WEEKLY WEATHER AND CROP BULLETIN

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

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

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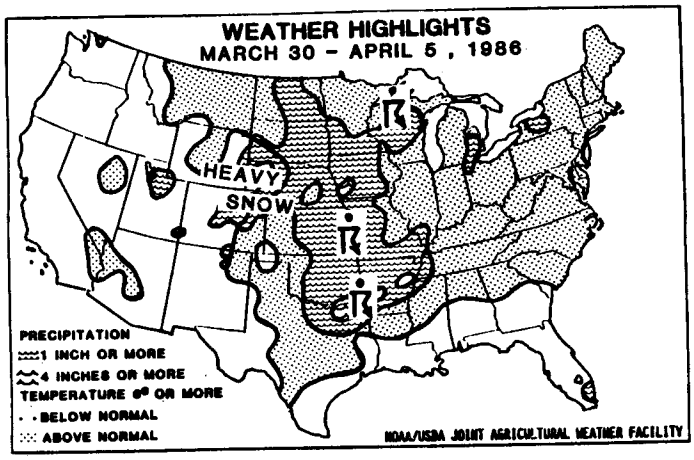
National Weather Summary

March 30 to April 6, 1986



HIGHLIGHTS: Showers and thunderstorms produced moderate to heavy rain through most of the Great Plains. Little or no rain fell in southern Texas or from western Texas through western Kansas. Showers fell in most of the Rockies, and heavy snow covered many areas from Utah through Colorado and onto the High Plains in Nebraska and South Dakota. Light to moderate rain fell through the Great Lakes region, and light rain covered the Ohio Valley and from the central Appalachains to New England. Temperatures were warmer than normal in all of the Nation except southern Florida. Early in the week record-warm afternoon temperatures were from Illinois through New England.

SUNDAY...Unusually warm weather covered much of the Nation and record-high temperatures were established from the central Plains into New York State. Surface soils were getting very dry from the central and southern Great Plains through the Southeast and the Ohio Valley. Light rain fell in the Northeast, from Montana to the Northwest coast, the central Plateau, and in southern Florida.

MONDAY...Rain came to the eastern portion of the central and northern Plains. Showers and thunderstorms produced moderate rain fall in eastern Oklahoma and Kansas and from central Iowa into Wisconsin. A few showers fell in the central Rockies, southern Plateau, and southern Florida. Dry weather continued in the East.

TUESDAY...Light precipitation fell nearly everywhere west of the Rockies. Snow fell in the higher elevations of the central Rockies. Showers and thunderstorms produced light rain and occasional hail and high wind from central and northwestern Texas to the eastern Great Lakes and New York. The light showers reached northward through the central Plains. Much cooler air covered the Rockies and central part of the Nation. Unusually warm air was evident only in the Atlantic and Gulf Coast States.

WEDNESDAY...A potent storm in the central Rockies spread wind, rain, and snow throughout the mountain areas. Moist air from the Gulf of Mexico induced showers and thunderstorms from northern Texas through the northern Plains and through the middle and upper Mississippi Valley. Cold rain and wet snow fell in the western part of the central Plains.

THURSDAY...The center of the potent storm moved into the central Plains dropping heavy snow over the eastern portion of the central Rockies and high Plains. Showers and thunderstorms were scattered from eastern Texas through the central and northern Plains, the Great Lakes region, and the Ohio and Tennessee Valleys. Light rain reached from the Carolinas to New York.

FRIDAY...The storm was moving slowly northeastward through Nebraska. Showers and thunderstorms reached from eastern Texas to the middle and upper Mississippi Valley and over the northern Plains. Heavy snow fell from western Nebraska into the Dakotas. Rain fell from the Great Lakes States to the mid-Atlantic and southern New England.

(Continued to p. 6)

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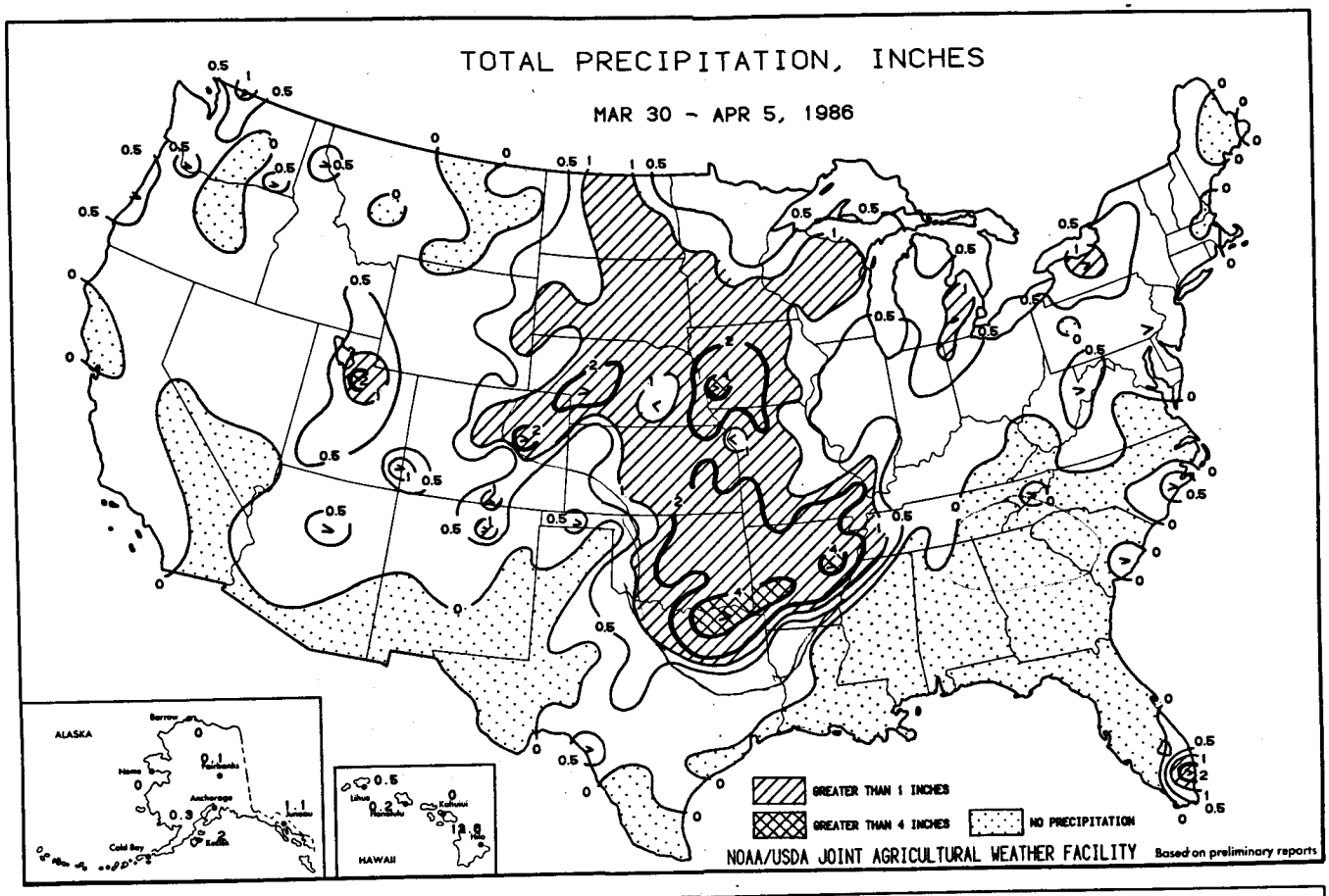
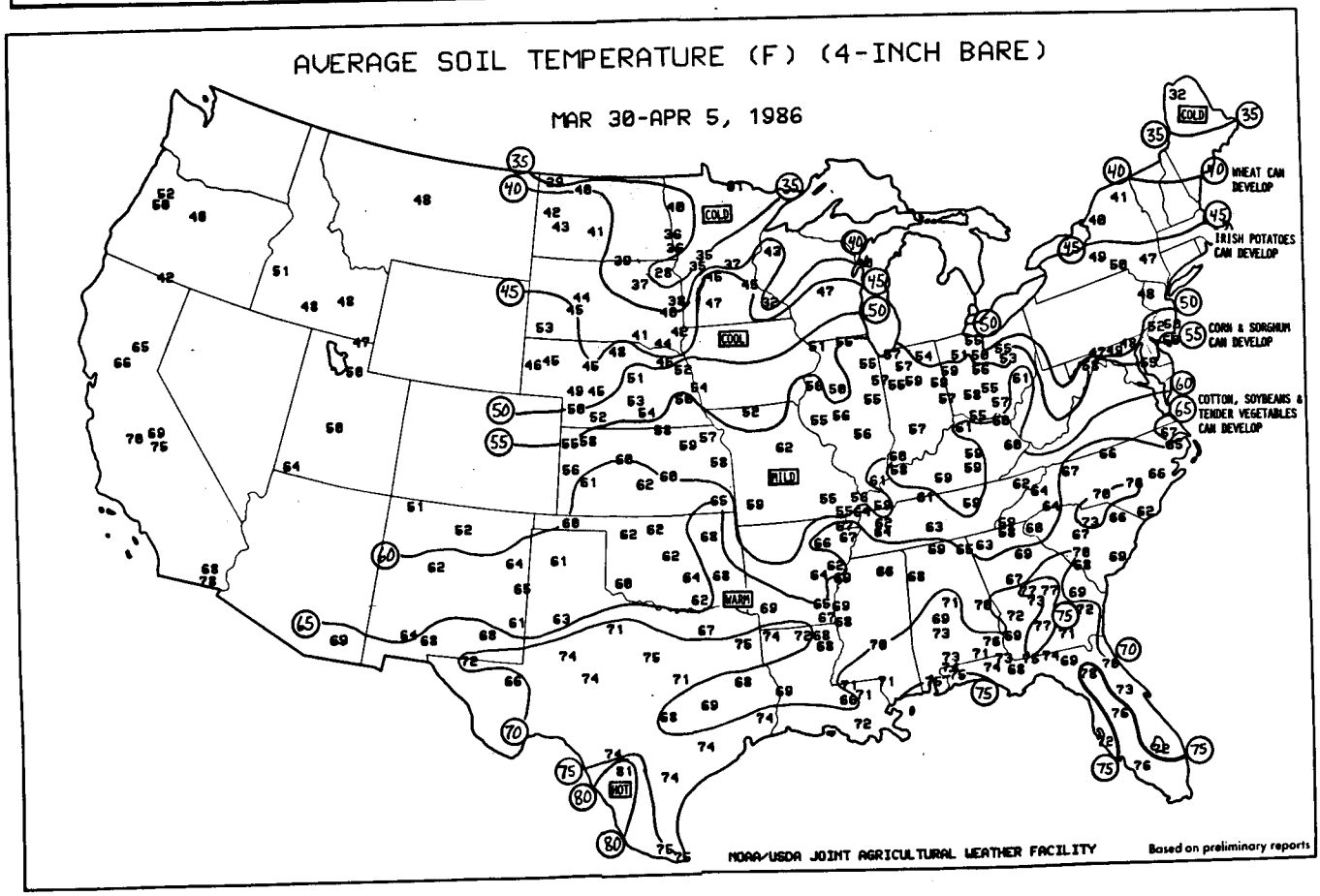
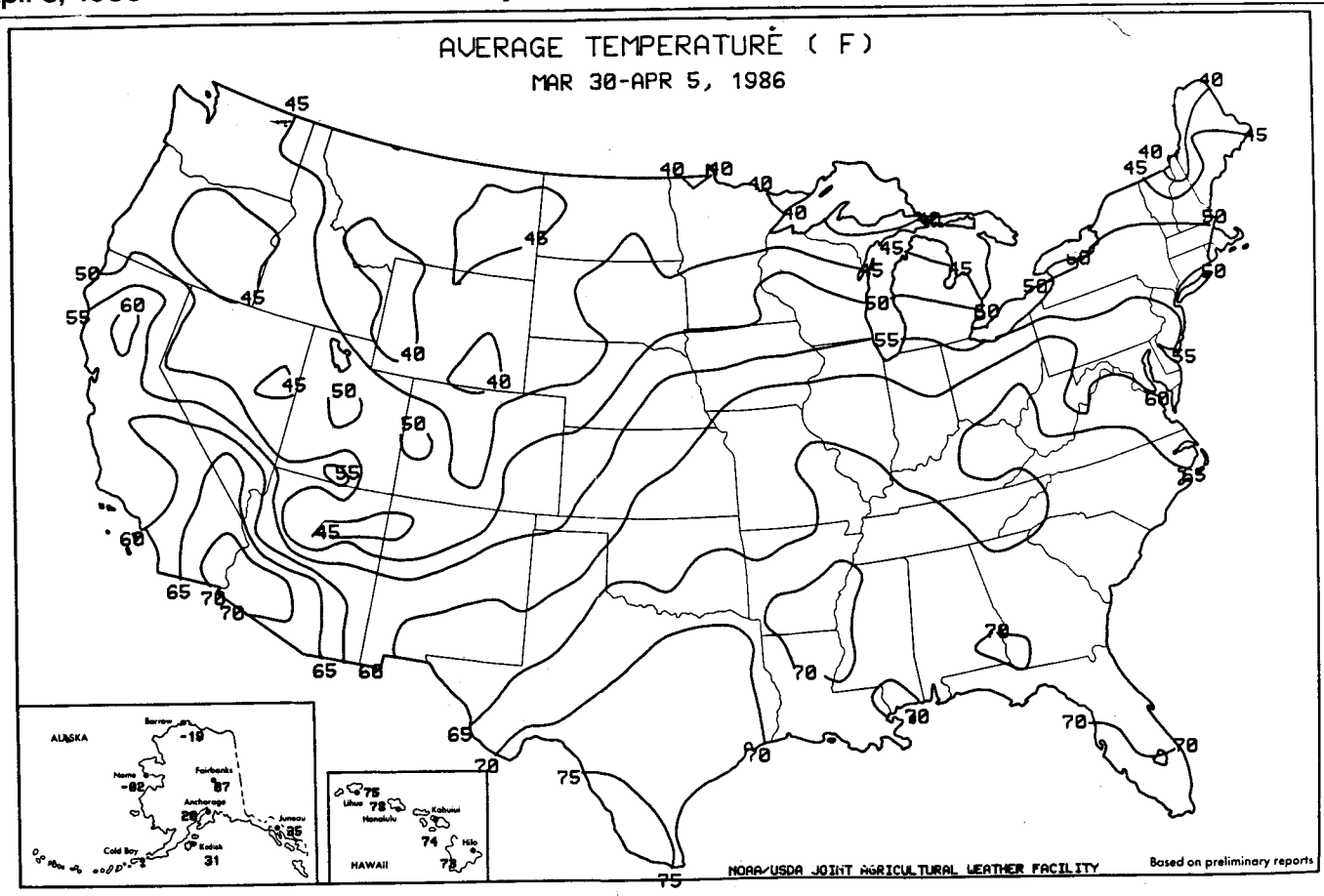
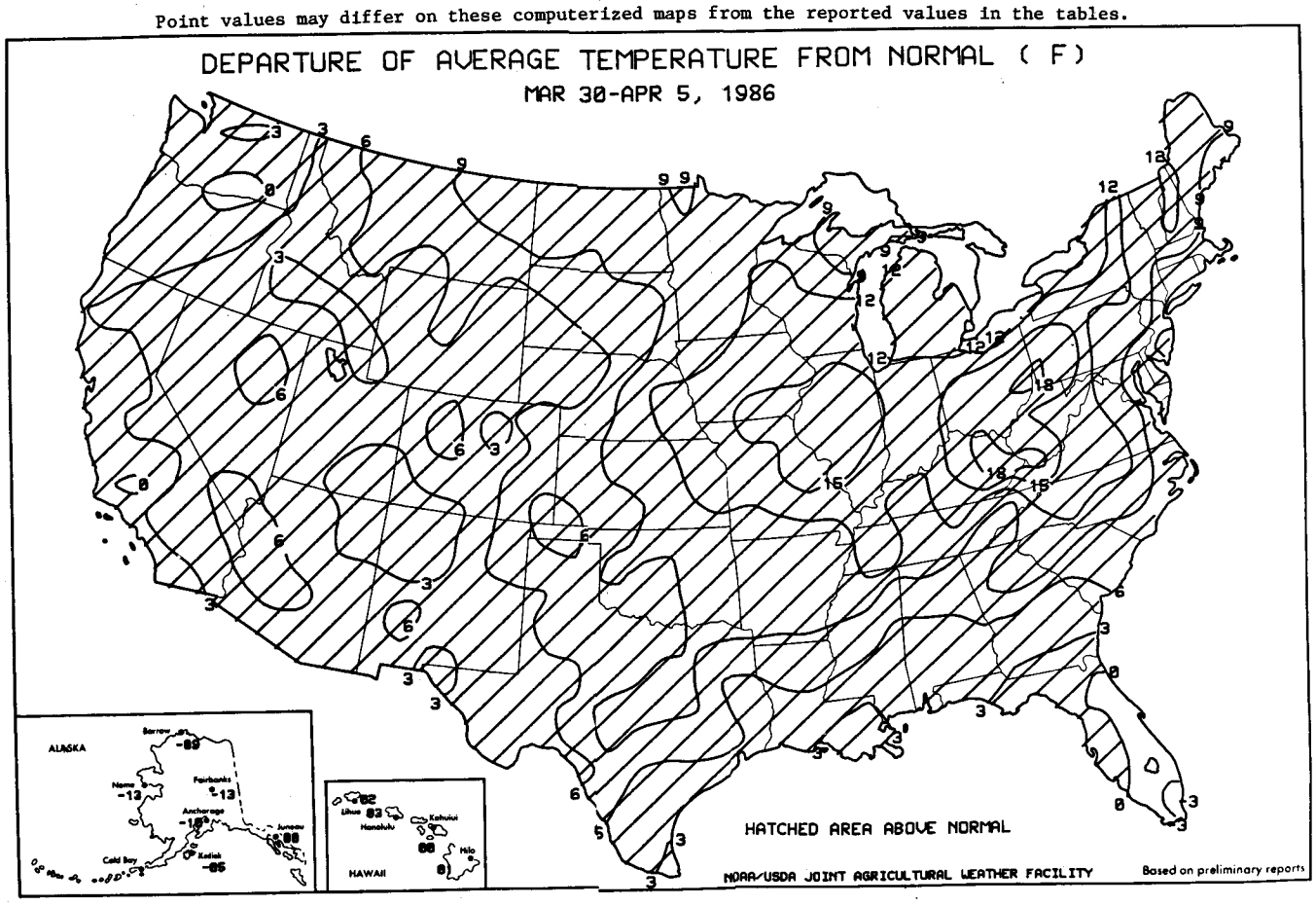

TOTAL PRECIPITATION, INCHES
MAR 30 - APR 5, 1986
ALASKA
HAWAII
GREATER THAN 1 INCHES
GREATER THAN 4 INCHES
NO PRECIPITATION
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE SOIL TEMPERATURE (F) (4-INCH BARE)
MAR 30-APR 5, 1986
COLD
COOL
MILD
WARM
HOT
WHEAT CAN DEVELOP
IRISH POTATOES CAN DEVELOP
CORN & SORGHUM CAN DEVELOP
COTTON, SOYBEANS & TENDER VEGETABLES CAN DEVELOP
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports



Point values may differ on these computerized maps from the reported values in the tables.



Pan Evaporation: Guide to Crop Water Use and Reservoir Evaporation

The map, "Pan Evaporation," is issued to depict the weekly amount of water evaporated from standard National Weather Service Class A pans. The Class A pans are generally of monel or galvanized metal, unpainted, 4 feet in diameter, 10 inches deep, and mounted on a platform a few inches above the surrounding soil. The data is of interest in water and crop management, especially during droughts or when crop irrigation is being expanded to maintain a reliable supply of agricultural commodities for national and world needs.

Pan evaporation data can be used to estimate consumptive water use by crops and evaporation from lakes and stock ponds. It also serves as a general climatic index incorporating temperature, humidity, wind, and solar radiation.

When multiplied by appropriately derived coefficients, pan evaporation can be used to estimate the water use by a crop.

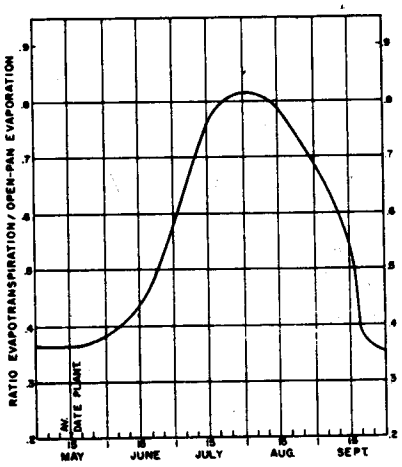


Figure 1. Ratio of evapotranspiration of corn to open-pan evaporation throughout the growing season (after Denmead and Shaw, 3). On the average, 50 percent of the corn in Iowa is silked by July 31.

The coefficients, ratio of crop water use to pan evaporation, change throughout the growing season. An example of the relationship between water use by corn during its various development stages and pan evaporation are shown in fig. 1. The relationship for sugarcane is depicted in fig. 2.

The difference between the crop water needs and rainfall can be made up by irrigation in some areas; otherwise, crop yields may be lowered when moisture is short, especially during the critical crop stages of flowering and early maturation.

A main use of pan evaporation is to estimate the evaporation from lakes particularly those of interest to the Army's Corps of Engineers, Water Resource Departments, and reservoir managers. The coefficient for conversion of evaporation from the Class A pan to that of a shallow lake or free water surface averages around .7 but varies across the country. The coefficient is generally smaller in arid regions and larger in the humid ones.

Don Haddock

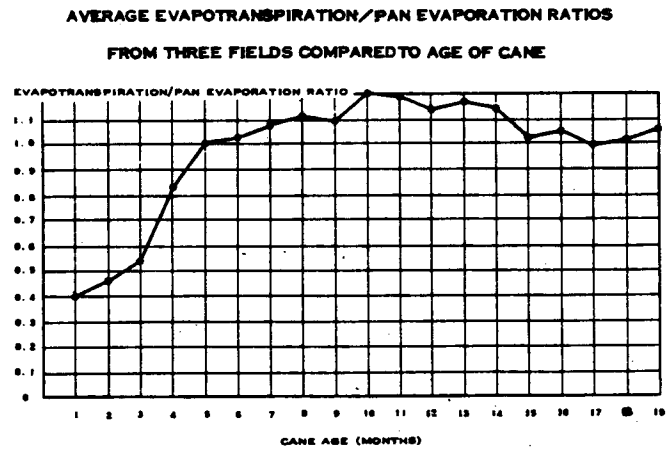
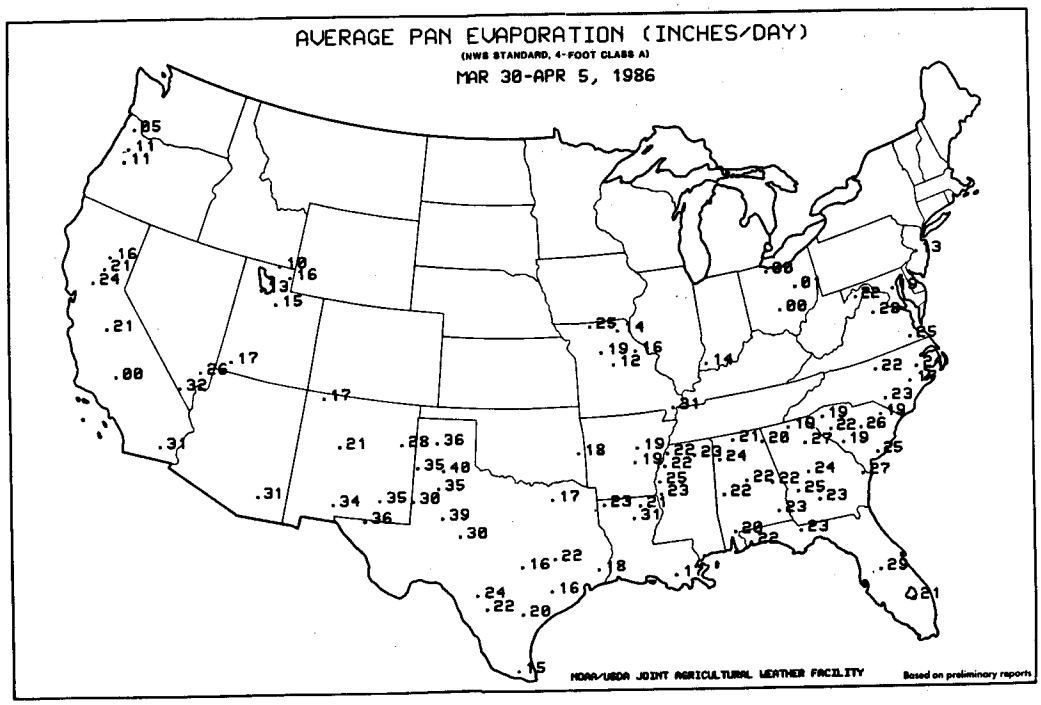


Figure 2. Ratio of average evapotranspiration or consumptive water use to pan evaporation for three fields by age of sugarcane. (Redrawn from Chang, Jen-Hu. Microclimate of Sugarcane. Hawaii Planter Rec. 56(3): 195-225. 1961.)

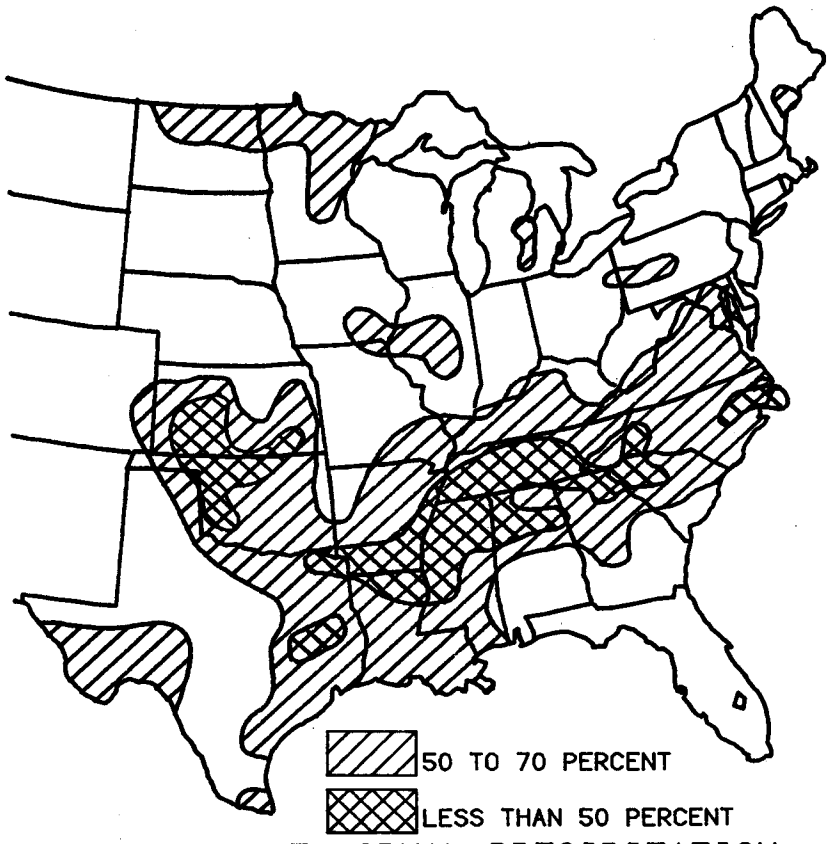


Summary of Dryness in Eastern United States

Large areas of the eastern States have experienced significantly less than normal precipitation during the last four months. The deficiency has been most pronounced in the region extending from the southern Plains eastward through the lower Mississippi Valley and the southern Appalachians to the Middle Atlantic Coast. The eastern portion of this region also suffered from long-term dryness in late 1984 and early 1985.

The moisture shortages indicated in the map below are mostly in the top layer of soil and in the expected runoff. Soil moisture accounting during this period indicates that subsoil moisture is adequate in all areas. During the winter months, little or no plant growth takes place and very little moisture is used for evapotranspiration. Therefore, most of the rain that falls is retained in the soil. The surface of the soil does dry out, and the decaying debris from last year's plant growth is highly flamable making the indicated areas very prone to brush fires. It also means that shallow rooted crops such as transplants, and newly seeded crops will not have moisture for germination and early growth. If irrigation is not available, these crops will be under severe stress. The Crop Moisture Index (to be published on April 28) does not account for these unique springtime dry conditions. The Drought Severity Chart (to be published April 14) does account for the overall moisture shortage and the moderate drought shown on this chart will detail the area of long-term shortage of runoff.

The map shows areas that reported less than 70 percent of normal precipitation between December 1, 1985, and March 30, 1986. The darker shading indicates the most deficient areas where total precipitation was less than half of the normal amount.



PERCENT OF NORMAL PRECIPITATION

DEC 1985 - MAR 1986

Based ON PRELIMINARY DATA

National Weather Data for Selected Cities

Weather Data for the Week Ending April 5, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar. 1	PCT. NORMAL SINCE Mar. 1	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
AL BIRMINGHAM	84	48	86	45	66	7	T	-1.4	T	2.5	32	5.4	31	87	24	0	0	0	0
MOBILE	81	54	82	50	68	3	0	-1.4	0	4.5	61	11.4	67	99	35	0	0	0	0
MONTGOMERY	83	52	86	48	67	6	0	-1.2	0	9.3	137	16.5	106	92	29	0	0	0	0
AK ANCHORAGE	29	11	37	1	20	-10	.3	.1	.2	2.0	248	2.7	108	85	41	0	7	2	0
BARROW	-14	-24	-6	-38	-19	-9	T	-.1	T	.1	41	.4	67	77	64	0	7	0	0
FAIRBANKS	22	-9	30	-21	7	-13	.1	0	.1	.4	87	.7	50	78	30	0	7	1	0
JUNEAU	40	29	46	24	34	-1	1.1	.4	.4	7.1	187	17.4	154	96	60	0	5	5	0
KODIAK	38	24	43	17	31	-5	2.0	1.1	1.0	6.4	138	23.0	119	86	51	0	6	5	1
NOME	8	-12	13	-14	-2	-15	0	-.1	0	T	4	1.0	50	75	49	0	7	0	0
AZ PHOENIX	83	61	93	50	72	7	T	-.1	T	1.6	173	2.9	132	47	17	1	0	1	0
PRESCOTT	64	39	75	33	52	5	.3	0	.3	2.0	116	3.1	63	70	28	0	0	1	0
TUCSON	82	52	90	41	67	6	0	-.1	0	1.3	172	3.4	155	48	15	1	0	0	0
YUMA	83	60	91	50	72	4	0	-.1	0	.2	70	.5	56	51	21	1	0	0	0
AR FORT SMITH	77	55	85	50	66	9	2.1	1.2	1.0	3.9	86	7.6	85	96	54	0	0	4	2
LITTLE ROCK	77	59	82	57	68	10	3.1	2.0	1.8	6.2	108	9.8	74	74	47	0	0	3	2
CA BAKERSFIELD	70	48	76	38	59	-1	T	-.2	T	2.1	208	4.0	129	86	42	0	0	1	0
EUREKA	57	45	64	42	51	2	.1	-.8	.1	6.2	110	23.4	131	82	63	0	0	1	0
FRESNO	71	50	77	42	61	4	.2	-.2	.2	3.6	194	9.4	162	85	44	0	0	1	0
LOS ANGELES	66	54	69	50	60	2	.1	-.2	.1	5.0	254	12.7	169	94	59	0	0	1	0
RED BLUFF	72	47	80	40	60	4	T	-.4	T	5.0	186	18.5	176	86	32	0	0	1	0
SACREMENTO	68	47	73	40	57	2	.1	-.3	.1	3.3	142	15.5	168	91	48	0	0	1	0
SAN DIEGO	66	56	68	52	61	1	T	-.3	T	3.1	172	6.4	121	85	57	0	0	1	0
SAN FRANCISCO	62	49	67	45	56	2	T	-.5	T	5.9	196	18.1	166	90	61	0	0	1	0
CO DENVER	58	33	79	16	46	3	1.3	.9	1.0	1.7	118	2.6	96	74	35	0	4	3	1
GRAND JUNCTION	61	41	75	32	51	4	.4	.3	.3	.7	73	1.1	52	80	36	0	1	4	0
PUEBLO	66	35	83	24	51	5	.4	.2	.4	.8	94	1.2	86	81	30	0	2	3	0
CT BRIDGEPORT	61	43	73	40	52	8	.1	-.8	.1	2.4	54	8.4	79	75	39	0	0	1	0
HARTFORD	66	39	78	34	53	9	T	-1.0	T	2.8	57	11.1	96	83	27	0	0	1	0
DC WASHINGTON	74	51	84	48	62	10	.2	-.6	.2	.9	23	6.8	73	82	39	0	0	1	0
FL APALACHICOLA	77	55	82	51	66	2	0	-.8	0	2.2	48	11.5	97	96	49	0	0	0	0
DAYTONA BEACH	79	53	84	49	66	-1	0	-.6	0	1.9	55	10.2	115	99	45	0	0	0	0
JACKSONVILLE	82	50	88	46	66	1	0	-.8	0	5.5	129	14.4	133	98	34	0	0	0	0
KEY WEST	80	70	82	64	75	-1	T	-.3	T	1.0	66	4.3	83	82	54	0	0	0	0
MIAMI	79	62	80	58	70	-4	2.7	2.2	2.6	10.7	474	17.5	273	88	50	0	0	2	1
ORLANDO	81	58	85	55	70	0	0	-.6	0	2.6	73	11.6	136	96	36	0	0	0	0
TALLAHASSEE	84	47	87	44	66	1	0	-1.1	0	2.5	40	14.8	93	98	25	0	0	0	0
TAMPA	82	59	85	54	71	1	0	-.5	0	4.3	111	8.0	89	92	34	0	0	0	0
WEST PALM BEACH	78	63	79	56	71	-2	.2	-.5	.2	5.5	174	13.4	158	87	50	0	0	1	0
GA ATLANTA	83	54	84	50	68	11	0	-1.2	0	4.2	62	7.5	47	66	23	0	0	0	0
AUGUSTA	85	47	88	41	66	7	0	-.9	0	3.2	58	7.2	53	94	24	0	0	0	0
MACON	86	50	88	42	68	6	0	-1.0	0	3.0	51	8.7	59	90	21	0	0	0	0
SAVANNAH	84	51	88	46	68	5	0	-.8	0	2.9	65	10.2	96	94	30	0	0	0	0
HI HILO	80	66	82	65	73	1	13.6	10.5	7.5	28.7	182	34.1	88	92	64	0	0	6	2
HONOLULU	85	71	86	70	78	3	.2	-.4	.2	.3	9	1.9	18	81	49	0	0	1	0
KAHULUI	82	67	83	63	74	0	T	-.4	T	3.9	122	6.2	58	87	56	0	0	0	0
LIHUE	79	71	80	70	75	2	.5	-.4	.4	2.5	49	3.7	25	86	70	0	0	2	0
ID BOISE	60	34	71	26	47	2	.3	0	.3	2.3	188	7.0	179	81	33	0	2	1	0
LEWISTON	59	39	65	32	49	2	T	-.2	T	.6	55	3.4	100	71	36	0	1	0	0
POCATELLO	56	27	72	10	41	1	.9	.7	.6	1.8	165	5.5	177	86	40	0	6	2	1
IL CHICAGO	70	43	83	31	56	13	.3	-.5	.2	1.8	56	4.8	79	88	34	0	1	4	0
MOLINE	73	45	83	34	59	15	.5	-.3	.2	1.8	54	4.7	75	90	35	0	0	3	0
PEORIA	75	48	84	39	62	17	.2	-.7	.1	1.0	30	3.0	46	90	36	0	0	2	0
QUINCY	75	51	81	38	63	16	.3	-.6	.1	1.1	29	3.3	50	85	34	0	0	3	0
ROCKFORD	69	44	84	33	57	15	.3	-.6	.2	1.3	39	4.4	76	88	40	0	0	3	0
SPRINGFIELD	76	50	83	41	63	16	.4	-.5	.2	1.8	47	3.6	51	85	34	0	0	3	0
IN EVANSVILLE	79	49	84	41	64	13	T	-1.0	T	2.7	50	9.6	85	92	39	0	0	1	0
FORT WAYNE	71	43	82	37	57	13	.6	-.2	.3	3.7	105	7.3	97	84	48	0	0	4	0
INDIANAPOLIS	75	47	83	36	61	14	.5	-.5	.3	4.4	103	8.1	86	83	41	0	0	3	0
SOUTH BEND	69	42	83	30	55	12	.3	-.6	.2	2.4	65	6.1	74	83	45	0	1	3	0
IA DES MOINES	68	48	82	41	58	14	2.7	2.0	.9	4.9	182	6.7	140	86	44	0	0	5	2
SIOUX CITY	65	43	84	35	54	11	1.6	1.2	.8	4.7	228	5.5	153	88	50	0	0	3	1
WATERLOO	65	43	82	34	54	14	1.0	.3	.4	2.6	96	5.4	117	90	45	0	0	5	0
KS CONCORDIA	71	46	82	38	58	11	1.3	.9	.7	2.9	133	4.2	117	88	47	0	0	3	2
DODGE CITY	69	42	84	34	56	7	.7	.3	.4	.9	51	1.3	48	89	36	0	0	2	0
GOODLAND	66	36	83	28	51	8	.4	.1	.3	1.1	93	1.6	84	86	33	0	3	2	0
TOPEKA	72	51	84	42	61	12	1.7	1.1	1.1	3.0	113	4.6	100	92	45	0	0	4	1
WICHITA	73	50	82	41	61	10	1.1	.6	.6	1.8	75	3.0	77	91	47	0	0	4	1
KY BOWLING GREEN	78	51	82	43	64	12	T	-1.1	T	3.7	58	8.5	57	85	34	0	0	1	0
LEXINGTON	78	53	83	47	66	15	T	-1.0	T	2.4	44	5.5	44	73	32	0	0	1	0
LOUISVILLE	78	52	84	45	65	13	.1	-1.0	.1	2.8	50	7.6	63	79	35	0	0	1	0
LA ALEXANDRIA	81	59	85	54	70	7	T	-1.2	T	1.8	29	5.1	31	91	48	0	0	1	0
BATON ROUGE	81	56	84	49	69	4	T	-1.2	T	2.7	50	7.9	53	92	40	0	0	0	0
LAKE CHARLES	78	58	81	48	68	3	0	-.8	0	1.9	53	5.6	48	99	56	0	0	0	0
NEW ORLEANS	78	54	80	47	66	1	0	-1.0	0	1.9	35	8.3	53	98	50	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

(Continued from front cover)

SATURDAY...Thunderstorms continued into the early morning from northeastern Texas into western Tennessee. Later, showers and thunderstorms developed from the Great Lakes States to the mid-Atlantic States and to southern New England. Rain fell in the upper Mississippi Valley and from central California through the southern coast of California.

Weather Data for the Week Ending April 5, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar. 1	PCT. NORMAL SINCE Mar. 1	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
SHREVEPORT	81	57	84	46	69	7	.1	-.9	.1	.9	20	4.8	40	96	45	0	0	1	0
ME CARIBOU	52	32	66	19	42	10	.1	-.5	0	2.4	83	8.4	115	68	29	0	4	2	0
PORTLAND	59	35	65	30	47	9	T	-.9	T	4.2	91	13.4	112	77	32	0	2	1	0
MD BALTIMORE	72	45	84	41	59	9	.2	-.6	.2	1.2	28	7.1	69	88	37	0	0	1	0
SALISBURY	72	44	81	38	58	8	.2	-.6	.2	.9	19	8.9	78	91	38	0	0	1	0
MA BOSTON	63	44	77	38	54	10	T	-.9	T	3.4	72	9.7	78	79	31	0	0	0	0
CHATHAM	56	40	66	34	48	7	0	-.9	0	3.1	66	8.7	66	--	--	0	0	0	0
MI ALPENA	55	32	67	26	44	9	.3	-.3	.1	2.6	110	4.6	87	94	39	0	3	3	0
DETROIT	64	41	81	35	52	10	1.0	.3	.5	3.3	107	8.0	121	85	36	0	0	3	0
FLINT	64	37	76	30	51	11	1.2	.6	.7	2.7	103	5.5	96	86	44	0	2	4	1
GRAND RAPIDS	64	39	78	32	52	11	.8	0	.3	3.2	104	7.5	115	83	43	0	1	4	0
HOUGHTON LAKE	58	36	67	28	47	11	.4	-.2	.2	2.6	113	5.4	106	78	37	0	3	3	0
LANSING	64	37	73	30	50	10	.6	-.1	.2	2.1	76	5.6	92	88	47	0	3	3	0
MARQUETTE	49	28	60	21	39	8	.2	-.5	.1	5.0	147	9.1	125	89	41	0	6	2	0
MUSKEGON	63	39	79	29	51	11	.7	-.1	.3	2.3	77	6.0	85	84	42	0	1	4	0
SAULT STE. MARIE	47	31	53	26	39	7	.4	-.1	.3	4.5	189	7.2	114	86	49	0	4	4	0
MN ALEXANDRIA	53	36	68	33	45	11	1.2	.8	.7	2.2	147	4.3	143	95	59	0	0	5	1
DULUTH	50	30	71	23	40	9	.2	-.3	.2	1.1	52	2.5	60	84	40	0	5	3	0
INT'L FALLS	51	33	59	24	42	11	.2	-.2	.1	.4	28	2.0	69	86	38	0	3	2	0
MINNEAPOLIS	59	41	82	36	50	11	1.1	.7	.4	2.8	140	4.5	122	87	51	0	0	5	0
ROCHESTER	58	39	78	32	49	11	1.2	.7	.5	2.9	136	4.1	117	93	53	0	1	5	1
MS GREENWOOD	82	56	86	49	69	9	0	-1.4	0	3.1	44	5.2	31	80	32	0	0	0	0
JACKSON	83	53	86	45	68	7	0	-1.4	0	3.3	49	5.6	34	89	31	0	0	0	0
MERIDIAN	83	50	87	42	66	5	0	-1.4	0	3.7	48	7.0	41	95	32	0	0	0	0
MO CAPE GIRARDEAU	79	54	84	50	67	--	2.2	1.1	1.1	4.0	70	7.8	67	85	38	0	0	2	2
COLUMBIA	75	51	82	45	63	14	1.3	.4	1.1	2.4	64	6.6	92	91	39	0	0	4	1
KANSAS CITY	72	52	82	43	62	13	1.0	.3	.4	2.2	77	3.5	67	91	45	0	0	4	0
SAINT LOUIS	78	56	86	47	67	17	.1	-.7	.1	1.3	34	6.1	79	75	31	0	0	2	0
SPRINGFIELD	70	54	79	50	62	11	1.4	.5	1.0	3.5	85	5.5	71	90	54	0	0	4	1
MT BILLINGS	57	33	77	30	45	6	T	-.3	T	1.0	79	3.1	103	76	31	0	4	1	0
GLASGOW	58	33	70	30	46	11	T	-.1	T	.3	60	1.2	92	84	33	0	4	1	0
GREAT FALLS	58	31	69	21	45	8	T	-.3	T	.1	8	1.4	48	72	24	0	5	1	0
HAVRE	58	31	65	21	44	8	T	-.2	T	.3	39	1.4	82	83	28	0	4	0	0
HELENA	59	27	70	21	43	6	T	-.2	T	.4	52	2.0	105	78	22	0	7	0	0
KALISPELL	55	30	60	23	43	5	.1	-.1	.1	.3	34	4.4	119	91	34	0	5	3	0
MILES CITY	60	35	79	28	47	8	T	-.2	T	.2	27	1.3	68	82	38	0	1	1	0
MISSOULA	56	29	62	24	42	3	.2	-.1	.1	.7	69	3.8	119	94	40	0	5	3	0
NE GRAND ISLAND	67	43	82	34	55	11	.5	0	.3	2.4	124	2.8	88	90	42	0	0	3	0
LINCOLN	70	46	84	39	58	13	1.2	.7	.6	3.8	162	4.4	110	90	44	0	0	4	1
NORFOLK	65	43	80	35	54	12	1.0	.6	.8	3.7	201	4.9	153	88	45	0	0	3	1
NORTH PLATTE	60	35	81	24	48	6	2.3	1.9	1.9	3.0	216	4.1	178	93	47	0	2	4	1
OMAHA	67	47	84	41	57	14	3.7	3.2	2.2	6.4	268	7.4	180	87	49	0	0	4	2
SCOTTSBLUFF	58	31	81	20	45	4	.7	.4	.6	1.5	126	3.5	175	82	42	0	5	3	1
VALENTINE	56	32	78	22	44	5	1.3	1.0	.7	3.1	290	3.8	200	82	48	0	3	3	2
NV ELY	56	30	64	25	43	6	.6	.3	.2	1.9	180	3.0	120	89	38	0	4	4	0
LAS VEGAS	78	54	87	46	66	6	T	-.1	T	.3	70	.7	50	42	17	0	0	0	0
RENO	63	34	73	24	48	5	.4	.3	.3	1.3	154	6.5	217	83	26	0	3	3	0
WINNEMUCCA	63	29	74	16	46	5	T	-.1	T	.4	52	1.6	70	77	20	0	3	1	0
NH CONCORD	64	33	80	24	49	10	.1	-.7	.1	3.6	106	10.8	124	88	27	0	4	1	0
NJ ATLANTIC CITY	66	39	79	32	52	6	.2	-.7	.2	2.0	44	9.3	82	91	40	0	2	2	0
NM ALBUQUERQUE	66	40	76	36	53	2	.3	.2	.3	.5	74	1.7	121	77	25	0	0	2	0
CLOVIS	72	42	83	33	57	5	T	-.1	T	.1	19	1.4	78	68	20	0	0	0	0
ROSWELL	78	46	88	40	62	4	0	-.1	0	.1	38	1.3	163	58	14	0	0	0	0
NY ALBANY	65	39	86	29	52	11	.2	-.5	.1	3.9	111	10.1	123	86	31	0	1	2	0
BINGHAMTON	62	40	81	34	51	12	.5	-.2	.4	3.5	103	9.6	116	78	34	0	0	3	0
BUFFALO	61	38	78	33	50	10	.5	-.2	.4	2.5	71	7.4	83	86	37	0	0	3	0
NEW YORK	64	48	73	41	56	9	.1	-.8	.1	2.0	43	9.2	84	78	34	0	0	2	0
ROCHESTER	62	38	85	33	50	10	1.1	.5	1.0	3.0	102	7.1	93	83	39	0	0	2	1
SYRACUSE	65	37	87	29	51	10	.9	.2	.6	3.7	102	8.4	94	88	33	0	1	5	1
NC ASHEVILLE	78	42	80	35	60	8	0	-1.0	0	2.8	47	5.7	44	87	25	0	0	0	0
CHARLOTTE	84	55	86	46	70	14	0	-.9	0	3.0	55	5.0	38	77	22	0	0	0	0
GREENSBORO	82	52	86	44	67	13	T	-.8	T	2.1	47	4.4	39	75	27	0	0	0	0
HATTERAS	75	53	79	44	64	8	0	-.8	0	1.2	27	8.4	63	98	46	0	0	0	0
NEW BERN	82	51	87	42	66	8	T	-.7	T	4.2	101	9.2	76	95	31	0	0	1	0
RALEIGH	83	53	88	46	68	12	0	-.7	0	3.1	73	6.6	59	77	26	0	0	0	0
WILMINGTON	82	52	87	42	67	8	.2	-.6	.2	4.3	94	8.9	76	93	35	0	0	1	0
ND BISMARCK	54	33	70	24	44	9	1.1	.8	.5	1.3	146	1.9	100	88	46	0	3	4	1
FARGO	53	35	64	30	44	10	.7	.3	.3	.8	69	1.9	90	93	57	0	1	5	0
GRAND FORKS	54	33	60	29	43	11	.1	-.2	.1	.1	14	1.1	50	94	45	0	4	2	0
WILLISTON	58	34	74	26	46	12	.1	-.1	.1	.9	126	1.9	106	92	36	0	1	2	0
OH AKRON-CANTON	74	44	81	35	59	15	.2	-.6	.1	2.2	56	6.7	77	82	34	0	0	2	0
CINCINNATI	77	50	84	42	63	15	.2	-.7	.2	3.3	71	7.1	69	80	32	0	0	2	0
CLEVELAND	67	41	82	34	54	11	.3	-.5	.1	2.7	77	8.0	98	88	44	0	0	3	0
COLUMBUS	76	49	82	42	63	16	.1	-.7	0	2.7	71	7.2	83	80	33	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending April 5, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar. 1	PCT. NORMAL SINCE Mar. 1	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
DAYTON	75	48	82	37	62	15	.2	-.5	.2	4.3	117	9.6	116	79	34	0	0	2	0
TOLEDO	66	40	80	34	53	10	1.0	.3	.4	3.1	99	6.6	96	90	46	0	0	3	0
YOUNGSTOWN	72	42	82	31	57	15	.2	-.7	.1	1.6	40	4.6	52	84	34	0	1	2	0
OK OKLAHOMA CITY	73	54	82	48	63	8	2.2	1.7	1.3	3.9	162	4.6	98	91	56	0	0	2	2
TULSA	74	56	81	49	65	9	2.4	1.5	1.2	4.5	118	5.7	83	94	56	0	0	4	2
OR ASTORIA	55	38	60	31	47	1	.5	-.9	.2	6.4	78	27.1	99	95	57	0	1	3	0
BURNS	56	28	65	18	42	2	0	-.1	0	1.3	266	6.2	443	--	--	0	6	0	0
MEDFORD	63	36	73	30	50	2	T	-.3	T	1.0	50	8.3	109	89	38	0	2	1	0
PENDLETON	56	38	61	33	47	0	.1	-.1	.1	1.2	96	5.4	132	80	40	0	0	2	0
PORTLAND	59	40	64	34	49	1	.8	.1	.4	3.0	72	12.9	91	94	46	0	0	3	0
SALEM	59	37	63	31	48	1	.4	-.4	.3	3.0	62	17.5	107	95	45	0	2	2	0
PA ALLENTOWN	68	42	83	38	55	10	.3	-.7	.2	2.3	51	10.9	100	81	32	0	0	2	0
ERIE	63	39	79	35	51	11	.3	-.5	.2	2.4	68	7.4	91	83	44	0	0	3	0
HARRISBURG	68	44	83	38	56	9	.3	-.5	.2	3.4	83	10.1	104	77	37	0	0	3	0
PHILADELPHIA	71	44	82	39	58	10	.2	-.7	.2	1.5	32	9.0	86	83	29	0	0	1	0
PITTSBURGH	76	49	83	40	63	17	.3	-.5	.3	1.7	41	7.6	81	65	25	0	0	2	0
SCRANTON	65	44	82	36	55	12	.5	-.1	.3	4.8	153	10.0	133	72	30	0	0	2	0
RI PROVIDENCE	63	40	73	33	52	8	T	-.9	T	2.9	58	11.9	93	87	32	0	0	1	0
SC CHARLESTON	84	53	89	45	68	7	T	-.7	T	2.7	55	8.8	76	98	30	0	0	1	0
COLUMBIA	86	49	88	39	68	8	T	-1.0	T	3.2	55	5.7	40	86	19	0	0	0	0
FLORENCE	86	51	89	42	68	8	T	-.8	T	3.4	71	5.6	48	87	29	0	0	0	0
GREENVILLE	83	51	86	43	67	11	0	-1.2	0	2.6	39	5.2	34	79	23	0	0	0	0
SD ABERDEEN	54	38	66	30	46	9	1.8	1.5	.8	2.3	186	3.4	142	94	60	0	1	5	1
HURON	56	37	69	27	47	8	1.6	1.2	.9	3.0	203	3.9	144	95	59	0	1	5	1
RAPID CITY	54	33	80	25	44	5	1.4	1.0	.6	2.2	174	3.7	161	85	52	0	4	4	1
SIOUX FALLS	60	38	79	29	49	10	1.6	1.1	.9	3.1	159	3.8	112	92	54	0	1	4	1
TN CHATTANOOGA	83	47	84	42	65	9	0	-1.3	0	1.4	20	6.1	36	95	26	0	0	0	0
KNOXVILLE	83	43	84	37	63	8	0	-1.1	0	1.7	27	6.6	44	92	24	0	0	0	0
MEMPHIS	82	59	85	54	70	12	2.0	.7	1.8	3.9	61	6.9	45	78	36	0	0	2	1
NASHVILLE	81	53	83	44	67	12	T	-1.2	T	2.3	36	6.1	41	75	28	0	0	1	0
TX ABILENE	80	55	86	44	68	7	T	-.4	T	5	39	2.1	64	87	37	0	0	1	0
AMARILLO	74	41	85	30	58	6	0	-.2	0	.6	57	1.6	80	75	19	0	1	0	0
AUSTIN	81	64	85	58	73	7	.1	-.5	0	.5	22	2.1	34	95	50	0	0	2	0
BEAUMONT	80	62	81	51	71	5	0	-.8	0	2.5	72	5.4	47	96	60	0	0	0	0
BROWNSVILLE	82	67	83	62	75	2	0	-.2	0	T	0	1.3	37	92	58	0	0	0	0
CORPUS CHRISTI	80	65	84	58	73	3	T	-.3	T	.2	19	3.0	70	95	61	0	0	1	0
DEL RIO	83	63	86	59	73	5	.6	.3	.6	.6	71	2.5	109	80	40	0	0	1	1
EL PASO	77	46	83	38	61	2	0	-.1	0	.4	105	.8	67	49	15	0	0	0	0
FORT WORTH	78	63	80	57	71	9	2.1	1.4	1.2	3.2	110	5.7	88	94	55	0	0	2	2
GALVESTON	74	66	76	62	70	4	T	-.5	T	1.3	52	3.7	47	93	74	0	0	0	0
HOUSTON	81	64	85	55	73	7	T	-.8	T	1.4	44	4.9	51	87	52	0	0	1	0
LUBBOCK	80	47	89	36	63	7	T	-.2	T	.4	37	1.3	65	69	15	0	0	0	0
MIDLAND	82	49	91	38	65	5	T	-.1	T	T	5	.4	25	85	22	1	0	0	0
SAN ANGELO	82	55	89	43	69	6	.1	-.2	.1	.6	59	1.5	60	88	32	0	0	1	0
SAN ANTONIO	80	65	84	58	73	6	.2	-.2	.2	.6	36	3.9	76	89	49	0	0	2	0
VICTORIA	81	64	83	57	72	5	T	-.4	T	1.0	63	2.7	47	96	54	0	0	0	0
WACO	82	63	87	57	73	10	.1	-.6	.1	.5	21	5.1	82	93	51	0	0	2	0
WICHITA FALLS	77	54	84	44	65	6	1.5	.9	1.1	2.3	103	3.4	81	87	47	0	0	2	1
UT BLANDING	53	35	67	24	44	1	1.5	1.3	1.0	2.3	241	3.9	122	93	56	0	3	3	2
CEDAR CITY	58	35	69	29	47	4	.9	.6	.8	2.0	159	2.7	100	97	48	0	3	2	1
SALT LAKE CITY	58	39	72	33	48	3	2.0	1.5	1.6	4.3	205	6.4	133	82	43	0	0	4	1
VT BURLINGTON	60	35	76	24	48	11	T	-.6	T	3.1	119	8.5	137	84	30	0	3	1	0
VA NORFOLK	73	50	81	48	61	7	T	-.7	T	.7	17	5.9	52	92	45	0	0	0	0
RICHMOND	80	50	89	47	65	12	T	-.7	T	1.1	28	6.5	63	76	34	0	0	0	0
ROANOKE	81	51	87	48	66	14	.4	-.4	.2	1.8	42	5.5	53	75	29	0	0	3	0
WA COLVILLE	56	31	61	15	43	1	.4	.2	.2	1.8	130	7.1	142	93	55	0	2	2	0
QUILLAYUTE	54	37	57	30	46	2	.3	-1.7	.1	13.0	102	41.8	105	98	58	0	1	5	0
SEATTLE-TACOMA	55	42	58	39	49	2	.3	-.3	.3	2.8	68	15.7	110	86	50	0	0	3	0
SPOKANE	53	33	57	27	43	1	.1	-.2	0	1.6	101	6.7	120	90	40	0	3	2	0
YAKIMA	61	32	64	25	46	1	0	-.1	0	.5	72	3.6	124	82	27	0	4	0	0
WV BECKLEY	76	52	79	47	64	17	T	-.9	T	2.1	43	6.2	54	63	25	0	0	0	0
CHARLESTON	81	51	85	43	66	15	T	-.9	T	1.9	41	8.3	74	70	23	0	0	1	0
HUNTINGTON	81	53	85	46	67	16	T	-.9	T	1.6	33	6.5	60	65	26	0	0	0	0
PARKERSBURG	80	53	84	43	67	18	.1	-.7	.1	2.3	50	7.4	65	70	24	0	0	2	0
WI GREEN BAY	58	39	77	30	49	11	1.0	.5	.6	3.5	153	4.9	109	84	42	0	1	4	1
LA CROSSE	62	43	83	32	52	12	.9	.2	.5	2.8	114	4.1	98	82	40	0	1	4	1
MADISON	64	40	81	29	52	13	.8	.2	.4	2.4	92	6.1	130	91	44	0	1	4	0
MILWAUKEE	62	40	82	34	51	12	.5	-.3	.2	2.3	73	7.1	116	85	42	0	0	4	0
WAUSAU	56	38	79	28	47	11	1.1	.5	.7	3.0	131	4.4	105	85	46	0	1	4	1
WY CASPER	52	29	73	17	41	4	.5	.2	.3	1.0	84	2.2	96	87	48	0	5	4	0
CHEYENNE	53	30	73	23	41	4	.5	.2	.4	1.0	86	1.6	84	80	38	0	5	2	0
LANDER	56	33	70	27	44	7	.3	-.1	.3	.8	55	2.1	84	76	34	0	4	2	0
SHERIDAN	56	30	75	19	43	6	.2	-.2	.1	1.3	95	3.0	107	90	40	0	5	2	0
PR SAN JUAN	85	72	89	70	78	0	2.0	1.3	1.6	3.6	130	6.9	90	95	59	0	0	3	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Heating Degree Day Data Weekly Summary

HEATING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 4- 5-1986
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM NORM PRCT	CUM DEV FROM L YR PRCT
AL BIRMINGHAM	BHM	1	-48	-48	2447	-303	-147	-11	-6
AL MOBILE	MOB	0	-21	-25	1503	-164	-127	-10	-8
AL MONTGOMERY	MGM	1	-31	-26	1968	-249	98	-11	5
AK ANCHORAGE	ANC	313	66	-23	8589	-615	185	-7	2
AK BARROW	BRW	583	60	28	15854	-503	107	-3	1
AK FAIRBANKS	FAI	406	92	-27	12014	-717	238	-6	2
AK JUNEAU	JNU	213	3	17	7194	-339	126	-5	2
AK KODIAK	ADQ	237	32	-10	6866	-171	629	-2	10
AK NOME	OME	465	89	-35	10690	-1039	-351	-9	-3
AZ FLAGSTAFF	FLG	158	-30	2	5447	-576	-654	-10	-11
AZ PHOENIX	PHX	2	-23	-11	756	-651	-366	-46	-33
AZ PRESCOTT	PRC	92	-40	-2	3495	-765	-685	-18	-16
AZ TUCSON	TUS	11	-24	-20	1150	-514	-481	-31	-29
AZ WINSLOW	INW	89	-22	-4	3834	-581	-273	-13	-7
AZ YUMA	YUM	0	-14	-4	478	-478	-416	-50	-47
AR FORT SMITH	FSM	2	-59	-62	3007	-331	-247	-10	-8
AR LITTLE ROCK	LRI	0	-56	-46	2683	-366	-365	-12	-12
CA BAKERSFIELD	BFL	44	1	27	1962	-18	-357	-1	-15
CA EUREKA	EKA	94	-18	4	3104	-527	-199	-15	-6
CA FRESNO	FAT	32	-26	15	1858	-584	-535	-24	-22
CA LOS ANGELES	LAX	35	-13	9	891	-498	-451	-31	-34
CA RED BLUFF	RBL	40	-30	36	2247	-192	-286	-8	-11
CA SACRAMENTO	SAC	52	-16	35	2155	-329	-379	-13	-15
CA SAN DIEGO	SAN	25	-10	12	790	-280	-198	-26	-20
CA SAN FRANCISCO	SFO	63	-15	39	2093	-452	-334	-18	-14
CA STOCKTON	SCK	50	-13	25	2314	-139	-459	-6	-17
CO DENVER	DEN	134	-22	-4	5018	-251	-559	-5	-10
CO GRAND JUNCTION	GJT	96	-30	-36	4495	-707	-394	-14	-8
CO PUEBLO	PUB	98	-35	-19	4833	-118	-270	-2	-5
CT BRIDGEPORT	BDR	91	-56	-41	4819	-53	265	-1	6
CT HARTFORD	BDL	85	-65	-70	5480	-96	159	-2	3
DE WILMINGTON	ILG	52	-69	-50	4246	-311	78	-7	2
DC WASHINGTON	DCA	24	-67	-46	3678	-183	1	-5	0
FL APALACHICOLA	AQQ	2	-14	-20	1220	-168	-22	-12	-2
FL DAYTONA BEACH	DAB	1	-11	-12	824	-70	77	-8	10
FL FORT MEYER	FMY	0	0	-4	320	-120	3	-27	1
FL JACKSONVILLE	JAX	5	-11	-10	1251	-144	-30	-10	-2
FL KEY WEST	EYW	0	0	0	111	-5	52	-4	88
FL MIAMI	MIA	0	0	-2	237	39	3	20	1
FL ORLANDO	MCO	0	-2	-6	616	-42	-49	-6	-7
FL TALLAHASSEE	TLH	2	-20	-28	1581	-37	242	-2	18
FL TAMPA	TPA	0	-2	-5	627	-112	19	-15	3
FL WEST PALM BEACH	PBI	0	0	-10	303	40	-25	15	-8
GA ATLANTA	ATL	0	-53	-42	2380	-502	-216	-17	-8
GA AUGUSTA	AGS	4	-34	-21	2100	-385	-25	-15	-1
GA MACON	MCN	3	-28	-26	1994	-236	-93	-11	-4
GA SAVANNAH	SAV	3	-21	-13	1579	-316	-84	-17	-5
HI HILO-HAWAII	ITO	0	0	0	0	0	0	**	**
HI HONOLULU-OAHU	HNL	0	0	0	0	0	0	**	**
HI KAHULUI-MAUI	OGG	0	0	0	0	0	0	**	**
HI LIHUE-KAUAI	LIH	0	0	0	0	0	-1	**	**
ID BOISE	BOI	123	-18	4	5880	806	-414	16	-7
ID LEWISTON	LWS	113	-17	26	5189	411	-24	9	0
ID POCATELLO	PIH	165	-9	19	6613	456	-687	7	-9
IL CHICAGO	ORD	61	-91	-113	6082	269	-14	5	0
IL MOLINE	MLI	45	-102	-105	6066	102	227	2	4
IL PEORIA	PIA	31	-106	-108	5660	-53	176	-1	3
IL QUINCY	UIN	22	-105	-116	5317	-33	92	-1	2
IL ROCKFORD	RFD	58	-105	-118	6401	91	133	1	2
IL SPRINGFIELD	SPI	23	-100	-107	5139	-84	-4	-2	0
IN EVANSVILLE	EVV	10	-85	-68	4144	-277	-61	-6	-1
IN FORT WAYNE	FWA	57	-92	-73	5598	-112	345	-2	7
IN INDIANAPOLIS	IND	35	-90	-82	4979	-202	67	-4	1
IN SOUTH BEND	SBN	67	-86	-86	5705	-24	264	0	5
IA DES MOINES	DSM	51	-99	-129	6327	277	335	5	6
IA DUBUQUE	DBQ	71	-100	-105	7126	439	744	7	12
IA SIOUX CITY	SUX	77	-80	-105	6517	106	412	2	7
IA WATERLOO	ALO	78	-96	-112	7150	275	560	4	8
KS CONCORDIA	CNK	46	-78	-99	4959	-222	-359	-4	-7
KS DODGE CITY	DDC	65	-49	-63	4483	-186	-171	-4	-4
KS GOODLAND	GLD	97	-55	-52	5185	-273	-278	-5	-5
KS TOPEKA	TOP	28	-83	-96	4782	-171	-139	-3	-3
KS WICHITA	ICT	29	-68	-84	4250	-235	-227	-5	-5
KY BOWLING GREEN	BWG	6	-81	-61	3639	-413	-303	-10	-8
KY LEXINGTON	LEX	8	-95	-72	4015	-433	-276	-10	-6
KY LOUISVILLE	SDF	10	-82	-58	3832	-391	-193	-9	-5
LA ALEXANDRIA	AEX	0	-24	-23	1616	-314	-112	-16	-6
LA BATON ROUGE	BTR	1	-18	-24	1383	-270	-210	-16	-13
LA LAKE CHARLES	LCH	3	-16	-10	1369	-194	-157	-12	-10
LA NEW ORLEANS	MSY	7	-10	-10	1279	-197	-140	-13	-10
LA SHREVEPORT	SHV	1	-34	-34	1869	-345	-148	-16	-7
ME CARIBOU	CAR	162	-72	-87	8253	-88	121	-1	1
ME PORTLAND	PWM	125	-64	-65	6079	-404	-127	-6	-2
MD BALTIMORE	BWI	43	-67	-60	4120	-214	113	-5	3
MD SALISBURY	SBY	46	-60	-45	3723	-323	-114	-8	-3
MA BOSTON	BOS	77	-70	-79	4889	-76	-51	-2	-1
MA CHATHAM	CHH	120	-47	-36	4677	-351	-40	-7	-1
MI ALPENA	APN	147	-68	-72	7146	-118	147	-2	2
MI DETROIT	DTW	88	-73	-88	5826	-51	100	-1	2
MI FLINT	FNT	100	-77	-72	6268	-2	421	0	7
MI GRAND RAPIDS	GRR	91	-80	-97	6201	35	221	1	4
MI HOUGHTON LAKE	HTL	125	-82	-93	7115	-142	207	-2	3
MI LANSING	LAN	102	-68	-84	6357	137	122	2	2
MI MARQUETTE	MQT	182	-58	-77	8442	229	329	3	4
MI MUSKEGON	MKG	96	-81	-95	6048	-47	8	-1	0
MI SAULT ST MARIE	SSM	181	-52	-50	7986	14	89	0	1
MN ALEXANDRIA	AXN	142	-75	-49	8404	153	369	2	5
MN DULUTH	DLH	173	-62	-59	8988	358	733	4	9
MN INT'L FALLS	INL	161	-81	-70	9463	88	176	1	2
MN MINNEAPOLIS	MSP	104	-81	-84	7659	374	498	5	7
MN ROCHESTER	RST	113	-81	-94	7953	487	687	7	9
MN SAINT CLOUD	STC	128	-80	-67	8406	341	623	4	8
MS GREENWOOD	GWO	0	-41	-40	2235	-398	-246	-15	-10
MS JACKSON	JAN	1	-36	-39	2127	-201	-95	-9	-4
MS MERIDIAN	MEI	6	-31	-26	2185	-217	156	-9	8
MO CAPE GIRARDEAU	CGI	3	-82	-61	3713	-454	-357	-11	-9
MO COLUMBIA	COU	19	-91	-100	4635	-198	-188	-4	-4
MO KANSAS CITY	MCI	29	-82	-108	4992	72	-104	1	-2
MO SAINT LOUIS	STL	14	-86	-87	4218	-389	-221	-8	-5
MO SPRINGFIELD	SGF	19	-78	-81	4105	-222	-147	-5	-3
MT BILLINGS	BIL	137	-44	-2	6228	-72	-580	-1	-9
MT GLASGOW	GGW	133	-77	-41	8114	142	-36	2	0
MT GREAT FALLS	GTF	140	-56	6	6963	234	-343	3	-5
MT HAVRE	HVR	144	-59	-19	7611	-57	-549	-1	-7
MT HELENA	HLN	153	-43	13	7542	490	-113	7	-1
MT KALISPELL	FCA	154	-39	-15	7564	376	-334	5	-4
MT MILES CITY	MLS	122	-62	-33	6980	-84	-686	-1	-9
MT MISSOULA	MSO	156	-24	13	7157	402	227	6	3
NE GRAND ISLAND	GRI	67	-82	-86	5736	-225	-70	-4	-1
NE LINCOLN	LNK	53	-90	-113	5695	-206	-69	-3	-1
NE NORFOLK	OFK	73	-89	-92	6291	-148	246	-2	4
NE NORTH PLATTE	LBF	120	-43	-45	6222	14	-126	0	-2
NE OMAHA	ON4	56	-80	-113	6001	249	249	4	4
NE SCOTTSBLUFF	BFF	142	-26	-22	6246	304	86	5	1
NE VALENTINE	VTN	146	-34	-30	6755	159	225	2	3
NV ELY	ELY	151	-44	3	6022	-433	-806	-7	-12
NV LAS VEGAS	LAS	12	-34	-8	1729	-682	-803	-28	-32
NV RENO	RNO	115	-37	17	4581	-546	-580	-11	-11
NV WINNEMUCCA	WMC	132	-32	14	5355	-119	-822	-2	-13
NH CONCORD	CON	113	-70	-76	6341	-261	95	-4	2
NJ ATLANTIC CITY	ACY	86	-42	-26	4305	-260	119	-6	3
NM ALBUQUERQUE	ABQ	82	-16	-15	3536	-563	-725	-14	-17
NM CLOVIS	CVS	54	-37	-40	3463	-330	-475	-9	-12
NM ROSWELL	ROW	25	-31	-36	2691	-327	-587	-11	-18
NY ALBANY	ALB	96	-72	-60	6025	-177	344	-3	6
NY BINGHAMTON	BGM	95	-89	-81	6246	-213	346	-3	6
NY BUFFALO	BUF	105	-71	-67	5740	-256	-70	-4	-1
NY NEW YORK	LGA	62	-64	-56	4180	-280	121	-6	3
NY ROCHESTER	ROC	103	-70	-61	5872	-83	310	-1	6
NY SYRACUSE	SYR	99	-72	-74	5847	-176	-13	-3	0
NC ASHEVILLE	AVL	34	-59	-41	3662	-276	-166	-7	-4
NC CAPE HATTERAS	HAT	9	-57	-8	2066	-439	-166	-18	-7
NC CHARLOTTE	CLT	1	-61	-37	2801	-378	-191	-12	-6
NC GREENSBORO	GSO	2	-75	-45	3298	-341	-105	-9	-3
NC NEW BERN	EWN	5	-49	-16	2226	-509	-140	-19	-6
NC RALEIGH DURHAM	RDU	2	-67	-37	2941	-403	-212	-12	-7
NC WILMINGTON	ILM	5	-39	-13	1954	-441	3	-18	0
ND BISMARCK	BIS	147	-62	-53	8054	-66	-142	-1	-2
ND FARGO	FAR	143	-72	-64	8638	225	493	3	6
ND GRAND FORKS	GFK	150	-78	-66	9132	298	831	3	10
ND WILLISTON	ISN	130	-85	-79	8030	-222	-496	-3	-6
OH AKRON-CANTON	CAK	44	-107	-93	5337	-247	-104	-4	-2
OH CLEVELAND	CLE	76	-77	-64	5371	-142	-60	-3	-1
OH COLUMBUS	CMH	19	-110	-97	4768	-402	-276	-8	-5
OH CINCINNATI	CVG	18	-97	-81	4489	-334	-67	-7	-1
OH DAYTON	DAY	29	-101	-92	4949	-242	-263	-5	-5
OH TOLEDO	TOL	83	-75	-64	5675	-214	-68	-4	-1
OH YOUNGSTOWN	YNG	55	-104	-87	5459	-370	-135	-6	-2
OK OKLAHOMA CITY	OKC	19	-55	-57	3232	-328	-385	-9	-11
OK TULSA	TUL	8	-62	-67	3220	-351	-297	-10	-8
OR ASTORIA	AST	127	-7	17	4195	23	-291	1	-6
OR BURNS	4BW	158	-21	16	7053	1139	-194	19	-3
OR MEDFORD	MFR	106	-16	44	3819	-294	-287	-7	-7
OR PENDLETON	PDT	124	-2	42	5460	844	258	18	5
OR PORTLAND	PDX	109	-11	39	4043	86	51	2	1
OR SALEM	SLE	118	-11	31	4185	71	-239	2	-5
PA ALLENTOWN	ABE	67	-73	-67	5010	-254	257	-5	5
PA ERIE	ERI	95	-80	-55	5292	-593	-93	-10	-2
PA HARRISBURG	CXY	60	-65	-68	4666	-212	259	-4	6
PA PHILADELPHIA	PHL	51	-68	-64	4232	-308	-45	-7	-1
PA PITTSBURGH	PIT	24	-115	-105	4968	-402	-129	-7	-3
PA SCRANTON	AVP	74	-80	-82	5419	-272	216	-5	4
RI PROVIDENCE	PVD	93	-59	-49	4956	-276	-5	-5	0
SC CHARLESTON	CHS	3	-33	-10	1714	-382	-215	-18	-11
SC COLUMBIA	CAE	3	-41	-21	2296	-254	-140	-10	-6
SC FLORENCE	FLO	3	-40	-19	1953	-528	-508	-21	-21
SC GREENVILLE	GSP	3	-58	-40	2806	-280	-82	-9	-3
SD ABERDEEN	ABR	134	-61	-36	8102	361	600	5	8
SD HURON	HON	128	-57	-32	7747	408	839	6	12
SD RAPID CITY	RAP	148	-36	-13	6807	384	380	6	6
SD SIOUX FALLS	FSD	111	-68	-63	7570	415	821	6	12
TN CHATTANOOGA	CHA	3	-62	-52	2916	-479	-331	-14	-10
TN KNOXVILLE	TYS	14	-54	-51	3336	-125	-245	-4	-7
TN MEMPHIS	MEM	0	-56	-42	2672	-422	-178	-14	-6
TN NASHVILLE	BNA	2	-68	-52	3180	-383	-339	-11	-10
TX ABILENE	ABI	2	-42	-59	2241	-296	-521	-12	-19
TX AMARILLO	AMA	53	-38	-46	3771	-157	-219	-4	-5
TX AUSTIN	AUS	0	-22	-16	1330	-404	-341	-23	-20
TX BROWNSVILLE	BRO	0	-1	0	479	-130	-208	-21	-30
TX CORPUS CHRISTI	CRP	0	-7	-6	784	-184	-277	-19	-26
TX DEL RIO	DRT	0	-11	-14	1201	-301	-431	-20	-26
TX EL PASO	ELP	24	-19	-37	2422	-178	-335	-7	-12
TX FORT WORTH	DFW	0	-35	-36	2113	-139	-285	-6	-12
TX GALVESTON	GLS	0	-16	+11	957	-288	-363	-23	-28
TX HOUSTON	IAH	0	-18	-21	1164	-365	-326	-24	-22
TX LUBBOCK	LBB	24	-46	-54	2945	-406	-400	-12	-12
TX MIDLAND ODESSA	MAF	13	-29	-44	2333	-245	-531	-10	-19
TX BEAUMONT	BPT	0	-17	-4	1137	-330	-66	-22	-5
TX SAN ANGELO	SJT	1	-32	-55	1974	-284	-570	-13	-22
TX SAN ANTONIO	SAT	0	-18	-22	1291	-299	-327	-19	-20
TX VICTORIA	VCT	0	-13	-9	989	-275	-250	-22	-20
TX WACO	ACT	0	-32	-36	1824	-253	-311	-12	-15
TX WICHITA FALLS	SPS	10	-43	-51	2675	-239	-400	-8	-13
UT BLANDING	4BL	135	-18	-6	4826	-574	-519	-11	-10
UT CEDAR CITY	CDC	126	-27	-10	4841	-371	-472	-7	-9
UT SALT LAKE CITY	SLC	114	-25	8	4856	-297	-604	-6	-11
VT BURLINGTON	BTV	121	-77	-82	6782	-251	223	-4	3
VA LYNCHBURG	LYH	3	-88	-60	3696	-323	166	-8	5
VA NORFOLK	ORF	22	-55	-29	2909	-318	-122	-10	-4
VA RICHMOND	RIC	11	-71	-54	3341	-385	-120	-10	-3
VA ROANOKE	ROA	4	-87	-59	3666	-333	52	-8	1
WA COLVILLE	63S	152	-9	15	6368	163	-367	3	-5
WA QUILLAYUTE	UIL	133	-16	-3	4760	15	-243	0	-5
WA SEATTLE-TACOMA	SEA	114	-18	4	4200	-44	-274	-1	-6
WA SPOKANE	GEG	153	-10	26	6536	594	-71	10	-1
WA WALLA WALLA	ALW	115	4	56	5161	888	245	21	5
WA YAKIMA	YKM	131	-5	34	6112	816	171	15	3
WV BECKLEY	BKW	14	-112	-76	4531	-485	-105	-10	-2
WV CHARLESTON	CRW	6	-93	-53	3652	-676	-283	-16	-7
WV HUNTINGTON	HTS	5	-91	-64	3833	-475	-326	-11	-8
WV PARKERSBURG	PKB	10	-100	-82	4348	-203	47	-4	1
WI GREEN BAY	GRB	113	-81	-104	7368	143	454	2	7
WI LACROSSE	LSE	87	-88	-107	7233	354	374	5	5
WI MADISON	MSN	90	-90	-100	7069	205	429	3	6
WI MILWAUKEE	MKE	95	-85	-87	6359	-69	167	-1	3
WI WAUSAU	AUW	122	-81	-90	7795	151	533	2	7
WY CASPER	CPR	169	-27	-13	6529	-46	-632	-1	-9
WY CHEYENNE	CYS	163	-34	-35	6029	-189	-763	-3	-11
WY LANDER	LND	143	-50	-8	7123	273	161	4	2
WY SHERIDAN	SHR	154	-41	-11	6707	-77	-927	-1	-12

March Weather and Crop Summary

HIGHLIGHTS: The unusually dry weather in the East continued in March. March precipitation was also much less than normal in the southern Great Plains, part of the central Plains, and the central Rockies. One of the more serious dry areas was the western slopes of the Appalachains where the greatest incidence of brush fires seemed to occur. Rain was excessive in California except for the desert Southwest. Above-normal rain also fell in the western slopes of the Rockies and parts of the Great Basin. Although copious rain fell in the Northwest it was less than the normal amount. Snow was heavy in the western mountains early in the month but, as the month ended, rain was the dominant precipitation and snow fell only at the highest locations. Althought freezing temperatures damaged early blooming fruit in the South and Southeast early in the month and at midmonth, the average March temperature was well above normal in most of the Nation except Florida.

FIRST WEEK...Freezing temperatures reached to central Florida on Sunday. Later another cold outbreak pushed southward through the Plains to northern Texas, but the center of the cold air moved eastward. Strong winds accompanied snow through the Great Lakes region. Moderate to heavy snow also fell from the central Appalachains to New England. Another Pacific storm developed on the west coast and brought moderate to heavy rain to the entire coast. Warm weather in the West supported occasional moderate rain in parts of the central and northern Plateau and northern Rockies. Heavy snow was confined to the higher elevations. Showers and thunderstorms covered the gulf coast and Florida.

SECOND WEEK...Placific storms moving onto the west coast brought high wind and heavy rain to most of California and the west coast. The snow level in the Sierra-Nevada mountains dropped to as low as 2,000 feet. Light rain was widespread throughout the West all week. Another storm in the central Plains moved northeastward and triggered thunderstorms as far north as Wisconsin. A later storm caused showers and thunderstorms from Oklahoma and Arkansas to the upper Ohio Valley and eastward to the Carolinas, Georgia, and Florida. Tornadoes were frequent from the lower Mississippi Valley to the Ohio Valley and across the South. Heavy rain showers fell in much of the Northeast.

THIRD WEEK...A Pacific storm moved through the Southwest, regenerated in the central Plains, and moved rapidly northeastward. Very cold air moved over much of the Nation behind the storm. Rain fell from South Dakota and Nebraska into the lower Great Lakes followed by snow which covered South Dakota and northern Nebraska. Showers and thunderstorms occurred ahead of the cold air as it moved southward and eastward. Severe weather broke out from central Texas to Lake Erie, across the South, and into southern Virginia. Freezing temperatures reached to southwestern Texas, the lower Mississippi Valley, and through most of Georgia. Record-cold temperatures were in much of the Midwest, the Northeast, and the South.

FOURTH WEEK...Freezing temperatures reached southward and spread over all of Georgia and into the Florida Panhandle. Temperatures warmed rapidly in the East, but another cool spell moved from the Midwest through the Northeast after midweek. Temperatures were well above normal over all the Nation at week's end. Precipitation was scarce in most of the Nation. Light showers from Missouri to the Great Lakes moved eastward through New England. Showers fell almost daily along the east coast of Florida. Rain fell in the Northwest, and thunderstorms in the Southwest produced little rain but a lot of strong gusty winds.

In the last two days of the month the light rain tapered off in New England, continued in the Northwest, and receded to the southern part of Florida's east coast.

MARCH FIELDWORK

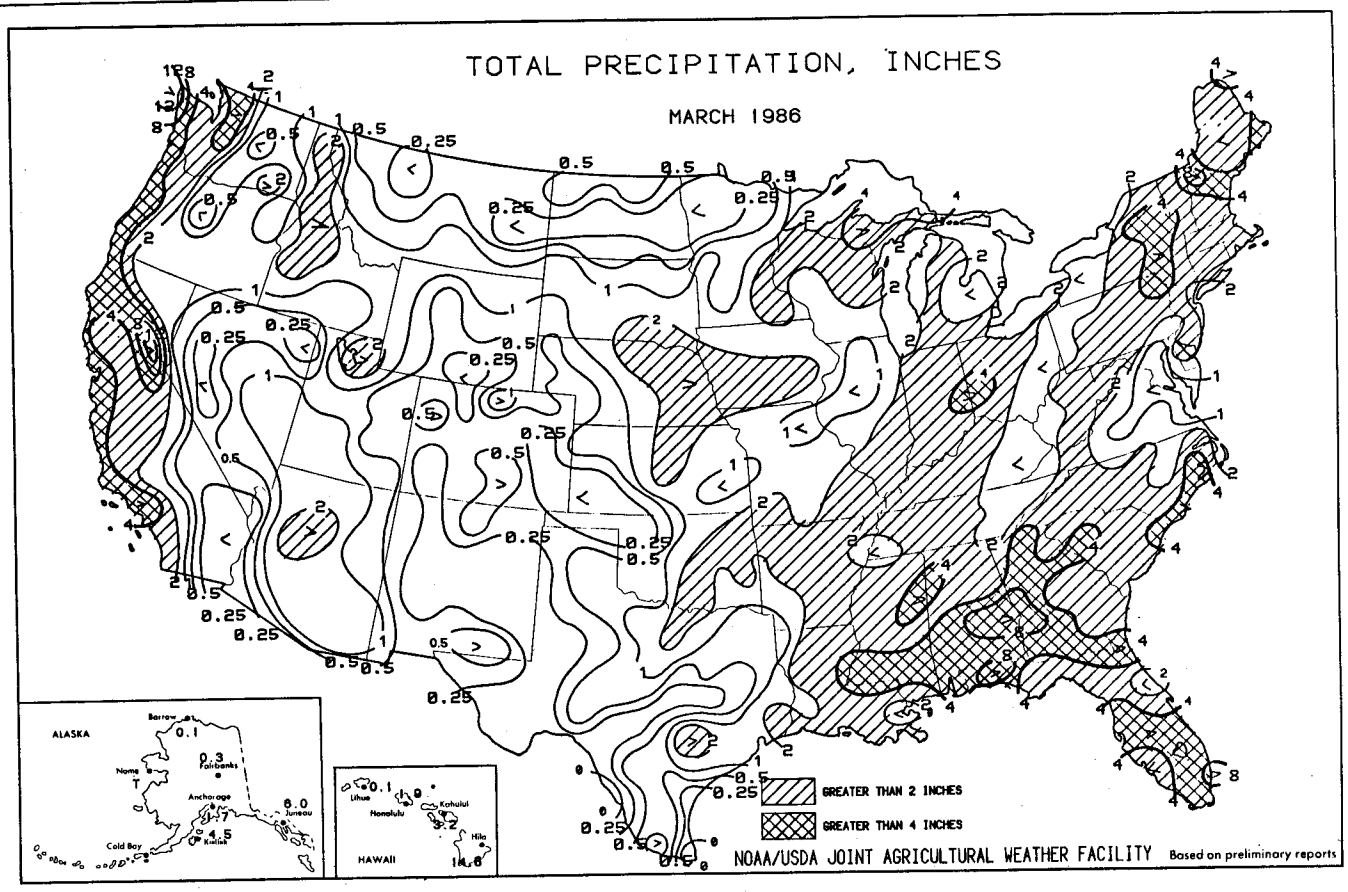
Warm and mostly dry weather advanced land preparation throughout the Southeast, the Delta, and central and southern Great Plains at the beginning and end of the month. Precipitation during the middle of the month slowed fieldwork across nearly all the eastern half of the Nation, especially in the Southeast. Early in the month, soil moisture was generally adequate except in the Southeast, and the Plains States from Texas to North Dakota. Warm weather promoted small grain growth across the Nation but the lack of moisture in the Plains States limited the growth. Pastures were in generally good condition and were beginning to green-up in the North by month's end.

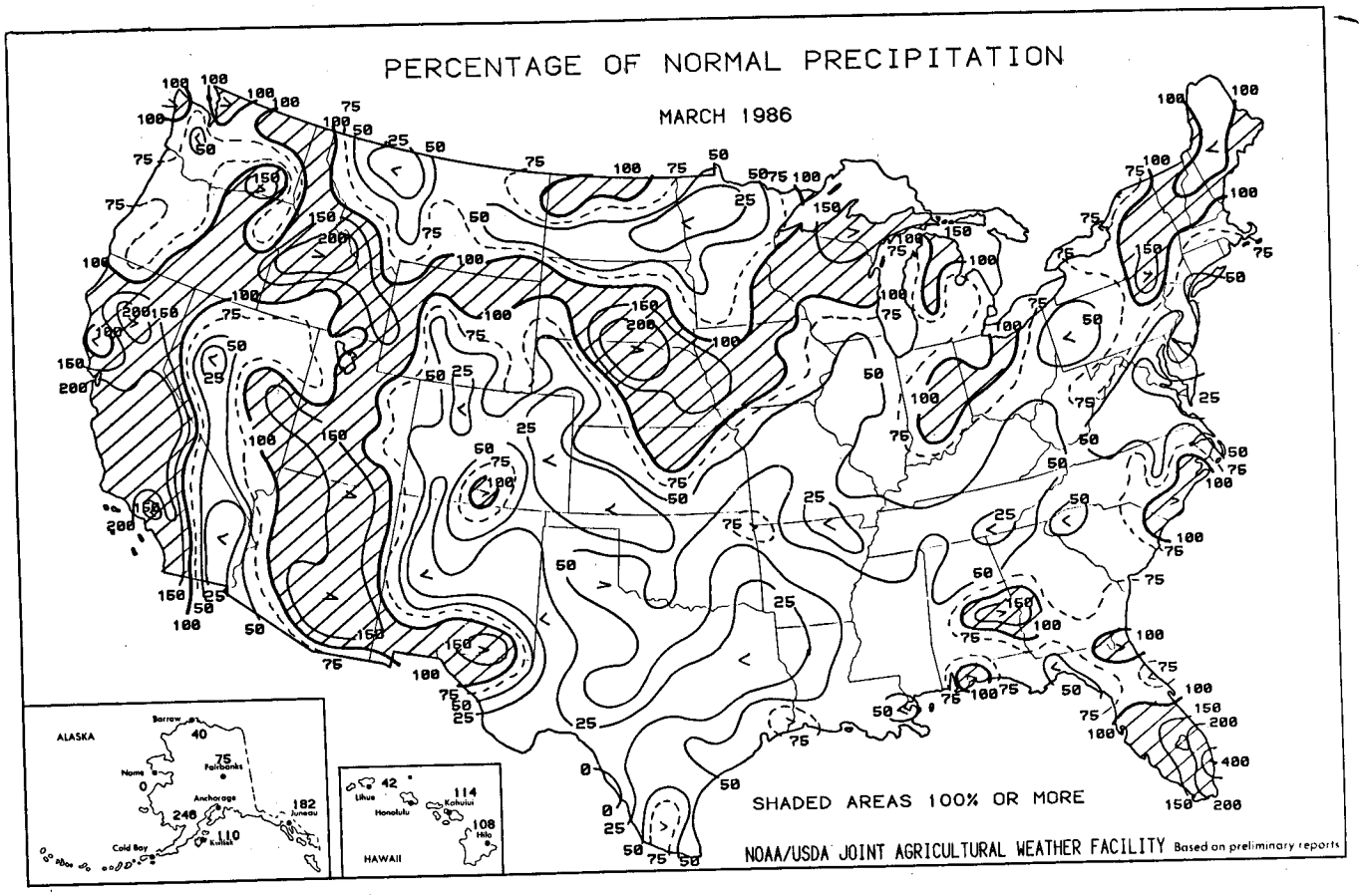
Corn planting was underway at the beginning of March from Texas to Georgia. By the end of the month, 12 States across the southern half of the Nation were planting corn. Most areas reported seedings ahead of normal as Texas, Louisiana, and Georgia were 70 percent (%), 69%, and 52% completed, respectively. Sorghum seeding had progressed as far north as Oklahoma and was as high as 61% planted in Texas. Some replanting was necessary in Texas because of dryness. Cotton seeding was underway in Arizona, California, and Texas. In Arizona, cotton planting was 35% complete, 5 points ahead of last year. Cotton seeding was completed on 9% of the acreage in Texas and in California 20% of the desert acreage was planted by the end of the month. Rice was 36% planted in Texas, well ahead of the 22 percent average. Rice planting was slightly ahead of normal in Louisiana and Mississippi. Tobacco transplanting advanced to 23% complete in Georgia by the end of the month. Seedbed preparation and seeding was active from Virginia to Kentucky. Transplanting and replanting was active in Florida. Vegetable planting and harvesting continued in the West and South. Frost and freezing temperatures hurt Florida's vegetable crop early in the month, but conditions improved by month's end.

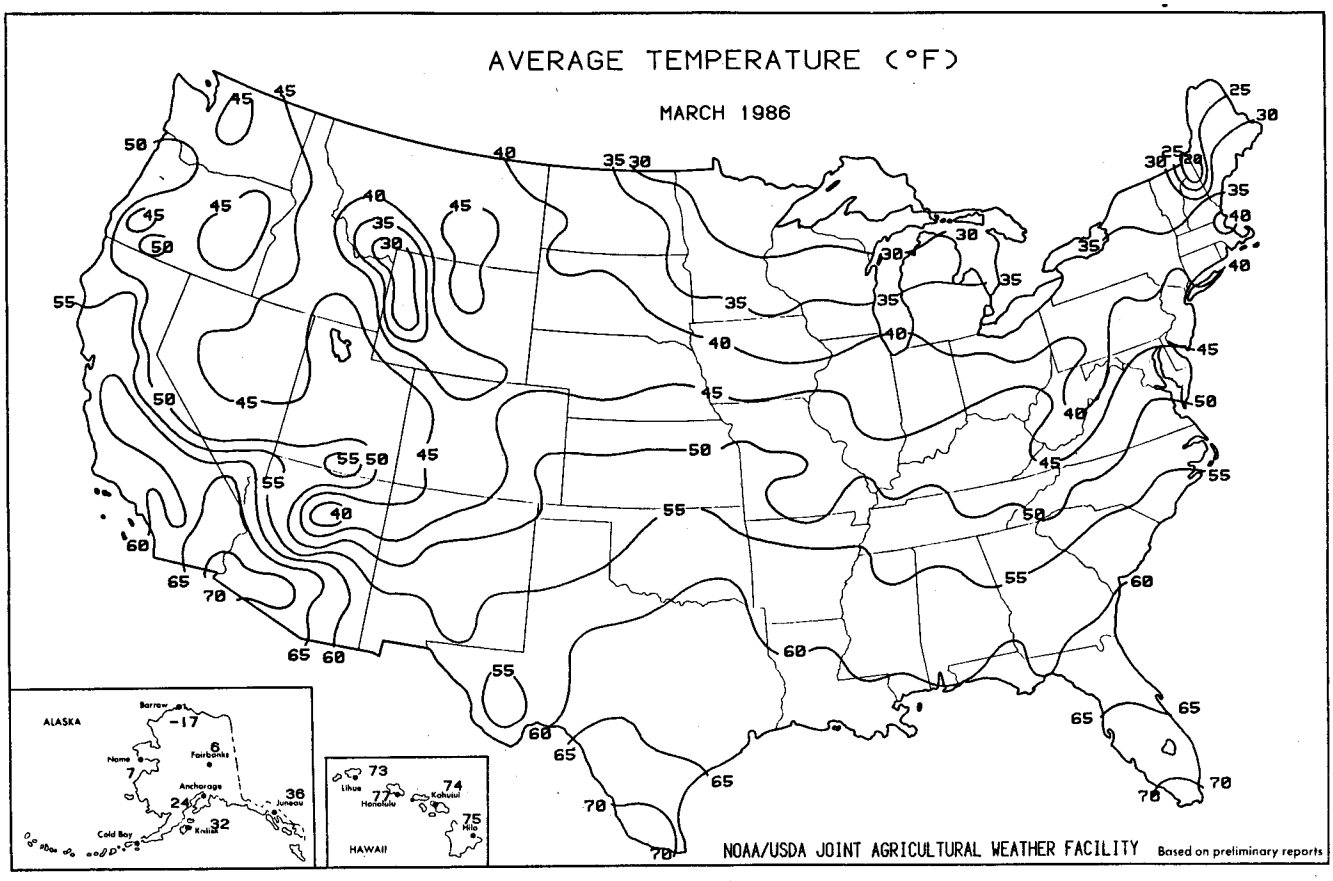
WINTER WHEAT

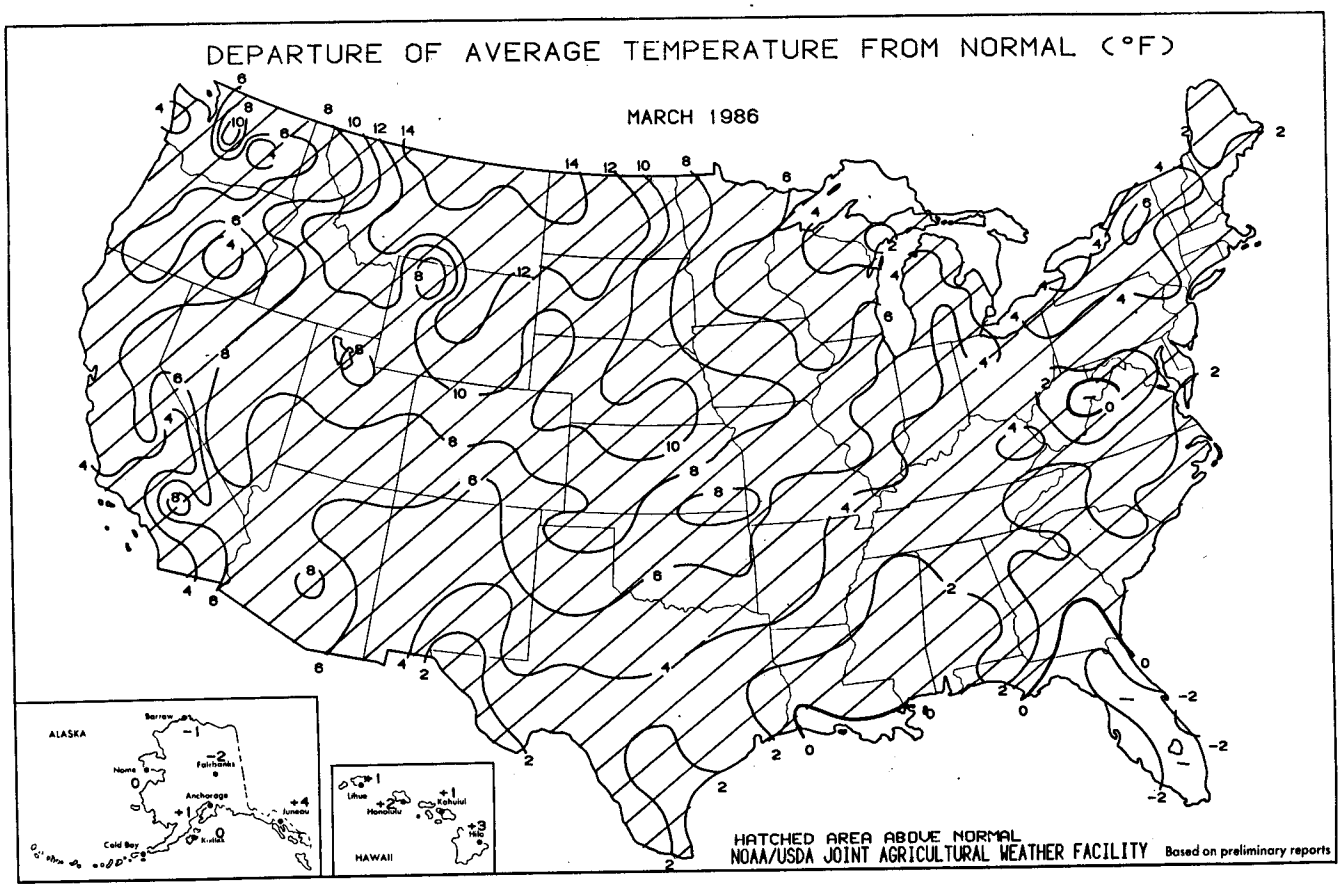
Winter wheat was in mostly good to fair condition by the end of March. Warm weather promoted growth across the Nation, but a lack of moisture in the Plains States limited plant growth. Wheat development ranged from greening in Minnesota to heading in the Southeast.

Kansas wheat grew well but wind and warm temperatures depleted soil moisture. Wind damage has been light to moderate but disease problems were beginning to increase. Nebraska's wheat was mostly good. Winterkill was light and disease problems were minimal except for a few reports of soil-borne mosaic in the southeastern part of the State. Texas wheat was good to fair as most of the wheat was reaching boot stage. Wheat fields from the Blacklands into central and south Texas were heading and need additional rainfall for good head development. In the South and Southeast, wheat development was ahead of normal in most areas and crop conditions were good.


TOTAL PRECIPITATION, INCHES
MARCH 1986
GREATER THAN 2 INCHES
GREATER THAN 4 INCHES
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


PERCENTAGE OF NORMAL PRECIPITATION
MARCH 1986
SHADED AREAS 100% OR MORE
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE TEMPERATURE (°F)
MARCH 1986
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
MARCH 1986
ALASKA
HAWAII
HATCHED AREA ABOVE NORMAL
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

Temperature and Precipitation Data for March 1986

States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
AL BIRMINGHAM	56	2	2.5	-4.2
MOBILE	60	0	4.5	-2.0
MONTGOMERY	58	1	9.3	3.3
AK ANCHORAGE	24	0	1.7	1.0
BARROW	-18	-2	0.1	-0.1
FAIRBANKS	6	-3	0.3	-0.1
JUNEAU	35	4	6.0	2.7
KODIAK	32	-1	4.5	0.4
NOME	6	-1	T	-0.5
AZ FLAGSTAFF	40	5	2.6	0.5
PHOENIX	69	9	1.6	0.7
PRESCOTT	50	7	1.7	0.2
TUCSON	64	6	1.3	0.6
WINSLOW	49	4	0.8	0.3
YUMA	71	7	0.1	-0.1
AR FORT SMITH	55	5	1.8	-2.1
LITTLE ROCK	56	4	3.1	-1.8
CA BAKERSFIELD	59	2	2.1	1.2
EUREKA	53	5	6.1	1.1
FRESNO	60	6	3.4	1.8
LOS ANGELES	59	2	4.9	3.1
RED BLUFF	58	5	5.0	2.6
SACREMENTO	59	6	3.2	1.1
SAN DIEGO	61	2	3.1	1.5
SAN FRANCISCO	57	4	5.8	3.2
CO DENVER	47	9	0.4	-0.8
GRAND JUNCTION	49	7	0.3	-0.5
PUEBLO	48	7	0.6	-0.1
CT BRIDGEPORT	40	1	2.3	-1.5
HARTFORD	39	2	2.7	-1.4
DC WASHINGTON	47	1	0.7	-2.7
FL APALACHICOLA	60	-1	2.2	-1.8
DAYTONA BEACH	63	-1	1.9	-1.1
FT. MYERS	69	-1	2.9	0.0
JACKSONVILLE	61	-1	5.5	1.8
KEY WEST	71	-3	0.9	-0.4
MIAMI	69	-3	10.6	8.7
ORLANDO	65	-1	2.6	-0.6
TALLAHASSEE	59	-2	2.5	-3.1
TAMPA	65	-1	4.3	0.8
WEST PALM BEACH	68	-2	5.5	2.8
GA ATLANTA	54	2	4.2	-1.7
AUGUSTA	56	1	3.2	-1.7
MACON	57	1	3.0	-2.2
SAVANNAH	59	1	2.9	-1.0
HI HILO	75	3	15.4	1.8
HONOLULU	77	2	0.2	-3.3
KAHULUI	74	1	3.9	0.9
LIHUE	73	1	2.0	-2.5
ID BOISE	48	7	2.0	1.0
LEWISTON	49	6	0.6	-0.4
POCATELLO	44	9	0.9	-0.1
IL CAIRO	51	3	2.5	-2.5
CHICAGO	40	4	1.5	-1.1
MOLINE	42	7	1.3	-1.4
PEORIA	43	6	0.9	-2.0
QUINCY	46	7	0.8	-2.3
ROCKFORD	40	6	0.9	-1.7
SPRINGFIELD	45	6	1.4	-1.7
IN EVANSVILLE	47	3	2.6	-1.9
FORT WAYNE	40	3	3.1	0.1
INDIANAPOLIS	44	4	3.9	0.3
SOUTH BEND	40	4	2.1	-1.0
IA DES MOINES	42	7	2.9	0.7
DUBUQUE	37	5	2.0	-0.9
SIOUX CITY	41	7	3.0	1.3
KS CONCORDIA	50	10	2.2	0.4
DODGE CITY	51	9	0.2	-1.3
GOODLAND	47	9	0.8	-0.3
TOPEKA	50	8	1.4	-0.8
WICHITA	52	8	1.2	-0.8
KY BOWLING GREEN	49	3	3.7	-1.9
JACKSON	49	8	1.6	-3.0
LEXINGTON	46	3	2.4	-2.4
LOUISVILLE	48	3	2.7	-2.0
PADUCAH	50	4	3.2	-1.8
LA ALEXANDRIA	61	1	1.8	-3.4
BATON ROUGE	61	0	2.7	-1.9
LAKE CHARLES	60	-1	1.9	-1.1
NEW ORLEANS	61	-1	1.9	-2.9
SHREVEPORT	60	3	0.8	-3.0
ME CARIBOU	24	0	2.3	-0.1
PORTLAND	35	3	4.2	0.2
MD BALTIMORE	45	2	1.0	-2.8
SALISBURY	46	2	0.7	-3.4
MA BOSTON	41	3	3.4	-0.7
CHATHAM	39	2	3.4	-0.6
MI ALPENA	30	3	2.3	0.4
DETROIT	37	2	2.3	-0.3
FLINT	36	4	1.4	-0.7
GRAND RAPIDS	37	3	2.4	-0.1
HOUGHTON LAKE	31	4	2.2	0.3
LANSING	36	3	1.6	-0.8
MARQUETTE	26	3	4.7	1.9
MUSKEGON	36	3	1.7	-0.9
SAULT STE. MARI	26	2	4.1	2.1
MN ALEXANDRIA	30	6	1.0	-0.2
DULUTH	29	6	0.9	-0.9
INT'L FALLS	28	7	0.3	-0.9
MINNEAPOLIS	34	5	2.0	0.3
ROCHESTER	33	5	2.2	0.4
ST. CLOUD	31	5	0.9	-0.5
MS GREENWOOD	57	2	3.1	-3.1
JACKSON	57	1	3.3	-2.5
MERIDIAN	56	1	3.7	-3.0
MO COLUMBIA	48	7	1.2	-2.0
KANSAS CITY	48	7	1.3	-1.1
SAINT LOUIS	49	6	1.2	-2.1
SPRINGFIELD	50	5	2.1	-1.4
MT BILLINGS	46	13	1.0	-0.1
GLASGOW	41	14	0.3	-0.1
GREAT FALLS	44	13	0.1	-0.8
HAVRE	42	14	0.3	-0.3
HELENA	43	11	0.4	-0.3
KALISPELL	40	8	0.3	-0.5
MILES CITY	44	13	0.2	-0.4
MISSOULA	42	8	0.5	-0.3
NE GRAND ISLAND	46	10	2.0	0.4
LINCOLN	46	10	2.9	0.9
NORFOLK	42	9	2.7	1.1
NORTH PLATTE	44	10	0.7	-0.4
OMAHA	44	9	3.0	1.0
SCOTTSBLUFF	44	9	0.8	-0.2
VALENTINE	42	10	2.0	1.2
NV ELKO	44	8	0.5	-0.4
ELY	41	8	1.5	0.6
LAS VEGAS	63	8	0.3	-0.1
RENO	48	7	0.9	0.1
WINNEMUCCA	46	7	0.4	-0.3
NH CONCORD	35	3	3.6	0.7
NJ ATLANTIC CITY	43	2	1.9	-2.2
NM ALBUQUERQUE	51	5	0.2	-0.4
CLOVIS	53	6	0.1	-0.5
ROSWELL	56	4	0.1	-0.2
NY ALBANY	37	3	3.7	0.7
BINGHAMTON	36	4	3.0	0.1
BUFFALO	36	3	2.0	-1.0
NEW YORK	44	3	1.9	-2.2
ROCHESTER	37	3	1.9	-0.6
SYRACUSE	37	4	2.8	-0.3
NC ASHEVILLE	46	-1	2.8	-2.4
CHARLOTTE	53	2	3.0	-1.8
GREENSBORO	50	2	2.1	-1.8
NEW BERN	54	1	4.2	0.5
RALEIGH	51	2	3.1	-0.6
WILMINGTON	56	2	4.1	0.1
ND BISMARCK	39	13	0.3	-0.5
FARGO	32	8	0.2	-0.7
GRAND FORKS	31	9	T	-0.7
WILLISTON	40	14	0.8	0.3
OH AKRON-CANTON	39	3	2.1	-1.3
CINCINNATI	45	3	3.1	-0.9
CLEVELAND	39	3	2.4	-0.6
COLUMBUS	42	2	2.6	-0.6
DAYTON	42	3	4.0	0.9
TOLEDO	39	4	2.2	-0.5
YOUNGSTOWN	39	3	1.4	-1.9
OK OKLAHOMA CITY	55	6	1.8	-0.3
TULSA	55	6	2.3	-0.8
OR ASTORIA	50	5	6.1	-1.2
BURNS	40	3	1.3	0.4
MEDFORD	52	6	1.0	-0.8
PENDLETON	49	5	1.1	0.1
PORTLAND	52	6	2.6	-1.0
SALEM	51	6	2.9	-1.4
PA ALLENTOWN	41	2	2.1	-1.8
ERIE	38	5	2.1	-0.8
HARRISBURG	43	2	3.2	-0.3
PHILADELPHIA	44	2	1.3	-2.6
PITTSBURGH	41	2	1.4	-2.2
SCRANTON	40	4	4.3	1.6
RI PROVIDENCE	40	2	2.9	-1.4
SC CHARLESTON	58	1	2.7	-1.7
COLUMBIA	55	0	3.2	-2.0
FLORENCE	58	3	3.4	-0.8
GREENVILLE	52	1	2.6	-3.2
SD ABERDEEN	36	8	0.6	-0.4
HURON	37	8	1.6	0.3
RAPID CITY	43	10	0.9	-0.1
SIOUX FALLS	37	6	1.5	-0.1
TN CHATTANOOGA	52	2	1.4	-4.9
KNOXVILLE	49	-1	1.7	-3.8
MEMPHIS	55	4	1.9	-3.5
NASHVILLE	51	2	2.3	-3.3
TX ABILENE	61	5	0.5	-0.6
AMARILLO	53	6	0.6	-0.3
AUSTIN	64	3	0.4	-1.3
BEAUMONT	63	1	2.5	-0.4
BROWNSVILLE	69	0	0.0	-0.5
CORPUS CHRISTI	66	0	0.1	-0.7
DEL RIO	66	3	T	-0.6
EL PASO	56	1	0.4	0.1
FORT WORTH	60	4	1.1	-1.3
GALVESTON	64	3	1.3	-0.8
HOUSTON	63	2	1.4	-1.3
LUBBOCK	57	6	0.4	-0.5
MIDLAND	59	4	T	-0.5
SAN ANGELO	61	3	0.5	-0.3
SAN ANTONIO	63	1	0.4	-1.0
VICTORIA	65	2	1.0	-0.3
WACO	61	3	0.4	-1.6
WICHITA FALLS	58	5	0.8	-1.0
UT BLANDING	45	6	0.8	0.0
CEDAR CITY	46	7	1.2	0.1
MILFORD	45	7	1.8	0.8
SALT LAKE CITY	48	7	2.3	0.6
VT BURLINGTON	33	4	3.1	0.9
VA NORFOLK	50	1	0.7	-3.1
RICHMOND	50	3	1.1	-2.4
ROANOKE	47	1	1.4	-2.3
WA COLVILLE	44	6	1.4	0.2
QUILLAYUTE	47	5	12.7	1.4
SEATTLE-TACOMA	49	5	2.7	-0.9
SPOKANE	43	6	1.6	0.2
WALLA WALLA	51	6	2.6	1.2
YAKIMA	46	4	0.5	-0.1
WV BECKLEY	42	1	2.1	-2.1
CHARLESTON	47	2	1.9	-2.1
HUNTINGTON	47	2	1.6	-2.5
WI GREEN BAY	33	4	2.5	0.6
LA CROSSE	36	5	1.9	-0.1
MADISON	36	5	1.6	-0.6
MILWAUKEE	38	6	1.8	-0.7
WAUSAU	32	5	2.0	0.1
WY CASPER	43	11	0.5	-0.5
CHEYENNE	42	10	0.5	-0.5
LANDER	44	12	0.5	-0.6
SHERIDAN	44	12	1.1	0.0
PR SAN JUAN	77	-1	1.6	-0.7

Based on 1951-80 normals.

Heating Degree Days (Base 65° F.)

March 1986

ALA. Birmingham	298
Mobile	188
Montgomery	238
ALASKA, Anchorage	1260
Barrow	2573
Fairbanks	1826
Nome	1814
ARIZ. Flagstaff	777
Phoenix	66
Tucson	117
Winslow	463
Yuma	30
ARK. Fort Smith	300
Little Rock	283
CALIF. Bakersfield	183
Eureka	365
Fresno	156
Los Angeles	182
Red Bluff	212
Stockton	224
San Diego	132
San Francisco	239
COLO. Denver	548
Grand Junction	489
Pueblo	523
CONN. Bridgeport	772
Hartford	809
D.C. Washington	542
FLA. Apalachicola	175
Ft. Myers	-
Jacksonville	184
Key West	33
Miami	54
Orlando	105
W. Palm Beach	67
Tallahassee	222
Tampa	105
GA. Atlanta	331
Augusta	287
Macon	253
Savannah	215
IDAHO, Boise	522
Lewiston	496
Pocatello	636
ILL. Cairo	448
Chicago	765
Moline	705
Peoria	683
Rockford	771
Springfield	618
IND. Evansville	538
Fort Wayne	769
Indianapolis	652
South Bend	760
IOWA, Des Moines	702
Dubuque	856
Souix City	737
KANS. Concordia	484
Dodge City	438
Goodland	577
Topeka	491
Wichita	416
KY. Lexington	561
Louisville	516
LA. Baton Rouge	169
Lake Charles	168
New Orleans	160
Shreveport	176

MAINE, Caribou	1255
Portland	935
MD. Baltimore	613
MASS. Boston	746
Chatham	807
MICH. Alpena	1075
Detroit	842
Flint	899
Grand Rapids	871
Houghton Lake	1048
Lansing	893
Marquette	1191
S. Ste. Marie	878
MINN. Duluth	1127
Internatl Falls	1152
Minneapolis	957
Rochester	994
St. Cloud	1061
MISS. Jackson	261
Meridian	274
MO. Columbia	521
Kansas City	528
St. Louis	506
Springfield	474
MONT. Billings	579
Glasgow	754
Great Falls	648
Havre	691
Helena	677
Kalispell	761
Miles City	645
Missoula	716
NEBR. Grand Island	587
Lincoln	602
Norfolk	692
North Platte	634
Omaha	662
Valentine	720
NEV. Ely	737
Las Vegas	123
Reno	523
Winnemucca	590
N.H. Concord	907
N.J. Atlantic City	674
N. MEX. Albuquerque	431
N.Y. Albany	859
Binghamton	897
Buffalo	885
New York	649
Rochester	864
Syracuse	856
N.C. Asheville	581
Charlotte	381
Greensboro	472
Hatteras	408
Raleigh	415
Wilmington	307
N. DAK. Bismarck	807
Fargo	1027
Williston	775
OHIO. Akron-Canton	783
Cinncinnati	613
Cleveland	785
Columbus	694
Dayton	699
Toledo	793
Youngstown	799

OKLA. Okla. City	308
Tulsa	322
OREG. Astoria	481
Burns	697
Medford	407
Pendleton	497
Portland	417
Salem	452
PA. Allentown	735
Erie	811
Harrisburg	664
Philadelphia	628
Pittsburgh	737
Scranton	777
R.I. Providence	772
S.C. Charleston	244
Columbia	319
Greenville	392
S. DAK. Aberdeen	897
Huron	855
Rapid City	672
Sioux Falls	865
TENN. Chattanooga	402
Knoxville	499
Memphis	307
Nashville	432
TEX. Abilene	162
Amarillo	379
Austin	87
Beaumont	120
Brownsville	25
Corpus Christi	44
Del Rio	41
El Paso	283
Fort Worth	164
Galveston	53
Houston	99
Lubbock	272
Midland	192
San Angelo	158
San Antonio	106
Victoria	67
Waco	151
Wichita Falls	226
UTAH, Milford	600
Salt Lake City	527
VT. Burlington	966
VA. Lynchburg	529
Norfolk	465
Richmond	465
Roanoke	551
WASH. Colville	643
Quillayute	-
Seattle-Tacoma	479
Spokane	680
Walla Walla	422
Yakima	595
W. VA. Beckley	696
Charleston	554
Huntington	550
WIS. Green Bay	1002
Madison	888
Milwaukee	827
WYO. Casper	678
Cheyenne	698
Lander	641
Sheridan	650

Based on 1951-80 normals.

National Agricultural Summary

March 31 to April 6, 1986

HIGHLIGHTS: Precipitation slowed fieldwork across the central and northern Great Plains but provided much needed moisture for small grain growth. The rain stretched into the Corn Belt but caused less interruptions. Soil moisture was generally short especially in the Southeast and in Texas. Moisture was mostly adequate to short in the Corn Belt and in the central and northern Plains. Farmers were able to work 6 days or more in most areas except the northern and central Plains which averaged 4 days or less.

Wheat and small grains were mostly fair to good. The lack of moisture plagued crop development in most areas. More moisture is needed with Texas showing the greatest need. Corn was rapidly planted across the southern half of the Nation. Seeding was ahead of normal in all States. Seeding progress are Louisiana, 83 percent (%); Texas, 72%; Georgia, 73%; South Carolina, 57%; Mississippi, 54%; and Arkansas, 50%. Seeding was just beginning in Kansas, Kentucky, and Alabama. Cotton planting was underway in 6 of the 14 major producing States. Seeding ranged from just beginning in Louisiana and Mississippi to more than half finished in Arizona. Rice seeding was ahead of normal in 4 of the 5 major producing States. Sorghum was restricted mostly to the South, but a few fields were seeded in Oklahoma. Pastures were fair to good. Additional moisture is needed in most areas. Livestock was good.

SMALL GRAINS: Small grains were mostly fair to good. The lack of moisture continued to plague small grains through the Delta and in the Southeast. More moisture is needed for growth and development to continue in the central and northern Plains. Development ranged from turning color in Louisiana to greening in Montana.

Winter wheat was poor to fair in Illinois. Damage from winterkill was significant. Wheat grew well in Kansas and began jointing ahead of schedule. More moisture is needed to maintain current growth rate. Grass and weed problems were widespread, but spray measures were generally effective. Nebraska's wheat was mostly good. Winterkill has been very light. There were isolated cases of wheat streak and soil borne mosaic disease in southwest and south central Nebraska. In North Dakota, winterkill was less than normal with wheat mostly good. Seventy percent of Oklahoma's wheat acreage was jointing, compared with 55% in 1984 and 45% normally. Wheat was heading in southwest and south central Oklahoma. Small grains lacked moisture for critical head development in Texas. Irrigated fields made good progress in the Plains, but dryland small grains showed the lack of moisture. Central and Blackland fields looked good, but yields are expected to be reduced.

Spring small grain seeding was underway across the northern half of the Nation. Seeding was just beginning in Pennsylvania but neared completion in Kansas.

OTHER CROPS: Corn planting advanced northward into Kansas. However, most of the planting was limited to the southern half of the Nation. Seeding was ahead of normal in virtually all States. Louisiana had 83% of its acreage seeded followed by Texas and Georgia which were 72 and 70% seeded, respectively. South Carolina's corn acreage was 57% seeded. Slightly more than half of the acreage was seeded in Mississippi while producers were 50% finished in Arkansas.

Sorghum seeding was 63% finished in Texas, 11 points ahead of normal. Planting increased in Louisiana and Arkansas outstripping the normal pace 10 and 9 points, respectively. Seeding was underway in Oklahoma and Mississippi. Sorghum plants were weak from insufficient moisture in Texas.

Cotton planting was more than half complete in Arizona and California. Progress was about normal in Georgia, Louisiana, and Mississippi with all three States just beginning.

Rice seeding advanced rapidly and was ahead of normal in 4 of 5 major producing States. Seeding at 62% finished nearly doubled normal in Texas. Thirty-nine percent of Louisiana acreage was seeded, 12 points ahead of schedule. Arkansas acreage was 11% seeded when normally producers would not have seeded rice by this time. Mississippi rice producers had seeded 16% of their acreage.

Georgia's tobacco was 49% transplanted and mostly fair to good. In Florida, transplanting and replanting continued. Seedbeds were actively prepared in most burley States.

FRUIT AND NUTS: In Florida, citrus producers irrigated to support new bloom and heavy flush new growth. Harvest was moderately active between midseason and late orange crops and with grapefruit past peak harvest.

Peaches bloomed across Texas. Fruit set was varied in the Hill Country. Spraying continued in most areas. Pecan trees leafed out in most areas and the first zinc was applied in the Low Plains. High winds delayed spraying in some areas.

California grape growers cultivated and sprayed. Olives were pruned and prunes split jackets. Valencia harvest was underway and lemon volume was good. In Arizona, orange and grapefruit harvests progressed well. Kinnow tangerines were picked. Perlette and Flame variety grapes were past full bloom. Thompson grapes and apples reached full bloom.

VEGETABLES: Ideal weather prevailed across Florida's vegetable producing areas. Dade County harvest was active with seasonal decline beginning. Vegetable supplies increased from the Pompano and southwest areas of the State. Spring crops made good progress in the central section. Volume of most crops were good, but cauliflower and strawberries began declining.

Carrots and cabbage were harvested in the Rio Grande Valley. Onion harvest increased with good yields. Most vegetables were harvested in the San Antonio-Winter Garden areas, however, some light movement remained. Inadequate moisture stressed some vegetables. Tomatoes damaged by frost were replanted in east Texas.

Spring lettuce harvest neared completion in Yuma, Arizona and was finished in the Parker-Poston area. Packing continued in Aquila-Harquahala, the Salt River Valley, and in Marana-Eloy. In California, strawberry picking was active along the south coast. Vegetable harvest consisted mostly of asparagus, broccoli, celery, lettuce, sweet corn, artichokes, and carrots.

PASTURES AND LIVESTOCK: Pastures were mostly fair to good. Moisture is needed especially in the Southeast. Livestock was mostly good. Lambing and calving continued with near ideal weather conditions.

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures averaged 5 to 10° above normal. No rainfall entire State.

Days suitable for fieldwork 6.6. Soil moisture 91% short, 9% adequate. Field progress on schedule. Wheat 2% poor, 50% fair, 48% good. Pastures 9% poor, 77% fair, 14% good . Livestock 64% fair, 34% good, 2% excellent. Feed supply 64% short, 36% adequate. Stored feed 23% short, 75% adequate, 2% surplus. Primary activities: Planting corn and vegetables, land preparation, fertilizer and lime application, machinery repair, care of livestock and poultry, general farm chores.

ARIZONA: Storm system 1st, 2nd with scattered thunderstorms, rain, snow, winds. Winds 30 to 40 mph south, 40 to 60 mph north 2nd. Snow level 6,500 ft.; 1 to 7 in. Grand Canyon, Mogollon Rim, White Mountains. Moisture traces or none extreme west, extreme south to 0.25 to 1.00 in. higher elevations. Warming trend prevailed remainder of week. Temperatures 60s high country, 60 to 70 5,000 ft., 80s lower deserts. Averages 1 to 8° above normal.

Cotton planting active; 55% seeded, 45% 1985. Land preparation, pre-irrigation advanced southeast. Alfalfa good to excellent. Haying took place. Market demand weak. Weevils, aphids moderate. Corn seedbed preparation, planting completed except southeast. Sorghum fieldwork gaining momentum. Safflower good. Wheat, barley progressing nicely. Most of crops jointing, 70% heading. Spring lettuce packing neared completion Yuma, finished Parker-Poston. Lettuce packed Aguila-Harquahala, Salt River Valley, Marana-Eloy. Mixed vegetables harvested Yuma, Salt River Valley. Spring potatoes making good progress. Dry onions good. Valencia orange, grapefruit harvest progressed. Kinnow tangerines picked. Perlette, Flame variety grapes past full bloom. Thompsons full bloom. Apples full bloom.

ARKANSAS: Rainfall broke dry-spell, brought temperatures down. Severe thunderstorm 5th, rainfall statewide. Temperature extremes 39°; 88°. Rainfall 0.02 in. to 7.04 in.

Days suitable for fieldwork 6.0. Soil moisture 64% short, 34% adequate, 2% surplus. Cotton planted 1%, none 1985, none avg. Rice planted 11%, none 1985, none avg. Wheat headed 5%. Sorghum planted 13%, 5% 1985, 4% avg. Corn planted 50%, 15% 1985, 4% avg. Pasture excellent. Ticks, flies problem.

CALIFORNIA: Above normal temperatures early week, lower temperatures with showers by week's end.

Fieldwork increased, fields dried. Burning rice stubble, preparing land for 1986 crop. Small grains headed early areas. Late areas preparing land for seeding. Aphid controls some San Joaquin Valley counties. Cutting small grains for green chop, hay, silage active. Cotton planting over half done. Seeding underway San Joaquin Valley. Alfalfa cutting for hay, green chop active. Overwintered sugarbeets harvested. Seeding safflower, corn, sugarbeets, dry beans active. Cultivation, spraying grapes. Coachella Valley, table, wine types progressing well. Olives pruned. Prunes split jackets, large crop expected. Hass, Bacon, Fuerte, Zutano avocados harvested. Good volume lemon harvest. Valencia harvest underway. Almond sets highly variable. Artichokes fairly heavy Salinas, variable quality. Asparagus harvest continued Firebaugh District, Delta, Los Angeles-Orange County good quality. Boysenberries in bloom Central Valley. Broccoli fairly heavy Salinas, moderate, Santa Maria variable quality. Carrot digging active Imperial Valley-Coachella Valley good quality, sizes, very heavy to medium. Cauliflower moderate Salinas, Santa Maria quality variable. Celery, sweet corn planting continued Los Angeles-Orange County. Sweet corn planted Delta. Lettuce heavy central San Joaquin, wide range in quality, weight, appearance. Salinas light, but increasing, Santa Maria fairly light, variable quality. Spring harvest continued Fresno, very good quality, prices. Light volumes Los Angeles-Orange County, Palo Verde Valley harvest virtually over. Melon desert progressed ahead of normal. Bees in fields for pollination. Melon planting underway Westside. Early peas showed good growth Santa Cruz-San Mateo Coast. Peas in bloom, setting pods Westside. Fall potato storage sheds continued to operate Tulelake-Butte Valley, fields prepared planting early varieties. Harvest White Rose, Red varieties Perris-Hemet continued, new crop being planted. Strawberry picking active south coast, good quality, prices. Fields Tehama County fumigated. Sweetpotato planting preparation progressed Merced-Atwater. Field fumigation continued Modesto-Turlock. Tomato plantings thinned Westside. Transplanted fresh market fields blossoming. Planting continued Modesto-Turlock, south coast. Supplemental feeding tapered off, warmer weather, longer days promoted good pasture growth. Feed continued mature, some areas. Feedlots starting dry out. Sheep being moved from alfalfa fields San Joaquin Valley.

COLORADO: Temperatures averaged 4 to 10° above normal. Precipitation totals averaged trace to 3.28 in.

Days suitable for fieldwork 3.8. Soil moisture 6% very short, 23% short, 52% adequate, 19% surplus. Winter wheat 3% very poor, 3% poor, 14% fair, 63% good, 17% excellent. Seedbed preparation, seeding of small grains active. Livestock good; range and pasture fair to good. Calving, lambing progress normal.

FLORIDA: Other than scattered showers, lower east coast 31st, 1st, warm, dry prevailed. Showers averaged 0.50 in. southeast coast with no rain elsewhere. Temperatures averaged 2 to 4° above normal Panhandle; less than 2° above elsewhere.

Soil moisture short north, central, Panhandle; adequate southern areas. Corn, tobacco planting, replanting continued. Land preparation spring crops active. Small grains maturing, head stage. North, central pastures poor to fair. Drying winds, mild temperatures limited growth; southern pastures good to excellent, moisture mostly adequate; additional rain needed all areas to maintain growth. Cattle fair, except good to excellent extreme south. Citrus groves good. No rain; most growers irrigated to support new bloom, heavy flush of new growth. Harvest only moderately active between midseason, late orange crops with grapefruit past peak harvest. Ideal weather prevailed vegetable producing areas with warm days, mild nights. Temperature highs ranged mostly 70 to low 80s, lows 50s to 60s. Only light, scattered showers few southeast locations. Harvest continued active Dade County, beginning seasonal decline. Increasing supplies most crops Pompano, southwest. Spring crops making good progress central section. Good supplies snap beans, cabbage, carrots, celery, sweet corn, cucumbers, eggplant, lettuce, peppers,

potatoes, radishes, squash, tomatoes; decreasing volume cauliflower, strawberries.

GEORGIA: Temperatures mid and upper 60s north, near 70 elsewhere. Averages 10° above normal north, 5 to 8° above normal central, south. Extremes 38° Blairsville and Clayton morning of 1st, 2nd; 90° Dublin, Jesup afternoon of 3rd. Most stations no rain. Mean 4 in. soil temperatures mid and upper 60s north, 70s elsewhere.

Days suitable for fieldwork 5.8. Soil moisture 32% very short, 60% short, 8% adequate. Corn 1% poor, 47% fair, 50% good, 2% excellent; 70% planted, 73% 1985, 59% avg. Cotton 80% fair, 20% good; 2% planted, 1% 1985, 1% avg. Sorghum grain 7% poor, 50% fair, 43% good; 3% planted, 1% 1985, 2% avg. Tobacco 62% fair, 38% good; 49% transplanted, 46% 1985, 42% avg. Watermelons 2% poor, 59% fair, 39% good; 67% planted, 78% 1985, 59% avg. Wheat 1% very poor, 4% poor, 35% fair, 57% good, 3% excellent; 87% jointing, 80% 1985, 75% avg.; 45% boot, 35% 1985, 31% avg.; 17% headed, 10% 1985, 9% avg. Rye 1% very poor, 36% fair, 61% good, 2% excellent. Other small grains 4% poor, 33% fair, 60% good, 3% excellent. Apples 3% poor, 34% fair, 63% good; 42% blooming, 4% 1985. Peaches 1% very poor, 2% poor, 47% fair, 50% good; 100% blooming, 92% 1985, 91% avg. Pasture 9% poor, 51% fair, 38% good, 2% excellent. Cattle 1% poor, 36% fair, 63% good. Hogs 1% poor, 28% fair, 70% good, 1% excellent. Main activities: Dry soil delaying land preparation and planting, spraying corn with herbicides, some reports of Hessian fly damage in wheat and small grains. Irrigation some areas on emerged corn and recently planted row crops.

HAWAII: Unstable weather conditions, result of warm moist air underlying cold air. Rainfall, at times heavy, some crop growing areas. Flash flood warnings Hawaii island. Precipitation 13.10 in. over 24-hour period recorded one area. Rainfall ranged from less than 0.05 to 20.8 across State. Winds from northeast gusting to 30 mph caused some damage vine crops, exposed fields.

Days suitable for fieldwork 7.0. Soil moisture adequate. Rainfall past several weeks beneficial Kauai non-irrigated sugarcane fields. Rain slowed progress lettuce, cabbage. Papaya spray programs intensified disease prevention.

IDAHO: Winter like storm, wet on 2nd, cool, dry remainder of week. Precipitation variable. Temperatures 2 to 3° above normal.

Days suitable 4.0. Spring wheat 28% seeded, 6% 1985, 14% avg.; 6% emerged, none 1985, none avg. Barley 18% seeded, 7% 1985, 11% avg.; 2% emerged, none 1985, none avg. Sugarbeets 19% planted, 19% 1985, 19% avg. Onions 52% planted, 50% 1985, 42% avg. Dry peas 10% planted, none 1985, none avg. Calving 77% complete, lambing 90% complete. Winter wheat good. Hay, roughage supply good. Livestock good. Fruit trees blooming.

ILLINOIS: Temperatures averaged 10 to 14° above normal north, south; 14 to 16° above normal central. Precipitation 0.20 to 0.40 in. Averaged 0.50 to 0.70 in. below normal.

Days suitable for fieldwork 5.8. Soil moisture 17% short, 82% adequate, 1% surplus. Winter wheat 19% failed, 30% poor, 30% fair, 19% good, 2% excellent; winterkill caused significant damage. Alfalfa 2% failed, 13% poor, 39%, fair, 44% good, 2% excellent. Oats planted 55%, 37% 1985, 31% avg. Pasture 8% poor, 45% fair, 43% good, 4% excellent. Livestock roughage from pasture 20%, 23% 1985, 18% avg. Major farm activities: Plowing, spreading fertilizer; general farm maintenance.

INDIANA: Temperatures averaged 10 to 12° above normal. Lows upper 20s north, highs lower 80s throughout State. Soil temperatures 50s. Rainfall below normal. Totals mostly 0.25 to 0.50 in.

Fieldwork averaged 5.5 days. Topsoil moisture 19% short, 79% adequate, 2% surplus. Subsoil moisture 8% short, 83% adequate, 9% surplus. Wheat 15% poor, 50% fair, 35% good. Wheat 4 in. high, 4 in. 1985, 3 in. avg. Wheat 4% jointed, 4% 1985, 4% avg. Oats 35% seeded, 30% 1985, 30% avg. Clover 55% seeded, 55% 1985, 45% avg. Apple buds 90% alive. Peach buds 79% alive. Peach first bloom 7th. Pastures fair to good.

IOWA: Warm, wet week. Precipitation varied, near normal east central, southeast; 4.00 in. few southwest localities.

Days suitable for fieldwork 3.3. Topsoil moisture 1% short, 56% adequate, 43% surplus; subsoil moisture 3% short, 74% adequate, 23% surplus. Winter wheat 4% very poor, 8% poor, 40% fair, 46% good, 2% excellent; wheat winterkill 9%. Wet soil conditions slowed seedbed preparation, 35% oats sown, 35% 1985, 25% avg. Fertilizer application 25% completed, 38% 1985, 45% avg. Livestock good; calving, lambing few losses. Pastures fair to good. Other farm activities: Hauling manure, caring for livestock, readying equipment.

KANSAS: Precipitation 0.20 to 0.30 in. west, 0.75 to 1.50 in. central and 2.00 in. east. Temperatures averaged 54 to 57° west, 59 to 64° central, east; 7 to 12° above normal.

Days suitable for fieldwork 4.0. Soil moisture 29% short, 44% adequate, 27% surplus. Wheat excellent growth, jointing ahead schedule. More moisture needed to maintain current growth rates. Grass, weed problems widespread, spray measures generally effective. Oat, barley seeding nearing completion; early stands good growth. Early start corn planting southeast. Lambing, calving peaked; survival rates excellent. Range, pasture generally adequate; supporting increased grazing; livestock moving off wheat pasture.

KENTUCKY: Very mild, but dry. Daily mean temperatures averaged middle 60s, 8 to 12° above normal. Rainfall very light, averaging less then 0.10 in.

Days suitable for fieldwork 6.0. Soil moisture 74% short, 26% adequate. Shortages especially acute eastern half. Corn planting active many counties. Tobacco beds 88% seeded, 88% 1985, 78% avg. Plants emerged in 20% of beds. Wheat avg. ht. 7 in., 7 in. 1985. Dry weather suppressed wheat diseases, but rain needed. Fruit trees budding and blooming, freeze damage minimal to date. Pastures fair to good, but general rain needed to stimulate growth.

LOUISIANA: Temperature ranged normal to 7° above normal. Temperature extremes 44°; 86°. Rainfall averaged none to 0.20 in. across State.

Days suitable for fieldwork 6.7. Soil moisture 89% short, 11% adequate. Spring plowing 78% complete, 59% 1985, 58% avg. Corn fair; 83% planted, 71% 1985, 61% avg. Corn 66% emerged, 54% 1985, 45% avg. Cotton 1% planted, none 1985, 1% avg. Rice 39% planted, 25% 1985, 27% avg.; 20% emerged, 13% 1985, 16% avg. Sorghum 17% planted, 6% 1985, 7% avg.; 2% emerged, 1% 1985, 1% avg. Winter wheat fair; 60% headed, 29% 1985, 33% avg. Winter wheat 1% turning color, none 1985, 1% avg. Sugarcane fair to good. Vegetables fair. Pasture fair. Livestock fair to good. Main activities: Spring plowing; planting corn, gardens, rice, sorghum; applying fertilizers; harvesting strawberries, crawfish.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 11° above normal over State; lowest temperature 28° Oakland; highest temperature 86°

Cumberland, Hagerstown. Precipitation averaged a trace, ranging from none to 0.02 in.

Days suitable for fieldwork 6.0. Topsoil moisture short; subsoil moisture adequate. Small grains good. Farmers' main activities: Plowing, stripping tobacco, spreading manure, seeding of grasses, alfalfa, oats.

Delaware: Temperatures averaged 9° above normal over State; lowest temperature 32° Georgetown; highest temperature 82° Dover, Milford. Precipitation averaged 0.01 in., ranging from none to 0.03 in.

Days suitable for fieldwork 6.0. Topsoil moisture short; subsoil moisture adequate. Small grains good. Farmers' main activities: Plowing, spreading manure, and seeding of grasses and alfalfa.

MICHIGAN: Above normal temperatures across State. Temperatures averaged 10° above normal. Moderate precipitation.

Farm activities increased due pleasant spring weather. Fields drying rapidly, plowing underway. Machinery preparation. Manure spreading. Spraying fruit. Clean up of corn harvest active. Peaches pink bloom, apples green tip stage south. Small grain fields good. Calving continued.

MINNESOTA: Temperatures averaged 8 to 12 ° above normal. Temperature extremes 22°; 82°. Precipitation averaged 0.32 in. below normal to 1.12 in. above normal. Greatest weekly total 2.56 in.

No fieldwork most areas. Subsoil still frozen except southern third. Very limited tillage, small grain seeding, south central early week. Heavy rain ended fieldwork late week.

MISSISSIPPI: Average temperatures 5 to 10° above normal. Extremes 40°; 88°. Rain only extreme northern counties, greatest 24-hour total 3.60 in.

Days suitable for fieldwork 6.2; 4.1 1985, 2.7 avg. Soil moisture 93% short, 7% adequate. Main activities: Land preparation; planting. Wheat 11% very poor, 11% poor, 44% fair, 34% good; Hessian fly damage; 86% jointing, 83% 1985, 72% avg.; 13% heading, 12% 1985, 10% avg. Corn 4% poor, 64% fair, 32% good; 54% planted, 51% 1985, 35% avg.; 29% emerged, 28% 1985. Rice 16% planted, none 1985, 6% avg. Sorghum 9% planted. Cotton planting less than 1%, 1% 1985. Sweetpotato planting 1%, 3% 1985. Watermelons 33% planted, 29% 1985, 34% avg. Supplies of hay, feed grains adequate. Pastures 13% poor, 50% fair, 37% good. Livestock 9% poor, 39% fair, 49% good, 3% very good.

MISSOURI: Temperatures averaged 13° above normal. Rain heavy southwest, averaging nearly 2.00 in; elsewhere 0.50 to 1.00 in.

Good progress fieldwork. Soil moisture 33% short, 64% adequate, 3% surplus. Wheat 50% poor, 35% fair, 15% good. Oats 77% sown. Corn 6% planted. Supply to hay adequate to surplus. Livestock mostly good, losses normal.

MONTANA: Temperatures mild, 3 to 9° above normal. Southeast received most precipitation last half week, rest of State first half. Generally under 0.24 in. some areas more.

Days suitable for fieldwork 5.8. Topsoil moisture 28% short, 66% adequate, 6% surplus. Subsoil 15% short, 82% adequate, 3% surplus. Winter wheat 55% greening, 45% green and growing. Spring wheat, sugarbeet planting started. Barley and oats 10% planted. Calving 65% complete, lambing and shearing 55%.

NEBRASKA: Showers, thunderstorms common. Rainfall ranged from 0.50 to 3.82 in. Average temperatures ranged from 2° above normal Panhandle to 12° above normal east.

Days suitable fieldwork 3.8. Topsoil moisture 3% short, 49% adequate, 48% surplus. Subsoil moisture 8% short, 75% adequate, 17% surplus. Winter wheat 16% fair, 69% good, 15% excellent. Winterkill very light. Isolated cases wheat streak mosaic, soil borne mosaic southwest, south central. Pennycress southeast. Oat seeding 30%, 55% 1985, 25% avg. Seeding lagging northeast; most advanced southern, east central. Pasture, range feed mostly adequate to short. Some early movement cattle to pasture. Calving season progressing well, few difficulties. Wet, muddy conditions stressed new born calves.

NEVADA: Fair, warm weather predominated early period. Strong cold front midweek brought snow north and central. Trace amount rain occurred extreme south. Strong winds 50 to 54 mph. accompanied storms. Some clearing end of period but temperatures seasonably cold. Temperature extremes 16°; 95°.

Good progress fieldwork beginning, end of period. Snow and gusty winds not favorable for newborn calves, lambs.

NEW ENGLAND: Average temperature ranged from 40° near Canadian border to lower 50° southern areas; 10° above normal. Dry week. Precipitation averaged less than 0.25 in. most areas.

Temperatures not conducive to making maple syrup; reduced crop expected most areas. Farmers preparing machinery for spring planting.

NEW JERSEY: Temperatures averaged 3° above normal. Extremes 30°; 79°. Weekly rainfall averaged 0.46 in. north, 0.42 in. central, 0.61 in. south. Heaviest 24-hour total 0.60 in. on 5th, 6th. Estimated soil moisture in percent of field capacity averaged 68% north, 59% central, 49% south. Four inch soil temperatures averaged 49° north, 52° central, 53° south.

Soil preparation, planting progressed well. Rainy weekend weather temporarily halting fieldwork but precipitation badly needed. Peaches beginning to bloom. Fall sown grains, hay, pastures making good early growth.

NEW MEXICO: Average weekly temperatures 1 to 7° above normal. Winter storm brought 0.25 to 1.00 in. precipitation north, 0.10 in. or less west central. Precipitation none to 1.18 in. northern mountains.

Days suitable for fieldwork 7.0. Soil moisture 92% short, 8% adequate. Alfalfa 8% poor, 25% fair, 67% good. Barley 22% fair, 78% good. Irrigated wheat 22% fair, 78% good. Dryland wheat 75% poor, 25% good. Chile 100% good. Lettuce 100% good. Cattle 42% fair, 58% good. Sheep 40% fair, 60% good. Range 17% poor, 83% fair.

NEW YORK: Record breaking temperatures early week. Temperatures 70s, 80s through 1st, then back to seasonable. Dry most of week. Light rain south on 4th, 0.50 to 0.75 in. on 5th west.

Limited plowing, planting. Spring wheat, hay seeding underway. Low maple syrup production. Other farm activities included tending livestock, repairing machinery, general farm chores.

NORTH CAROLINA: Temperatures averaged 6 to 8° above normal Mountain, Coastal Plain Regions; 14° above normal Piedmont Region. Temperature extremes 31°; 89°. Precipitation ranged from none to 0.09 in. across State.

Days suitable for fieldwork 6.4. Soil moisture 22% very short, 73% short, 5% adequate. Wheat 41% fair, 59% good. Oats 2% poor, 47% fair, 51% good. Barley 2% poor, 49% fair, 49% good. Rye 48% fair, 52% good. Tobacco beds 35% fair, 63% good, 2% excellent. Irish potatoes 44% fair, 56% good; 98% planted, 96% 1985, 90% avg. Corn 18% planted, 35% 1985, 15% avg. Feed grains 2% short, 93% adequate,

5% surplus. Hay, roughage 7% short, 93% adequate. Pasture 5% poor, 58% fair, 37% good. Dry weather decreased crop conditions, some relief on 6th. Major farm activities: Planting corn; land preparation; tending tobacco plantbeds; topdressing small grains; planting Irish potatoes, cabbage, other vegetables, gardens; cultivating cabbage, Irish potatoes; fertilizing pastures; spreading lime; tending livestock; planting Christmas trees; conservation work; general farm maintenance.

NORTH DAKOTA: Warm, wet weather last week. Temperatures ranged from 6° above normal north central to 10° above normal northwest. High 80° southeast on 30th. Low 22° west central, southwest on 1th. Rainfall of 0.50 to 1.00 in. over much of State except northeast, northwest corners. Rainfall heaviest central, southeast. Largest amount of precipitation 1.53 in. southeast.

Topsoil moisture 5% short, 88% adequate, 7% surplus. Despite last week's rainfall fieldwork underway with some small grain already seeded. Winterkill of winter wheat less than normal as crop rated 25% fair, 73% good, 2% excellent. Livestock good, calving and lambing conditions have been good.

OHIO: Temperatures 10 to 14° above normal north; 15 to 18° above normal south. Extremes upper 20s to mid 80s. Precipitation 0.33 to 1.50 in. north; 0.10 to 0.50 in. central, south.

Light rains brought needed moisture for grasses, small grains. Southeastern area local grass, forest fire problems until rains came. Apple development 2 weeks early. Farm activities: Fertilizing; pruning, spraying trees; planting early vegetables.

OKLAHOMA: Temperatures averaged 4° above normal Panhandle to 9° above normal eastern third. Precipitation averaged 0.22 in. Panhandle to 3.59 in. southeast.

Days suitable for fieldwork 4.5. Topsoil moisture 35% short, 50% adequate, 15% surplus. Subsoil moisture 25% short, 75% adequate. Wheat 20% fair, 80% adequate. Wheat 70% jointing, 55% 1985, 45% avg. Heading began southwest, south central. West producers applying herbicides, fertilizer since rain ended lengthy dry spell. Greenbugs more numerous north central. Sorghum under 1% planted. Pastures fair to good. Rain produced growth, greening. Livestock marketings moderate; prices lowest since mid-September 1985.

OREGON: Temperatures near normal statewide. Southwest corner 3 to 7° above normal. Heaviest precipitation Roseburg over 0.75 in. Central, north coast about 0.66 in. Willamette Valley averaged 0.50 in; southwestern valley 0.30 in. Elsewhere, precipitation totaled less than 0.10 in.

Soil moisture 92% adequate, 8% surplus. Winter wheat 32% fair, 87% good, 1% excellent. Barley 45% planted, 61% 1985. Spring fieldwork, grain seeding east. Spring seeding mainly finished west. Grass seed fields poor to good. Alfalfa growing very well. Malheur County sugarbeets 85% planted. Hood River pears first white stage lower valley; frost protection 1 night in April. Medford, Bartlett, Anjon pears past bloom, 2 weeks ahead of normal; 6 to 7 night frost control since mid-March. Cherries near full bloom The Dalles, about 1 week ahead of normal. Northeast cherry blossoms starting to open; apricots, peaches past bloom. Willamette Valley peaches past bloom. Caneberries, blueberries 1 to 2 weeks ahead of schedule, fertilization mostly complete. Cranberry development much advanced over 1985. Hermiston Norgold potato planting complete, Russets starting. Malheur Norgolds 90% planted, planting of Russets began. Malheur onions 85% planted, began west. Broccoli planting, other early vegetables doing well. Livestock, range, pasture good. Excellent early grass growth most areas. Most cattle on spring range. Calving winding down.

PENNSYLVANIA: Another warm, dry week prevailed across State. Although much needed rain arrived by weekend. Precipitation averaged 0.42 in., 0.39 in. below normal. Average temperature 56°, 13° above normal.

Activities for week: Dry week permitted early spring fieldwork. Spreading manure, applying fertilizer and lime, seeding oats.

PUERTO RICO: Island average rainfall 1.32 in., 0.75 in. below normal. Highest weekly total 3.30 in. Highest 24-hour total 2.72 in. Temperature averaged about 78 to 79° on coast, 72 to 75° interior divisions. Mean station temperature ranged from 65 to 79°. Extremes 56°; 96°. Total rainfall 0.47 in., 0.17 in. below normal.

SOUTH CAROLINA: Week unusually warm, dry. Temperatures averaged 6 to 12° above normal, high evaporation most areas. Showers too light, scattered to offer relief.

Days available for fieldwork 6.1. Soil moisture 27% very short, 64% short, 9% adequate. Planting considerably behind last year. Corn 57% planted, processing rapidly. Watermelons, cantaloupes, tomatoes, snap beans, cucumbers, pasture, corn, hay fair to good. Crops need rain.

SOUTH DAKOTA: Average temperatures ranged 3 to 10° above normal north and west, 6 to 12° above normal southeast. Extremes 20°; 82°; Black Hills low 14°. Precipitation 0.50 to 1.50 in. above normal. Rainfall ranged 0.50 to 3.00 in. Snowfall 9.00 in. or more Black Hills.

Livestock good. Calving, lambing continued. Major agricultural activities include caring for livestock, preparing for spring planting, beginning fieldwork, harvesting corn.

TENNESSEE: Temperatures above normal. Extremes 83° middle, 46° east. Precipitation received on 5th, 6th west; on 6th middle and east.

Days suitable for fieldwork 6.0. Soil moisture 91% short, 9% adequate. Corn 18% planted, 6% 1985, 4% avg. Tobacco 85% beds seeded, 91% 1985, 87% avg.; 40% plants up, 35% 1985. Wheat 27% jointed; 3% very poor, 12% poor, 61% fair, 24% good. Fruit trees 65% budding, 50% 1985; 45% in bloom, 15% 1985.

TEXAS: Mostly fair skies, quite warm temperatures because upper level high pressure. Cold front northern areas drifted slowly south triggered showers, thunderstorms eastern High Plains, northern Rolling Plains. Front interacted upper air disturbance produce very heavy rains north central, north east. Above normal rainfall Cross-Timbers, Blacklands. Temperatures above normal across State.

Crops: Wheat 16% headed, 5% 1985, 4% avg. Wheat 1% failure, 10% poor, 43% fair, 42% good, 4% excellent. Small grains continued to suffer from lack moisture many areas. Irrigated fields Plains good progress. Dryland fields suffering lack of rain. Many fields heading. Moisture critical for heads fill properly. Russian aphids increased fields Plains. Fields look good Blacklands, central; yields expected hurt by lack of timely moisture. Rust continued to be problem. Heading increasing. Most heads not filling well. Areas received moisture improvement growth, yield prospects. Corn 72% planted, 50% 1985, 48% avg. Grain sorghum 63% planted, 41% 1985, 52% avg. Planting corn, grain sorghum about complete Blacklands, central. Many fields up to stands, plants weak from lack of moisture. Some scattered replanting continued. Planting complete Valley,

Coastal Bend. Land preparation complete Plains, Some early planting corn began. Majority corn planting begin within few weeks. Cotton 11% planted, 7% 1985, 9% avg. Planting increasing Blacklands, central, some early fields emerging. Progress good Coastal Bend, Valley. Moisture would be beneficial all areas. Land preparation, herbicide application continued Plains, Cross-Timbers. Rice 62% planted, 14% 1985, 34% avg.; 5% emerged, none 1985, 2% avg. Planting winding down many more areas Upper Coast. Flushing continued. Other field crops: Peanuts none planted, none 1985, 2% avg. Sugarbeets 5% planted, 13% 1985, 37% avg.

Commercial Vegetables: Rio Grande Valley, harvest continued carrots, cabbage. Onion harvest increased with good yields. Melons making good progress. San Antonio - Winter Garden most vegetables harvested. Some light movement remained. Melons fair to good. Some fields stressed for moisture. High winds caused damage. Onions good progress. East sweetpotato bedded. Replanting tomatoes damaged by frost complete. Other vegetables planted, could use rain. High Plains potato planting complete. Some transplanting onions continued. Good growth planted fields. Other vegetable land pre-watered. Trans-Pecos land preparation, some planting cantaloups underway. Chili planting nearing. Peach trees blooming across state. Varied fruit set Hill Country. Spraying continued many areas. Pecan trees leafing out more areas. First zinc applied Low Plains. Some spraying delayed because high winds.

Range and Livestock: Ranges, pastures northern areas benefit from recent rainfall; majority State dry. Most grasses greening, slow growth. Trans-Pecos, producers spraying alfalfa for weevils. Cutting alfalfa begin soon. Irrigated small grains provide adequate forage. Livestock fair to good. Cattle prices down. Sheep shearing continues Hill Country. Several bids accepted Dairy Herd Buyout.

UTAH: Maximum temperatures 4 to 8° above normal; minimums 7 to 11° above normal. Precipitation amounts moderate to very heavy throughout State. All reporting stations recorded measurable precipitation.

Rain limited fieldwork to 2.9 days. Soil moisture adequate. Spring planting well underway. Barley 46% seeded, oats 15% seeded. Fall seeded grains good, growing; most areas light winterkill. Alfalfa 4 in. high; onions 70% planted. Fruit good, little frost damage. Percent bloom set apricots 98%, sweet cherries 82%, tart cherries 58%. Calving 62% complete, lambing 55% complete, shearing 46% complete. Death loss below normal to normal. Livestock good. Ranges, pastures growing, good condition.

VIRGINIA: Sunny first half, increased cloudiness second half with light rain. Temperatures averaged 11° above normal. Dry spell continued.

Days suitable for fieldwork 6.3. Soil moisture 60% short, 40% adequate. Corn planting 7% complete, 10% 1985, 7% avg. Small grains good to excellent, little or no insect problems. Some topdressing, scouting. Pasture, hay land good to excellent although dry. Sprayed alfalfa for alfalfa weevil. Flue-cured tobacco plantbed seeding virtually complete, condition good but stressed by dryness. Burley tobacco plantbed seeding over 75% complete. Fruit prospects excellent, peaches blooming. Potato planting virtually complete east. Livestock good to excellent. Feed adequate. Shearing sheep. Spring feeder cattle sales. ASCS feed grain sign-up active.

WASHINGTON: Temperatures generally averaged 1 to 4° above normal. Mostly dry, mild. Some rain over most of State on 1st. Rain west end of week.

Days suitable for fieldwork less than 6.0. Soil moisture 85% adequate, 15% good. Range, pasture 35% short, 65% adequate. Hay supplies 85% adequate, 15% good. Field preparations continued. Spring wheat, barley seeding well underway. Some livestock on early pasture. Cherries, apricots full bloom.

WEST VIRGINIA: Temperatures averaged 11 to 18° above normal. Average temperature 62°. Temperature extremes 27° Greenbank; 90° Creston. Precipitation near or above normal except below normal south. Average precipitation 0.55 in.

Days suitable for fieldwork 5.9. Soil moisture 13% very short, 74% short, 13% adequate. Feed supplies 13% short, 84% adequate, 3% surplus.

WISCONSIN: Temperature averaged 10° above normal; low 17 on 2nd, high 85 on 31st. Rain 0.50 to 1.90 in., heaviest central.

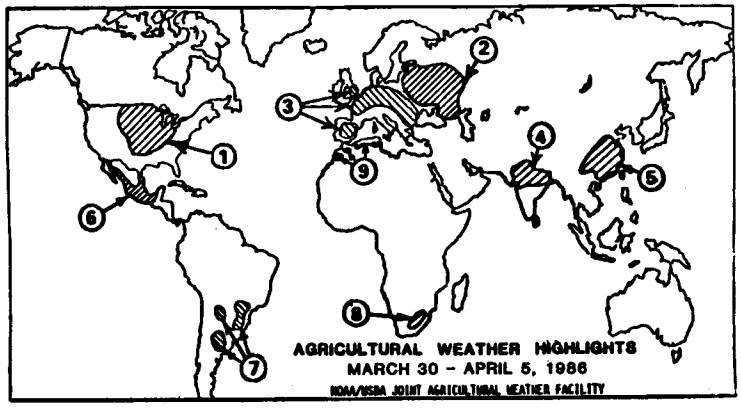
Days suitable for fieldwork 2.1. Soil moisture 46% adequate, 54% surplus. Corn harvest 92% complete, quality mostly good. Winter damage minimal to hay, winter wheat.

WYOMING: Temperatures 5 to 10° above normal. Moisture well above normal eastern third.

Days suitable for fieldwork 4.0. Topsoil moisture 24% short, 61% adequate, 15% surplus. Subsoil moisture 25% short, 64% adequate, 11% surplus. Spring wheat 10% planted, 5% 1985, 5% avg. Oats 15% planted, 10% 1985, 5% avg. Barley 30% planted, 35% 1985, 30% avg. Sugarbeets 15% planted, 5% 1985, 5% avg. Alfalfa prospects 17% fair, 83% good. Winter wheat fair to good. Light freeze, wind damage. Livestock mostly good. Spring calves born 55%, 50% 1985, 55% avg. Death losses light. Farm flock: Ewes lambed 55%, 65% 1985, 60% avg.; shorn 55%. Range flock: Ewes lambed 20%, 20% 1985, 25% avg.; shorn 20%. Death losses light. Range, pasture mostly fair.

International Weather and Crop Summary

March 30 - April 5, 1986



HIGHLIGHTS:

1. UNITED STATES ... Precipitation slow fieldwork across the central and northern Great Plains, but provides moisture for small grain growth. Rain in the Corn Belt causes less interruptions.

2. WESTERN U.S.S.R. ... Unseasonably warm weather promotes early winter grain growth in the south.

3. EUROPE ... Light showers favor early winter grain growth.

4. SOUTH ASIA ... Mostly dry weather favors wheat harvesting.

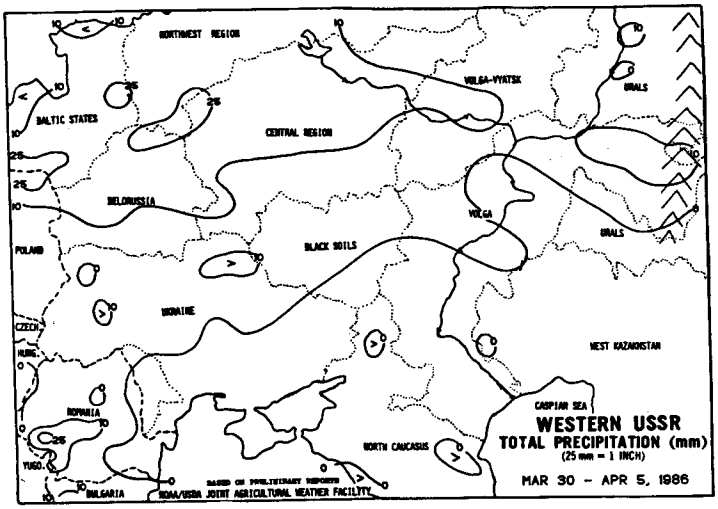
5. EASTERN ASIA ... Moisture is adequate for much of the rice region. Warm weather increases wheat growth in the North China Plain, but rain is needed for summer crop planting.

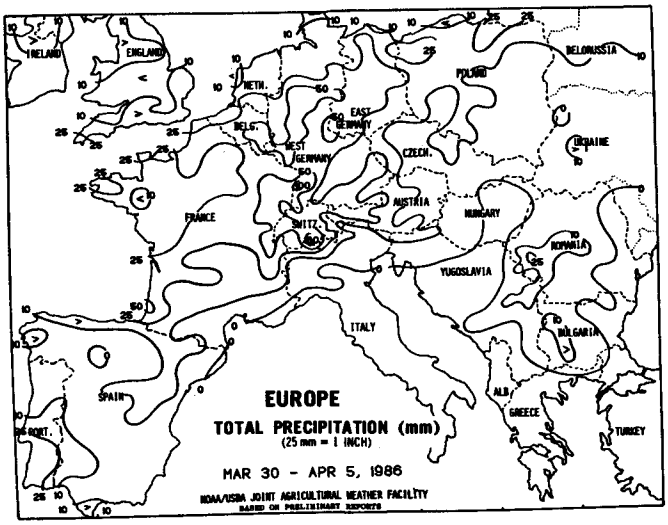
6. MEXICO ... Warm, dry weather favors wheat harvesting but increases irrigation requirements for spring-sown crops.

7. SOUTH AMERICA ... Heavy rain inundates Brazil's southern soybean area and Argentina's extreme northeast. Showers cause some harvest delays elsewhere in Brazil and Argentina.

8. SOUTH AFRICA ... Dry weather benefits corn harvesting. Light showers favor wheat planting in the southwest.

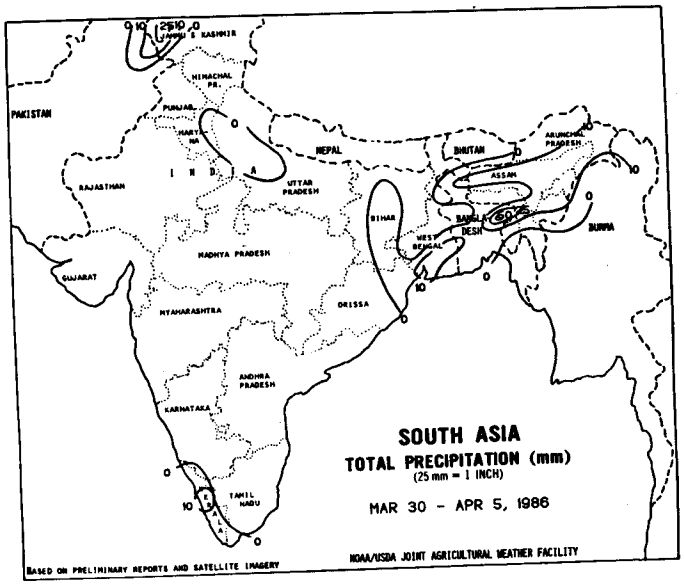
9. NORTHWESTERN AFRICA ... Light showers in Morocco and western Algeria benefit winter grains in the heading stage. Dry weather covers crop areas in eastern Algeria and Tunisia.

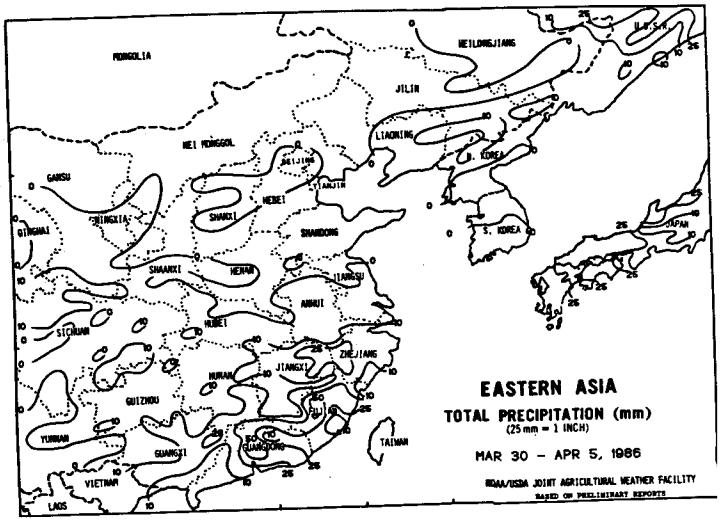




WESTERN U.S.S.R. ... Unseasonably warm, dry weather continued over major southern winter grain producing areas of the Ukraine, North Caucasus, and lower Volga, promoting winter grain growth and aiding fieldwork. Above-normal temperatures accompanied widespread rain (10 to 25mm) in the north. Normally, winter grains over the region break dormancy in early April across the south and late April in the north. The unseasonably warm weather pattern, which has covered the region for the past 2 weeks, has induced winter grains in the south to break dormancy at near-normal dates. In Belorussia, the Black Soils Region, and the middle Volga, winter grains are breaking dormancy earlier than usual. Winter grains in the Baltic States, Central Region, Volga Vyatsk, and Upper Volga remain dormant.

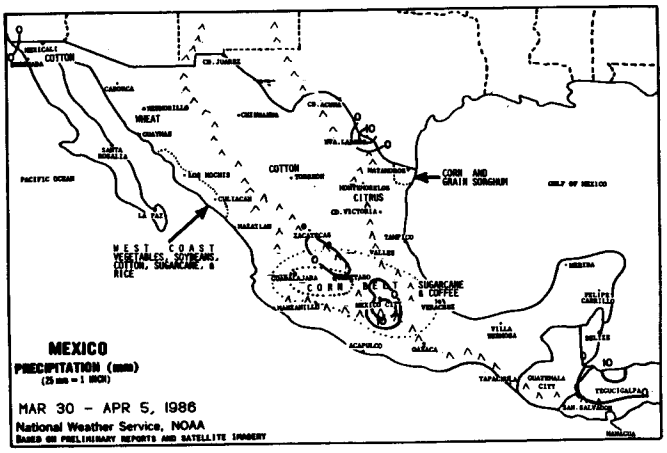
EUROPE ... Light showers covered winter grains across much of the region. Heaviest precipitation (25 to 50mm) fell in France, West Germany, and East Germany. Dry weather covered peninsular Italy and Greece, stressing winter grains in the heading stage. Weekly temperatures were below normal in the northwest, slowing early winter grain growth. In the southeast, above-normal temperatures promoted early crop growth.



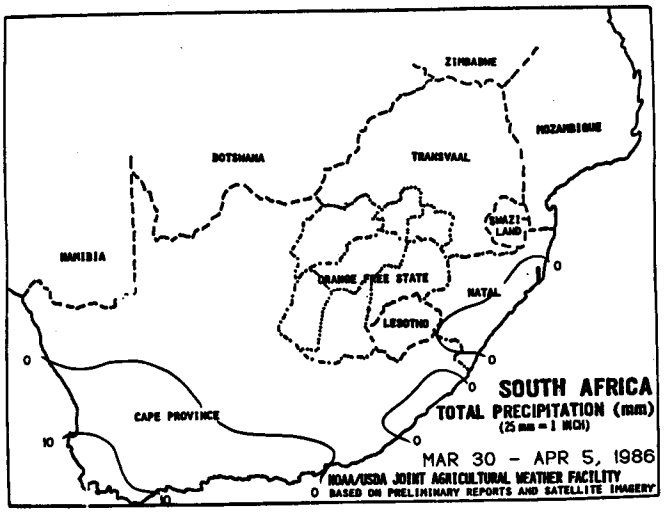


SOUTH ASIA ... Light, widely scattered showers fell in the northern wheat areas but did not slow wheat maturation. Wheat harvesting is progressing northward. Wheat harvesting in Punjab, which accounts for about 20 percent of India's total production, normally occurs during April and May. Dry weather in Andhra Pradesh favored summer rice harvesting. Summer rice is about 10 percent of India's total rice production.

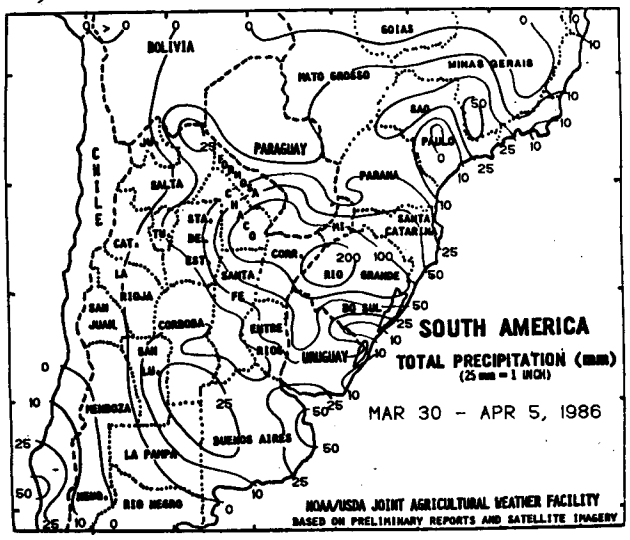
EASTERN ASIA ... Moderate rain (10 to 50mm) favored early rice in the southeast. Rain for the second week in Guangdong continued to ease earlier unfavorable dryness. Temperatures averaged below normal south of the Yangtze River while above-normal temperatures covered the North China Plain. The warm weather is favorable for winter wheat growth and cotton planting, but dry weather may be limiting progress in nonirrigated areas. Light showers (1 to 15mm) and above-normal temperatures benefited spring wheat planting in the northeast. Light showers favored early growth of winter grains in South Korea.



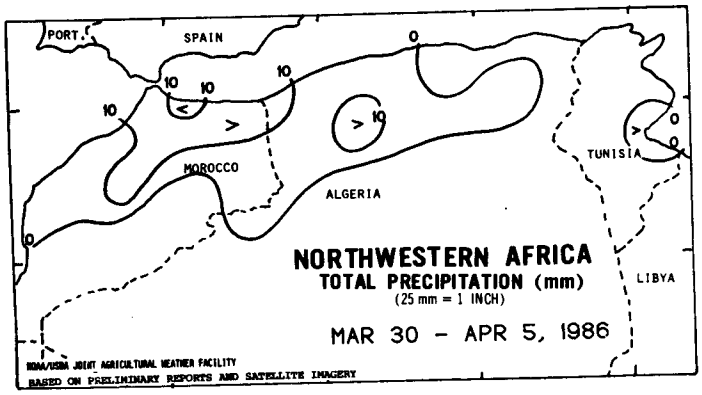
MEXICO ... Warm, dry weather continued over most of the country, with only a few scattered showers occurring in the Southern Plateau corn belt. Weekly temperatures averaged 2 to 4 degrees C above normal across the northern half of Mexico, promoting wheat maturity and harvesting in the northwest. Unseasonably warm weather for the past 2 months has reduced reservoir levels at a faster than normal rate. Continued warm, dry weather has likely required increased irrigation for establishment of newly-sown crops. Near to slightly above-average temperatures also prevailed over the Southern Plateau corn belt where early planting is likely underway.



SOUTH AFRICA ... Dry weather covered the Maize Triangle. The weather was favorable for corn harvesting. The dry weather also benefited maturing late-planted corn. Wheat planting likely progressed this week with favorable soil moisture. Light showers (1 to 10mm) fell along the southern coast. Moderate showers (10 to 17mm) benefited wheat areas near Cape Town.



SOUTH AMERICA ... In Brazil, more heavy rain fell over southern soybean areas. Weekly rainfall totals averaged 100 to 200mm in Rio Grande do Sul, drenching soybeans which range from filling pods to mature. Harvesting will be delayed several days due to excess wetness. Elsewhere, showers fell over the remainder of Brazil's soybean area, but weekly totals generally averaged 10 to 25mm. Locally heavier showers delayed crop harvests especially in southeastern Minas Gerais. Crop harvesting was hampered by stormy weather in Argentina as well. Heavy thunderstorms produced 100 to 175mm in the northeast, delaying sorghum and cotton harvesting. Corn and sorghum harvesting were slowed by showers in southern Cordoba, northeastern La Pampa, and western Buenos Aires. Light rain (less than 5mm) caused minimal interference to fieldwork in southern Santa Fe.



NORTHWESTERN AFRICA ... Light showers (around 10mm) during midweek in Morocco and western Algeria benefited winter grains in the heading stage. Further east, dry weather in central Algeria, eastern Algeria, and northern Tunisia followed 4 weeks of beneficial rain.

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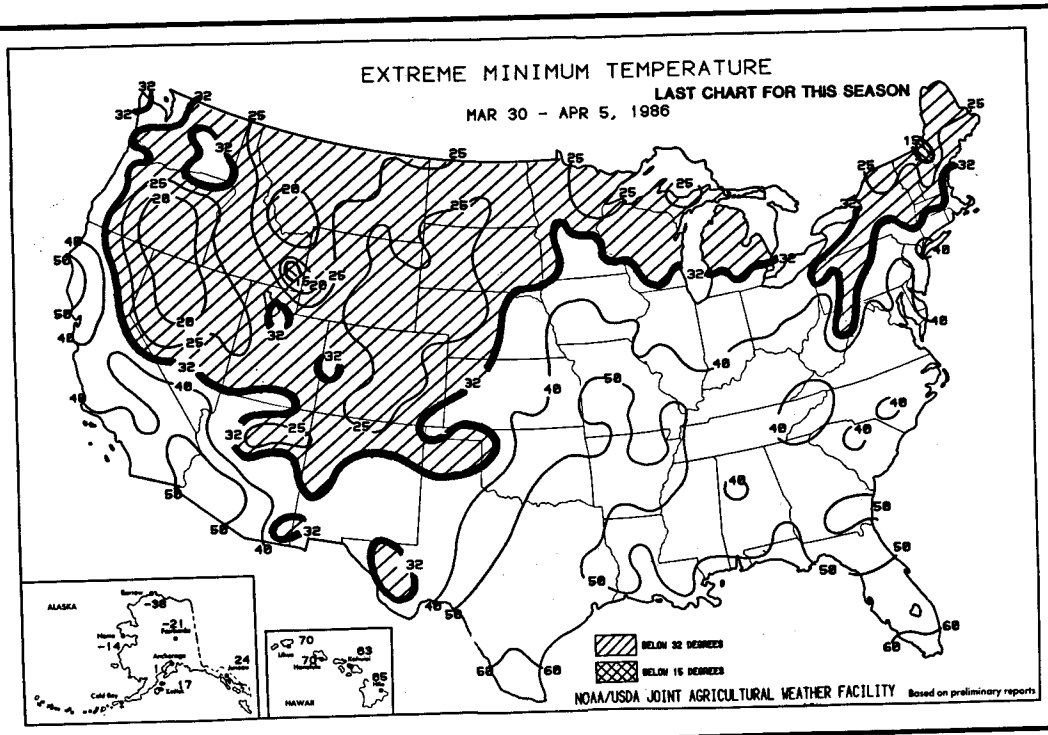

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