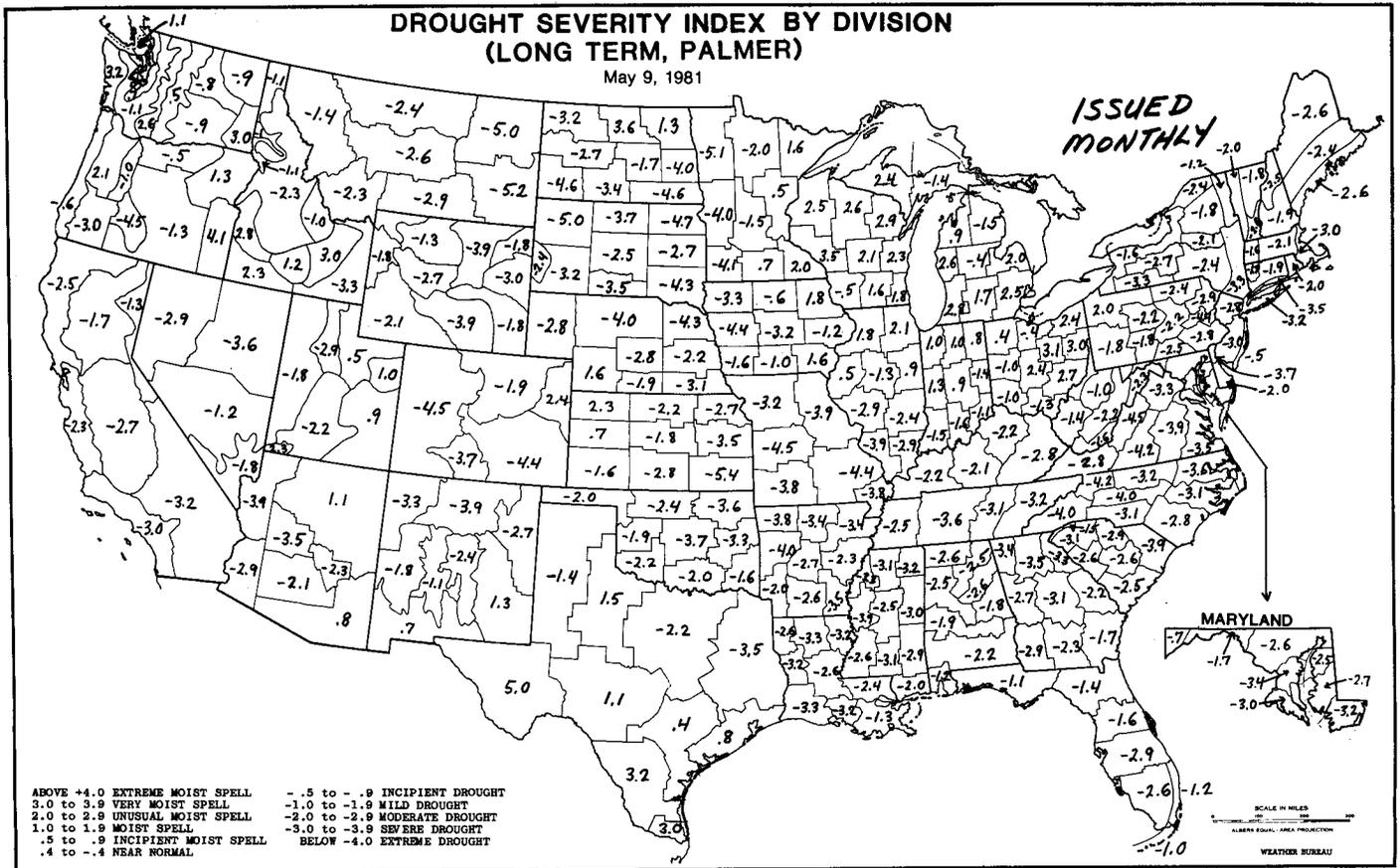
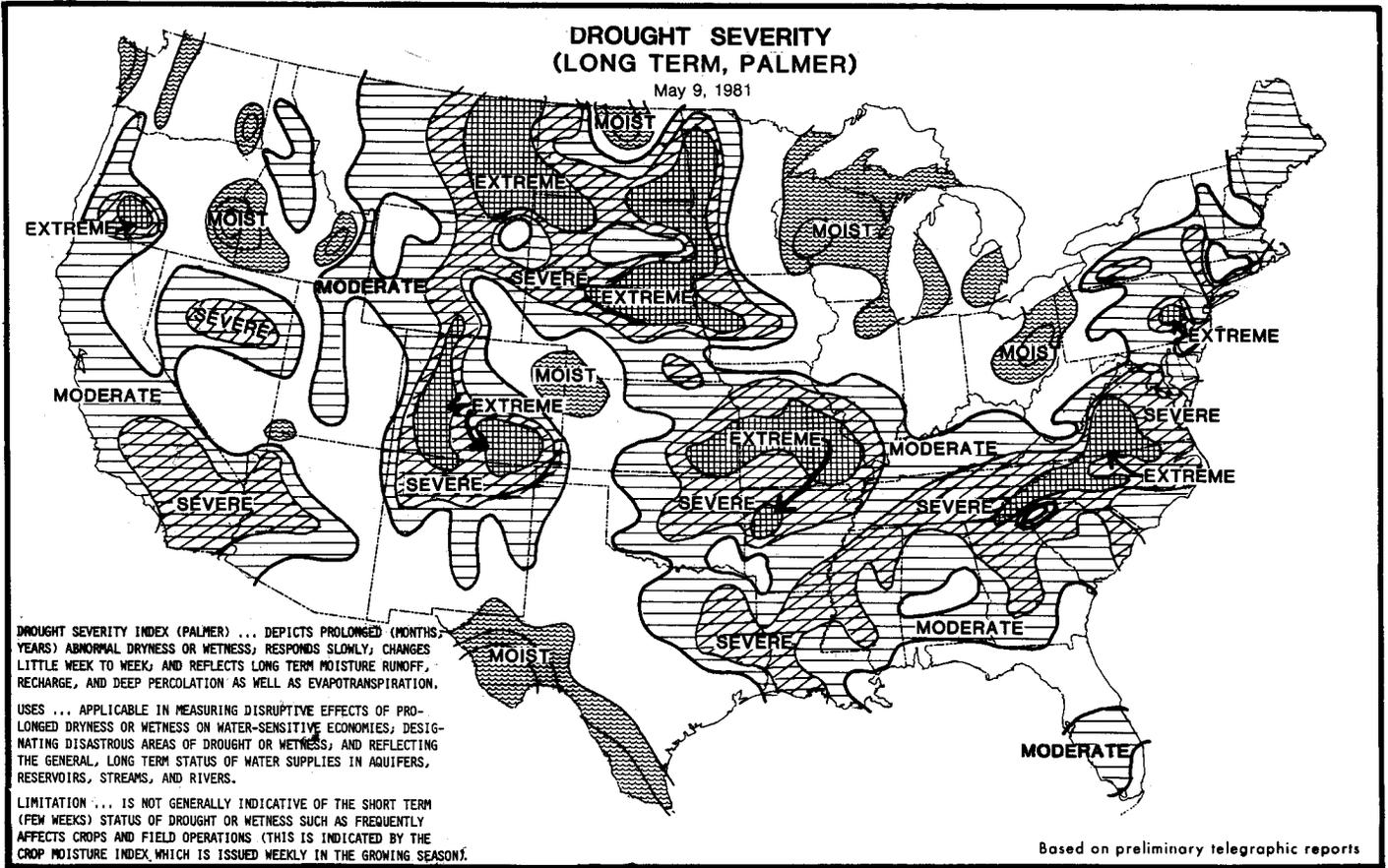
The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

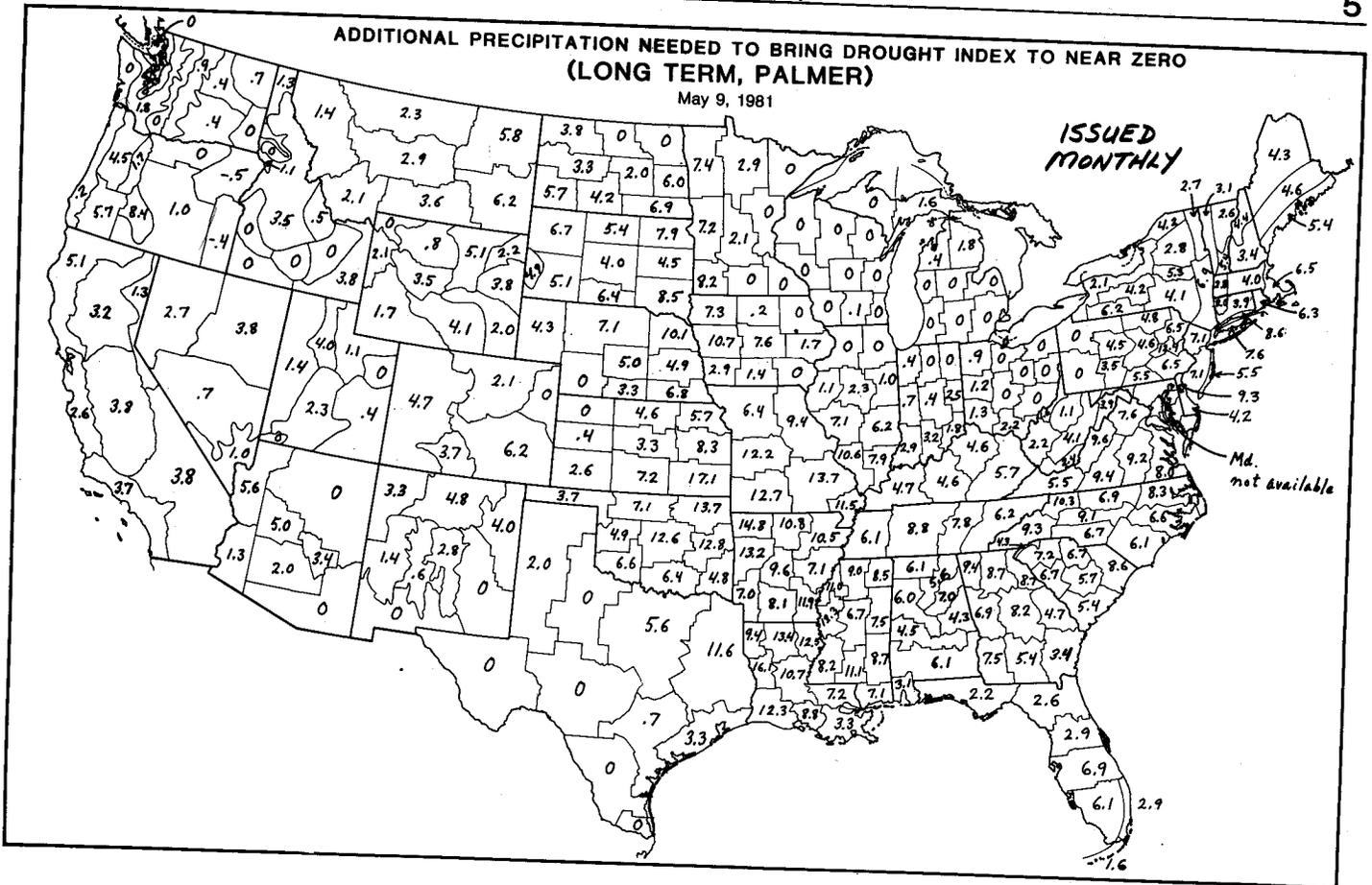
If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and

the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index.





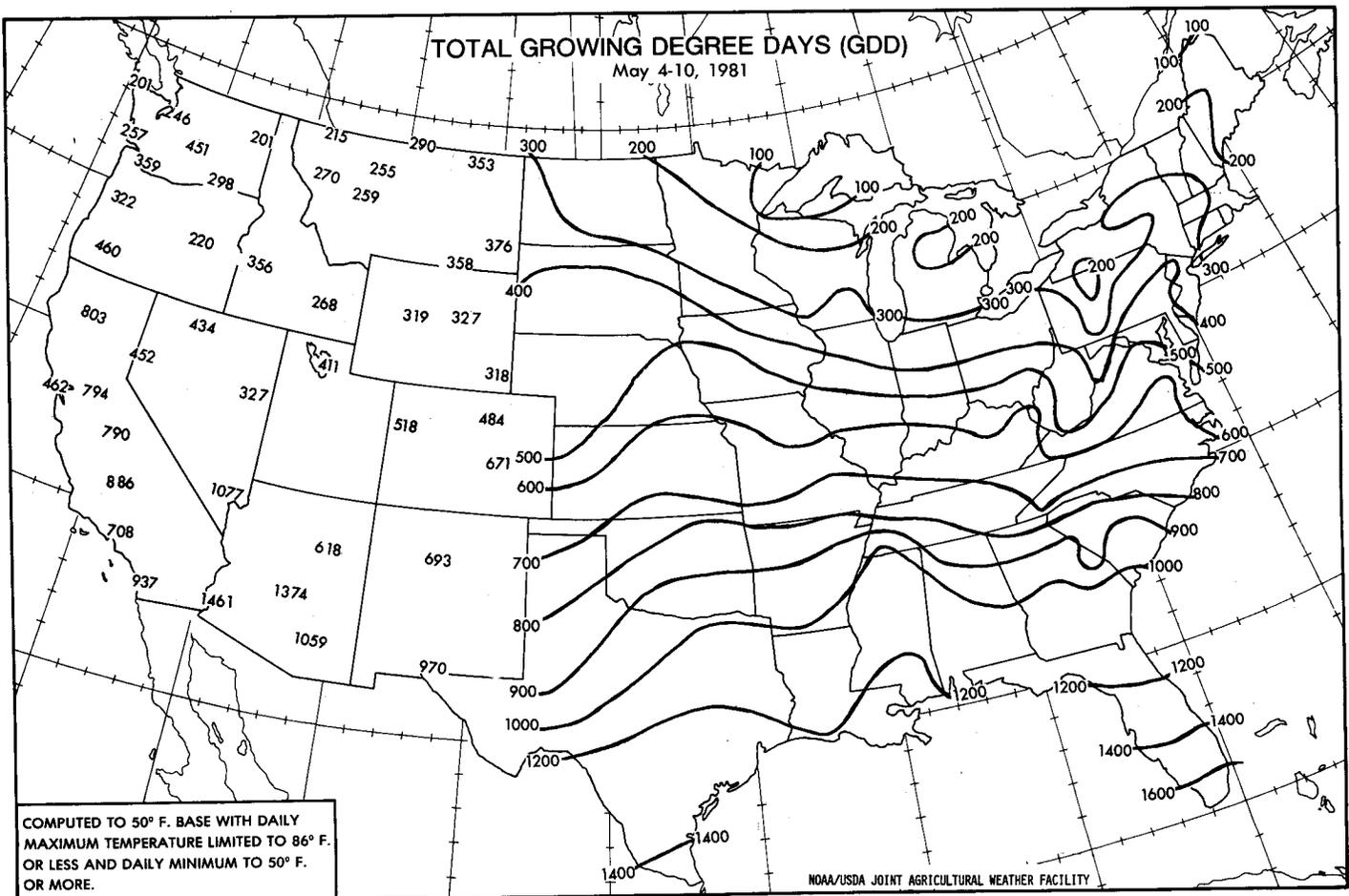
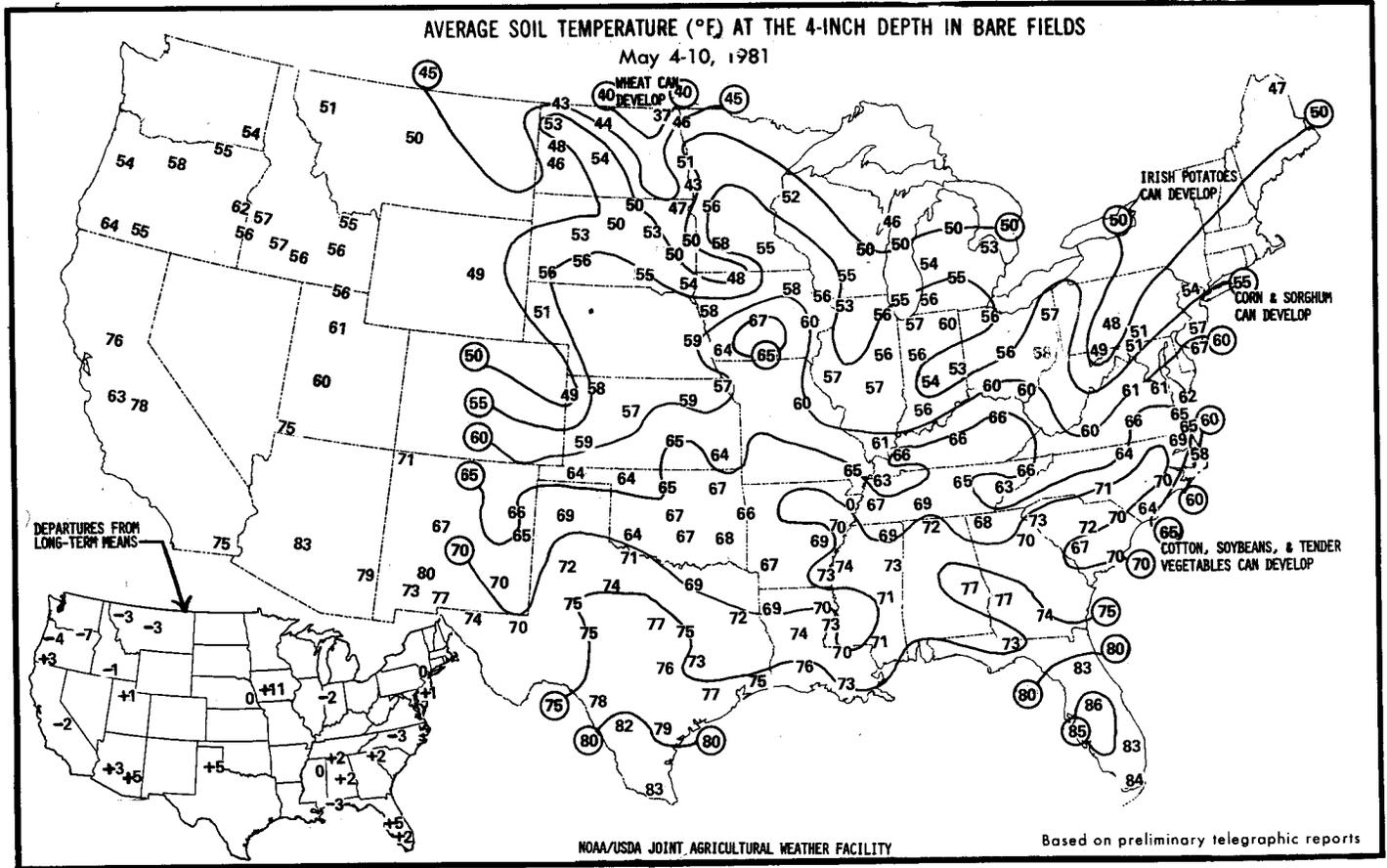
DROUGHT SEVERITY INDEX (PALMER)

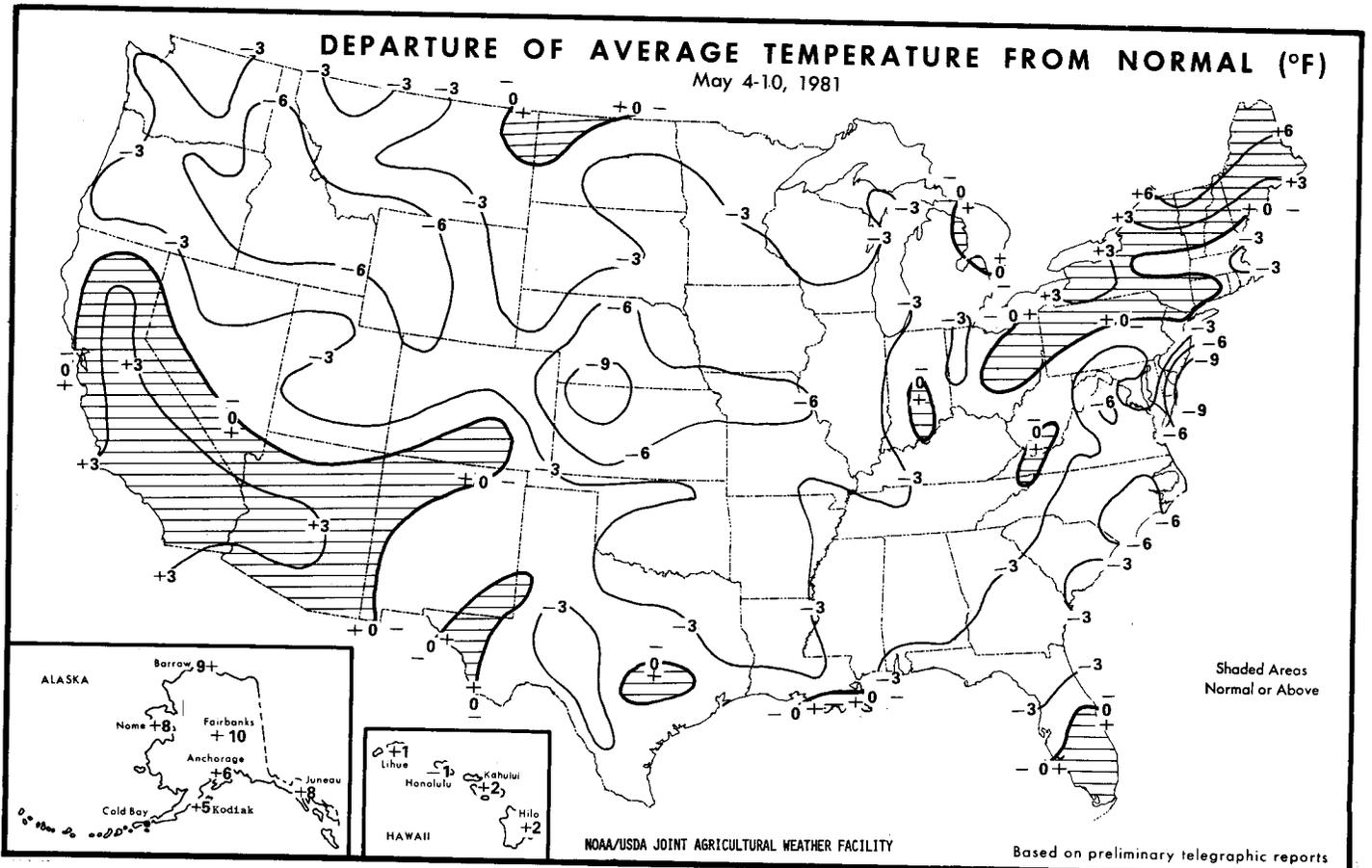
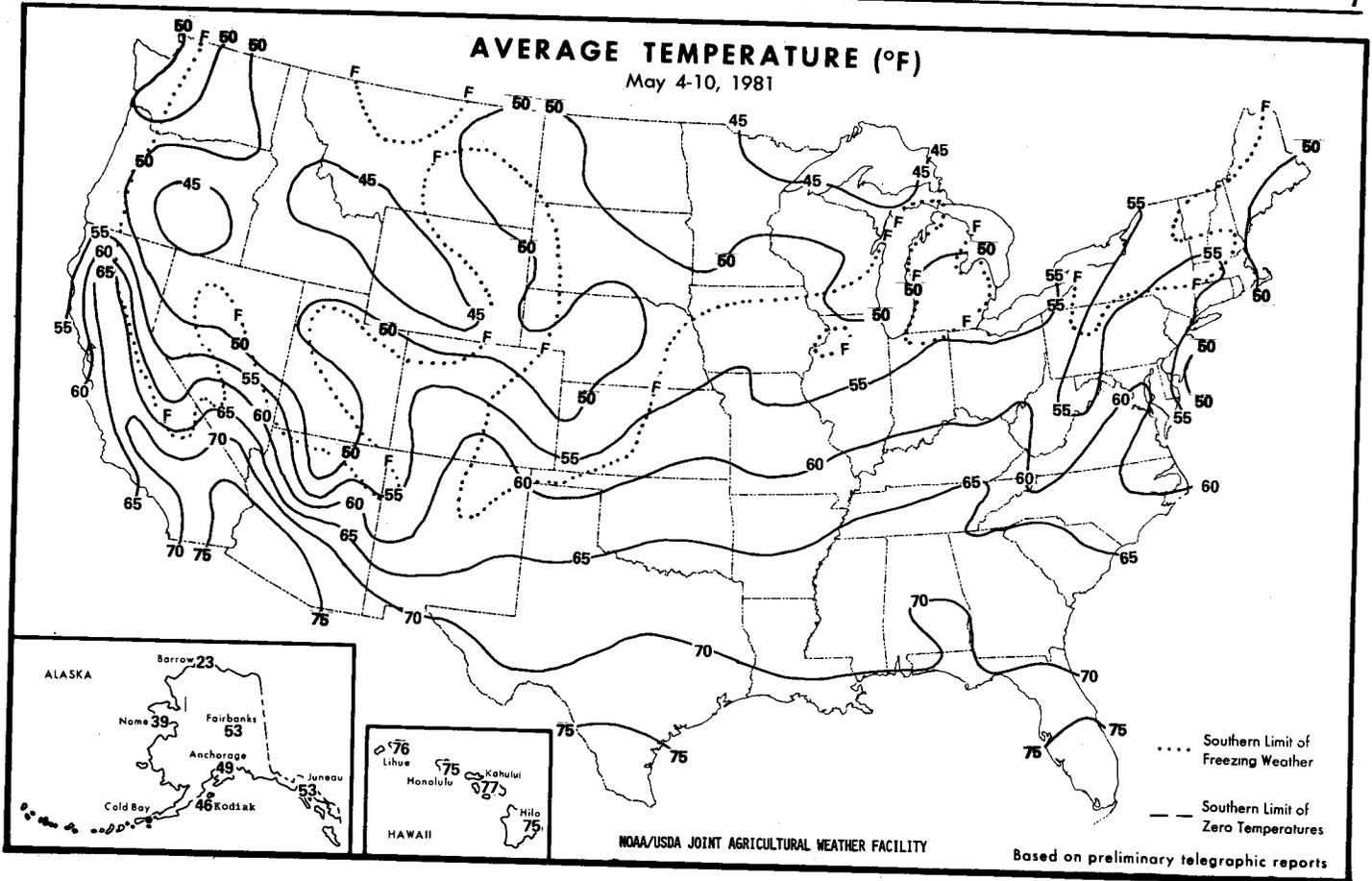
The Drought Severity Index is an indicator of meteorological drought, which may be defined as a prolonged and abnormal moisture deficiency. The general concept is one of supply and demand. Supply is represented by precipitation and stored soil moisture. Demand is the combination of potential evapotranspiration, the amount needed to recharge the soil moisture, and the runoff needed to keep the rivers, lakes, and reservoirs at a normal level. The results of this water balance accounting produce a positive or negative anomaly which is then weighted by a climate factor. The final product is an index that expresses the abnormality for that particular place for the period of time being computed. This manipulation allows the index to have a reasonably comparable local significance in space and time, that is, a certain index value obtained for a division in New York would have the same local significance as a like value in the more arid areas of western Kansas. This monthly increment is added to a portion of the previous month's index to include the duration of the anomaly in the final index.

The index was designed as a climatological indicator of the scope and severity of past droughts. Using the index on a real-time basis presents difficulties. A day or so of normal or better rainfall is certainly welcome in an area that has experienced a long drought, but one cannot know whether it indicates the end of the drought or just a brief respite. In order to make the program have some real-time value, a system of com-

puting a "probability" that a weather spell has ended was devised. This is not entirely satisfactory, but does allow one to assign a definite index value at times when there may be some doubt as to whether it should be positive (wet) or negative (dry).

Another aspect of using the Drought Index is that one must remember that the demand part of the computations includes three parameters-- potential evapotranspiration, recharge of soil moisture, and runoff, any one of which may produce a negative index. For instance if only enough rain fell to satisfy most of the expected evapotranspiration, but not enough to supply the expected recharge and runoff, then a negative index would result. If such a situation continued then one might find that agriculture was progressing at a near normal pace but the index would be indicating a worsening drought. In this situation the drought would cause shallow wells and springs to go dry and the levels of rivers, lakes and reservoirs to fall below normal and, if this odd situation continued long enough, would cause serious economic stress to the livestock industry and eventually to other industries and cities. Then, if rainfall fell below the minimum needed for agriculture, crops would suffer drastic and rapid decline because there would be no reserve water in the soil. Such a situation, to some extent, occurred during the Northeast drought in the 1960's when New York City almost ran out of water.





Weather Data for the Week Ending May 10, 1981

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 Mar. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	79	58	86	53	68	3	T	-1.0	T	9.2	77	15.6	70	83	43	0	0	0	0
MOBILE	77	60	82	58	69	-1	8.0	-6.8	8.0	12.0	79	22.0	92	95	59	0	0	3	1
MONTGOMERY	79	62	84	58	70	3	.7	-.2	.4	11.6	102	19.8	95	87	54	0	0	2	0
AK ANCHORAGE	61	39	71	36	50	12	T	-.1	T	.7	64	2.8	100	79	37	0	0	0	0
BARROW	29	20	38	6	24	20	T	0	T	-.1	-.1	-.1	97	82	0	6	1	0	0
FAIRBANKS	65	41	69	33	53	19	T	-.1	T	.3	33	1.3	72	48	28	0	0	1	0
JUNEAU	65	40	76	35	53	12	T	-.7	T	3.8	51	13.1	89	84	34	0	0	0	0
KODIAK	50	41	58	34	46	8	1.1	-.2	.4	11.6	130	30.3	160	98	73	0	0	3	0
NOME	43	33	49	23	38	15	T	-.1	T	2.4	150	5.3	161	81	65	0	2	1	0
AZ FLAGSTAFF	66	34	70	30	50	6	0	-.3	0	5.5	157	8.0	113	60	17	0	2	0	0
PHOENIX	92	66	96	65	79	10	0	-.1	0	1.2	92	3.1	129	29	8	7	0	0	0
TUCSON	88	56	90	53	72	6	0	-.1	0	2.9	264	5.0	200	44	8	2	0	0	0
WINSLOW	79	53	80	45	66	10	0	-.1	0	.5	50	1.4	74	37	12	0	0	0	0
YUMA	94	66	103	61	80	6	0	0	0	.2	25	1.0	71	44	13	6	0	0	0
AR PORT SMITH	69	57	72	47	63	-2	2.8	1.6	1.6	8.9	87	13.2	84	92	68	0	0	5	2
LITTLE ROCK	71	56	77	49	64	-1	1.5	-.3	1.0	7.6	63	13.8	67	98	67	0	0	5	1
CA BAKERSFIELD	84	56	94	52	70	6	0	-.2	0	2.4	133	4.3	108	53	16	2	0	0	0
EUREKA	57	46	60	42	51	1	T	-.6	T	5.3	62	16.5	77	87	67	0	0	1	0
FRESNO	84	51	92	47	68	6	0	-.3	0	3.2	94	7.5	110	59	16	2	0	0	0
LOS ANGELES	74	56	81	54	65	3	0	-.2	0	2.9	91	6.6	81	84	54	0	0	0	0
RED BLUFF	82	54	89	47	68	7	0	-.4	0	6.7	143	14.1	112	52	17	0	0	0	0
SAN DIEGO	73	62	81	60	68	6	T	-.1	T	3.0	120	8.5	144	87	58	0	0	0	0
SAN FRANCISCO	68	46	76	43	57	1	0	-.3	0	3.9	89	12.2	102	82	40	0	0	0	0
STOCKTON	85	50	92	44	67	7	0	-.3	0	4.0	108	9.1	102	76	18	3	0	0	0
CO DENVER	62	42	69	36	52	2	.1	-.4	.1	4.1	103	4.8	94	81	34	0	0	3	0
GRAND JUNCTION	68	41	78	36	55	0	.1	-.1	.1	2.7	159	3.0	107	72	17	0	0	3	0
PUEBLO	72	47	78	34	60	5	T	-.4	T	1.2	50	1.7	50	74	24	0	0	0	0
CT BRIDGEPORT	64	45	73	39	54	3	.1	-.7	.1	4.2	53	9.3	69	94	57	0	0	1	0
HARTFORD	72	43	78	32	57	6	.1	-.7	.1	3.3	39	10.9	72	80	35	0	1	1	0
DC WASHINGTON	72	51	79	47	62	3	.2	-.5	-.1	4.9	68	8.1	65	86	49	0	0	2	0
FL APALACHICOLA	80	61	82	55	71	-3	.7	-.1	.6	3.8	41	8.4	51	94	62	0	0	1	0
DAYTONA BEACH	82	60	91	51	71	0	.1	-.4	-.1	3.4	53	9.2	80	87	49	2	0	2	1
FORT MYERS	90	65	91	58	78	3	0	-.4	0	1.5	27	3.9	41	88	39	5	0	0	0
JACKSONVILLE	82	55	89	48	68	-1	.6	-.1	.6	6.4	84	12.0	85	96	48	0	0	2	1
KEY WEST	85	75	89	73	80	1	.1	-.4	.1	1.3	29	4.0	49	93	65	0	0	1	0
MIAMI	87	70	90	66	78	2	2.3	1.3	2.3	4.3	62	9.6	84	86	49	2	0	2	1
ORLANDO	88	63	93	52	75	3	T	-.6	T	2.2	32	6.8	55	89	37	3	0	0	0
TALLAHASSEE	79	60	84	56	69	0	1.1	-.2	1.1	11.2	102	21.4	109	96	56	0	0	1	1
TAMPA	85	63	88	58	74	1	.3	-.1	.3	2.0	31	7.8	66	93	45	0	0	1	0
WEST PALM BEACH	85	64	89	57	75	0	1.0	-.2	1.0	4.6	58	9.2	70	88	49	0	0	1	1
GA ATLANTA	77	57	87	50	67	4	.8	-.2	.7	6.8	59	14.4	70	80	44	0	0	3	0
AUGUSTA	78	52	90	43	65	-1	.5	-.2	.4	5.4	61	11.5	70	94	46	1	0	3	0
MACON	79	55	87	50	67	-1	.3	-.5	.3	7.9	80	17.8	98	98	54	0	0	2	0
SAVANNAH	78	57	87	49	68	-1	1.6	-.9	1.5	7.3	89	11.2	80	85	48	0	0	3	1
HI HILO	83	67	83	65	75	3	.8	-.2	.3	-.3	-.3	-.3	85	54	0	0	4	0	
HONOLULU	82	67	86	63	75	0	.8	-.5	.8	2.5	50	4.3	35	94	63	0	0	2	1
KAHULUI	87	67	91	64	77	3	.4	-.2	.3	-.3	-.3	-.3	82	48	1	0	1	0	
LIHUE	84	69	88	65	77	3	.3	-.4	.2	-.2	-.2	-.2	85	59	0	0	2	0	
ID BOISE	62	36	72	28	49	-2	.1	-.2	.1	4.9	188	7.1	131	73	29	0	2	1	0
LEWISTON	60	38	69	34	49	-3	.2	-.1	.2	3.1	129	5.1	111	88	40	0	0	1	0
POCATELLO	59	32	68	27	46	-2	.4	-.1	.2	3.4	148	4.8	117	86	31	0	5	3	0
IL CAIRO	61	39	78	32	50	-2	.7	-.1	.7	7.5	107	9.8	97	93	50	0	2	4	1
CHICAGO	62	42	70	33	52	-2	.4	-.5	.1	5.6	75	8.2	77	89	45	0	0	3	0
MOLINE	64	45	71	36	54	0	2.6	1.5	1.6	9.2	106	12.0	99	84	51	0	0	4	2
PEORIA	62	40	72	33	51	0	1.0	.1	.8	7.0	92	9.6	90	86	47	0	0	2	1
ROCKFORD	65	45	69	36	55	-1	3.0	2.0	1.9	9.8	123	12.3	106	88	51	0	0	4	2
SPRINGFIELD	71	50	82	42	60	1	2.1	1.2	1.3	6.4	64	9.8	58	91	58	0	0	5	2
IN EVANSVILLE	65	46	75	37	56	3	1.3	.5	.7	7.7	103	11.4	93	73	47	0	0	3	1
FORT WAYNE	68	49	79	40	58	3	2.5	1.6	1.0	9.6	110	12.9	92	78	50	0	0	4	3
INDIANAPOLIS	65	44	79	34	54	3	3.0	2.0	2.1	9.2	114	11.9	94	89	52	0	0	4	2
SOUTH BEND	62	47	67	40	55	0	1.1	.2	T	7.4	99	9.2	88	85	48	0	0	0	0
IA BURLINGTON	64	45	71	36	55	2	-.1	-.6	.1	2.6	42	4.0	47	75	37	0	0	2	0
DES MOINES	59	44	65	35	51	0	.3	-.7	T	6.4	75	9.2	80	87	50	0	0	1	0
DUBUQUE	64	43	72	32	54	0	T	-.6	T	3.0	65	3.8	61	76	35	0	1	0	0
SIoux CITY	63	43	68	34	53	-3	1.9	1.3	1.3	5.5	115	5.7	90	91	47	0	0	4	1
KS CONCORDIA	64	43	71	31	54	-3	2.1	1.6	.9	4.9	136	5.3	113	98	60	0	1	4	3
DODGE CITY	57	38	65	28	48	-4	1.0	.6	.5	9.5	328	10.5	276	93	58	0	1	5	0
GOODLAND	65	47	72	35	56	-2	1.4	.5	1.1	5.1	73	5.6	62	86	55	0	0	4	1
TOPEKA	67	50	72	39	59	-1	3.2	2.5	1.2	5.8	100	6.3	82	80	44	0	0	4	3
WICHITA	71	49	77	38	60	2	.6	-.2	.5	7.3	75	12.2	71	89	50	0	0	2	1
KY LEXINGTON	73	51	80	40	62	4	.5	-.4	.5	6.4	65	10.0	57	87	50	0	0	3	0
LOUISVILLE	77	62	82																

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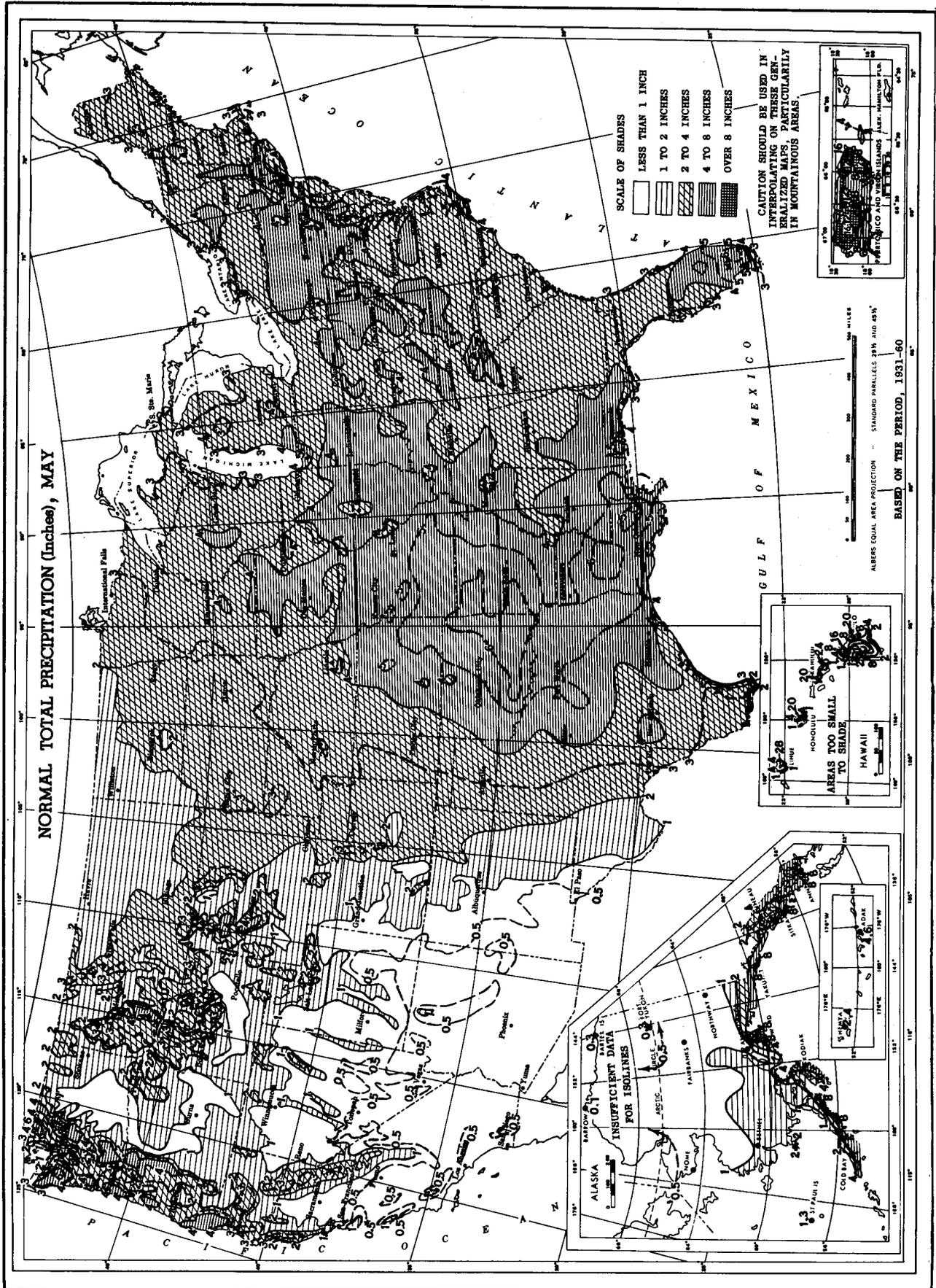
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 2	PCT. NORMAL SINCE MAR. 2	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
LAKE CHARLES	81	62	88	57	72	1	.8	.3	.5	3.9	41	9.1	49	94	50	0	0	3	1
NEW ORLEANS	80	65	86	57	73	-2	3.6	2.6	2.8	8.7	79	17.9	87	90	60	0	0	3	1
SHREVEPORT	75	59	79	52	67	-2	5.5	4.3	5.2	10.3	94	16.7	88	98	66	0	0	3	1
ME CARIBOU	68	41	78	36	55	15	.1	.5	.1	5.6	104	10.0	102	78	31	0	0	2	0
PORTLAND	60	40	63	34	50	4	.1	.7	.1	4.9	61	12.9	85	93	49	0	0	1	0
MD BALTIMORE	69	46	78	41	57	1	.2	.5	.2	4.8	63	8.3	62	84	45	0	0	1	0
MA BOSTON	59	44	64	40	51	0	.1	.6	.1	3.7	44	11.4	73	88	51	0	0	4	0
CHATHAM	54	42	59	40	48	-1	.5	.1	.5	5.4	-	13.2	-	94	70	0	0	3	0
MI ALPENA	62	36	83	29	49	6	.4	.2	.4	4.8	94	7.3	88	90	42	0	2	1	0
DETROIT	64	41	78	33	53	2	.7	0	.7	5.1	76	8.7	84	87	48	0	0	3	1
FLINT	64	40	76	30	52	3	1.5	.8	-	6.6	114	9.2	100	85	42	0	1	2	1
GRAND RAPIDS	64	37	78	27	51	1	3.6	2.8	1.7	11.0	159	13.4	129	93	44	0	2	3	1
HOUGHTON LAKE	61	38	78	31	50	4	.9	.4	.6	5.7	116	11.4	129	93	44	0	2	3	1
LANSING	65	39	78	29	52	2	1.7	1.0	-	8.0	129	8.8	113	89	39	0	1	2	1
MARQUETTE	53	30	63	24	42	1	1.0	.2	.8	7.1	115	11.4	118	89	47	0	5	3	1
MUSKEGON	61	39	78	33	50	2	1.3	.5	1.0	5.8	88	9.5	87	88	43	0	0	3	1
SAULT STE. MARIE	61	33	73	25	47	6	.5	.1	.3	5.4	110	8.5	101	89	39	0	5	2	0
MN DULUTH	55	34	65	23	45	2	.8	.2	.8	6.4	125	8.1	113	84	41	0	4	3	1
INT'L FALLS	57	33	69	24	45	3	.4	.1	.3	3.4	97	3.9	76	77	34	0	3	2	0
MINNEAPOLIS	60	41	64	30	51	2	.4	.1	.2	4.1	95	6.5	112	80	39	0	1	3	0
ROCHESTER	59	38	62	27	48	0	.5	.1	.5	4.6	92	6.8	111	90	50	0	2	1	0
SAINT CLOUD	60	39	64	26	50	3	.5	.1	.5	5.1	116	6.6	110	89	36	0	2	1	0
MS JACKSON	77	60	83	56	69	1	1.0	.1	.6	7.3	62	12.7	60	92	56	0	2	4	1
MERIDIAN	78	59	83	55	68	1	.4	.7	.4	12.4	98	19.5	89	93	54	0	0	2	0
MO COLUMBIA	63	48	73	40	56	-2	2.2	1.2	1.5	9.0	113	10.9	95	83	50	0	0	4	1
KANSAS CITY	62	48	68	39	55	-2	2.2	1.4	1.6	5.5	77	6.3	64	89	54	0	0	4	2
SAINT LOUIS	67	49	77	40	58	-2	2.5	1.6	1.4	8.9	109	11.8	98	94	64	0	0	3	2
MT SPRINGFIELD	68	51	75	44	59	0	1.9	.9	.7	7.3	84	9.9	77	92	59	0	0	5	1
BILLINGS	58	39	68	35	49	1	1.4	1.0	.5	3.5	113	3.8	86	84	49	0	0	5	1
GLASGOW	62	41	73	32	52	5	.8	.6	.5	1.4	108	1.5	47	78	39	0	1	6	1
GREAT FALLS	55	38	67	31	47	0	1.6	1.2	.9	3.9	144	4.7	107	86	46	0	1	6	1
HAVRE	59	41	67	37	50	2	1.5	1.2	.6	2.6	137	2.7	96	94	50	0	0	4	1
HELENA	57	37	66	29	47	1	.8	.6	.3	2.9	161	3.1	115	84	36	0	1	4	0
KALISPELL	56	36	61	28	46	1	1.1	.9	.4	3.7	168	7.2	147	91	48	0	2	5	0
MILES CITY	62	42	78	34	52	3	.4	0	.1	.8	33	1.0	30	82	41	0	0	3	0
NE GRAND ISLAND	58	34	65	25	46	-1	.3	0	.2	2.3	115	3.2	80	89	40	0	3	4	0
LINCOLN	62	39	66	29	50	-3	.2	.4	.2	5.0	111	5.4	95	89	39	0	1	1	0
NORFOLK	65	44	70	36	54	0	1	.6	.1	5.4	108	5.8	91	89	46	0	0	1	0
NORTH PLATTE	64	40	71	31	52	0	T	.5	T	3.4	79	3.9	70	87	28	0	1	2	0
OMAHA	58	37	65	23	47	-4	.7	.2	.3	6.2	163	6.5	138	95	47	0	2	5	0
VALENTINE	60	37	68	33	53	-1	.2	.5	.2	4.9	89	5.3	74	88	42	0	0	1	0
WY ELY	64	29	73	20	47	3	.7	.2	.4	2.8	88	3.0	73	71	33	0	2	3	0
NV LAS VEGAS	87	59	95	55	73	7	0	.1	0	.9	100	1.8	100	21	8	2	0	0	0
RENO	72	37	80	30	55	6	0	.1	0	.9	83	1.9	58	58	14	0	1	0	0
WINNEMUCCA	68	29	76	16	49	1	0	.2	0	1.2	71	2.2	65	51	15	0	5	0	0
NH CONCORD	69	36	77	28	52	5	T	.7	T	4.1	63	12.3	106	83	27	0	4	0	0
NJ ATLANTIC CITY	62	38	75	26	50	-4	T	.8	T	8.4	95	12.7	80	97	52	0	3	0	0
TRENTON	69	45	78	37	57	-1	T	.8	T	5.6	70	9.3	69	89	45	0	0	0	0
NM ALBUQUERQUE	77	44	81	39	61	2	T	.1	T	1.3	130	2.1	111	53	13	0	0	1	0
ROSWELL	77	53	85	45	65	4	1.5	1.4	1.4	4.3	358	4.8	229	77	28	0	0	1	1
NY ALBANY	72	38	79	30	55	5	.1	.5	.1	2.4	39	8.0	75	84	40	0	2	2	0
BINGHAMTON	68	40	77	32	54	6	T	.8	T	3.9	55	8.7	73	71	31	0	1	1	0
BUFFALO	69	44	78	34	57	9	.4	.4	.2	5.2	75	9.8	79	85	26	0	0	3	0
NEW YORK	67	50	73	45	59	4	T	.8	T	4.3	51	10.3	71	81	45	0	0	1	0
ROCHESTER	70	44	78	36	57	8	.6	.1	.3	3.7	60	8.1	74	86	30	0	0	1	0
SYRACUSE	72	41	82	31	57	7	.1	.6	.1	3.1	44	7.1	56	72	28	0	1	1	0
NC ASHEVILLE	72	49	83	38	60	2	1.6	.8	1.1	6.9	75	12.1	73	97	54	0	0	3	2
CHARLOTTE	74	52	85	42	63	0	.6	.1	.5	4.2	48	8.3	51	88	40	0	0	3	0
GREENSBORO	72	47	83	39	60	-1	.2	.5	.1	3.8	50	8.1	57	88	41	0	0	3	0
HATTERAS	65	55	78	51	60	-1	1.3	.6	.8	5.7	73	9.5	57	92	71	0	0	4	1
RALEIGH	73	47	83	40	60	-2	.7	0	.5	4.1	54	8.1	57	96	51	0	0	3	0
WILMINGTON	72	51	80	44	61	-4	3.2	2.6	2.1	7.6	95	11.8	80	97	60	0	0	4	1
ND BISMARCK	60	36	68	26	48	1	T	.4	T	.7	25	1.3	35	77	33	0	2	0	0
FARGO	61	33	66	24	47	1	T	.6	T	1.3	35	1.9	41	72	26	0	4	0	0
WILLISTON	65	38	74	24	52	5	.2	.1	.1	.8	36	1.2	39	77	29	0	1	3	0
OH AKRON-CANTON	69	46	77	35	58	7	1.8	1.0	.5	10.2	134	15.6	124	75	34	0	0	4	0
CINCINNATI	69	48	79	39	59	2	1.4	.6	.8	8.3	99	12.8	84	93	56	0	0	3	1
CLEVELAND	66	45	77	37	55	4	.8	0	.4	7.0	92	10.6	83	86	41	0	0	4	0
COLUMBUS	70	48	78	37	59	5	1.7	.7	.8	9.0	113	14.4	107	85	47	0	0	4	2
DAYTON	66	45	78	34	56	1	1.1	.4	.5	7.7	101	11.3	89	89	57	0	0	4	1
TOLEDO	64	41	78	31	53	1	.3	.4	.6	4.5	71	8.4	82	92	51	0	2	3	1
YOUNGSTOWN	71	44	79	36	57	7	1.0	.1	.5	8.0	111	12.7	93	79	35	0	0	3	0
OK OKLAHOMA CITY	71	53	79	42	62	-1	1.6	.7	.9	7.4	109	8.7	92	90	53	0	0	5	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending May 10, 1981

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 Mar. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	72	55	77	47	63	0	2.1	1.1	1.2	5.7	70	8.1	70	98	59	0	0	4	2
OR ASTORIA	57	44	61	40	50	2	.4	.6	.2	14.7	119	25.8	85	88	59	0	0	5	0
OR BURNS	56	36	67	25	46	-1	.1	.1	.1	2.7	169	4.4	96	84	34	2	2	2	0
OR MEDFORD	66	39	75	30	52	1	.1	.1	.1	2.0	67	4.4	50	93	38	2	2	0	0
OR PENDLETON	60	42	67	37	51	-2	.2	.1	.2	3.0	120	5.3	98	80	35	0	0	1	0
OR PORTLAND	61	45	68	40	53	1	.5	0	.2	4.8	76	10.2	63	94	52	0	0	4	0
OR SALEM	61	42	67	36	51	0	.4	0	.1	5.9	83	11.3	60	93	55	0	0	4	0
PA ALLENTOWN	70	42	81	36	56	3	.2	.7	.2	4.6	53	9.9	68	79	40	0	0	2	0
PA ERIE	64	43	74	34	53	2	.7	.1	.4	8.4	115	14.5	121	83	39	0	0	3	0
PA HARRISBURG	70	44	80	37	57	1	.2	.5	.2	4.2	59	10.5	85	77	37	0	0	2	0
PA PHILADELPHIA	70	46	80	40	58	2	.7	.7	.7	6.0	75	9.5	71	86	44	0	0	1	0
PA PITTSBURGH	70	44	79	36	57	4	.3	.4	.2	7.2	90	11.9	90	80	35	0	0	2	0
PA SCRANTON	71	42	79	36	57	5	.1	.7	.1	4.2	63	12.9	119	68	36	0	0	2	0
RI PROVIDENCE	63	42	74	33	52	3	.1	.8	.1	4.8	55	10.4	66	89	47	0	0	1	0
SC CHARLESTON	79	56	89	48	68	1	.6	.1	.6	4.9	58	8.1	55	92	52	0	0	1	1
SC COLUMBIA	77	52	90	40	65	-2	1.0	.2	.8	5.0	54	9.9	60	99	51	1	0	4	1
SC GREENVILLE	76	54	87	45	65	2	1.5	.5	1.3	5.7	52	9.8	50	81	41	0	0	3	1
SD ABERDEEN	63	35	68	20	49	1	T	.5	T	2.3	64	2.7	59	71	25	0	2	1	0
SD HURON	66	36	71	19	51	1	T	.5	T	2.1	57	2.2	45	78	23	0	3	0	0
SD RAPID CITY	61	40	69	33	51	2	.8	.3	.3	1.6	41	1.9	39	91	38	0	0	5	0
SD SIOUX FALLS	63	39	72	25	51	1	T	.6	T	2.5	54	3.0	44	79	28	0	1	0	0
TN CHATTANOOGA	77	53	83	46	65	2	.4	.5	.4	8.6	76	15.8	75	90	44	0	0	1	0
TN KNOXVILLE	76	54	82	47	65	2	.7	.1	.3	8.4	88	13.2	69	96	51	0	0	3	0
TN MEMPHIS	75	59	83	50	67	2	1.1	.2	.8	9.7	79	14.7	66	85	57	0	0	3	1
TN NASHVILLE	75	52	82	47	63	1	.6	.4	.5	8.7	84	14.2	72	86	50	0	0	2	1
TX ABILENE	78	57	88	48	68	0	.1	.6	.1	5.6	122	8.2	126	87	44	0	0	1	0
TX AMARILLO	75	48	84	37	62	2	T	.3	T	3.1	135	3.4	106	77	34	0	0	0	0
TX AUSTIN	83	64	89	51	73	3	T	.9	T	4.4	65	7.8	66	86	43	0	0	1	0
TX BEAUMONT	79	63	83	55	71	-2	1.0	.1	.7	6.7	76	13.5	78	97	64	0	0	3	1
TX BROWNSVILLE	87	67	89	59	77	0	T	.4	T	4.9	196	7.5	136	95	51	0	0	0	0
TX CORPUS CHRISTI	83	66	86	60	75	0	T	.6	T	8.4	210	12.8	166	98	58	0	0	0	0
TX DEL RIO	83	67	87	55	75	1	T	.4	T	10.2	364	11.1	247	86	38	0	0	0	0
TX EL PASO	82	67	85	47	69	3	0	.1	0	1.7	189	3.3	183	51	18	0	0	0	0
TX FORT WORTH	76	53	82	53	67	0	2.1	1.1	1.1	9.1	111	11.5	92	95	55	0	0	4	2
TX GALVESTON	79	7	83	59	73	2	.6	0	.4	1.5	25	5.0	42	91	65	0	0	2	0
TX HOUSTON	83	4	87	54	74	2	2.5	1.6	1.9	12.1	164	16.7	114	95	55	0	0	2	2
TX LUBBOCK	78	4	86	41	66	3	1.1	.2	.1	3.4	142	4.3	130	84	31	0	0	2	0
TX MIDLAND	78	5	88	40	67	0	1.0	.7	.8	3.6	189	4.9	175	89	37	0	0	2	1
TX SAN ANGELO	78	.6	86	45	67	-2	.2	.3	.1	6.2	188	8.5	173	89	47	0	0	2	0
TX SAN ANTONIO	84	63	89	53	74	2	.1	.5	.1	5.2	104	9.0	100	94	48	0	0	2	0
TX VICTORIA	84	64	86	55	74	2	.7	0	.6	6.6	118	10.0	102	96	54	0	0	1	1
TX WACO	82	59	88	44	71	1	.2	.8	.1	4.1	52	7.3	60	92	45	0	0	3	0
TX WICHITA FALLS	77	55	83	46	66	-1	.1	.8	.1	6.0	95	9.5	109	91	49	0	0	2	0
UT BLANDING	67	38	74	31	52	3	0	.2	0	3.8	190	4.2	102	58	18	0	1	0	0
UT SALT LAKE CITY	67	41	77	34	54	2	.6	.1	.3	3.8	86	5.3	76	78	25	0	0	4	0
VT BURLINGTON	70	43	83	35	57	11	.1	.5	.1	4.6	87	10.5	121	78	34	0	0	1	0
VA LYNCHBURG	73	49	84	42	61	2	.2	.4	.1	4.4	63	8.7	69	84	36	0	0	2	0
VA NORFOLK	65	52	72	47	58	-2	.6	0	.2	4.7	67	8.0	58	94	61	0	0	3	0
VA RICHMOND	73	47	81	39	60	0	.4	.3	.3	5.2	74	8.6	66	85	43	0	0	3	0
VA ROANOKE	72	46	83	35	59	1	.6	0	.2	4.6	65	7.4	56	90	38	0	0	3	0
WA COLVILLE	60	37	66	29	49	0	1.1	.9	.6	3.9	163	6.7	114	94	59	0	2	5	1
WA OMAK	58	47	62	43	52	1	0	.2	0	.7	35	3.8	81	69	49	0	0	0	0
WA QUILLAYUTE	56	39	58	33	48	0	.8	.9	.5	26.8	128	42.4	89	99	60	0	0	6	1
WA SEATTLE-TACOMA	58	43	64	39	51	0	.1	.4	.1	4.2	63	11.1	67	84	50	0	0	2	0
WA SPOKANE	55	34	62	29	45	-4	.7	.4	.5	3.2	100	5.6	75	98	47	0	3	5	0
WA WALLA-WALLA	62	44	70	40	53	-4	.2	.2	.3	4.7	134	8.9	124	82	37	0	0	2	0
WA YAKIMA	65	40	71	32	52	0	.1	0	.1	.2	18	1.8	56	76	32	0	2	1	0
WV BECKLEY	69	45	79	39	57	3	.1	.6	.1	5.5	65	8.2	53	79	40	0	0	2	0
WV CHARLESTON	74	45	83	35	60	1	.5	.2	.4	6.5	79	12.1	80	86	36	0	0	3	0
WV HUNTINGTON	74	46	81	35	60	2	.7	0	.4	7.7	93	12.6	87	92	43	0	0	3	0
WV PARKERSBURG	74	46	81	35	60	3	.5	.2	.4	5.6	69	9.6	69	77	33	0	0	3	0
WI GREEN BAY	60	38	69	31	49	2	.3	.4	.2	5.1	93	7.8	100	87	41	0	2	2	0
WI LA CROSSE	65	42	72	32	54	2	.1	.5	.1	5.1	91	7.4	100	88	43	0	1	1	0
WI MADISON	61	36	72	28	49	0	.2	.5	.1	4.0	70	6.5	80	91	38	0	3	2	0
WI MILWAUKEE	55	38	75	33	47	-1	1.6	1.0	1.5	7.1	125	10.3	120	90	50	0	0	3	1
WY CASPER	59	36	68	32	47	1	.1	.3	.1	3.2	107	3.9	100	85	31	0	1	3	0
WY CHEYENNE	56	36	63	34	46	0	1.2	.8	.9	4.1	128	4.6	112	93	45	0	0	5	1
WY LANDER	60	37	70	32	48	2	.1	.5	.1	3.4	77	4.3	83	78	25	0	1	1	0
WY SHERIDAN	59	36	74	30	47	1	.8	.2	.3	1.9	46	2.5	45	87	46	0	1	4	0
PR SAN JUAN	90	77	93	75	83	5	3.9	3.0	2.5	12.9	193	18.3	141	93	61	4	0	6	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS



Heating Degree Days (Base 65° F.)

April 1981

ALA. Birmingham	48	MAINE, Caribou	757	OKLA. Okla. City	69
Mobile	9	Portland	588	Tulsa	48
Montgomery	24	MD. Baltimore	252	OREG. Astoria	458
ALASKA, Anchorage	---	MASS. Boston	393	Burns U.	607
Barrow	---	Chatham	527	Medford	369
Fairbanks	---	MICH. Alpena	616	Pendleton	435
Juneau	---	Detroit	452	Portland	372
Nome	---	Flint	499	Salem	426
ARIZ. Flagstaff	486	Grand Rapids	525	PA. Allentown	392
Phoenix	8	Houghton Lake	613	Erie	523
Tucson	31	Lansing	483	Harrisburg	339
Winslow	230	Marquette U	776	Philadelphia	309
Yuma	0	S. Ste. Marie	763	Pittsburgh	391
ARK. Fort Smith	54	MINN. Duluth	769	Scranton	416
Little Rock	28	Internatl Falls	716	R. I. Providence	405
CALIF. Bakersfield	86	Minneapolis	472	S. C. Charleston	55
Eureka U.	423	Rochester	496	Columbia	59
Fresno	114	St. Cloud	556	Greenville	91
Los Angeles U	134	MISS. Jackson	20	S. DAK. Aberdeen	447
Red Bluff	111	Meridian	21	Huron	376
Stockton	137	MO. Columbia	159	Rapid City	402
San Diego	40	Kansas City	169	Sioux Falls	353
San Francisco	279	St. Louis	127	TENN. Chattanooga	70
COLO. Denver	260	Springfield	126	Knoxville	104
Grand Junction	247	MONT. Billings	427	Memphis	18
Pueblo	175	Glasgow	499	Nashville	97
CONN. Bridgeport	465	Great Falls	548	TEX. Abilene	51
Hartford	380	Havre	550	Amarillo	111
D. C. Washington	133	Helena	552	Austin	6
FLA. Apalachicola	9	Kalispell	593	Beaumont	3
Ft. Myers	0	Miles City	407	Brownsville	0
Jacksonville	9	Missoula	542	Dallas	---
Key West	0	NEBR. Grand Island	221	Del Rio	9
Lakeland U.	---	Lincoln	209	El Paso	82
Miami	0	Norfolk	238	Fort Worth	26
Orlando	1	North Platte	283	Galveston U.	0
W. Palm Beach	0	Omaha	226	Houston	6
Tallahassee	17	Valentine	319	Lubbock	108
Tampa	2	NEV. Ely	546	Midland	99
GA. Atlanta	36	Las Vegas	29	San Angelo	62
Augusta	67	Reno	424	San Antonio	10
Macon	22	Winnemucca	474	Victoria	2
Savannah	25	N. H. Concord	530	Waco	121
IDAHO, Boise	432	N. J. Atlantic City	436	Wichita Falls	50
Lewiston	401	Trenton U	291	UTAH, MILFORD	---
Pocatello	516	N. MEX. Albuquerque	197	Salt Lake City	346
ILL. Cairo U.	57	Roswell	100	VT. Burlington	544
Chicago	397	N. Y. Albany	502	VA. Lynchburg	197
Moline	322	Binghamton	522	Norfolk	159
Peoria	295	Buffalo	527	Richmond	171
Rockford	397	New York	316	Roanoke	212
Springfield	181	Rochester	507	WASH. Colville	530
IND. Evansville	161	Syracuse	446	Omak	---
Fort Wayne	402	N. C. Asheville	152	Quillayute	542
Indianapolis	244	Charlotte	87	Seattle-Tacoma	454
South Bend	374	Greensboro	135	Spokane	570
IOWA, Burlington	251	Hatteras R.	109	Walla Walla U.	340
Des Moines	241	Raleigh	149	Yakima	459
Dubuque	407	Wilmington	101	W. VA. Beckley	287
Sioux City	269	N. DAK. Bismarck	547	Charleston	207
KANS. Concordia	177	Fargo	574	Huntington	183
Dodge City	180	Williston U	473	Parkersburg U.	---
Goodland	289	OHIO. Akron-Canton	384	WIS. Green Bay	573
Topeka	175	Cincinnati U.	230	Madison	482
Wichita	104	Cleveland	431	Milwaukee	548
KY. Lexington	182	Columbus	287	WYO. Casper	495
Louisville	142	Dayton	305	Cheyenne	440
LA. Baton Rouge	10	Toledo	450	Lander	487
Lake Charles	5	Youngstown	408	Sheridan	510
New Orleans	12				
Shreveport	14				

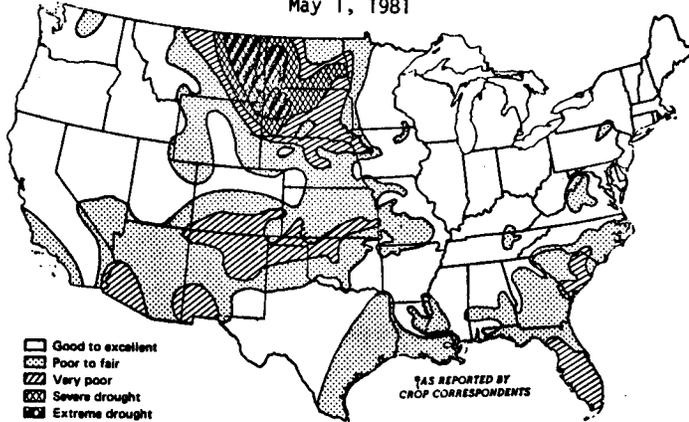
Preliminary reports from airport locations, except those marked U for urban and R for rural.

*Estimated.

National Agricultural Summary

May 4-10, 1981

PASTURE AND RANGE FEED CONDITIONS *
May 1, 1981



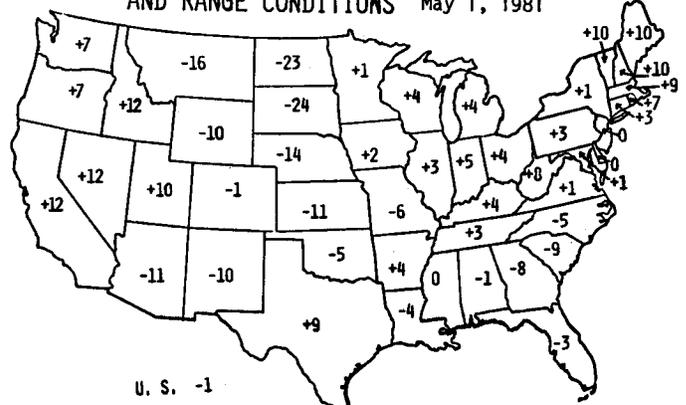
* INDICATES CURRENT SUPPLY OF PASTURE FEED FOR GRAZING ON NON-IRRIGATED PASTURES AND RANGES RELATIVE TO THAT EXPECTED FROM EXISTING STANDS UNDER VERY FAVORABLE WEATHER CONDITIONS.

HIGHLIGHTS: Wet weather and cool temperatures delayed planting in parts of the Corn Belt and Southeast. Frost damaged small grain fields from Kansas northward; the extent of the damage is still being assessed. Soil moisture supplies were adequate to surplus in the east north central States and mostly short to adequate elsewhere. Farmers in the east north central region had 2 to 5 days suitable for fieldwork, while up to 6 days were available in other areas of the Nation. Corn planting reached 47% complete in the 17 major producing States, 20 points behind a year ago but equal to the average. Emerging plants were in fair to good condition. Winter wheat heading advanced northward into Nebraska. In the 15 major States, heading was 52% complete, compared to only 13% last year. Early planted fields in the South were ripening. Spring wheat seeding was 86% completed in the five major States, 1 point ahead of a year ago and 21 points ahead of normal. Cotton planting was 55% finished, 10 points ahead of last year. Soybean planting in the 14 major States was 9% complete, equal to average. Grain sorghum planting was 30% finished, slightly ahead of last year and average. Rice seeding reached 84% complete, 3 points ahead of last year. Pastures rated fair to good, except in parts of the Southwest and northern Plains where dry conditions limited growth.

CORN: Corn planting progressed slowly during the week in Indiana, Kansas, Michigan, Ohio, Pennsylvania, and the Southeast due to heavy rains and wet fields. Elsewhere, planting progressed rapidly. Planting advanced to 47% complete in the 17 major producing States, 20 points behind last year but equal to the average. Progress was still behind normal in Illinois, Indiana, and Michigan. Producers in Iowa planted 36% of their acreage during the week, while those in Minnesota planted 32% and those in Illinois 30%. Emerging plants in early planted fields were in fair to good condition.

SMALL GRAINS: Winter wheat rated fair to mostly good in all major producing areas. Heading was underway as far north as Nebraska. In the 15 major producing States 52% of the crop had headed, compared to only 13% last year. Frost damaged stands from Kansas northward. However, the extent of damage is not yet known. Rain and cool weather will help Great Plains wheat not damaged by frost. Heading in Kansas was 75% complete, compared to only 2% last year

PERCENT DEVIATION FROM AVERAGE PASTURE AND RANGE CONDITIONS
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and the 20% average. Early planted fields across the South were ripening. Harvesting was expected to get underway soon. In the northern Plains, wheat was in good condition but was deteriorating due to stress from lack of moisture.

Spring wheat seeding in the five major producing States reached 86% finished, 1 point ahead of a year ago and 21 points ahead of average. Seeding was completed in South Dakota. Oats seeding continued ahead of normal in all areas.

COTTON: Cotton planting in the 14 major producing States reached 55%, 10 points ahead of a year ago. Excluding California, planting was 50% completed, ahead of last year's 39% and the 41% average. In southern areas of Texas, cool temperatures slowed development of stands. Short moisture supplies slowed planting in parts of the High Plains. Squaring and blooming was evident in early planted Arizona fields.

OTHER CROPS: Soybean planting reached 9% complete in the 18 major producing States, 5 points behind a year ago but equal to the average. Planting was underway in all major States, but most activity centered in southern areas.

Grain sorghum planting was 30% finished in the seven major States, surpassing last year's 28% and the 26% average. Progress exceeded the average in all States except Kansas, where it was only 1 point less than average.

Rice seeding reached 84% complete in the 5 major States, 3 points ahead of a year ago. Excluding California, seeding was ahead of last year and average by 6 and 7 points, respectively.

FRUITS AND NUTS: Fruit trees were damaged by frost from parts of Ohio to New England. Cool weather in other northern areas slowed development. In Texas, pollination of pecans was nearly complete.

Florida's citrus groves were still showing signs of stress, since rain is needed in all growing areas. Light scattered showers did not relieve the dry conditions and irrigation remained very active. The Valencia orange harvest increased. Arizona's citrus groves were in very good condition. Harvesting of Valencia oranges and grapefruit was active. New crop prospects were very good. In California, growers harvested Desert grapefruit, lemons, and Navel oranges. Valencia orange picking was limited.

VEGETABLES: Florida vegetable shipments rose 20% from the previous week with supplies of

escarole, okra, parsley, potatoes, peas, squash, tomatoes, and watermelons increasing. Vegetables made good growth in most regions of Texas. Planting became more active in northern areas of the Nation.

PASTURES AND LIVESTOCK: Pastures rated fair to good except in parts of the Southwest and the northern Plains where dry conditions limited growth. Ranchers continued turning herds onto rangelands and summer pastures. Livestock were in fair to good condition.

CROP PROGRESS
FOR WEEK ENDING MAY 10, 1981

	WINTER WHEAT % HEADED		
	1981	1980	AVG.
CALF	95	90	NA
COLO	6	0	0
IDA	0	0	0
ILL	62	2	25
IND	20	0	35
KANS	75	2	20
MO	80	9	37
MONT	0	0	0
NEBR	15	0	0
OHIO	0	0	3
OKLA	95	30	75
OREG	5	0	NA
S DAK	0	0	0
TEX	67	43	NA
WASH	1	0	1
15 STATES	52	13	NA
EXCL. STATES WITH NA	50	7	24

THESE 15 STATES PRODUCED 88%
OF THE 1980 WINTER WHEAT CROP.

	CORN % PLANTED		
	1981	1980	AVG.
COLO	62	16	39
GA	99	95	96
ILL	48	84	57
IND	15	65	35
IOWA	64	85	60
KANS	55	45	35
KY	70	62	54
MICH	20	29	31
MINN	54	73	49
MO	70	73	45
NEBR	45	65	35
N C	95	96	90
OHIO	15	60	45
PA	30	27	29
S DAK	33	34	18
VA	74	51	63
WIS	20	35	20
17 STATES	47	67	47

THESE 17 STATES PRODUCED 93%
OF THE 1980 CORN CROP.

	SOYBEAN % PLANTED		
	1981	1980	AVG.
ALA	18	13	17
ARK	13	9	9
GA	13	15	22
ILL	7	28	12
IND	2	10	5
IOWA	5	12	8
KANS	4	5	4
KY	10	8	5
LA	10	7	10
MICH	1	1	1
MINN	11	18	12
MISS	12	7	9
MO	15	15	0
NEBR	4	7	4
N C	12	13	14
OHIO	3	20	15
S C	6	7	11
TENN	10	10	5
18 STATES	9	14	9

THESE 18 STATES PRODUCED 95%
OF THE 1980 SOYBEAN CROP.

	COTTON % PLANTED		
	1981	1980	AVG.
ALA	84	74	80
ARIZ	90	95	93
ARK	89	72	59
CALF	95	99	NA
GA	89	80	88
LA	75	36	56
MISS	90	72	63
MO	87	65	52
N MEX	55	70	71
N C	94	78	72
OKLA	15	0	10
S C	96	91	87
TENN	80	69	50
TEX	33	24	28
14 STATES	55	45	NA
EXCL. STATES WITH NA	50	39	41

THESE 14 STATES PRODUCED 99%
OF THE 1980 COTTON CROP.

	SORGHUM % PLANTED		
	1981	1980	AVG.
COLO	5	0	0
KANS	4	5	5
MO	28	26	15
NEBR	5	10	4
OKLA	20	5	10
S DAK	9	2	1
TEX	73	68	65
7 STATES	30	28	26

THESE 7 STATES PRODUCED 92%
OF THE 1980 SORGHUM CROP.

	RICE % PLANTED		
	1981	1980	AVG.
ARK	84	76	74
CALF	60	69	NA
LA	90	84	89
MISS	94	79	76
TEX	96	99	97
5 STATES	84	81	NA
EXCL. STATES WITH NA	89	83	82

THESE 5 STATES PRODUCED 98%
OF THE 1980 RICE CROP.

	SPRING WHEAT % PLANTED		
	1981	1980	AVG.
IDA	92	93	78
MINN	98	97	74
MONT	80	85	65
N D	77	73	50
S DAK	100	100	93
5 STATES	86	85	65

THESE 5 STATES PRODUCED 92%
OF THE 1980 SPRING WHEAT CROP.

For Information Call: (202) 447-3843

NA - NOT AVAILABLE

PASTURE AND RANGE FEED: The May 1 pasture and range feed condition for the 48 contiguous States was 79 percent, 1 point below both last year and the 1970-79 average for the date. Conditions were less favorable than a year ago in 30 States, better in 14 and equal to last year in 4 States. Compared with last month, conditions generally improved or remained the same in all States except California, Florida, Idaho, Oregon and Washington. However, conditions in the aforementioned Western States continued in the good to excellent range. The

western part of the Dakotas and the eastern portion of Montana continue to be plagued with very dry conditions. The average condition in North Dakota is 47 percent compared with 48 percent last year and the ten-year average of 70 percent. South Dakota's condition, at 52 percent, is off 18 points from a year ago and Montana, at 63 percent, is off 5 points. Rain was received over much of the eastern half of the Nation during April and on May 1 conditions in all States east of the Mississippi except Florida, Georgia and South Carolina were in the

good to excellent range. Range and pasture conditions across Texas continued to improve

during April as adequate moisture and warm temperatures promoted good growth of grasses.

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures normal north, 5° below normal south. Rainfall scattered.

Soil moisture short. Fieldwork: 5.0 days suitable. Activities: Planting, cultivation, care of livestock and poultry. Planting progress: Corn 95%, 80% 1980, 77% average; cotton 84%, 74% 1980, 80% average; peanuts 53%, 64% 1980, 63% average; sorghum 28%, 17% 1980, 10% average. Wheat headed 97%, 91% 1980, 90% average; wheat turning color 31%, 19% 1980; soybeans 18%, 13% 1980, 17% average. Condition: Wheat and corn mostly good; pastures and livestock mostly fair.

ARIZONA: Sunny, dry weather, low humidity over State. No precipitation anywhere. Average temperatures 4° below normal to 5° above.

Cotton planting excellent progress, 90% complete. Squaring, blooming evident in earliest fields. Stub cotton blooming, setting bolls. Small grains maturing rapidly. Limited harvest expected by mid-May. Alfalfa hay good progress. Sugarbeet harvest gaining momentum. Safflower flowering, beginning to set seed. Corn growing rapidly. Sorghum planting expected well into July. Lettuce harvest full swing Salt River Valley. Cantaloups, watermelons making rapid growth. Cantaloup harvest expected to begin in late May. Harvest of potatoes, dry onions making very good progress. Harvest of Valencia oranges, grapefruit active. Valencia shipments running well behind last year, primarily due to reduced acreage. Citrus groves in very good condition. New crop prospects very good. Grapes, especially early bearing varieties, developing well. Southwestern Deserts very poor to poor, higher elevations poor to fair. Livestock fair condition.

ARKANSAS: Temperatures averaged well below normal. Highest temperature 84°, lowest 41°. All departures from normal -2 to -8°. Most rainfall 4.35 in., least 0.58 in.

Soybeans planted 13%, 9% 1980, 9% average. Rice planted 84%, 76% 1980, 74% average; emergence 56% complete, new rice plants fair to good condition. Cotton planted 89%, 72% 1980, 59% average; cotton 56% emerged rated fair to good condition. Wheat good condition, approaching dough stage. Corn planting 89%, 71% 1980, 72% average. Sorghum planting 76%, 63% 1980, 61% average. Five days suitable for fieldwork. Forage supplies average except northwest remained below average. Soil moisture rated short. Livestock good condition.

CALIFORNIA: A cool down from last week's torrid temperature pace. Temperature averages were again above normal in all districts except southeast interior localities were below normal. Highest temperatures generally in the seventies and eighties but southeast interior in the nineties with Blythe reaching 100°. No rain anywhere as cool, mostly dry air circulated south from a Pacific northwest upper level disturbance.

Small grains doing well. Wheat 95% headed, 90% last year. Cutting oats for silage and hay. Cotton planting 95% complete, 99% last year. Growers breaking crust from recent rains. Replanting underway in Madera County. Field corn planting active. Sugarbeets undergoing cultivation and harvest. Rice planting extremely active. Crop 60% planted, 69% last year. Treatment for rice water weevil underway, many areas.

Fuerte avocados winding down, Haas in great supply. Bing cherry picking begins May 15-16. Kiwi approaching bloom. Peach, pear and plum trees show good vigor. Desert grapefruit picking continues. Southern area lemons moving strongly. Heavy Navel orange picking. Limited Valencia picking to export. Market asparagus decreasing; heavy volume to processors. Snap bean harvest light South Coast. Carrot harvest active Imperial, slowing Coachella Valley. Sweet corn volume increasing Coachella Valley. Light cucumber harvest San Joaquin Valley. Lettuce volume increasing Central Coast, South Bay. Dry onion harvest peaking Imperial Valley. Light harvest bell peppers Coachella Valley. Spring potato volume increasing Kern District. Light tomato harvest started Desert. Warm weather, winds have depleted soil moisture and hastened maturity range feed. Feed remains strong, plentiful, most areas. Stock water supplies adequate. Some movement livestock summer ranges underway.

COLORADO: Significant precipitation over most of State. Precipitation ranged from 0.33 to 1.50 in. Numerous thunderstorms accompanied by strong winds and hail. Temperatures ranged from normal to 5° above.

Winter wheat jointed 74%, 40% 1980, 34% average; headed 67%, 0% 1980, 0% average. Corn seeded 62%, 16% 1980, 39% average; emerged 31%, 1% 1980, 9% average. Barley seeded 90%, 74% 1980, 83% average; emerged 79%, 46% 1980, 59% average. Spring wheat seeded 76%, 65% 1980. Sugarbeets seeded 92%, 69% 1980, 84% average. Oats seeded 90%, 59% 1980, 71% average. Onions seeded 91%, 73% 1980. Summer potatoes seeded 43%, 75% 1980, 71% average. Fall potatoes seeded 33%, 25% 1980, 11% average. Sorghum planted 5%, 0% 1980, 0% average. Fieldwork: 3.5 days suitable. Livestock good condition.

FLORIDA: A fair, dry pattern continued through midweek. A trough of low pressure moved across the Gulf of Mexico during the 6th and passed through the State on the 7th, when scattered showers brought the first rains in nearly six weeks to many sections of the State. Rainfall quite variable. Heaviest rain fell in Panhandle and along Lower East Coast with averages between 1.00 and 2.00 in. Elsewhere, rainfall mostly under 0.50 in. Large sections of Citrus Belt had little or no rain. Sunshine and mild conditions over most of State during weekend. A few light showers along Lower East Coast on the 9th and a few showers in Panhandle late on the 10th. Temperatures averaged near normal.

Soil moisture continues very short. Scattered rains, mostly in west, and along much of Southeast Coast helpful but more needed. Corn, tobacco fair condition where irrigated. Soybean, peanut planting active in Panhandle following recent rains. Cotton planting continues. Sugarcane fair condition; warm, humid weather needed. Harvest of oats, wheat underway. Pastures improved in Panhandle, much of East Coast declined other areas. Very poor in northwest, and West Coast, severe drought central and extreme Upper East Coast areas. Cattle mostly fair. Citrus groves still showing stress, rain needed all areas. Irrigation very active, light, scattered rains not sufficient. Valencia harvest increasing with desirable ratio tests. Warm, dry conditions continued through midweek in vegetable areas. A low pressure trough brought

scattered showers on the 7th. Rainfall was quite variable. Heaviest rain in vegetable areas averaged between 1.00 and 2.00 in. along Lower East Coast. Rainfall amounts in other areas were mostly under 0.50 in. Total shipments up 20% from previous week. Harvest gained escarole, okra, parsley, potatoes, southern peas, squash, tomatoes and watermelons. Supplies about steady cabbage, carrots, sweet corn, cucumbers, eggplant and peppers. Volume declined snap beans, celery, Chinese cabbage, lettuce, radishes and strawberries. Watermelon crop in fair to good condition. Harvest increased rapidly. Quality good.

GEORGIA: Temperatures 2 to 4° below normal. Rainfall light and spotty over the northern two-thirds with amounts less than 0.50 in. Southern third had substantial rainfall. Weekly amounts around 0.75 in. southwest and 1.00 to 2.00 in. southeast. High temperature 91° at Dublin on 5th; lowest 31° at Blairsville on the 2nd.

Soil moisture short to very short north prior to weekend relief, south short to adequate, no weekend rain. Five days suitable for fieldwork. Corn 99% planted, last year 95%, average 96%; condition fair to good. Tobacco transplanting complete, also last year and average; condition fair to good. Peanuts 72% planted, last year 70%, average 82%; condition fair to good. Soybeans 13% planted, 15% last year, 22% average, condition fair to good. Watermelons 96% planted, last year and average 94%; condition fair to good. Cotton 89% seeded, last year 80%, average 88%; condition fair to good. Sorghum 34% planted, last year 22%. Small grains fair to good, rain too late for some, beneficial for most, silage harvest active. Sweet onion harvest very active. Vegetables fair to good, needing rain. Peaches and apples fair to good, spraying very active. Pastures fair to good. Haying very active. Both cattle and hogs fair to mostly good.

IDAHO: Temperatures ranged from near normal to 8° below normal, averaging in the mid to high 40's. Precipitation fell at nearly all locations, ranging from a trace at Kuna, Fairfield and Rupert up to 0.44 at Grangeville.

Planting progress: Spring wheat 92%, 93% 1980, and 78% average; spring barley 86%, 92% 1980, 75% average; dry peas 84%, 100% 1980, 74% average; lentils 80%, 100% 1980, 86% average; potatoes 46%, 60% 1980, 54% average. Dry bean planting just beginning. Sugarbeets thinned and cultivated. Winter wheat 3% in the boot stage. Over one-half the cattle and sheep on summer range. Five days suitable for fieldwork.

ILLINOIS: Temperatures 2 to 5° below normal. Precipitation 0.33 to 1.00 in. northern third; 1.00 to 3.00 in. southern two-thirds.

Corn planting 48% complete, 84% 1980, 57% average. Soybean planting 7% complete, 28% 1980, 12% average. Winter wheat condition 40% excellent, 53% good, 7% fair; 62% headed, 2% 1980, 25% average. Oats 22% excellent, 68% good, 10% fair. Alfalfa condition 21% excellent, 70% good, 9% fair; first cutting 6% complete, none 1980, 1% average. Pastures 24% excellent, 70% good, 6% fair; supplying 85% roughage requirements livestock, 80% 1980, 79% average. Soil moisture 15% short, 76% adequate, 9% surplus. Fieldwork: 4.3 days suitable.

INDIANA: Rainy, cool week. Temperatures averaged 2° below normal and ranged from 31 to 82°. Heavy rains producing high rivers, and flooded fields. Amounts ranged upward to 4.00 in. West central area averaged 3.00 in., southeast and east 1.20 in., elsewhere 2.00 to 3.00 in. Humidities and sunshine less than usual. Most rain on weekend.

Fieldwork averaged 2.0 days. Topsoil moisture adequate to surplus. Subsoil moisture adequate. Spring cropland 95% plowed, 1980 90%, average 85%. Corn 15% planted, 1980 65%, average 35%.

Soybeans 2% planted, 1980 10%, average 5%. Wheat condition good. Wheat 20% headed, 1980 0%, average 35%. Wheat 50% in boot or later stages. Wheat 19 in. high, 1980 12 in., average 12. Oats 7 in., 1980 3 in., average 4 in. Alfalfa hay 5% cut, 1980 0%, average 0%. Pastures good.

IOWA: A cold, dry week. Temperatures averaged 5 to 7° subnormal with light to moderate freeze north and scattered across southern Iowa. Soil temperatures at the 4 in. level cooled to average mostly in the 50's north and low-to-mid 60's south. Precipitation since April 1 has been subnormal in all districts except northeast, north central and southeast.

Topsoil moisture: 26% short, 69% adequate, 5% surplus. Subsoil moisture: 43% short, 51% adequate, 6% surplus. Corn acreage planted: 64% complete, 1980 85%, normal 60%. Corn emerged: 11% 1980 15%, normal 18%. Soybeans planted: 5% complete, 1980 12%, normal 8%. Fieldwork: 5.0 days suitable. Crop conditions: Pasture, winter wheat, alfalfa hay, clover hay, oats, all good. Livestock good to excellent condition.

KANSAS: Soaking rains 1.00 in. to over 2.00 in., locally over 3.00 in. central and small part southwest. Best week for moisture since last week March 1980. Temperatures averaged 56° northwest and 60 to 64° elsewhere, or 7° below normal southwest, 3 to 5° below normal elsewhere. Late season frost and freezing temperatures west and north end of week. Temperatures as low as 25° at Atwood and Scott City. Freezing temperatures were also recorded in northeastern counties on May 11. Frost 1 to 3 weeks later than normal.

Rain and cool temperatures will help wheat not damaged by frost. No assessment crop damage available but some damage inevitable. Wheat jointing 100%, last year 80%, average 85%; heading 75%, last year 2%, average 20%. Corn planted 55%, last year 45%, average 35%. Soybean and sorghum planting getting started southern and eastern Kansas. Fieldwork: 4.0 days suitable.

KENTUCKY: Temperatures averaged from near normal over the Bluegrass region to 2 to 3° below normal over the west. Precipitation ranged from more than 2 in. over west to only a trace in southeast.

Soil moisture mostly adequate. Corn planting 70% complete, last year 62%, average 54%. Soybean planting 10% complete, 8% last year, average 5%. Tobacco plants in good condition, angular leaf spot a problem in some beds, setting underway. Small grains in excellent condition. Wheat 85% headed. Hay cutting active, pastures in excellent condition. Fruit prospects excellent. Strawberry picking active in western areas.

LOUISIANA: Rain general and heavy. Heaviest 24-hour total 5.23 in. Temperatures 5 to 7° below normal. Extremes: 48 and 86°.

Soil moisture adequate. Fieldwork: 3.3 days suitable. Spring plowing virtually complete, 81% 1980. Corn planted 96%, 82% 1980, 91% average; emerged 90%, 72% 1980, 83% average; condition fair to good. Rice planted 90%, 84% 1980, 89% average; emerged 80%, 78% 1980, 79% average; condition fair to good. Cotton planted 75%, 36% 1980, 56% average; emerged 57%, 12% 1980, 29% average; condition fair. Soybeans planted 10%, 7% 1980, 10% average; emerged 5%, 2% 1980, 4% average. Sorghum planted 68%, 16% 1980; emerged 50%, 11% 1980; condition fair. Sugarcane condition fair to good. Sweetpotatoes transplanted 57%, 27% 1980. Vegetables fair to good condition. Wheat turning color 89%. Pastures and livestock fair to good. Hay first cutting 16%, 11% 1980.

MARYLAND AND DELAWARE: Temperatures were below normal, averaging 2° below normal except Lower

Eastern Shore, 6° below. Salisbury reporting 0.66 in. of rain, rest of the State averaged 0.14 in.

Topsoil moisture adequate. Subsoil moisture short to adequate. Acreage for spring planted crops was 94% plowed. Maryland 92% plowed. Delaware 96%. Small grain good to excellent condition. Rye 92% headed, barley 60%, wheat 60% with oats just beginning to head. Tobacco 5% planted. Vegetable planting in full swing. Sweet corn 75% planted, tomatoes 50%, snap beans 60%. Hay and pasture supplying adequate amounts of feed. Six days suitable for fieldwork.

MICHIGAN: Temperatures averaged 2° above to 2° below normal. Only exception was the south central portion of the Upper Peninsula where temperatures averaged 4° below normal. Moderate to heavy precipitation fell from weekend rains.

With sunny days farmers were putting in long hours planting. About 5 days were suitable for fieldwork. Soil moisture supplies adequate to surplus. Acreage 75% plowed, 69% last year, 71% normal. Corn 20% planted, 29% last year, 31% normal. Oats 90% planted, 72% last year, 77% average. Potatoes 50% planted, 39% last year, 44% normal. Sugarbeets 95% planted, 76% last year, 84% average. Soybeans 1% planted, same as last year and normal. Asparagus 15% harvested, 12% last year and 14% normal.

MINNESOTA: Temperatures averaged 2 to 5° below normal in all districts except for near-normal temperatures locally in some areas. Extremes: 77° at Browns Valley and 19° at Grand Forks. Precipitation averaged 0.50 to 0.75 in. below normal in the central and west and near normal to 0.25 in. below normal in the east. Precipitation totals in the west were generally light. Totals of 0.50 in. or less were reported elsewhere except for some local areas in the south central which received up to 1.85 in. Extremes of 1.85 in. at Mankato and trace or less at 5 stations in 4 districts were reported.

Planting in eastern part of State again slowed for short periods by rain. Moisture becoming surplus after several weeks of rainy weather. Only very light rain in western part of State. Moisture short in most of area. Crops look good so far. Topsoil moisture rated 10% very short, 27% short, 49% adequate, and 14% surplus. Crops slow in emerging due to cool soils. Two cool nights lowered the 4 in. depth soil temperatures by 10 to 15°. Small grain condition rated 3% poor, 25% fair, 59% good, and 13% excellent. Hay condition rated 10% poor, 43% fair, 42% good, and 5% excellent. Planted: Spring wheat 98%, 1980 97%, normal 74%; oats 94%, 1980 96%, normal 75%; barley 87%, 1980 94%, normal 64%; flax 37%, 1980 37%, normal 32%; field corn 54%, 1980 73%, normal 49%; soybeans 13%, 1980 18%, normal 12%; sunflowers 22%, 1980 40%, normal 26%; potatoes 48%, 1980 37%, normal 30%; sugarbeets 99%, 1980 94%, normal 76%; green peas for processing 76%, 1980 61%, normal 59%; sweet corn for processing 29%, 1980 36%, normal 25%. Emerged: Spring wheat 75%, 1980 62%, normal 45%; oats 78%, 1980 63%, normal 49%; barley 65%, 1980 53%, normal 36%; flax 14%, 1980 12%, normal 15%; field corn 3%, 1980 7%, normal 6%. Jointing: Winter wheat 9%, 1980 0%, normal 0%; winter rye 10%, 1980 1%, normal 0%.

MISSISSIPPI: Temperatures slightly below normal. Extremes: 42 and 86°. Showers and thunderstorms over most areas of State during weekend. Most areas less than 1.00 in.

Soil moisture short to very short except southern one-third of State with adequate to short. Fieldwork: 5.7 days suitable. Cotton 90% planted, 72% 1980, 63% average; 70% up to stand, condition fair to good. Soybeans 12% planted, 7% 1980, 9% average; 3% up to stand. Rice 94% planted, 79% last year, 76% average; 68% up to stand, 45% 1980; condition fair to

good. Corn 94% planted, 76% 1980, 79% average; 83% up to stand; condition good to fair. Sorghum 38% planted, 19% 1980, 18% average. Winter wheat 12% ripe, harvest just underway.

MISSOURI: Cool air returned as average temperatures dropped from 2 to 6° below normal. Precipitation widespread as rain came early in the week and during the weekend.

Fieldwork: 4.5 days suitable. Corn 70% planted, last year 73%. Grain sorghum 28% planted, last year 26%. Soybeans 25% planted, last year 15%. Cotton 87% planted, last year 65%. Wheat 80% headed, last year 9%. Alfalfa hay 1st cutting 23% harvested.

MONTANA: Very wet over all the State except in portions of northeast and southeast. A major spring storm deposited from 1.50 to 4.50 in. of rain. Heavy snow fell over some mountain areas. Temperatures were very warm first of week but cooled somewhat during the rain period. Temperatures averaged from near normal in northeast and southeast to 5° below normal in west. Highest 80° at Broadus, lowest 15° at West Yellowstone.

Topsoil moisture adequate except short eastern third of State. Subsoil short to adequate except short eastern third of State. Fieldwork: 5.0 days suitable. Winter wheat condition generally fair to good; stands good. Current percent spring crops planted compared with last year and average: Spring wheat 80, 85, 65; barley 80, 80, 65; oats 70, 70, 60; sugarbeets 95, 95, 85; corn 45, 60, 40; potatoes 25, 35, 35; dry beans 30, 40, 30. Crops emerged this year compared with last year: spring wheat 40, 45; barley 40, 40. Range feed and stockwater supplies adequate in western third, short to adequate central third, short eastern third. Cattle on summer ranges 35%; sheep 40%.

NEBRASKA: Freezing temperatures occurred State-wide early on 10th. Some record lows set. Unable to make accurate assessment of possible crop damage at this time.

Wheat mostly fair to good as of 8th. Jointing 90%, 35% last year, 40% normal; 15% headed, 0% last year and normal. Corn planted 46%, 65% last year and 35% normal; 10% emerged, about the same as year ago but week ahead of normal. Sorghum planted 5%, 10% last year and 4% normal. Soybeans planted 4%, behind 7% last year and near normal. Sugarbeet thinning just underway. Topsoil moisture short to mostly adequate. Subsoil supplies short. Pasture and range feed supplies mostly short to adequate. Days suitable: 3.9.

NEVADA: Cooler temperatures experienced throughout most of period. Average temperatures near normal except northeast where below normal reported. Some rainfall recorded midweek in northeast.

Bulk of 1981 potato crop planted. Cotton seeding about completed. Small grain planting well along, except at higher elevations. Lambing and shearing operations over 66% done. Calving nearing completion. Ranges still mostly good despite rapid drying most areas.

NEW ENGLAND: Frost beginning and end of week. High's mid 70's to low 80's. Cooler along the coast. Cold front passing through the region midweek brought the period's only precipitation.

Fieldwork: 5.0 days suitable. Vegetable crops slightly ahead of normal. Some asparagus and rhubarb harvested. Apple bud development delayed by cool weather, and frost damage in some low spots. Winterkill to some pear and peach trees. Cranberry buds starting to whiten. A few potatoes planted in northern Maine, more planted south. Corn planting in full swing south, just starting north. Farmers

spreading fertilizer and preparing seed beds. Alfalfa looks good. Some cattle on pasture. Soil moisture mostly adequate except Vermont where it is short to adequate. Grazing adequate.

NEW JERSEY: Temperatures averaged 3 to 5° below normal. Extremes: 26° at Pomona on 8th and Newton on 9th and 82° at Flemington on 5th. Rainfall averaged 0.22 in. north, 0.09 in. central and 0.17 in. south. Heaviest 24 hour total was 0.31 in. at Bridgeton on 10th to 11th. Estimated soil moisture, in percent of field capacity, past week averaged: 91 north, 84 central and 82 south. Four inch soil temperature averaged: 55 north, 61 central and 60 south. Total sunshine at Trenton from May 4 thru May 10 was 43% of possible hours.

Fieldwork: 5.7 days suitable. Asparagus and spinach harvest continues. Iceberg lettuce growth good, harvest of other lettuce types begun. Tomato planting increasing, Irish potato planting complete. Early plantings up. Early strawberries sizing. Field corn planting advancing. Soybean planting getting underway. Barley forming heads.

NEW MEXICO: Scattered showers early in the week mostly central valleys and eastern plains. Temperatures averaged near to 2° colder than normal with little day-to-day change.

Soil moisture continued in short to adequate supply. Farming activities progressed unhampered in most areas. Planting and irrigating were the major farm activities. Cotton planting underway with emerged fields in good condition. Approximately 55% of the crop planted. Planting in the southern areas nearing completion while the eastern areas vary from just getting underway to not yet started. Alfalfa in good condition. The first cutting underway in the south but not yet begun in the more northern areas. Irrigated wheat and barley in good condition with dryland in poor condition. About two-thirds of the wheat and barley has headed. Corn planting continuing with emerged fields in good condition. Grain sorghum planting just getting underway. Apple and pecans in good condition with sets about average. Ranges in poor to fair condition depending on locality. Cattle and sheep in fair to good condition with supplemental feeding continuing in some areas.

NEW YORK: Rainfall subnormal all areas. Temperatures near normal.

Fieldwork conditions good. Corn planting 13% complete, 14% 1980, 18% average. Oats 61% planted, 48% 1980, 63% average. Early corn, oats, Long Island potatoes emerged. Upstate potato planting in full swing. Oswego County onions 90% planted. Lake Champlain apples in full bloom. Freeze damage to apples varies, not yet fully assessed. Cherries, peaches, pears in full bloom. Significant winter and spring freeze damage to tart, sweet cherries. Damage to pears not widespread or severe. Some winterkill damage to peaches.

NORTH CAROLINA: Temperatures: 3 to 10° below normal. Precipitation: 1.00 to 3.00 in.

Fieldwork: 5.4 days suitable. Soil moisture: 24% very short, 63% short, 13% adequate. Conditions: Wheat, oats, barley and rye mostly fair; pastures mostly fair; tobacco plant beds fair to mostly good; flue-cured tobacco mostly fair; corn mostly fair to good; cotton mostly fair to good; Irish potatoes fair to mostly good; peaches mostly fair to good; truck crops mostly fair; tobacco plant supply adequate. Supplies: Feed grains mostly adequate; fuel supplies mostly adequate. Plantings: Corn 95%, 1980 96%, 90% average; cotton 94%, 1980 78%, 72% average; peanuts 51%, 1980 55%, 42% average; sweetpotatoes 6%, 13% average; sorghum 39%, 1980 16%, 22% average; soybeans 12%, 1980 13%, 14% average; flue-cured tobacco 82%, 1980 55%, 59% average; burley tobacco underway.

NORTH DAKOTA: Temperatures averaged 2 to 4° below normal. Averages from 49° south to 45° north central. Temperature extremes from 75° southeast to 12° northwest. Precipitation averaged 0.22 to 0.48 in. below normal. Averages from 0.22 in. southwest to 0.01 in. east central. Precipitation since April 1 from 0.76 in. below normal northeast to 1.65 in. below normal southeast.

Freezing temperatures nights of 8th and 9th did varying damage to small grains, corn, alfalfa, and sugarbeets. Small grain damage in many areas which will set back growth, full extent not yet known but most in early development stages expected to recover fully. Production from some alfalfa acreage may be lost for the season. Extensive replanting of sugarbeets likely. Precipitation again averaged below normal. As of 10th, 63% short of topsoil moisture compared to 100% last year and 37% averaged. Some areas of southwest and southeast very short. Fieldwork made good progress. Some delays due to cool weather. Average of 6.5 days suitable for fieldwork. Percents planted with last year and average: Hard red spring wheat 77, 72, 50; durum wheat 60, 63, 40; barley 73, 67, 46; oats 76, 67, 43; flax 11, 19, 16; potatoes 28, 46, 27; soybeans 4, 18, 11; corn 16, 19, 10; sunflower 4, 10, 7; dry beans 1, 9, 6. Sugarbeets 99% complete, last year 98%.

OHIO: Average temperatures were 1 to 3° below normal. Temperature extremes were wide. Afternoon readings were in the 70's north to 80's south early and late week. Morning lows midweek were at or below freezing north and central. Precipitation widespread. It ranged from 1.00 to just under 2.00 in. at most stations.

Planting of spring crops almost at standstill because of wet soil. Winter wheat rated very good. Only slight water damage has occurred so far, mainly in low-lying spots. Alfalfa weevil infestation severe in some fields in southern third of State. There has been some frost damage in tobacco beds. Apple prospects were rated fair to good while peaches were only poor to fair. Late frosts have damaged these and other fruit crops. Corn acreage planted 15%, 60% 1980, 45% average. Soybeans planted 3%, 20% 1980, 15% average. Potatoes planted 30%, 55% 1980, 55% average. Oats planted 90%, 95% 1980, 95% average. Sugarbeets planted 95%, 95% 1980, 90% average. Oats emerged 80%, 40% 1980. Wheat pointed 55%, 20% 1980. Days favorable 2.5. Pasture condition good. Soil moisture 34% adequate, 66% surplus.

OKLAHOMA: Division rainfall averages ranged from 0.70 in. Panhandle to 2.70 in. southeast. Temperatures averaged from 3° below normal southwest to 7° below normal southeast.

Widespread rains brought needed moisture late-developing wheat. Wheat developing ahead normal. Wheat heading: 95%, 30% 1980, 75% average. Wheat soft dough: 20%, 0% 1980, 10% average. Sorghum planted: 20%, 5% 1980, 10% average. Sorghum up to stand: 10%, 0% 1980, 5% average. Cotton planted: 15%, 0% 1980, 10% average. Days suitable for fieldwork: 5.5.

OREGON: Temperatures slightly warmer than normal to below normal by weeks' end. Rainfall measured over 1.00 in. along Coast; 0.50 to 0.70 in. in northern section; 0 to 0.10 in. in southern sections.

Winter wheat good; 63% booting; 5% headed. Some disease problems. Hay crops excellent progress with some cutting. Pear set heavy. Apples blooming in upper elevations. Spraying orchards and berries continue. Strawberries beginning bloom. Onion planting nearly complete. Vegetables emerging, slowed by cool weather. Isolated hail damage to peas. Livestock condition good. Range and pasture mostly good to excellent.

PENNSYLVANIA: Rain, generally around 0.25 in.

first part of week with additional rain at end of week. Total amounts ranged from less than 0.25 in. in the upper Susquehanna Valley to between 0.50 and 0.75 in. elsewhere. Temperatures averaged near normal. Extremes: 85 and 22°.

Four days suitable. Moisture mostly adequate. Activities: Plowing; discing; spraying; spreading lime; hauling manure; cutting rye for green chop and silage; and planting corn, oats, and potatoes. Plowing 81%, last year 74%, average 81%. Soybeans 10% planted, same as last year. Oats 88% planted, last year 81%. Potatoes 64% planted compared with 45% last year. Corn 30% planted compared with 27% last year and average of 29%. Barley 19% in boot stage and 7% headed, last year 25% in boot and less than 5% headed. Wheat 12% in boot stage, same as last year. Hay condition good to fair. Feed from pastures mostly average. Peaches 11% pink and 87% in full bloom or past. Cherries 8% pink and 92% in full bloom or past. Apples 31% pink and 66% in full bloom or past.

SOUTH CAROLINA: Wetter and warmer than usual. Periods of rain began 6th with mostly cloudy skies. High temperature 93°. Greatest rain 2.09 in.

Soil moisture short. Days available for fieldwork; 5.0. Corn virtually planted, 25% cultivated last time, condition fair to good. Cotton fair condition; growth, some germination slowed by cool, dry weather; planted 96%, 91 year ago, 87 average. Tobacco growing slowly. Some replanting although virtually complete, good condition. Peaches good condition helped by rains, irrigation. Coastal zucchini harvest getting started; vegetables, melon conditions fair to good except tomatoes good. Wheat turning color, 31%, 13 year ago. Fair condition since rains virtually too late for early varieties.

SOUTH DAKOTA: Precipitation over most of the State. Southwest received over 2.00; less than 0.25 in. elsewhere. Average temperatures normal to 6° below normal. Extremes: 19 and 73°.

Fieldwork continued, almost 6.0 days suitable. Small grains over 90% emerged, flax 37% emerged. Topsoil moisture critically short in most of northwest and northeast and in parts of west central and north central, also in southeast counties bordering Nebraska. Adequate in parts of the southwest and east central. Alfalfa and winter grains hurt from freeze but too early to assess damage. Ranges poor in west, fair in east. Stock water supplies short. Calving 86% completed, lambing 89% completed. Corn planted 33%, 1980 34%, average 18%. Sorghum planted 9%, 1980 2%, average 1%. Soybeans planted 6%, 1980 5%, average 3%. Sunflowers planted 15%, 1980 1%, average 0%. Flax planted 61%, 1980 52%, average 35%. Oats planted 100%, 1980 100%, average 82%. Barley planted 100%, 1980 100%, average 79%. Spring wheat planted 100%, 1980 100%, average 82%.

TENNESSEE: Fair weather except for early part of the week and the weekend when cold fronts moved across the State bringing showers. Temperatures averaged near normal except for middle which averaged about 5° below normal. Precipitation near 1.00 in. in the west and middle and near 0.50 in. in east.

Fieldwork: 5.3 days suitable. Soil moisture short. Spring plowing 88% completed, 1980 83%, average 79%. Corn 80% planted, 1979 73%, average 61%. Cotton 80% planted, 1980 69%, average 50%. Soybeans 10% planted, 1981 10%, average 5%. Tobacco 5% transplanted, 1980 3%, average 5%; some blue mold reported. Small grains in good condition. Wheat 88% headed, 1980 67%, average 75%. Oats 75% headed, 1980 54%, average 63%. Barley 85% headed, 1980 62%, average 75%. Pastures in fair condition. Cattle in good condition. Activities: Plowing, planting, hay making, harvesting strawberries, spraying orchards and tobacco transplanting.

TEXAS: Weather: Scattered thunderstorms with locally heavy rains southeast Texas; slow moving cold front West Texas triggered scattered thunderstorms Panhandle late 4th afternoon. Thunderstorms fell 8th north Texas. Temperatures 2 to 3° below normal Panhandle, North Central Texas; near normal elsewhere. Precipitation 0.25 to 0.50 in. below normal most of Texas except Pecos region. Northeast Texas 2.00 in. above normal.

Crops: Midweek open weather most State, fieldwork accelerate following weeks of scattered showers, thunderstorms. Some low-lying coast standing water after heavy rains fell on already saturated soils. Armyworms remain problem Central Texas to Low Plains; producers continuing spraying operations. Cotton planting rapid progress High Plains. Short moisture supplies slowed planting some High Plains counties. Cotton making good progress in the southern half State; cool night temperatures slowed development of some stands. Some low-lying sorghum fields Coastal Bend standing in water.

Replanting some hail-damaged crop South Central Texas. Blacklands armyworms problem; some instances entire plants destroyed. Corn tassel Coastal Bend southward. Some low-lying coast standing in water. Wheat, small grains head out across State. Stands good progress following recent showers; dryland wheat fields Northern High Plains additional moisture as heads begin to fill out. Limited wheat harvest underway South Texas; wet fields delayed operations throughout most area. Armyworm, rust damage cut potential yields Central Texas to Low Plains. Reported wheat condition Statewide is 13% excellent; 46% good, 33% fair, and 8% poor. Peanut planting continued; high cost of seed, lack of moisture slowed planting Cross Timbers. Hay meadows, pastures good condition; baling operations continue across State. Cotton planted 33%, 24% 1980, 28% average. Rice planted 96%, 99% 1980, 97% average. Rice emerged 89%, 91% 1980. Sorghum planted all purposes 73%, 68% 1980, 65% average. Sorghum headed 14%, 4% 1980. Wheat headed 67%, 43% 1980. Wheat turning color 10%, 3% 1980. Corn planted 94%, 89% 1980, 91% average. Peanuts planted 17%, 12% 1980, 16% average. Soybeans planted 2%, 1% 1980, 3% average. Sugarbeets planted 98%, 100% 1980, 100% average. Sunflowers planted 14%, 8% 1980, 8% average.

Commercial vegetables: In the Rio Grande Valley, harvest carrots, cabbage, onions delayed; tomatoes, corn, okra, squash make good growth, bell peppers sizing well. Good fruit set developing on citrus groves. In the Coastal Bend area, harvest beans, cucumbers continue. In the San Antonio-Winter Garden area, harvest carrots, cabbage continued. Few watermelons harvested. In East Texas, tomatoes, corn, squash, cabbage progressed. In North Texas, spider mites, aphids a problem. Harvest early vegetables continued. On the Plains, watermelon planting underway. Potatoes, tomatoes make good growth. Peppers beginning to bloom. Thinning, spraying peach trees complete. Early variety peaches ready for harvest. Pecan pollination near completion. Casebearer eggs beginning to develop.

Range and livestock: Rangeland pasture conditions improved. Livestock continue good condition. Sheep shearing delayed by wet weather.

UTAH: Recurring periods shower and thunderstorm activity principally northwestern half of State. Few isolated showers southeastern half. Accumulated amounts moisture ranged from little or none to well over 1.00 in. Average temperatures somewhat cooler than previous week ranging from 3° below normal to 4° above.

Soil moisture condition improved northwestern portion but still remains serious most sections of State. Fieldwork made good progress with 5.5 days suitable. Soil moisture rates adequate following recent rains. Spring work ahead of normal. Most grains planted and emerged. Corn about 45% planted. Planting of potatoes and processing

vegetables making good progress. Some frost damage to fruit in Utah County where 70% of fruit grown. Extent of damage still being assessed. Hay harvest begun in warm "Dixie" area of State. Alfalfa averages about 11 in. in height, somewhat ahead of normal. Insect infestations heavy due to warmer than normal winter.

VIRGINIA: Spotty precipitation 7th and widespread showers 10th totaled around 0.50 in. Highs ranged from 60's to 80's and lows from upper 20's to near 60. Scattered frost at beginning and end of period.

Soil moisture rating declined: 78% short, 22% adequate. Days suitable for fieldwork: 5.4. Corn planting progress: 74%, 51% 1980, 63% average. Emerged corn in good to excellent condition. Soybean plantings at 11%, 4% 1980, 7% average. Peanut planting very active; 56% complete, 38% 1980, 30% average. Flue-cured tobacco transplanting well under way with 29% transplanted, 2% 1980, 10% average. Other tobacco just beginning with fire-cured 4% transplanted and burley 2%. Live-stock in excellent condition. Pastures in good condition, growth reduced due to limited moisture. Small grains look good, heading. Fruit crop prospects good. Farmers active planting crops, cutting hay and silage and hoping for rain.

WASHINGTON: West: Temperatures were below normal throughout the area. The average was 5° although Olympia was 8° below normal. In contrast, precipitation on the Coast was well above normal by 1.00 in. The Northern Interior, Longview and west slopes of the Cascades also had above normal rainfall. Near normal rainfall occurred in the Puget Sound low lands.

Fieldwork limited on westside of the Cascades. Planting moved behind schedule. When weather and field conditions permitted, the planting of corn, potatoes and carrots continued. Early peas were up. Strawberries were in full bloom. Pastures continue to do well, with some seeding underway. Grass silage was being made when weather permitted.

East: Below normal temperatures common. The greatest rainfall was in the northeastern and Palouse-Blue Mountains where 0.33 to almost 1.00 in. fell. Otherwise below normal precipitation was the rule.

No accurate estimate of fruit damage from the frost available at this time. Corn and potato planting continued. Hop twining continued. Wheat and barley conditions continued to range from average to above average. A small amount of foot rot and stripe rust showing up. Pasture and range conditions in good shape. Soil moisture ranges from average to good.

WEST VIRGINIA: Temperatures averaged below

normal. High 88 and low 21°. Precipitation below normal.

Soil moisture adequate. Days worked averaged: 3.5. Major activities: Gardening, fencing, corn planting. Oats in fair to good condition, 74% planted, 72% in 1980. Corn fair to good condition, 23% planted, 23% in 1980. Tobacco fair to good condition, beds 99% seeded, 86% emerged, 89% and 64% respectively in 1980. Pasture and hay in good to fair condition. Apples and peaches in fair condition. Potatoes in fair to good condition, 78% planted, 68% in 1980. Gardens in fair to good condition. Live-stock in good condition. Hay, grain and other feed supplies adequate.

WISCONSIN: Temperatures averaged 4° below normal. Highs 50's and 60's until 9th when reached 70's west and south before cold front brought sharply cooler readings 10th. Lows in 20's and 30's, frosts north and east. Extremes: 72 and 24°. Rainfall varied from 0.33 to 1.00 in., with heaviest amounts northern areas 4th.

Fieldwork: Average 4.0 days suitable, north slowed by wet fields, south making good progress. Oats 70% planted, 1980 90%, average 70%. Low ground and poorly drained fields still too wet. Early oats growing well, as is winter wheat. Corn 20% planted, 1980 35%, average 20%. Planting active in southern areas where some farmers finished. Spring plowing 60% done, 1980 75%, average 66%. Hay and pastures growing fast, some cattle out on pasture. Potato planting advanced central and south, slow in north where too wet. Planting peas, sweet corn, and other vegetable crops. Tobacco beds being seeded, fruit trees in bloom. Soil moisture 55% adequate, 45% surplus.

WYOMING: Below seasonal temperatures and above normal precipitation in virtually all parts of State. Most precipitation 2.73 in. Highest temperatures 88° in Big Horn Drainage; lower 22° in Lowee Platte Drainage.

Topsoil moisture adequate 73% State. Average 3.0 days suitable for fieldwork. Spring wheat planting: 75%; 68% year ago; 67% normal. Spring wheat emerged: 40%; 48% year ago; 43% normal. Oats plantings: 75%; 65% year ago; 68% normal. Oats emerged: 35%; 31% year ago; 40% normal. Barley plantings: 85%; 78% year ago; 78% normal. Barley emerged: 55%; 53% year ago; 53% normal. Potatoes planted: 10%; 6% normal. Corn planted: 40%; 34% year ago; 43% normal. Corn emerged: 10%, 6% normal. Winter wheat prospects fair to good. Alfalfa prospects fair to good. Cattle receiving 80% roughage requirements from grazing. Sheep receiving 85% roughage requirement from grazing. Spring calving 90% complete; 89% year ago. Ewes lambing: range 70%; farm flock 95%. Sheep shorn: range 75%; farm flock 90%.

CROP PRODUCTION HIGHLIGHTS

WINTER WHEAT production is forecast at a record high 2.08 billion bushels (56.6 million metric tons), as of May 1, 10 percent more than last year's production of 1.89 billion bushels (51.5 million metric tons). The 90 percent confidence interval for this production forecast is 1.84 to 2.32 billion bushels.

CITRUS production -- forecast at 14.8 million tons (13.4 million metric tons) -- is 1 percent below last month's forecast and 10 percent less than last season.

ORANGE production is forecast at 239 million boxes (9.29 million metric tons), down 2 percent from last month's forecast and 13 percent less than the 1979-80 season. As of May 1, 72 percent of the U.S. orange crop had been harvested.

GRAPEFRUIT production is forecast at 67.6 million boxes (2.50 million metric tons), up fractionally from the April 1 forecast but down 8 percent from last season. By the 1st of May, 88 percent of the crop had been picked.

LEMON production for California and Arizona is expected to total a record 31.0 million boxes (1.07 million metric tons), up 2 percent from last month's estimate and 49 percent higher than last season's output. Lemon harvest was 77 percent complete on May 1.

PEACH production in the nine Southern States is forecast at 657 million pounds (298 thousand metric tons), 11 percent more than last year.

SPRING POTATO production is forecast at 20.6 million cwt (934 thousand metric tons), down 2

percent from April 1 but 21 percent above last year's record low production.

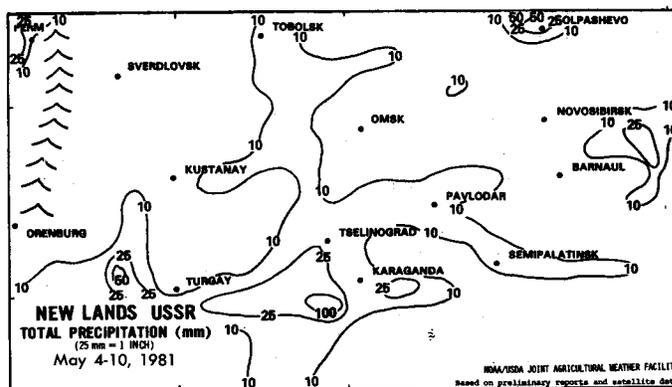
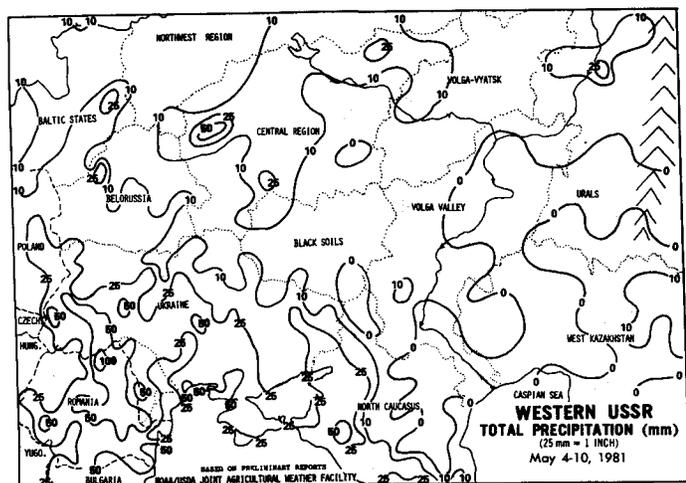
HAY STOCKS ON FARMS: May 1 stocks of hay on farms totaled 25.5 million tons (23.1 million metric tons), 24 percent below last year's

record high and 15 percent below May 1, 1979. Disappearance during the January - April period was 66.5 million tons (60.3 million metric tons), 11 percent less than during the comparable period a year earlier.

International Weather and Crop Summary

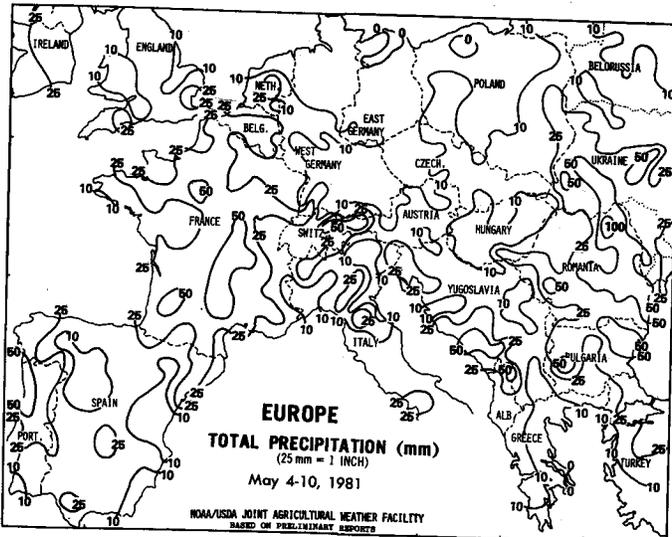
May 4-May 10, 1981
HIGHLIGHTS

- USSR:** Warmer weather allowed crop growth to accelerate, but wet conditions interfered with field work. Eastern New Lands remained dry; southern cotton areas stayed wet.
- EUROPE:** Warmer and drier weather in northeastern parts improved growing conditions. Beneficial rains fell in many central and southern areas.
- NORTHWESTERN AFRICA:** Good harvest weather prevailed in Tunisia and Algeria, but another rainy spell occurred in Morocco.
- SOUTH ASIA:** Premonsoon showers covered much of India and Bangladesh.
- CHINA:** Only light rain fell in parts of Hebei and Shandong; winter grains should be in the heading stage, and more rain is needed soon. Wet weather continued in the south, but the threat of flooding has abated.
- SOUTH AMERICA:** Locally heavy rainfall in Argentina delayed crop harvests. In contrast, dry weather in Brazil aided harvesting activities. Soil moisture supplies are mostly favorable for planting winter wheat.
- THAILAND:** Early season rainfall continued to provide favorable conditions for agricultural activities.
- CANADA:** Beneficial moisture fell in Alberta, while drier weather prevailed further east. Cold weather during the weekend slowed wheat seeding.
- AUSTRALIA:** Dry weather continued in most wheat areas except the southeast. Moisture is needed for winter wheat sowing.
- MEXICO:** Sunny, dry weather favored crop development and field activities.

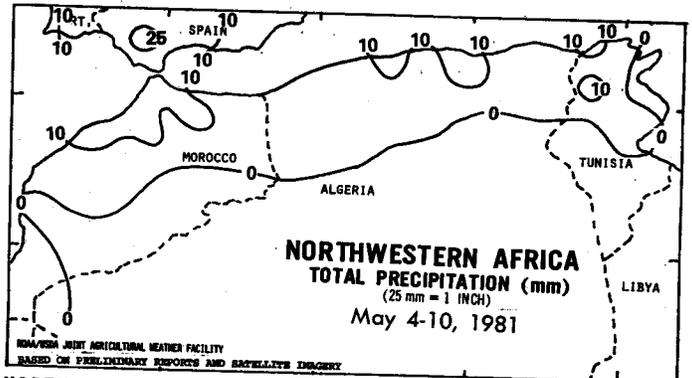


USSR: Temperatures increased substantially over the winter grain belt, allowing crops to develop more normally. However, rainfall increased again over the southwestern three-fourths of the belt, causing more delays in fieldwork. Dry weather in the Chernozem Region and Volga Valley permitted stepped-up fieldwork. Abundant rains fell early in the week across southern crop areas of the New

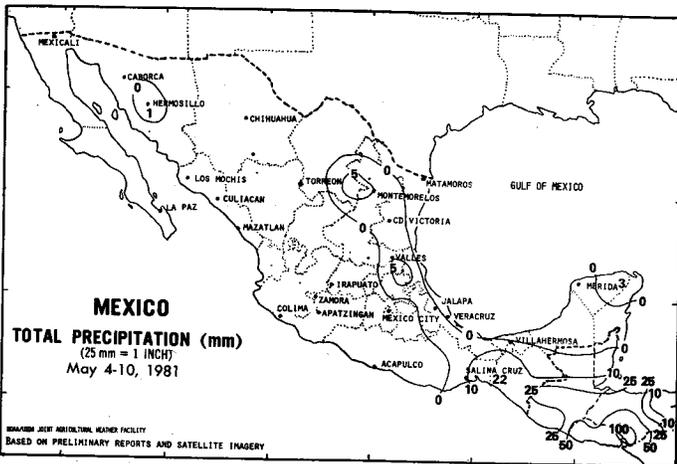
Lands, but totals over much of the east were disappointing. Spring grain planting prospects have dimmed somewhat in the east recently. Warmer-than-normal weather has dried out surface soils while rainfall has stayed light. Planting prospects remain good in the western portion of the New Lands. Cotton-growing areas in southern Uzbekistan and eastern Turkmenistan had another wet week. Rainfall amounts were generally lighter than the previous week, but some of the showers may have caused additional localized damage to newly planted cotton.



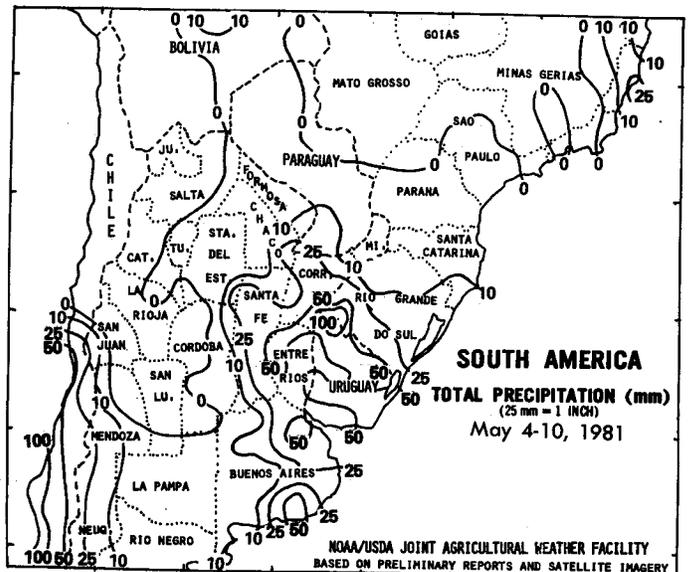
EUROPE: Warmer and drier weather moved into northern parts of the region, substantially improving growing conditions. Above normal precipitation covered major portions of central and southern countries. France in particular received abundant rainfall across nearly the entire country, maintaining good growing conditions. Even southern Spain had continued rainfall, which improved the outlook for spring-sown crops. No countries were short of moisture for current crop needs.



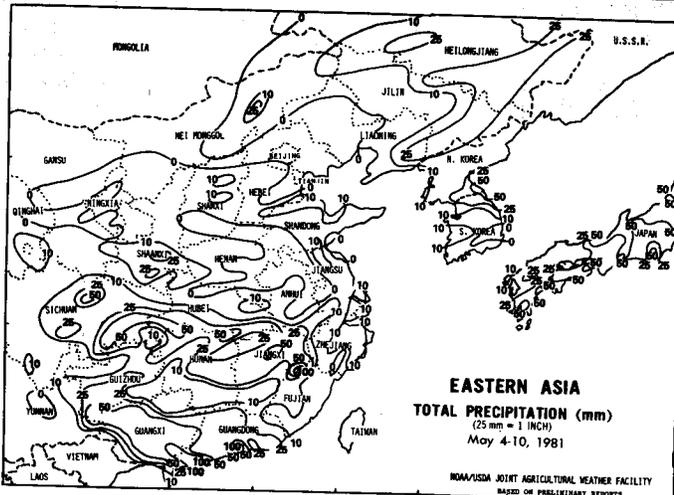
NORTHWESTERN AFRICA: Fair weather early in the week allowed fields of maturing winter grain in Morocco and Algeria to dry out. However, a front moving in over the weekend brought unfavorable damp weather to northern Morocco. Yield losses are not expected unless the dampness persists. Tunisia had relatively good harvest weather.



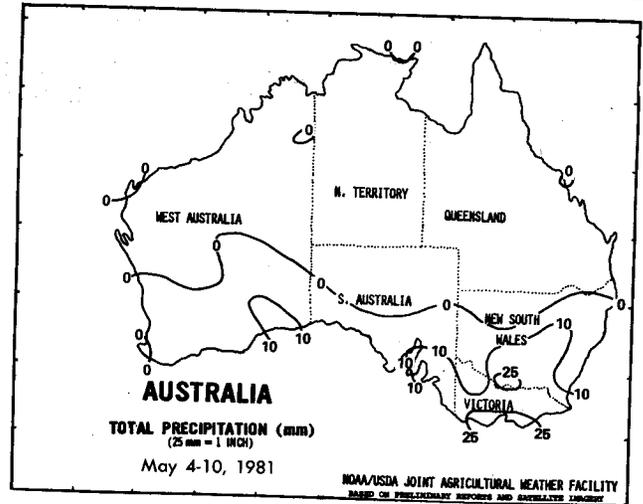
MEXICO: Light showers dotted the east, but rainfall was too small to significantly improve soil moisture or interfere with field activities. Sunny, dry weather with hot afternoons kept most crops progressing seasonably over the main agricultural areas. Heavy rains over El Salvador and southern Nicaragua imply an early start of the rainy season which usually progresses north-westward into Mexico in a few weeks.



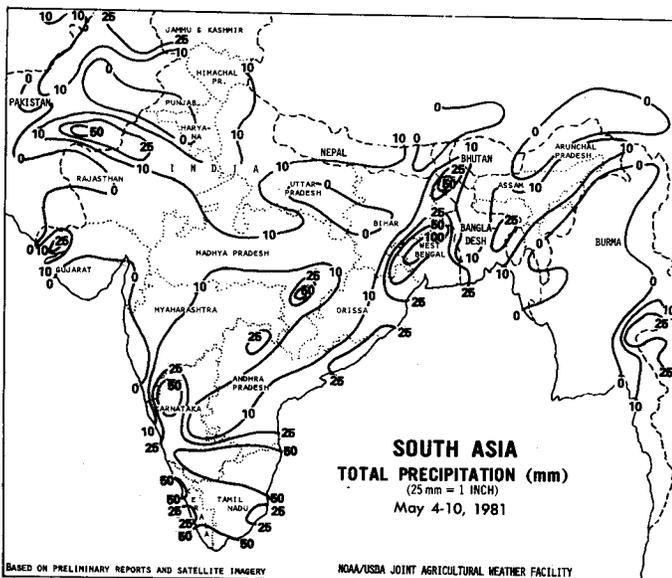
SOUTH AMERICA: Heavy shower activity was concentrated in Uruguay and adjacent areas of Argentina and Brazil. Weekly rainfall averaged 50 to 75 mm in this region with locally heavier amounts (100 to 150 mm) in northeastern Uruguay and extreme southwestern Rio Grande do Sul. Harvest delays due to wet fields and some local crop damage due to excessive rainfall can be expected in these areas. Less rain fell from east to west in Argentina across the major crop producing regions of Buenos Aires, Entre Rios, Santa Fe, Cordoba, and La Pampa. The major soybean harvest had just begun during early May in Argentina while corn and sorghum harvests were far advanced. In Brazil's south-central crop area, mostly dry weather aided corn and soybean harvests. The moisture situation for winter wheat sowing, which normally begins in May, is generally favorable in most crop areas of Brazil and Argentina.



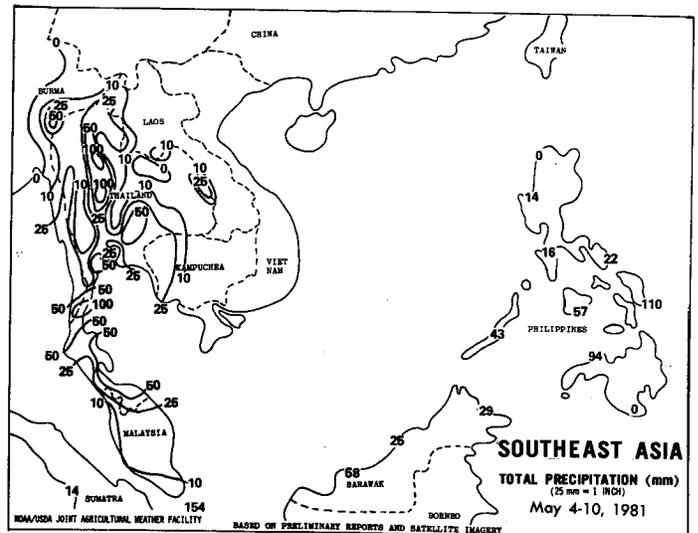
EASTERN ASIA: Light rainfall of 5 to 10 mm eased dryness in parts of Shandong and Hebei in China. However, winter grains should now be in the heading stage of development, and additional moisture is needed on rainfed fields to assure normal yields. Soil moisture in more southerly winter grain areas remained adequate despite drier weather during the week. South of the Yangtze River, the rainy weather shifted northward out of the hills, but amounts stayed mostly below normal. The danger of flooding seems to have eased, at least for the time being. In South Korea, somewhat below normal rainfall over most crop areas kept conditions a little dry for rice growth, necessitating careful attention to irrigation.



AUSTRALIA: Beneficial moisture fell only in southeastern Australia where weekly totals ranged from 10 to 40 mm in southern New South Wales, Victoria, and extreme southeastern South Australia. Elsewhere, continued dry weather prevailed. Ample time is still available for wheat sowing (the usual planting period is May and June); however, significant moisture will be needed, especially in northern New South Wales and West Australia. Soil moisture reserves are low in these areas and rainfall is necessary to provide favorable conditions for germination and emergence.



SOUTH ASIA: Premonsoon showers covered much of India and Bangladesh. Rainfall accumulation in Bangladesh is now running near normal, but the showers in India are earlier than expected. Some wet weather in Kashmir and northern Pakistan may have disrupted late harvesting of winter grains.



SOUTHEAST ASIA: Significant rainfall occurred over much of Thailand. Weekly amounts averaged 50 to 100 mm from the Central Plains north of Bangkok to northern Thailand. Rainfall was light (less than 10 mm) in the extreme west and northeastern portions of the country. Early-planted corn and rice should have a good start due to early season rainfall which began in April. In addition, reservoir levels in central and northern Thailand should benefit from the early onset of the wet season.

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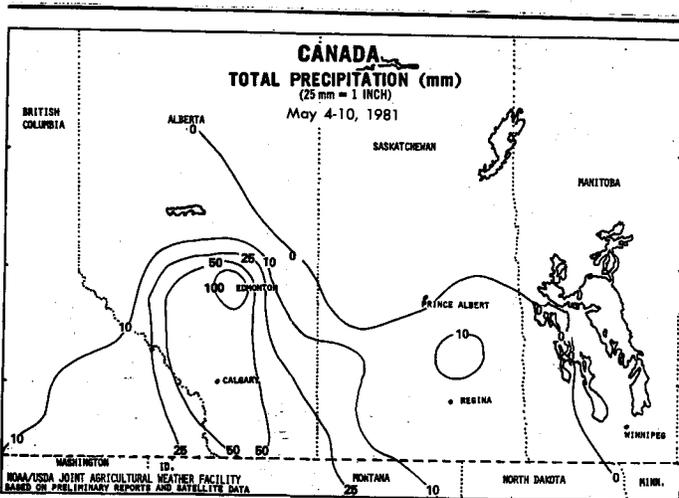
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CANADA: Significant weekly rainfall (25 to 85 mm) occurred in the western Prairies as a storm system pushed southeastward from the Pacific during the midweek. Although the wet weather delayed field-work, it improved topsoil moisture conditions in preparation for wheat sowing. Spring wheat and durum wheat planting was about 10 to 15 percent complete in Alberta. Rainfall was much less in the central and eastern Prairies. Weekly amounts were generally less than 10 mm in most of Saskatchewan and Manitoba. Spring seeding was progressing well in Saskatchewan although cold weather (minimum temperatures falling below 0° C) moved in over the weekend.

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