

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board

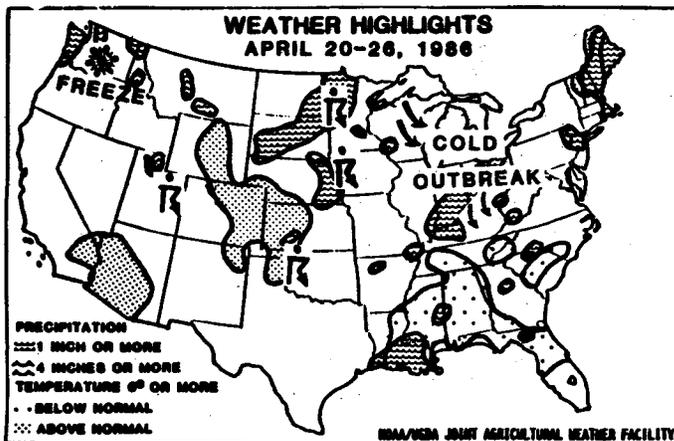
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Apr. 29, 1986

National Weather Summary

April 20-26, 1986



HIGHLIGHTS: A late-season cold outbreak pushed into the upper Mississippi Valley early in the week. By midweek record-cold temperatures reached from the lower Missouri Valley through the western and central Great Lakes region and the Southeast. Temperatures in the lower twenties were common from the Great Lakes through the upper Ohio Valley. Late-week warming brought record-warm weather to much of the same areas. Showers and thunderstorms ahead of the cold air dropped moderate to heavy rain from northern Arkansas to the eastern Great Lakes while light rain fell along the Northeast coast. Later, a Pacific storm caused rain in the Northwest, snow to the higher elevations of the Cascades and Rockies, and severe weather to much of the central and northern Great Plains.

SUNDAY...Rain or showers fell everywhere east of the Mississippi River and light showers covered the Missouri Valley and central Rockies. Thunderstorms developed from Mississippi and Alabama through the Ohio Valley. Mild temperatures covered most of the Nation but reached the nineties in southern California and the eighties as far north as southern Washington.

MONDAY...Colder air moved into the northern Plains and upper Great Lakes, but the unusually warm weather continued in the West Coast States and moved a little eastward into the Great Basin. Rainshowers were scattered through the East Coast States, the Ohio Valley, and the Great Lakes region. Light rain fell in the Northwest and showers were in the central Rockies.

TUESDAY...Much colder air plunged through the upper Mississippi Valley, the Great Lakes region,

and into parts of the Northeast. Freezing temperatures reached to southern Missouri and parts of the Ohio Valley, through Maryland and Virginia, and to southern New England. Rain spread over the Northwest to the northern Rockies and central Plateau.

WEDNESDAY...Record-cold temperatures covered most of the area east of the Mississippi River while much warmer air pushed northward through the Plains. Temperatures in the low twenties covered Michigan and parts of the lower Great Lakes States. Snow tapered off in the northern Appalachians and light rain fell along the Northeast coast. Showers and a few thunderstorms spread from the Great Basin through the Plains.

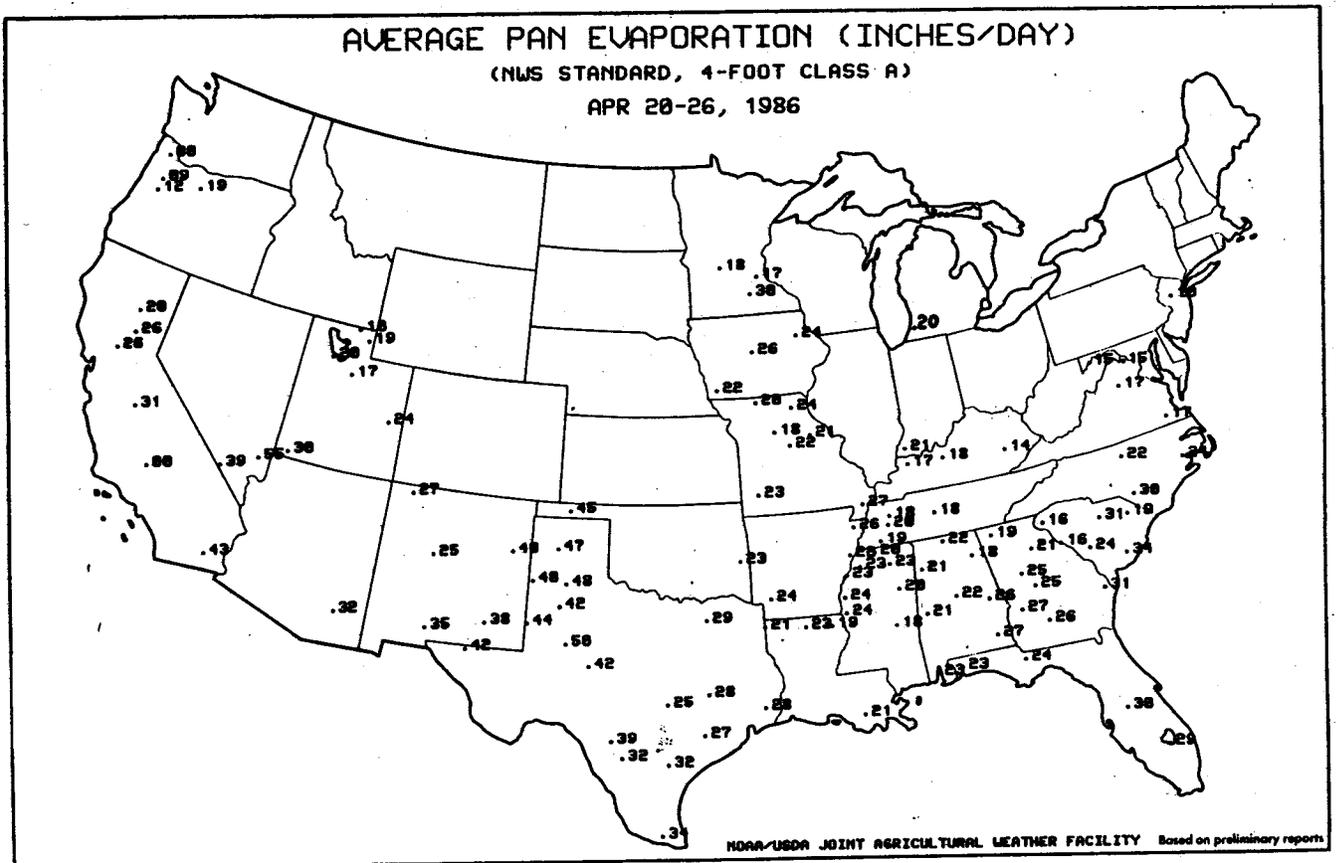
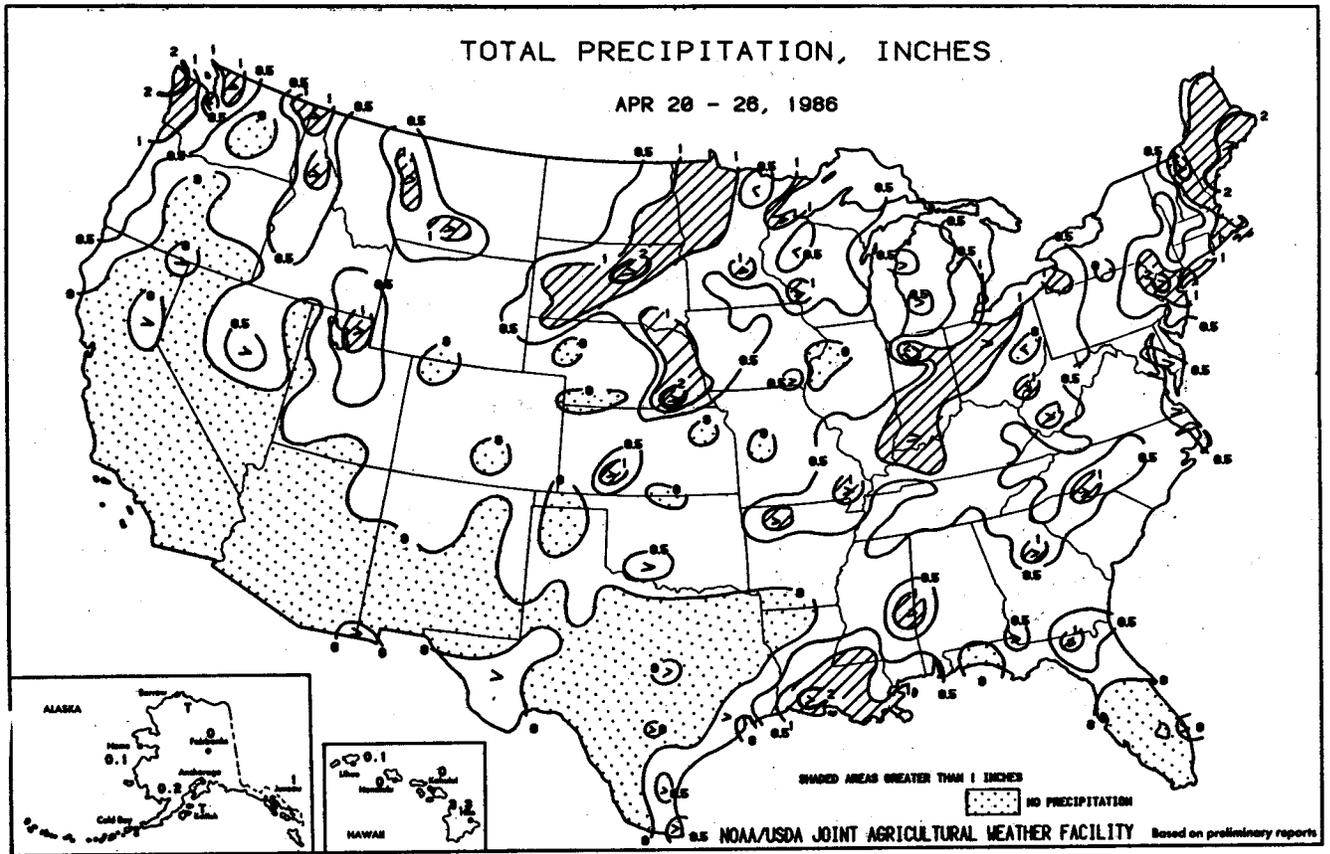
THURSDAY...The cold air moderated somewhat, but some records were reached in the East. Freezing temperatures reached from the eastern Great Lakes through all of the Appalachians. Another surge of cold air pushed into the Northwest. Rain, with snow at the higher elevations, covered the Northwest and scattered showers reached from the central Plateau through the Rockies to the northern Plains.

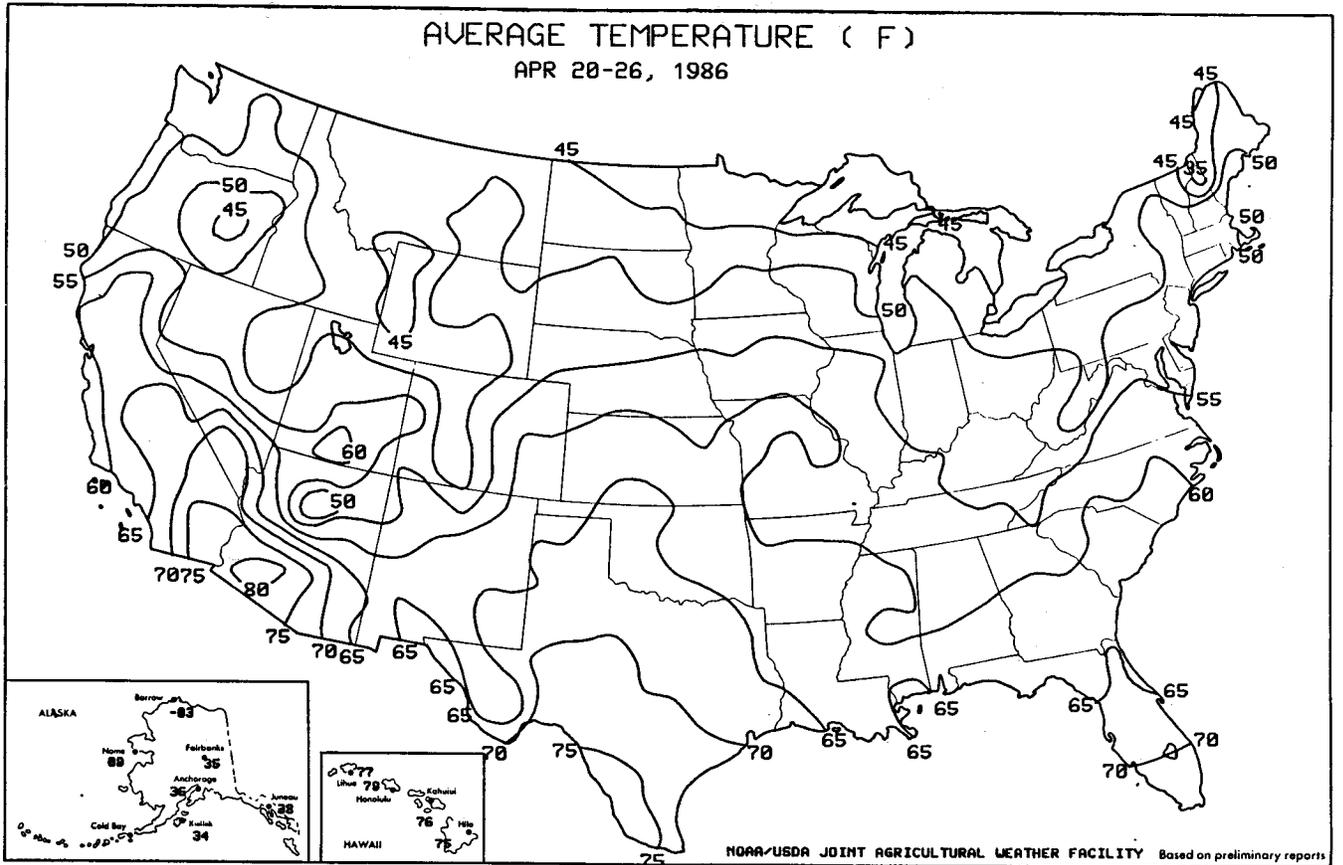
FRIDAY...A Pacific storm brought rain to the Northwest coast, snow to the Cascades and northern Rockies, and showers and thunderstorms to the central Plateau and northern Rockies. Showers and thunderstorms brought severe weather to much of the northern Plains and upper Mississippi Valley. Light rain fell from the upper Ohio Valley to North Carolina, and showers covered New England. Unusually warm weather spread from the southern Plains into the Midwest.

(Continued to p. 14)

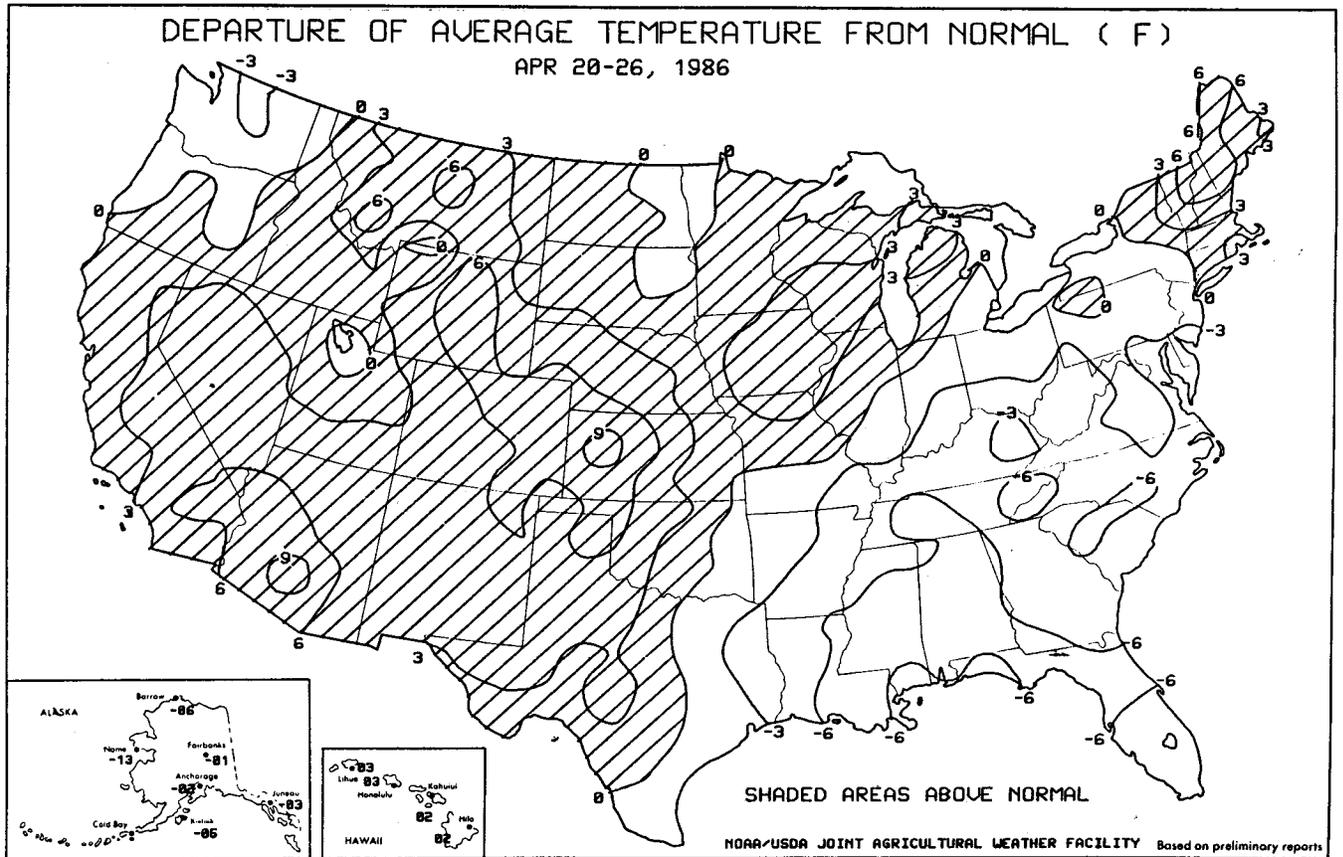
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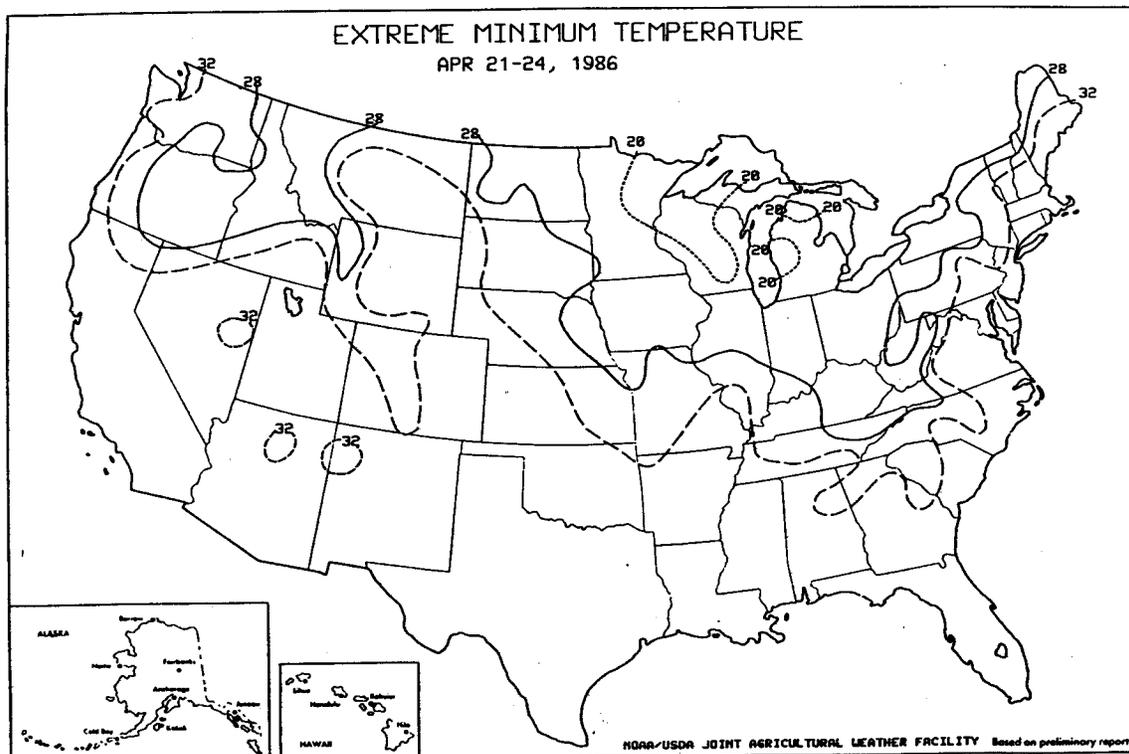
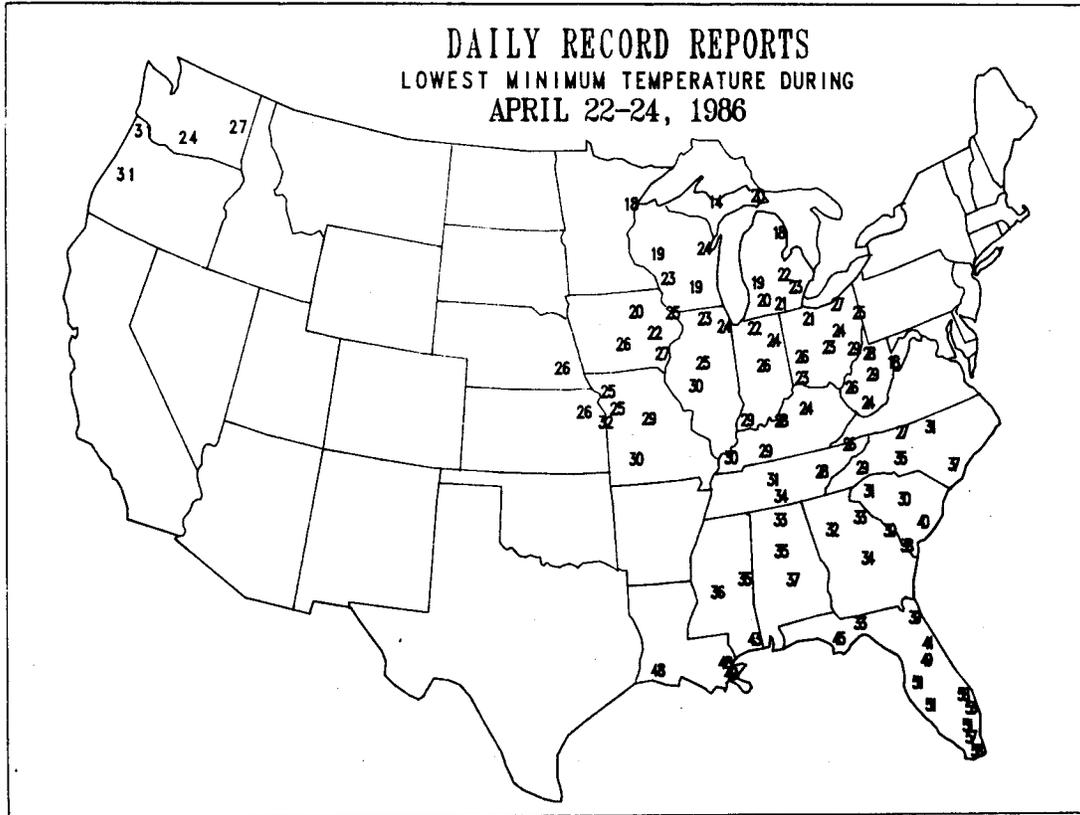


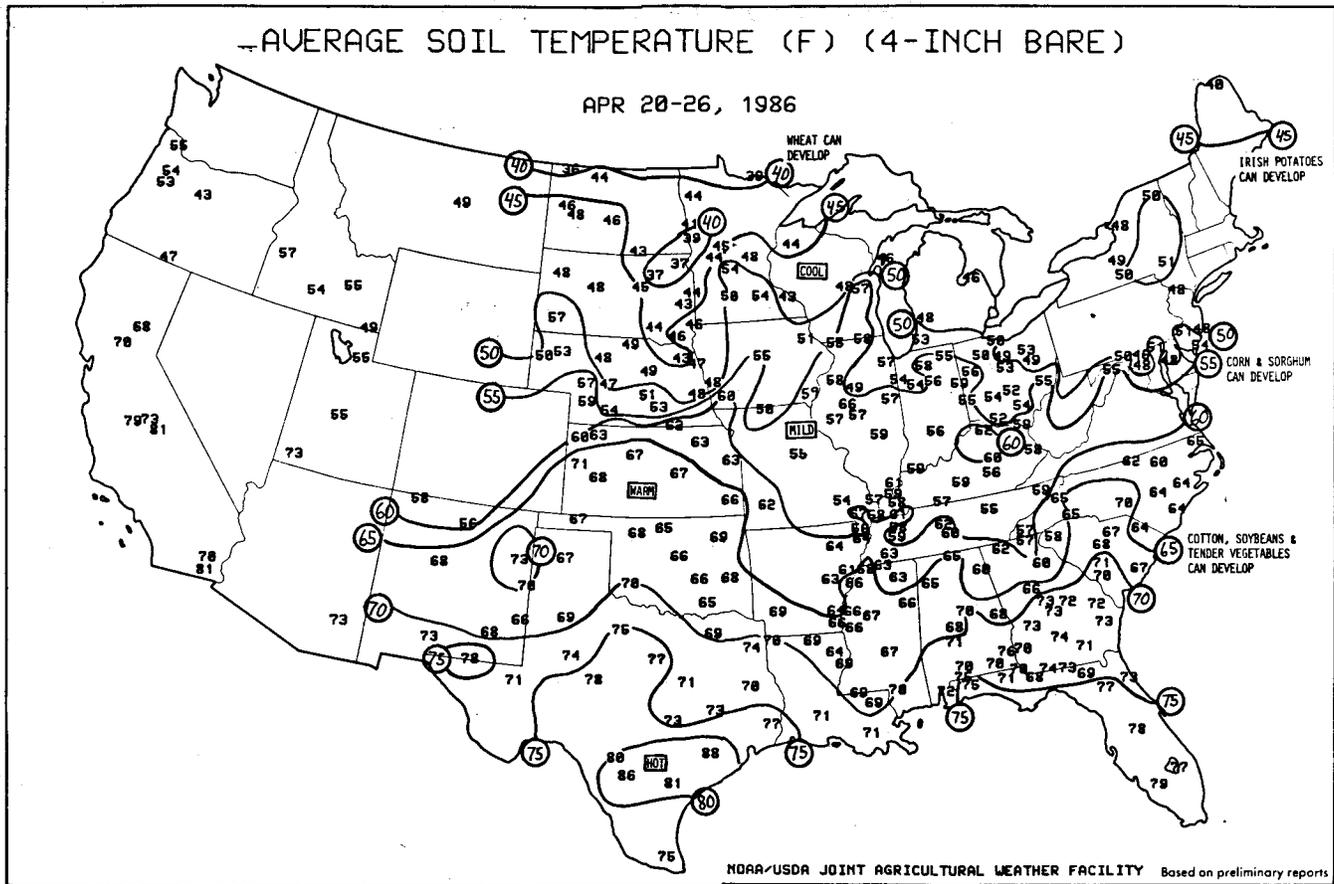
Point values may differ on these computerized maps from the reported values in the tables.



RECORD-LOW TEMPERATURES CHILL THE
MIDWESTERN AND SOUTHEASTERN UNITED STATES

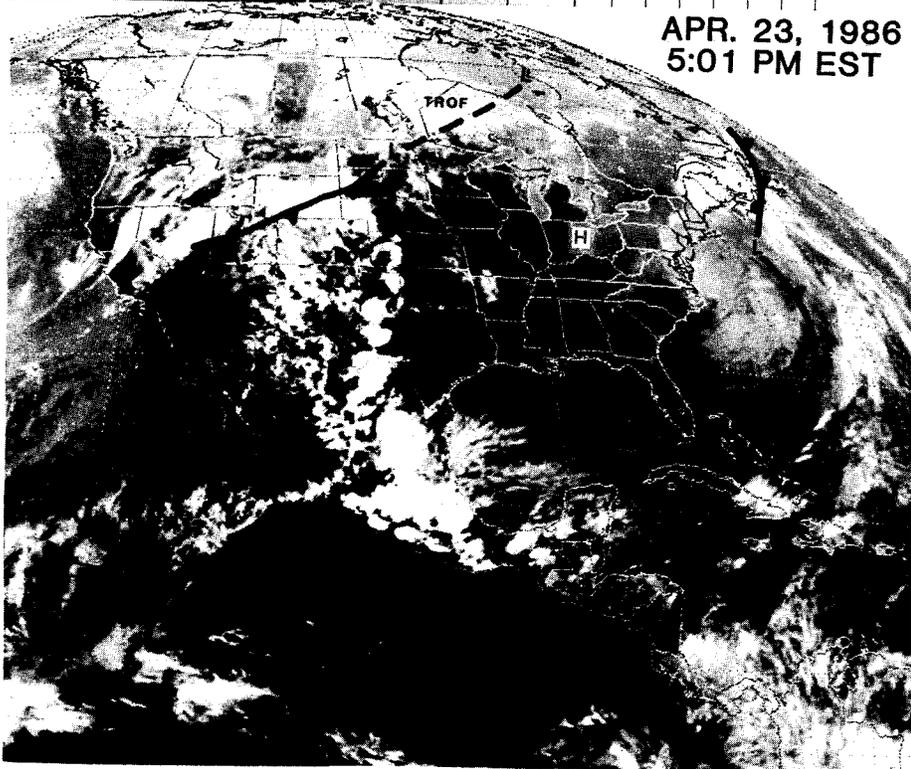
Cities throughout the eastern half of the Nation and in the Northwest reported record-low temperatures during the 3-day period of April 22-24 (top chart). Many orchards were in bloom across the Midwest and Southeast and temperatures of 28°F or less can be damaging to the blossoms. The bottom chart shows the southward penetration of the 28° isotherm (solid line).





2201 23AP86 28E-42A 00502 22651 UC6

APR. 23, 1986
5:01 PM EST



A LARGE HIGH-PRESSURE SYSTEM CENTERED IN THE OHIO VALLEY CAUSES COLD AIR TO PLUNGE SOUTHWARD OVER THE EAST. SCATTERED SHOWERS ARE OCCURRING AHEAD OF A TROF FROM WESTERN KANSAS SOUTHWARD INTO MEXICO.

The Crop Moisture Index

Lyle M. Denny and Thomas R. Heddinghaus

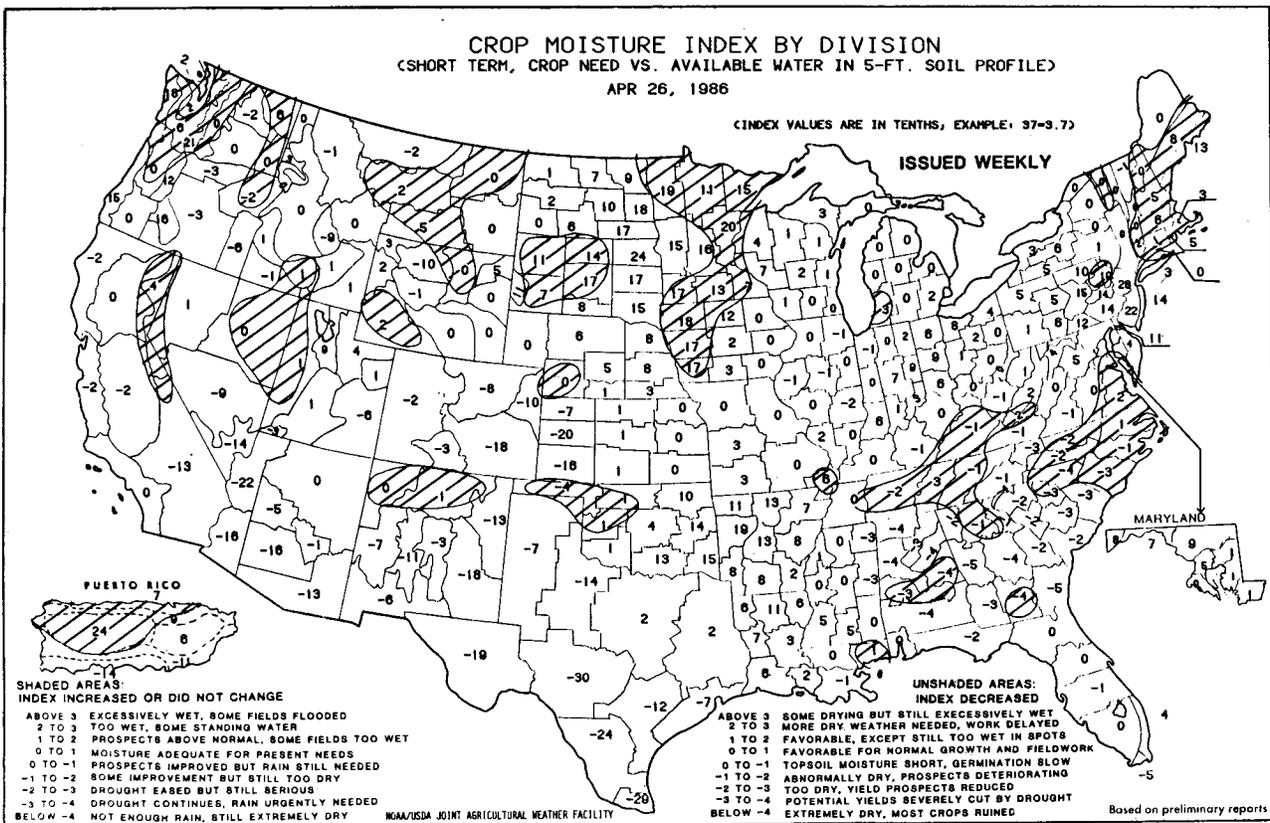
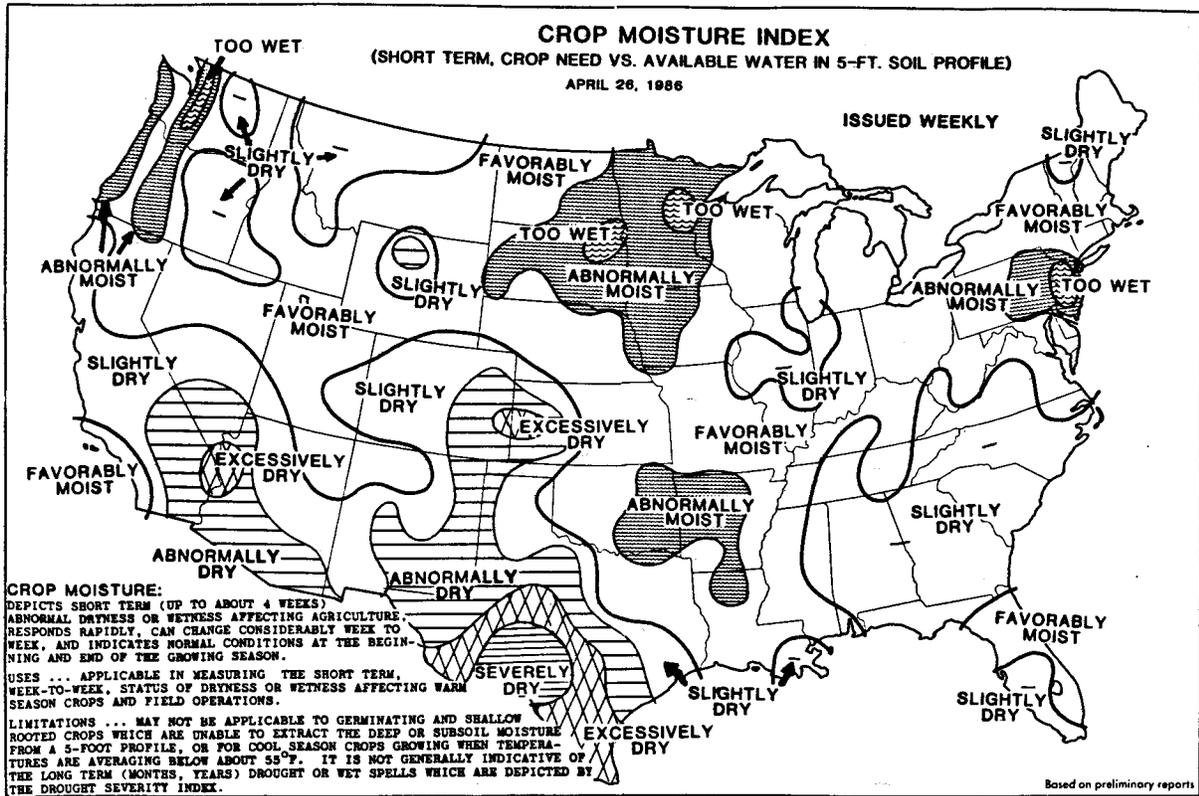
Palmer (1968) developed the Crop Moisture Index from moisture accounting procedures used in calculations of the Drought Severity Index to measure the degree to which moisture requirements of growing crops were met during the previous week. The Drought Severity Index (Palmer, 1965) evaluates prolonged meteorological dry or wet periods (see Weekly Weather and Crop Bulletin, February 25, 1986, Vol. 73, No. 8). The Crop Moisture Index gives the status of purely agricultural drought or moisture surplus affecting warm-season crops and field activities and can change rapidly from week to week. Calculations are made for 350 climatic divisions in the United States and Puerto Rico using weekly average temperatures and precipitation totals as input.

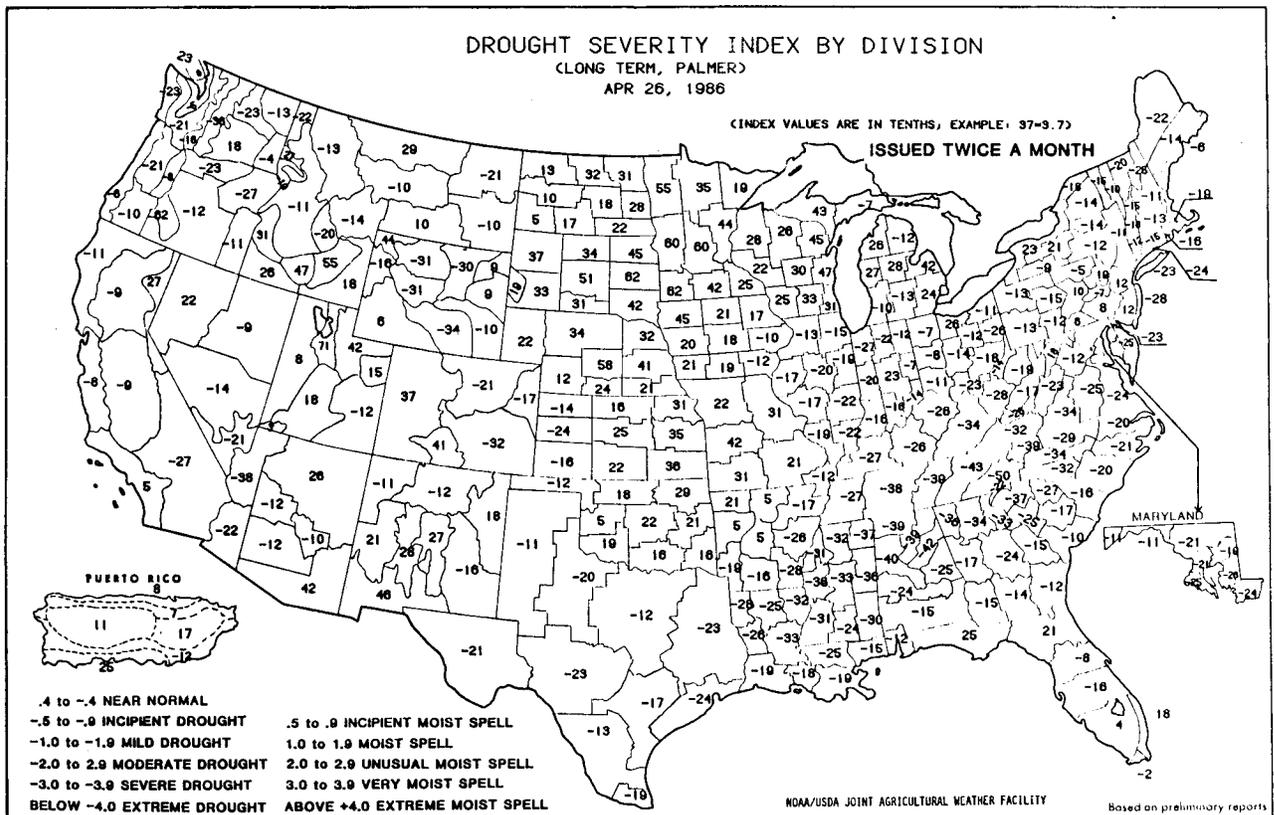
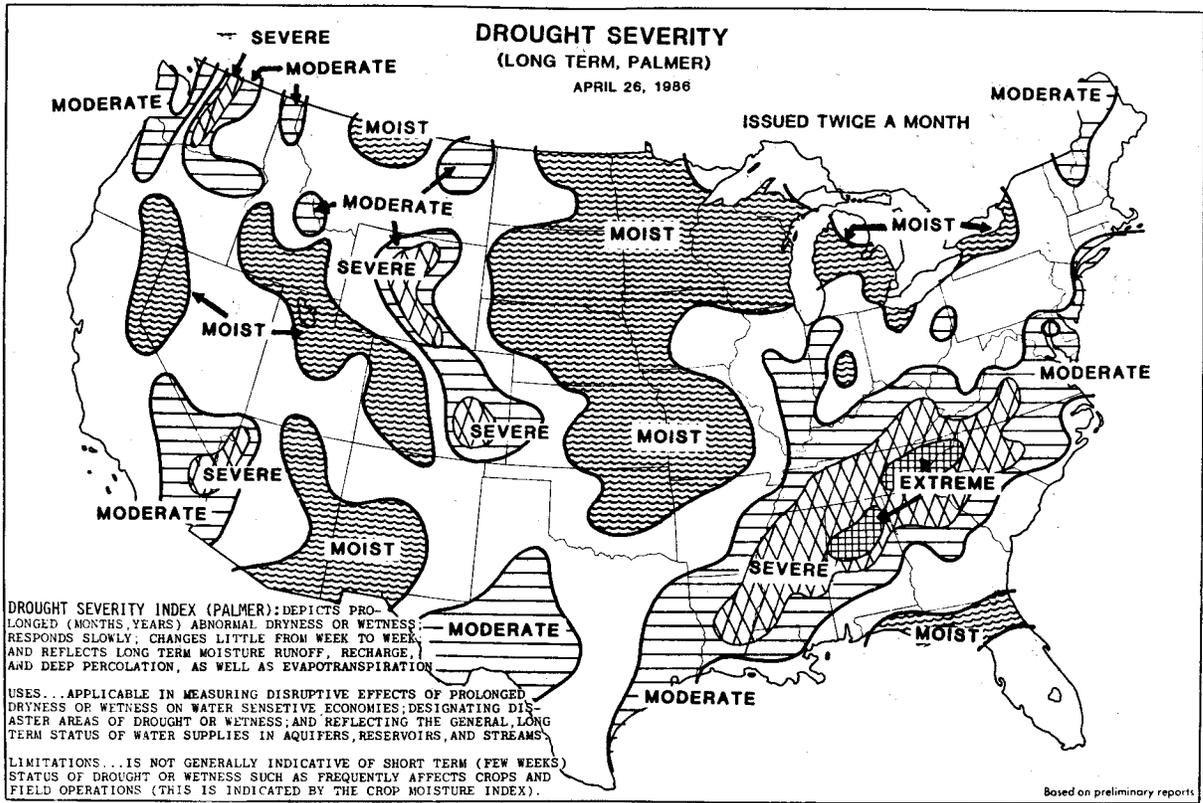
The index is the sum of the evapotranspiration anomaly, which is negative or slightly positive, and the moisture excess (either zero or positive). Both terms take into account the value of the previous week. The evapotranspiration anomaly is weighted to make it comparable for different locations and time of year. If the potential moisture demand exceeds available moisture supplies, the index is negative. If moisture meets or exceeds demand, the index is positive. It is necessary to use two separate interpretations because the resulting effects are different when the moisture supply is improving than when it is deteriorating (table of values are given with the accompanying map).

General conditions are indicated and not local variations caused by isolated rains. The stage of crop development and soil type should also be considered in using this index. In irrigated regions, only departures from ordinary irrigation requirements are reflected. The index may not be applicable for seed germination, for shallow-rooted crops which are unable to extract the deep or subsoil moisture from a 5-foot profile, or for cool-season crops growing when temperatures are averaging below 55°F degrees.

References

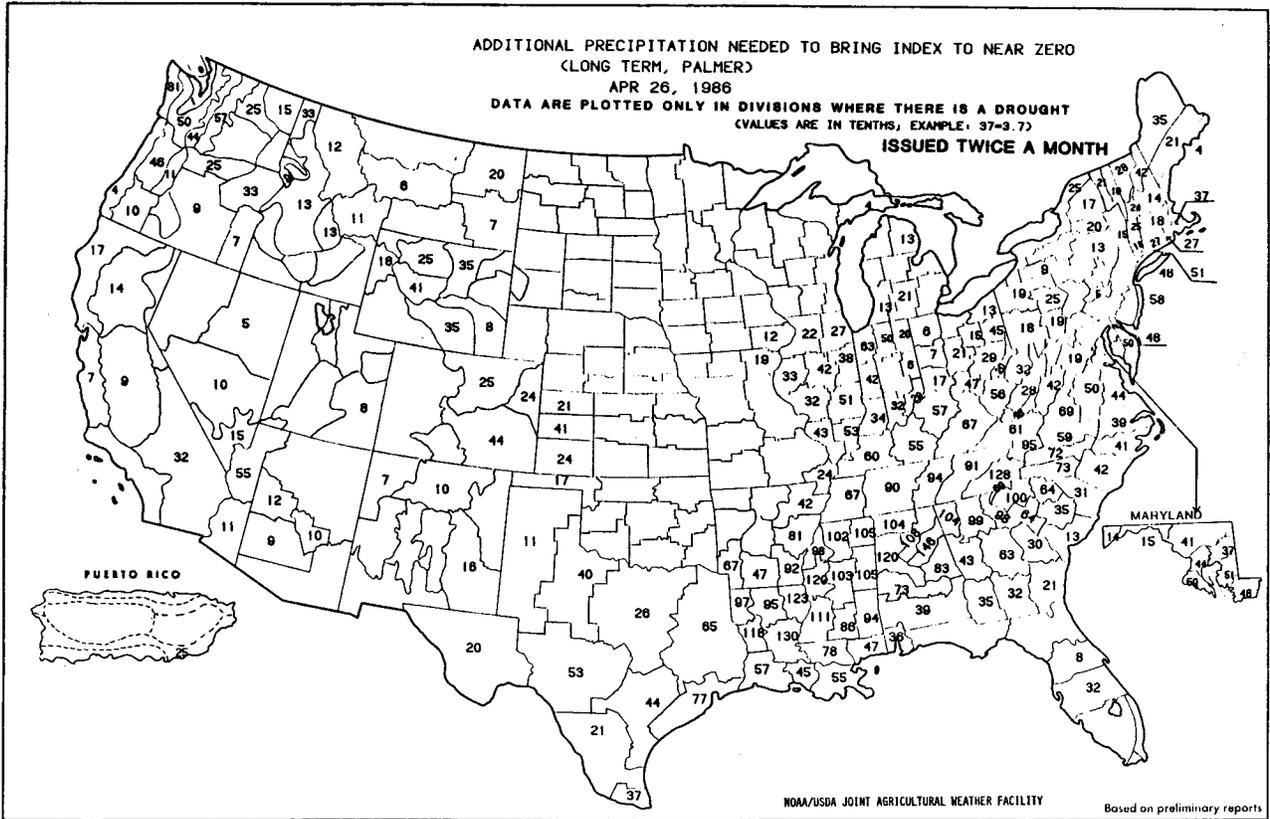
- Palmer, W.C., 1965: Meteorological Drought. Weather Bureau Research Paper No. 45, U.S. Dept. of Commerce, Washington, DC, 58pp.
- Palmer, W.C., 1968: "Keeping Track of Crop Moisture Conditions, Nationwide: The New Crop Moisture Index." *Weatherwise*, 21, 156-161pp.





Additional Precipitation Needed to Bring the
Palmer Drought Severity Index to Near Zero

A parameter derived from the calculations of the Drought Severity Index is the additional precipitation in inches needed to bring the Palmer Index to near zero. This parameter is computed for all values of the current week's index less than or equal -0.5 (the upper limit of an incipient drought) and left blank for all values greater than or equal to -0.5 . The precipitation values are theoretically the additional amounts required to end the drought the index defines in each climatic division. In using this parameter to make projections, it must be realized that these values are instantaneous, valid only for the current week. To end the drought in a given climatic division for the oncoming week, the precipitation amount listed plus near-normal rainfall must occur.



Weekly Heating/Cooling Degree Day Summaries

"Degree day" is a quantitative index demonstrated to reflect demand for energy to heat or cool houses and businesses. This index is derived from daily temperature observations at 230 major weather stations in the United States. The "heating year" during which heating degree days are accumulated extends from July 1 to June 30, and the "cooling year" during which cooling degree data are accumulated extends from January 1 to December 31. A mean daily temperature (average of the daily maximum and minimum temperatures) of 65°F is the base for both heating and cooling degree day computations. Heating degree days are summations of negative differences between the mean daily temperature and the 65°F base; cooling degree days are summations of positive differences from the same base. For example, cooling degree days for a station with daily mean temperatures during a 7-day period of 67, 62, 70, 74, 78, 65, and 68 are 2, 0, 5, 9, 13, 0, and 3 for a total for the week of 32 cooling degree days.

The following is a listing of the parameters in the table on the opposite page and their meaning.

WEEK TOTAL - summation of the daily values for the given period.

WEEK DEV FROM NORM - the difference of the period total from the normal (1951-80) period total. Negative values indicate less degree days than normal.

WEEK DEV FROM L YR - the difference of the period total from the same period the previous year.

CUM TOTAL - the accumulated degree days from the beginning of the season.

CUM DEV FROM NORM - the difference of the accumulated total from the normal accumulated.

CUM DEV FROM L YR - the difference of the accumulated total from the accumulated total of the same period the previous year.

CUM DEV FROM NORM PRCT - the ratio of the current degree days to the normal degree days expressed in percentage.

CUM DEV FROM L YR PRCT - the ratio of the current degree days to last year's degree days expressed in percentage.

Cooling Degree Day Data Weekly Summary

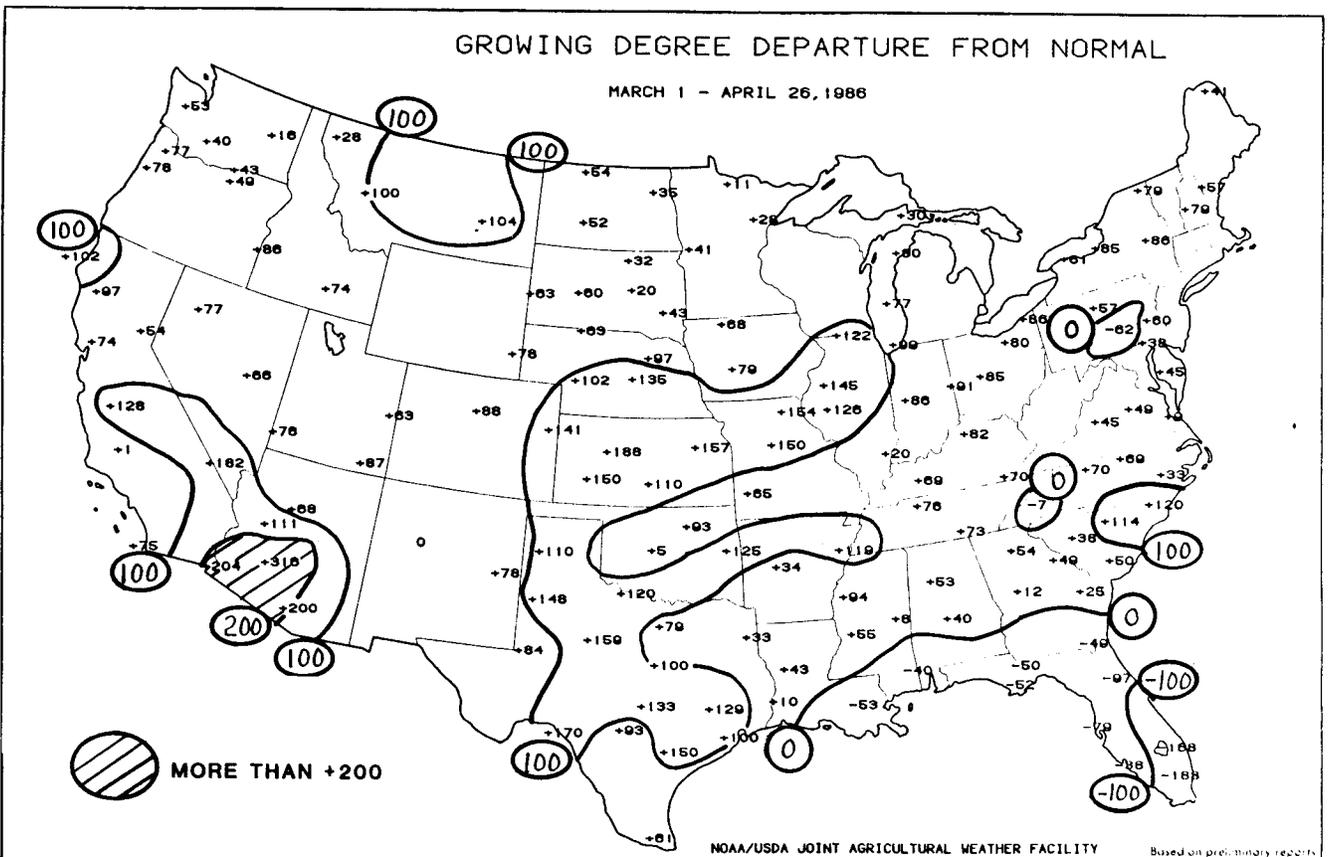
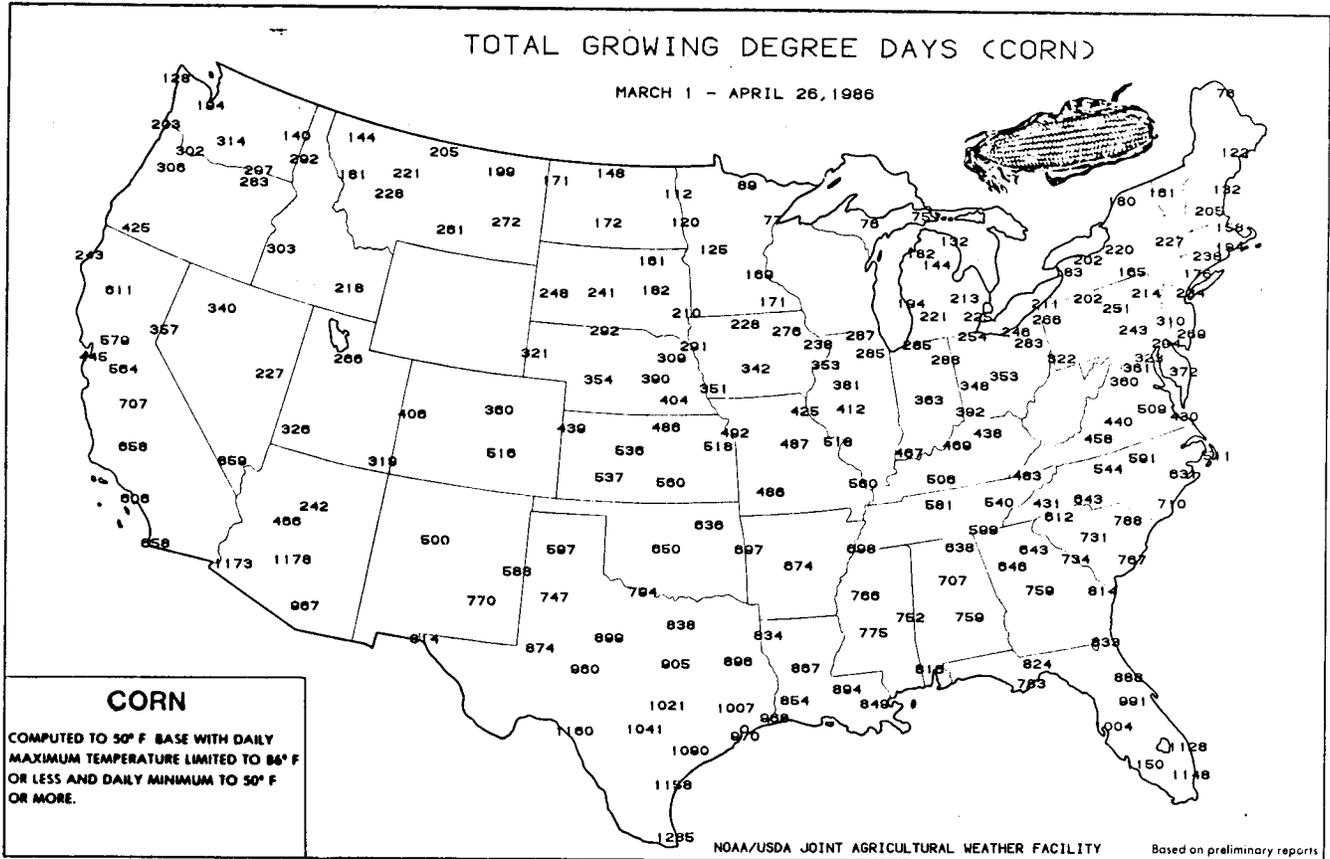
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 4-26-1986

ACCUMULATIONS ARE FROM JANUARY 1

** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM	CUM DEV FROM	CUM DEV FROM
			L YR	L YR		L YR	L YR	L YR	L YR
AL BIRMINGHAM	BHM	4	-9	-37	47	-13	-42	-44	-42
AL MOBILE	MOB	3	-37	-48	100	-77	-73	-73	-42
AL MONTGOMERY	MCM	4	-19	-52	71	-40	-62	-36	-47
AK ANCHORAGE	ANC	0	0	0	0	0	0	0	**
AK BARRROW	BRW	0	0	0	0	0	0	0	**
AK FAIRBANKS	FBI	0	0	0	0	0	0	0	**
AK JUNEAU	JNU	0	0	0	0	0	0	0	**
AK KODIAK	ADQ	0	0	0	0	0	0	0	**
AK NOME	OME	0	0	0	0	0	0	0	**
AZ FLAGSTAFF	FLG	0	0	0	0	0	0	0	**
AZ PHOENIX	PHX	193	61	62	497	311	145	167	41
AZ PRESCOTT	PRC	0	0	0	0	0	0	0	**
AZ TUCSON	TUS	62	36	46	234	133	72	132	44
AZ WINSLOW	TNW	0	0	0	0	0	0	0	**
AZ YUMA	YUM	98	39	46	524	228	128	77	32
AR FORT SMITH	FSM	12	-2	-3	47	8	-4	**	**
AR LITTLE ROCK	LML	14	0	-11	75	19	-4	**	**
CA BAKERSFIELD	BFL	20	-1	20	31	-32	-59	**	**
CA EUREKA	EKA	0	0	0	0	0	-13	**	**
CA FRESNO	FAT	24	18	21	48	17	-41	**	**
CA LOS ANGELES	LAX	11	7	5	66	29	25	**	**
CA RED BLUFF	RBL	13	-1	12	27	-8	-35	**	**
CA SACRAMENTO	SAC	8	1	8	17	-3	-4	**	**
CA SAN DIEGO	SAN	12	8	8	33	-5	5	**	**
CA SAN FRANCISCO	SFO	2	2	2	3	3	-3	**	**
CA STOCKTON	SKK	9	2	9	10	-12	-8	**	**
CO DENVER	DEN	0	0	0	0	0	-2	**	**
CO GRAND JUNCTION	GJT	0	0	0	0	0	-4	**	**
CO PUEBLO	PUB	0	0	0	1	-1	**	**	**
CT BRIDGEPORT	BDR	0	0	-5	0	0	-5	**	**
CT HARTFORD	BOL	0	0	-3	0	0	-3	**	**
DE WILMINGTON	WIL	0	0	-33	0	0	-49	**	**
DC WASHINGTON	DCA	0	0	-44	6	1	-59	**	**
FL APALACHICOLA	AQQ	6	-29	-29	100	-57	-30	-36	-23
FL DAYTONA BEACH	DAB	9	-33	-44	195	-102	-113	-34	-37
FL FORT MEYER	FMY	41	-24	-39	522	-31	-100	-6	-16
FL JACKSONVILLE	JAX	16	-14	-31	142	-21	-59	-13	-29
FL KEY WEST	KEY	69	-26	-21	798	-159	-139	-17	-15
FL MIAMI	MIA	46	-31	-25	562	-202	-133	-26	-19
FL MIAMI	MCO	17	-41	-49	306	-142	-74	-32	-19
FL ORLANDO	ORL	7	-23	-39	91	-78	-78	-46	-46
FL TALLAHASSEE	TAL	22	-34	-55	324	-160	-141	-24	-30
FL TAMPA	TPA	42	-26	-27	549	-56	-78	-9	-12
FL WEST PALM BEACH	PBI	22	-34	-55	324	-160	-141	-24	-30
GA ATLANTA	ATL	12	0	-26	60	25	-14	**	**
GA AUGUSTA	AGS	7	-6	-39	51	-1	-60	**	**
GA MACON	MGN	10	-13	-31	82	-20	-5	-20	-6
GA SAVANNAH	SAV	21	-1	-34	139	15	-35	12	-20
HI HILO-HAWAII	ITO	69	13	28	984	218	385	28	64
HI HONOLULU-ONHU	HNL	181	24	18	1188	164	175	16	17
HI KAHULUI-MAUI	OGG	75	18	24	899	28	91	3	11
HI LIHUE-KAUAI	LHI	84	21	12	941	121	50	15	6
ID BOISE	BOI	1	1	1	1	1	-1	**	**
ID LEWISTON	LWS	1	1	1	1	1	1	**	**
ID POCAATELLO	PIH	0	0	0	0	0	0	**	**
IL CHICAGO	MDI	8	-26	-15	15	15	-38	**	**
IL MOLINE	MCI	22	22	-18	34	34	-30	**	**
IL PEORIA	PIA	21	21	-10	36	36	-15	**	**
IL QUINCY	UIN	28	-7	43	43	-17	**	**	**
IL ROCKFORD	RFD	15	-12	-19	19	19	-28	**	**
IL SPRINGFIELD	SPI	20	17	-15	37	34	-24	**	**
IN EVANSVILLE	EVV	12	8	-10	20	-6	-25	**	**
IN FORT WAYNE	FWA	9	9	-22	11	11	-39	**	**
IN INDIANAPOLIS	IND	7	7	-18	13	13	-25	**	**
IN SOUTH BEND	SBN	14	14	-20	18	18	-34	**	**
IA DES MOINES	DSM	17	17	-5	28	28	-16	**	**
IA DUBUQUE	DBQ	13	-15	-15	15	-15	-31	**	**
IA SIOUX CITY	SUX	3	3	-5	5	5	-30	**	**
IA WATERLOO	ALO	13	13	-5	14	14	-27	**	**
KS CONCORDIA	CKK	15	15	9	33	33	17	**	**
KS DOGUE CITY	DCC	21	15	15	34	28	14	**	**
KS GOODLAND	GLD	3	3	3	3	3	-3	**	**
KS TOPEKA	TOP	31	27	10	62	58	17	**	**
KS WICHITA	ICT	17	17	-1	43	19	13	**	**
KY BOWLING GREEN	BNG	6	1	-11	18	-9	-18	**	**
KY LEXINGTON	LIX	9	5	-18	25	-1	-15	**	**
KY LOUISVILLE	LOF	12	7	-16	29	2	-20	**	**
LA ALEXANDRIA	AEX	13	-21	-49	162	-5	9	-3	6
LA BATON ROUGE	BTR	6	-31	-60	174	-13	-10	-7	-5
LA LAKE CHARLES	LCH	13	-24	-55	138	-52	-68	-27	-33
LA NEW ORLEANS	MSY	4	-34	-65	145	-86	-48	-37	-25
LA SHREVEPORT	SHV	6	-20	-34	129	-2	-4	-2	-3
ME CARIBOU	CRB	0	0	0	0	0	0	**	**
ME PORTLAND	PAM	0	0	0	0	0	0	**	**
MD BALTIMORE	BMI	0	0	-27	0	0	-47	**	**
MD SALISBURY	SBY	0	0	-30	0	0	-54	**	**
MA BOSTON	BOS	0	0	-4	0	0	-4	**	**
MA CHATHAM	CHH	0	0	0	0	0	0	**	**
MI ALPENA	APN	0	0	-14	0	0	-14	**	**
MI DETROIT	DTW	2	2	-15	2	2	-21	**	**
MI FLINT	FNT	4	4	-21	4	4	-24	**	**
MI GRAND RAPIDS	GRR	9	9	-18	9	9	-27	**	**
MI HOUGHTON LAKE	HLL	0	0	-22	0	0	-22	**	**
MI LANSING	LAN	5	5	-19	5	5	-27	**	**
MI MARQUETTE	MQT	0	0	-5	0	0	-5	**	**
MI MUSKOGEE	MKG	13	13	-15	13	13	-16	**	**
MI SAULT ST MARIE	SSM	0	0	0	0	0	0	**	**
MN ALEXANDRIA	AXN	0	0	0	0	0	-2	**	**
MN DULUTH	DUH	0	0	0	0	0	0	**	**
MN INT'L FALLS	INF	0	0	0	0	0	0	**	**
MN MINNEAPOLIS	MSP	0	0	-8	0	0	-22	**	**
MN ROCHESTER	RST	0	0	-9	0	0	-26	**	**
MN SAINT CLOUD	STC	0	0	-5	0	0	-9	**	**
MS GREENWOOD	GWO	8	-17	-42	108	-6	-9	-5	-8
MS JACKSON	JAN	2	-21	-45	97	-33	-18	-25	-16
MS MERIDIAN	MEI	0	-22	-46	60	-51	-59	-46	-50
MO CAPE GIRARDEAU	CGI	12	5	-16	39	22	-16	**	**
MO COLUMBIA	COU	18	14	-7	31	28	-16	**	**
MO KANSAS CITY	MCI	25	21	1	54	42	10	**	**
MO SAINT LOUIS	SLS	29	24	-8	78	69	6	**	**
MO SPRINGFIELD	SGF	11	4	-7	18	-12	-13	**	**
MT BILLINGS	BIL	2	2	2	3	3	3	**	**
MT GLASGOW	GGW	0	0	0	0	0	0	**	**
MT GREAT FALLS	GTF	0	0	0	0	0	0	**	**
MT HAVRE	HVR	0	0	0	0	0	0	**	**
MT HELENA	HLN	0	0	0	0	0	3	**	**
MT KALISPELL	KCA	0	0	0	0	0	0	**	**
MT MILES CITY	MLS	2	2	2	2	2	2	**	**
MT MISSOULA	MSS	0	0	0	0	0	0	**	**
NE GRAND ISLAND	GRI	0	0	-6	10	10	-23	**	**
NE LINCOLN	LNK	9	9	0	24	24	-6	**	**
NE NORFOLK	NFK	1	1	-5	5	5	-29	**	**
NE NORTH PLATTE	NPT	3	3	3	3	3	-11	**	**
NE OMAHA	OMA	8	4	-7	24	18	-15	**	**
NE SCOTTSBLUFF	SBF	0	0	0	0	0	-3	**	**
NE VALENTINE	VVA	4	4	4	4	4	-4	**	**
NV ELY	ELY	0	0	0	0	0	0	**	**
NV LAS VEGAS	LAS	50	24	41	160	83	36	**	**
NV RENO	RNO	0	0	0	0	0	0	**	**
NV WINNEMUCCA	WMC	0	0	0	0	0	0	**	**
NH CONCORD	CON	0	0	0	0	0	0	**	**
NJ ATLANTIC CITY	ACY	0	0	-18	0	0	-33	**	**
NM ALBUQUERQUE	ABQ	0	0	0	1	1	1	**	**
NM CLOVIS	CVS	3	-1	3	6	0	1	**	**
NM ROSWELL	ROW	28	15	20	64	28	10	**	**
NY ALBANY	ALB	0	0	-5	6	6	1	**	**
NY BINGHAMTON	BGM	0	0	-15	0	0	-15	**	**
NY BUFFALO	BUF	0	0	-16	0	0	-18	**	**
NY NEW YORK	LGA	0	0	-1	0	0	-10	**	**
NY ROCHESTER	ROC	0	0	-12	0	0	-15	**	**
NY SYRACUSE	SYR	0	0	-7	3	3	-4	**	**
NC ASHEVILLE	AVL	1	1	1	1	1	-4	**	**
NC CAPE HATTERAS	HAT	1	-3						



National Weather Data for Selected Cities

Weather Data for the Week Ending April 26, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	75	41	89	30	58	-7	.3	-.8	.3	2.8	26	5.8	28	91	28	0	1	1	0
MOBILE	78	48	83	43	63	-7	.7	-.5	.7	6.7	60	13.5	66	93	32	0	0	1	1
MONTGOMERY	76	45	86	36	60	-7	.4	-.6	.4	9.7	99	16.9	91	94	33	0	0	2	2
AK ANCHORAGE	42	30	46	28	36	-3	.2	0	.2	2.1	167	2.9	97	85	50	0	0	7	1
BARROW	5	-11	11	-21	-3	-7	.7	0	.7	.1	29	4	50	85	74	0	0	7	1
FAIRBANKS	45	26	48	15	35	-1	.1	-.1	.1	.4	62	7	44	75	35	0	0	7	0
JUNEAU	44	33	51	22	38	-3	1.0	-.3	.7	165	20.0	150	96	62	0	0	2	4	
KODIAK	42	26	47	18	34	-5	.5	-.3	.7	7.1	89	23.7	105	75	39	0	0	6	1
NOME	21	-2	25	-14	9	-12	.1	0	.1	.5	41	1.4	56	88	63	0	0	7	3
AZ PHOENIX	92	67	97	59	80	10	.1	0	.1	1.6	144	2.9	121	33	11	6	0	0	0
PRESCOTT	75	43	82	36	59	8	.1	-.1	.1	2.0	89	3.1	57	48	17	0	0	0	0
TUCSON	89	59	94	48	74	7	.1	-.1	.1	1.3	134	3.4	142	35	12	2	0	0	0
YUMA	93	64	97	60	79	6	.0	0	.0	.2	52	5	50	43	14	6	0	0	0
AR FORT SMITH	76	48	87	36	62	-2	.3	-.8	.3	8.0	107	11.8	99	91	37	0	0	0	0
LITTLE ROCK	72	51	83	41	62	-4	.1	-.2	.1	9.0	97	12.5	75	75	40	0	0	0	0
CA BAKERSFIELD	81	51	91	45	66	1	.0	-.1	.0	2.2	145	4.1	117	75	26	1	0	0	0
EUREKA	86	45	99	39	51	1	.1	-.4	.1	7.6	99	24.8	125	91	67	0	0	2	0
FRESNO	53	52	93	48	67	6	.0	-.2	.0	3.8	143	9.6	145	74	25	3	0	0	0
LOS ANGELES	71	56	86	54	64	4	.4	0	.0	5.2	199	12.9	157	87	55	0	0	0	0
RED BLUFF	76	50	87	43	63	3	.3	-.3	.3	5.8	154	19.2	166	80	28	0	0	0	0
SACRAMENTO	75	49	87	43	62	2	.0	-.3	.0	4.1	126	16.3	160	92	36	0	0	0	0
SAN DIEGO	72	57	86	55	65	3	.0	0	.0	4.2	183	7.6	129	81	47	0	0	0	0
SAN FRANCISCO	66	48	81	44	57	2	.2	-.3	.2	6.2	154	18.4	155	90	51	0	0	0	0
CO DENVER	69	44	78	35	57	7	.3	-.2	.2	2.9	106	3.8	97	74	26	0	0	2	0
GRAND JUNCTION	70	44	79	34	57	3	.1	-.1	.1	1.0	71	1.4	56	62	22	0	0	0	0
PUEBLO	77	41	85	33	59	5	.5	-.3	.5	1.0	68	1.4	70	67	16	0	0	0	0
CT BRIDGEPORT	60	45	68	38	53	1	.7	-.1	.7	3.7	53	9.7	73	76	49	0	0	1	6
HARTFORD	64	42	71	30	53	1	.8	-.1	.8	4.2	55	12.6	88	84	38	0	0	0	0
DC WASHINGTON	66	44	78	35	55	-4	.3	-.4	.2	2.7	45	8.6	75	77	37	0	0	3	1
FL APALACHICOLA	76	51	80	45	63	-6	.3	-.4	.3	2.5	36	11.7	83	93	46	0	0	1	1
DAYTONA BEACH	79	48	88	41	63	-8	.1	-.5	.1	2.3	46	10.7	103	93	31	0	0	0	0
JACKSONVILLE	80	48	90	39	64	-5	.8	0	.8	6.4	98	15.3	117	91	26	1	0	1	1
KEY WEST	79	70	83	67	75	-4	.0	-.4	.0	1.9	76	5.2	84	78	51	0	0	0	0
MIAMI	81	61	86	57	71	-5	.1	-.8	.1	11.3	256	18.0	212	80	38	0	0	0	0
ORLANDO	81	52	87	47	67	-7	.7	-.5	.7	3.1	62	12.1	121	91	25	0	0	0	0
TALLAHASSEE	80	43	91	33	62	-7	.3	-.6	.2	2.9	32	15.2	81	97	27	1	0	2	0
TAMPA	79	56	85	51	68	-6	.1	-.4	.1	5.2	104	8.9	87	86	36	0	0	0	0
WEST PALM BEACH	81	60	89	56	71	-4	.1	-.8	.1	5.6	105	13.5	126	84	39	0	0	0	0
GA ATLANTA	74	45	92	32	59	-5	.2	-.8	.2	4.7	48	8.0	42	75	27	1	1	2	1
AUGUSTA	78	41	91	30	59	-6	.2	-.5	.2	4.3	54	8.2	52	93	24	1	1	2	1
MACON	78	45	93	34	61	-6	.1	-.7	.1	3.1	37	8.8	51	87	28	1	0	1	1
SAVANNAH	79	49	90	38	64	-4	.1	-.6	.1	3.2	50	10.5	82	82	23	1	1	1	1
HI HILO	83	67	84	65	75	2	3.3	.3	1.0	55.0	219	60.4	126	93	57	0	0	0	7
HONOLULU	86	72	88	71	79	3	.3	-.3	.3	.5	9	2.0	78	79	47	0	0	0	0
KAHULUI	84	67	85	64	76	1	.0	-.2	.0	6.8	168	9.0	86	86	53	0	0	0	0
LIHUE	81	73	82	69	77	3	.1	-.6	.1	3.6	48	4.8	28	84	66	0	0	2	2
ID BOISE	64	37	83	26	51	0	.5	-.3	.4	3.4	166	8.1	169	83	31	0	0	2	2
LEWISTON	64	40	82	30	52	0	.1	-.3	.1	1.0	51	3.7	86	75	36	0	0	1	1
FOCATELLO	60	38	76	31	49	2	.6	-.3	.3	3.4	174	7.1	182	84	37	0	0	3	3
IL CHICAGO	65	39	89	24	52	1	.1	-.8	.1	2.4	41	5.4	62	82	33	0	0	3	2
MOLINE	72	43	93	28	57	4	.0	0	.0	2.4	39	5.3	58	73	31	1	1	2	0
PEORIA	71	43	92	25	57	3	.1	-.9	.1	1.3	22	3.3	36	77	27	2	2	3	1
QUINCY	72	46	92	27	59	3	.3	0	.3	1.7	27	3.9	42	74	33	1	1	1	1
ROCKFORD	70	39	90	23	54	3	.1	-.9	.1	1.9	30	5.0	56	79	27	2	2	3	1
SPRINGFIELD	70	46	90	30	58	1	.4	-.5	.4	2.5	38	4.4	44	75	34	1	1	2	2
IN EVANSVILLE	69	43	88	29	56	-4	1.5	-.5	1.1	4.7	58	11.7	83	95	47	0	0	2	2
FORT WAYNE	64	37	88	24	51	-1	.7	-.2	.6	4.9	82	8.5	84	84	42	0	0	3	2
INDIANAPOLIS	65	39	84	26	52	-4	1.4	-.6	1.4	6.5	95	10.1	85	86	46	0	0	3	2
SOUTH BEND	64	40	86	22	52	1	.3	-.6	.3	3.3	50	7.0	63	83	36	0	0	3	2
IA DES MOINES	69	45	85	26	57	3	.3	-.5	.2	5.7	116	7.6	107	78	39	0	0	1	3
SIOUX CITY	68	43	84	27	56	2	.7	-.2	.7	7.5	207	8.3	160	86	43	0	0	2	2
WATERLOO	69	42	87	20	56	5	.1	-.8	.0	3.5	65	6.2	87	86	37	0	0	1	2
KS CONCORDIA	73	47	83	32	60	4	.2	-.4	.2	3.6	96	4.9	94	78	36	0	0	1	1
DODGE CITY	79	50	87	41	65	8	1.0	-.5	1.0	2.0	68	2.5	63	78	26	0	0	1	1
GOODLAND	75	45	87	37	60	8	.1	-.2	.1	1.9	95	2.3	85	86	26	0	0	2	0
TOPEKA	73	47	87	26	60	3	.1	-.8	.1	3.7	76	5.3	78	81	38	0	0	1	0
WICHITA	76	49	88	33	62	3	.1	-.5	.1	2.7	68	3.9	71	82	38	0	0	2	2
KY BOWLING GREEN	67	42	85	29	55	-5	1.2	-.3	1.0	5.1	56	9.9	56	91	43	0	0	1	2
LEXINGTON	65	40	86	24	53	-5	.9	0	.7	3.9	47	7.0	46	85	45	0	2	2	1
LOUISVILLE	68	41	88	28	55	-4	.7	-.2	.4	3.7	45	8.5	57	84	40	0	0	1	2
LA ALEXANDRIA	76	51	84	44	64	-6	1.5	-.6	1.5	4.3	44	7.6	38	81	40	0	0	1	1
BATON ROUGE	78	51	83	46	65	-6	2.0	-.1	2.0	5.4	57	10.6	56	90	36	0	0	0	1
LAKE CHARLES	77	54	81	48	66	-4	2.0	-.9	2.0	4.7	72	8.3	57	96	40	0	0	0	1
NEW ORLEANS	77	51	81	47	64	-6	.7	-.4	.7	3.4	39	9.8	52	96	41	0	0	1	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

(Continued from front cover)

SATURDAY...Rain continued in the Northwest with snow at the higher elevations of the Cascades and Rockies. Showers and thunderstorms spread throughout the Plains from the Texas Panhandle to Montana and the upper Mississippi Valley.

Thunderstorms caused severe weather including tornadoes, high wind, hail, and heavy rain from western Oklahoma to the upper Mississippi Valley and in parts of the Dakotas. Early-morning temperatures were quite cold over the Plateau Region and parts of the Rockies, but unusually warm weather prevailed in the East.

Weather Data for the Week Ending April 26, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	76	50	82	45	63	-4	T	-1.1	T	3.7	47	7.7	50	94	35	0	0	0	0
ME CARIBOU	57	39	65	27	48	-7	T	-1.1	T	4.6	97	10.6	115	87	57	0	0	0	0
PORTLAND	59	42	65	27	51	-5	T	-1.2	T	7.7	104	16.9	114	94	53	0	1	4	0
MD BALTIMORE	64	42	79	36	53	-4	T	-1.6	T	3.6	54	9.4	75	78	37	0	0	0	0
SALISBURY	65	40	74	33	53	-4	T	-1.3	T	2.6	38	10.6	78	92	42	0	0	2	0
MA BOSTON	57	45	62	38	51	0	T	-1.2	T	5.0	67	11.2	74	91	63	0	0	5	0
CHATHAM	52	42	62	39	47	0	T	-1.3	T	4.9	66	10.5	66	—	—	0	0	6	1
MI ALPENA	59	34	75	18	46	3	T	-1.1	T	4.1	102	6.2	87	87	35	0	3	2	0
DETROIT	61	37	79	23	49	-1	T	-1.5	T	4.7	89	9.5	108	83	42	0	3	3	0
FLINT	62	37	82	22	49	0	T	-1.2	T	3.9	82	6.8	87	80	40	0	3	3	0
GRAND RAPIDS	64	38	85	20	51	1	T	-1.8	T	4.6	82	9.0	100	80	35	0	3	3	1
HOUGHTON LAKE	61	36	80	21	49	3	T	-1.5	T	2.9	70	5.7	83	75	36	0	3	3	0
LANSING	62	37	81	22	50	0	T	-1.2	T	2.9	62	6.4	80	81	39	0	3	3	0
MARQUETTE	55	31	76	14	43	2	T	-1.2	T	6.8	115	11.0	112	90	45	0	4	2	0
MUSKEGON	62	39	84	19	50	2	T	-1.5	T	3.2	61	6.9	74	73	35	0	3	3	0
SAULT STE. MARIE	58	32	72	20	45	3	T	-1.6	T	5.2	128	7.8	98	90	30	0	3	3	0
MN ALEXANDRIA	58	36	75	27	47	3	T	-1.5	T	6.1	200	8.2	178	91	43	0	3	3	1
DULUTH	54	32	71	18	43	1	T	-1.5	T	3.1	84	4.4	77	87	43	0	3	4	1
INT'L FALLS	55	33	74	20	44	2	T	-1.9	T	1.6	65	3.2	78	86	39	0	3	3	1
MINNEAPOLIS	62	40	75	27	51	1	T	-1.9	T	5.3	153	7.0	137	83	41	0	2	3	1
ROCHESTER	64	38	79	22	51	3	T	-1.3	T	4.4	113	5.6	106	86	44	0	2	1	0
MS GREENWOOD	74	47	83	38	61	-6	T	-1.1	T	4.3	39	6.3	30	90	35	0	0	1	0
JACKSON	76	44	83	36	60	-7	T	-1.1	T	5.0	46	7.3	36	96	34	0	0	0	0
MERIDIAN	76	42	84	33	59	-8	T	-1.1	T	5.3	46	8.6	41	98	31	0	0	1	1
MO CAPE GIRARDEAU	71	47	87	34	59	-1	T	-1.3	T	6.1	69	9.9	66	88	47	0	0	2	1
COLUMBIA	72	45	89	29	58	-8	T	-1.8	T	3.1	48	7.3	74	81	35	0	1	1	0
KANSAS CITY	72	47	85	25	60	2	T	-1.8	T	3.0	59	4.3	58	75	40	0	2	1	0
SAINT LOUIS	72	48	92	32	60	2	T	-1.2	T	2.3	36	7.1	70	75	34	1	1	2	0
SPRINGFIELD	70	45	83	30	58	-1	T	-1.7	T	5.5	79	7.5	70	81	42	0	1	1	0
MT BILLINGS	59	42	80	32	51	3	T	-1.6	T	3.6	134	5.7	130	83	50	0	1	4	0
GLASGOW	60	39	80	30	50	3	T	-1.2	T	1.7	64	1.6	80	87	42	0	1	1	0
GREAT FALLS	58	39	75	32	49	3	T	-1.5	T	2.9	132	4.2	108	83	42	0	1	4	2
HAVRE	60	39	77	31	49	3	T	-1.3	T	1.5	31	1.5	63	85	43	0	3	1	0
HELENA	59	40	75	32	50	4	T	-1.1	T	3.0	96	3.0	115	80	35	0	2	4	0
KALISPELL	57	37	72	22	47	2	T	-1.2	T	1.8	48	4.9	111	85	41	0	1	2	0
MILES CITY	60	42	84	33	51	3	T	-1.1	T	1.3	74	2.4	83	84	50	0	0	4	0
MISSOULA	58	36	77	27	47	1	T	-1.3	T	1.0	60	4.1	105	90	42	0	2	3	0
NE GRAND ISLAND	71	43	86	32	57	4	T	-1.4	T	3.9	104	4.4	86	87	35	0	2	1	0
LINCOLN	71	44	83	26	57	3	T	-1.6	T	6.7	156	7.3	122	84	40	0	2	1	2
NORFOLK	68	42	83	27	55	3	T	-1.5	T	5.8	172	7.0	149	85	40	0	2	2	0
NORTH FLATTE	71	42	85	32	56	6	T	-1.4	T	3.7	139	4.8	133	89	35	0	2	2	0
OMAHA	68	46	83	33	57	3	T	-1.1	T	8.1	188	9.1	152	80	48	0	0	3	1
SCOTT'SBLUFF	68	42	81	37	55	6	T	-1.5	T	3.2	149	5.2	173	90	39	0	0	3	0
VALENTINE	66	38	87	23	52	3	T	-1.4	T	3.7	157	4.4	142	81	39	0	2	3	0
NV ELY	61	32	76	23	47	4	T	-1.2	T	2.9	174	4.0	129	88	36	0	4	3	0
LAS VEGAS	84	59	92	52	72	6	T	0	T	1.7	71	1.8	50	29	13	2	0	0	0
RENO	68	39	82	33	53	5	T	-1.1	T	1.7	147	6.9	209	73	24	0	0	0	0
WINNEMUCCA	66	36	83	28	51	3	T	-1.2	T	1.1	76	2.2	73	80	23	0	2	1	0
NH CONCORD	64	42	71	25	53	6	T	-1.3	T	5.4	98	12.6	117	95	38	0	1	5	0
NJ ATLANTIC CITY	60	39	71	32	50	-3	T	-1.5	T	6.4	93	13.6	99	90	49	0	2	3	0
NM ALBUQUERQUE	75	47	82	41	61	4	T	0	T	1.5	59	1.7	100	53	18	0	0	2	0
CLOVIS	78	47	83	37	62	3	T	-1.2	T	1.3	25	1.6	70	70	21	0	0	1	0
ROSWELL	84	50	88	37	67	3	T	-1.1	T	1.4	77	1.6	145	49	14	0	0	0	0
NY ALBANY	63	40	73	31	51	2	T	-1.3	T	5.2	94	11.4	112	83	37	0	1	3	0
BINGHAMTON	58	37	70	27	48	0	T	-1.4	T	6.0	106	12.1	115	76	42	0	3	4	0
BUFFALO	59	36	75	27	47	-1	T	-1.9	T	5.3	94	10.2	92	85	40	0	3	3	1
NEW YORK	60	46	69	36	53	-1	T	-1.2	T	5.6	75	12.8	94	89	49	0	3	4	0
ROCHESTER	60	37	71	28	48	-1	T	-1.4	T	5.7	117	9.8	103	86	41	0	3	2	0
SYRACUSE	61	37	76	30	49	0	T	-1.7	T	6.2	103	10.8	96	82	43	0	3	2	0
NC ASHEVILLE	67	38	85	29	52	-6	T	-1.3	T	3.3	39	6.3	40	82	30	0	2	3	0
CHARLOTTE	74	46	86	35	60	-2	T	-1.1	T	4.2	55	6.2	41	77	23	0	0	3	0
GREENSBORO	72	42	85	27	57	-4	T	-1.4	T	2.6	38	4.9	36	84	27	0	2	3	0
HATTERAS	67	46	74	38	57	-5	T	-1.1	T	3.1	46	10.2	65	94	44	0	0	2	0
NEW BERN	74	44	82	38	59	-5	T	-1.7	T	4.6	74	9.6	68	83	29	0	0	1	0
RALEIGH	73	43	84	31	58	-4	T	-1.6	T	4.1	66	7.7	58	88	25	0	1	2	1
WILMINGTON	75	47	86	37	61	-4	T	-1.7	T	4.6	69	9.2	67	82	28	0	0	1	0
ND BISMARCK	58	37	79	30	47	1	T	-1.4	T	3.7	186	4.3	148	84	45	0	2	2	0
FARGO	53	36	77	26	45	-2	T	-1.2	T	4.7	192	5.8	171	88	55	0	3	2	1
GRAND FORKS	53	34	78	23	44	-1	T	-1.9	T	1.6	83	2.5	78	85	44	0	3	4	1
WILLISTON	58	35	81	29	46	1	T	-1.1	T	3.4	202	4.3	159	90	48	0	2	2	0
OH AKRON-CANTON	60	38	80	24	49	-2	T	-1.7	T	3.9	63	8.4	77	84	47	0	3	3	0
CINCINNATI	65	39	87	23	52	-5	T	-1.1	T	4.6	66	8.5	66	85	44	0	3	2	1
CLEVELAND	59	38	76	27	48	-3	T	-1.4	T	5.7	97	11.0	105	79	47	0	3	3	1
COLUMBUS	63	38	86	23	50	-4	T	-1.6	T	3.9	63	8.4	76	90	47	0	3	4	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending April 26, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 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	PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	63	39	88	26	51	-3	1.3	.5	1.2	6.5	107	11.8	110	84	46	0	3	2	1
TOLEDO	61	36	82	21	49	-2	.6	-.1	.6	4.5	86	8.0	88	86	45	0	3	2	1
YOUNGSTOWN	60	37	80	25	48	-.2	.6	-.2	.3	3.3	52	6.3	56	79	46	0	3	2	0
OK OKLAHOMA CITY	76	54	85	44	65	0	.3	-.8	.2	5.2	116	5.8	87	81	41	0	0	0	0
TULSA	75	53	84	37	64	.2	.2	-.9	.2	6.8	101	8.0	82	83	41	0	0	1	1
OR ASTORIA	55	41	66	31	48	-1	1.4	.4	.6	8.7	76	29.3	96	93	63	0	0	0	2
BURNS	60	28	80	20	44	-2	1	-.1	T	1.4	155	6.2	344	—	—	0	6	4	2
MEDFORD	67	38	88	30	53	0	.1	-.1	.1	1.2	45	8.5	102	89	35	0	3	3	0
PENDLETON	64	40	81	30	52	0	.1	-.2	0	1.5	79	5.7	121	74	31	0	1	3	0
PORTLAND	60	41	78	34	51	-1	.6	-.1	.3	4.0	71	14.0	89	92	49	0	0	4	0
SALEM	61	38	78	28	50	-1	.3	-.2	.2	3.7	57	18.2	101	95	47	0	2	4	0
PA ALLENTOWN	62	40	73	32	51	-2	.6	-.3	.3	6.4	87	14.9	109	88	46	0	2	2	0
ERIE	58	39	73	30	48	-.4	.5	-.4	.3	5.0	83	10.0	94	85	48	0	3	3	0
HARRISBURG	62	41	72	36	51	-.4	1	-.4	.3	7.2	115	13.9	117	75	37	0	0	2	0
PHILADELPHIA	65	42	74	34	54	-.2	.5	-.3	.3	5.7	83	13.2	102	82	44	0	3	4	0
PITTSBURGH	61	39	81	29	50	-3	.5	-.2	.2	3.1	48	9.0	77	73	36	0	3	3	0
SCRANTON	60	37	72	28	49	-2	.8	-.1	.4	7.2	138	12.4	129	76	41	0	0	3	0
RI PROVIDENCE	61	45	68	37	53	-3	1.2	.3	.6	4.8	62	13.9	90	91	52	0	.3	6	1
SC CHARLESTON	77	50	87	40	63	-3	.2	-.4	.2	3.5	53	9.6	72	89	28	0	0	1	0
COLUMBIA	77	43	90	30	60	-6	.1	-.7	.1	3.6	43	6.1	37	86	19	1	1	1	0
FLORENCE	77	45	90	35	61	-5	.2	-.4	.2	3.7	55	5.9	43	78	23	1	1	2	0
GREENVILLE	74	43	88	31	58	-2	.2	-.7	.2	3.5	36	6.1	33	79	25	0	-.7	2	0
SD ABERDEEN	57	37	84	26	47	-1	1.7	1.2	1.5	7.4	278	8.4	221	90	50	0	3	3	0
HURON	58	39	78	30	48	-2	.6	-.1	.4	6.2	214	7.1	173	92	57	0	2	3	0
RAPID CITY	62	39	83	32	50	2	1.7	1.2	1.3	5.7	212	7.1	192	91	51	0	1	4	1
SIOUX FALLS	63	41	76	29	52	3	.6	0	.6	6.1	170	6.9	138	88	47	0	2	3	1
TN CHATTANOOGA	73	44	91	33	58	-4	.5	-.5	.3	2.6	25	7.2	36	96	35	1	0	2	0
KNOXVILLE	70	40	89	26	55	-5	.5	-.3	.5	3.5	39	8.4	47	88	31	0	2	2	0
MEMPHIS	72	49	83	38	61	-5	.5	-.9	.4	5.6	53	8.6	44	85	42	0	0	2	0
NASHVILLE	71	43	88	31	57	-5	.4	-.6	-.2	2.8	29	6.6	37	86	38	0	1	2	0
TX ABILENE	84	57	90	42	71	3	0	-.6	T	1.2	39	2.7	54	73	28	1	0	0	0
AMARILLO	81	49	88	36	65	6	T	-.3	T	.8	45	1.8	64	75	20	0	0	0	0
AUSTIN	85	58	87	54	71	1	0	-.8	T	.9	21	2.5	30	83	32	0	0	1	1
BEAUMONT	80	54	84	49	67	-4	.7	-.4	.7	3.7	58	6.6	46	95	39	0	0	0	0
BROWNSVILLE	84	62	86	53	73	-3	.9	-.4	.9	.9	46	2.1	46	96	48	0	0	1	1
CORPUS CHRISTI	83	61	88	53	72	-2	.4	-.2	-.4	.7	26	3.4	60	93	45	0	0	1	0
DEL RIO	86	63	91	57	75	1	1	-.5	T	.6	29	2.5	69	64	27	1	0	0	0
EL PASO	85	53	89	37	69	3	0	0	0	.4	83	.8	62	41	13	0	0	0	0
FORT WORTH	78	56	83	49	67	-1	.3	-.9	0	5.2	94	7.6	84	84	40	0	0	0	0
GALVESTON	76	64	84	60	70	-1	T	-.7	T	1.9	44	4.3	45	79	45	0	0	0	0
HOUSTON	80	57	85	50	69	-2	T	-1.1	T	2.8	45	6.3	50	87	42	0	0	1	0
LUBBOCK	84	52	90	38	68	6	T	-.3	T	.7	40	1.6	59	80	20	2	0	0	0
MIDLAND	87	54	90	38	70	4	T	-.2	T	3	.4	18	82	20	3	0	1	0	0
SAN ANGELO	86	56	89	44	71	3	T	-.5	T	.6	26	1.5	41	73	25	0	0	0	0
SAN ANTONIO	84	60	86	53	72	1	T	-.7	T	.7	18	4.0	57	79	35	0	0	0	0
VICTORIA	84	60	90	56	72	-1	T	-.7	T	1.4	40	3.0	39	91	35	1	0	0	0
WACO	82	56	88	47	69	0	T	-1.0	T	2.5	48	7.0	79	86	37	0	0	0	0
WICHITA FALLS	82	57	89	45	69	3	T	-.8	T	3.4	78	4.5	73	77	33	0	0	1	0
UT BLANDING	68	40	79	33	54	4	T	-.1	T	2.4	169	4.0	108	77	34	0	0	2	0
CEDAR CITY	68	38	75	26	53	4	.1	-.1	.1	2.6	133	3.3	97	76	23	0	2	1	0
SALT LAKE CITY	60	42	80	31	51	-1	1.1	.6	.7	6.6	179	8.7	138	90	48	0	1	3	1
VT BURLINGTON	61	37	71	27	49	3	.3	-.4	.2	4.0	86	9.3	113	82	38	0	3	2	0
VA NORFOLK	68	44	80	39	56	-4	1.0	.3	.9	2.6	41	7.8	59	88	40	0	0	0	1
RICHMOND	72	44	85	35	58	-2	.2	-.5	.1	2.3	38	7.7	62	79	33	0	0	2	0
ROANOKE	70	43	86	33	57	-2	.5	-.3	.3	3.0	47	6.8	55	77	29	0	0	3	1
WA COLVILLE	55	36	67	28	46	-3	1.3	1.1	.8	4.4	207	9.7	167	94	62	0	3	4	1
QUILLAYUTE	50	40	53	31	45	-2	3.1	1.7	1.1	18.1	103	46.8	104	96	71	0	0	6	3
SEATTLE-TACOMA	54	41	69	35	48	-3	.3	-.2	.2	3.8	67	16.8	105	90	58	0	1	5	0
SPOKANE	58	36	74	27	47	-1	.3	0	.2	2.4	106	7.5	117	89	41	0	3	4	0
YAKIMA	63	34	83	24	49	-2	T	-.1	T	.6	53	3.7	112	82	31	0	3	0	0
WV BECKLEY	62	38	79	24	50	-4	1.4	.6	.9	4.3	59	8.5	61	82	33	0	3	5	1
CHARLESTON	67	41	85	29	54	-4	.8	0	.3	3.3	46	9.7	71	88	33	0	2	5	0
HUNTINGTON	67	41	90	26	54	-4	.7	-.1	-.4	2.5	35	7.4	56	84	34	1	3	2	0
PARKERSBURG	64	40	84	28	52	-.7	.7	-.1	.4	3.8	55	8.9	65	94	42	0	3	5	0
WI GREEN BAY	63	37	82	24	50	3	.2	-.5	.2	4.6	109	6.0	94	83	30	0	3	1	1
LA CROSSE	67	43	82	23	55	4	1.4	.6	1.3	4.8	104	6.1	95	76	35	0	2	2	1
MADISON	66	38	83	19	52	3	.5	-.3	.2	3.6	74	7.3	104	82	33	0	3	3	0
MILWAUKEE	59	38	83	27	49	1	.4	-.4	.1	3.4	61	8.2	96	85	44	0	3	3	0
WAUSAU	62	38	79	20	50	3	.5	-.2	.4	4.3	98	5.6	90	81	33	0	2	4	0
WY CASPER	65	37	78	31	51	6	.3	-.1	.2	2.4	107	3.7	112	91	32	0	1	3	0
CHEYENNE	62	39	74	32	50	6	.2	-.2	.1	2.7	135	3.3	118	89	34	0	0	3	0
LANDER	63	38	76	33	51	6	.3	-.3	.2	2.6	88	4.0	98	88	37	0	0	3	0
SHERIDAN	61	41	83	34	51	5	.0	-.1	.2	1.9	68	3.7	88	90	47	0	0	3	0
PR SAN JUAN	86	72	89	70	79	0	.4	-.6	.4	5.7	106	9.0	87	95	60	0	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

National Agricultural Summary

April 21 to 27, 1986

HIGHLIGHTS: Freezing temperatures slowed planting and small crop growth, prevented germination, and damaged fruit crops in the Pacific Northwest, the central and northern Great Plains, the Corn Belt, and from the Northeast, as far south as north Georgia. Damage to small grains was not expected to be heavy, but some fruit crops were damaged severely in some areas. Soil moisture continued short in the Southeast and in some Delta and Appalachian States. Elsewhere, soil moisture was mostly adequate. Farmers worked 4 to 6 days in most areas. Precipitation held fieldwork to 3 days or less in Ohio, Minnesota, South Dakota, and Pennsylvania.

Winter wheat was mostly fair to good except in the Rockies, central and northern Plains, and in the southwest where conditions were mostly good. Insufficient moisture plagued wheat in the Southeast and in Texas. Winter wheat was 31 percent (%) headed, compared with 13% last year and normal. Spring wheat was 22% seeded, 13 points behind normal. Seeding continued behind normal in Minnesota, North Dakota, and South Dakota. Corn seeding was 5 points ahead of normal at 16% finished. Planting was underway in all major producing States except South Dakota and Wisconsin. Sorghum progressed to 25% seeded, 3 points ahead of the average. Cotton producers seeded 28% of the acreage, compared with 30% in 1984 and 27% normally. Dryness hampered seeding in the Southeast. Rice was 56% seeded, 18 points ahead of normal. Seeding was underway in California. Soybeans were planted in Pennsylvania, Mississippi, Georgia, Ohio, Missouri, and in Virginia. Livestock was mostly good, but freezing temperatures adversely affected livestock in some States.

SMALL GRAINS: Small grains and wheat were mostly fair to good except in the Rockies, central and northern Plains, and in the Southwest where conditions were mostly good. Conditions continued deteriorating in the Southeast and in Texas from the lack of moisture. Freezing temperatures slowed growth and development across the Corn Belt, the central and northern Plains, and in the Pacific Northwest. The cold temperatures caused varying degrees of damage, but damage is not expected to be extremely severe. Wheat was 31% headed in the 20 major producing States, surpassing last year and average by 18 points. Heading was ahead of or equaled the normal pace in nearly all States.

Nebraska's wheat was mostly good to fair. Producers expressed concern about freeze damage with the extent limited to leafkill thus far. Wheat freeze damage was mostly light in Kansas. Soil-borne and streak mosaic disease were present in most areas. Despite the lack of moisture wheat development was ahead of normal.

Wheat was mostly good to fair in Oklahoma. Heads were forming on 85% of the acreage which was about 2 weeks ahead of average. The major producing areas need rain and cool weather. Rust and streak mosaic disease continued spreading. In Texas, most wheat and small grains suffered from the lack of moisture. Irrigated fields looked good. Some harvesting was underway in south Texas.

Spring wheat planting was up 8 points from the previous week but lagged 13 points below the average 35% seeded. In North Dakota, seeding surged 5 points to 10% completion, but normally 23% of the acreage would have been seeded by this time. Minnesota's spring wheat seeding lagged 26 points behind normal. Most fields intended for spring wheat were still too wet to plant. Seeding

was nearly 3 times slower than normal at 19% completion in South Dakota.

CORN: In the 17 major producing States, corn was 16% seeded, 4 points ahead of normal. Planting neared completion in the Southeast. Insufficient moisture impeded planting in the Southeast and in the Appalachian States. Planting was underway in all major States except South Dakota and Wisconsin.

SORGHUM: The 11 major sorghum producing States seeded one-fourth of their acreage. Normally, 22% would have been seeded. Plantings were 4 points ahead of normal in Texas. Some producers await additional moisture to begin planting. Louisiana producers seeded 65% of the acreage, compared with 49% average. Planting was ahead of normal in all southern States.

COTTON: Cotton was 28% seeded in the 14 major producing States, a little behind 1984 but 1 point in front of normal. Seeding outpaced the average in all States except California, Georgia, and South Carolina. Seeding was underway in all States except Oklahoma.

OTHER CROPS: Soybeans were planted as far north as Pennsylvania. Seeding was just beginning in Georgia, Mississippi, Ohio, and Virginia. Missouri soybean acreage was 3% seeded, compared with 2% normally.

Rice jumped from 42% seeded last week to 56%, which was 18 points ahead of normal. Seeding was almost finished in Mississippi and Texas, and just beginning in California.

Peanuts were planted in all major producing States except Oklahoma and Virginia. Seeding lagged behind normal in Georgia and Texas.

Tobacco transplanting was active in the southeast. Transplanting was complete in Florida, 96% complete in Georgia and 79% complete in South Carolina. Freezing temperatures may have damaged young plants in the burley States.

FRUIT AND NUTS: Early in the week peaches and other fruit crops were subjected to freezing temperatures from north Georgia through the Northeast and from Kansas through the Corn Belt into the northern Plains. Damage ranged from severe to very light.

Dryness caused Florida citrus trees to shed excessive green fruit. Irrigated moisture provided good tree condition, but more rain is needed. Valencia harvest was active, but grapefruit movement slowed.

In Texas, peach tree fruit set was light in most areas. Growers continued spraying, but insect damage has been heavy in some areas of the Hill Country. Hail damaged some peaches in east Texas. Pecans were blooming in most areas of the State, and some early varieties were setting nuts in southern areas.

Nectarines and peaches were thinned in California. Cherry harvested started and early Coachella Valley grape harvest got underway. Heavy cullage continued in Navel oranges. Valencia harvest progressed well despite wetness. Citrus and peach harvest continued in Arizona. Grapes look good. Apples were sprayed and thinned in southeastern areas.

VEGETABLES: Florida's vegetable areas received little or no rain during the week. Vegetable harvest increased in the Pompano, southwest, and central areas. Shipments increased due to higher volume of carrots, sweet corn, eggplant, potatoes, squash, tomatoes, and watermelons.

(Continued to back cover)

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 3 to 7° below normal. Rainfall totals under 0.20 in.

Days suitable for fieldwork 6.6. Soil moisture 98% short, 2% adequate. Fieldwork progress on schedule. Dry weather continued to hamper plants growth. Primary activities: Planting corn, cotton, peanuts, sorghum; land preparation; fertilizer, lime application; machinery repair; care of livestock and poultry; general farm chores.

ARIZONA: Warm, dry, windy conditions south; partly cloudy north. Weak disturbances eastern two-thirds on 23rd, 25th. Precipitation from traces to 0.02 in. Averages temperatures 3 to 10° above normal.

Wheat 100% jointing, 99% 1985; 95% heading, 92% 1985; 25% turning color, 35% 1985. Poco variety barley combined. Barley, wheat good to excellent. Cotton planting continued, emerged stands good. High winds west, central depleting soil moisture. Irrigation took place. First, second cutting alfalfa advanced. Most cuttings average or better. Weeds, insects light to moderate. Corn progressing. Emerged stands west, central maturing rapidly. Seedbed preparation continued southeast. Sorghum fieldwork advanced. Winter lettuce harvest virtually completed. Cauliflower finished. Artichokes shipped Parker-Poston. Mixed vegetables shipped Salt River Valley. Potato digging continued. Spring onions clipped. Citrus, peach harvests continued. Grapes look good. Apple spraying, thinning continued southeast.

ARKANSAS: Temperature ranged 1 to 4° below normal. Temperature extremes 30°; 89°. Rainfall none to 0.77 in.

Days suitable for fieldwork 5.0. Soil moisture 91% adequate, 9% surplus. Disease, insect damage to wheat evident. Rice, sorghum good. Pastures providing average feed supplies. Livestock good. Flies, ticks major problem. Few reports of fescue toxicity.

CALIFORNIA: Above normal temperatures early week gave way to cooling trend by midweek. Scattered showers seen northern mountains, upper Sacramento Valley week's end.

Excellent weather, farmers active in fields. Small grains developed well. Most winter wheat, barley, oats, headed out. Desert grains approaching harvest. Green chopped small grains, baled oat hay. Cotton planting progressed. Emerged cotton fields cultivated, sprayed. Rice planting just started. Alfalfa fields showed good growth, some cut hay. Sugarbeet harvest full swing. Corn, sunflower, safflower planted throughout State. Rice, cotton good to excellent. Rice 50% good to 50% excellent. Cherry harvest started. Very early Coachella Valley grapes harvested. Nectarines, peaches thinned. Prune crop variable. Central Valley 1986-87 Navel bloom complete. Heavy cullage 1985-86 harvest, volume decreased. Valencia harvest progressed well, despite wet conditions. Light almond crop expected. Artichokes moderate variable quality Salinas. Asparagus harvest Huron District wound down prices good. Bell pepper harvest picking up Coachella Valley. Broccoli moderate both Salinas, Santa Maria, variable quality. Carrot digging steady Kern-Tulare, Imperial-Coachella Valleys; less than jumbo sizes. Cauliflower moderate Salinas, light Santa Maria, variable quality. Celery harvest active south coast, planting continued central coast. Sweet corn volume

continued, picked-up normal quality Coachella Valley. Cucumber harvest continued Fresno. Lettuce fairly heavy Salinas, wide range quality, appearance, size. Santa Maria lettuce moderate, variable quality. Lettuce central San Joaquin light, most shippers finished. Melons planted Merced-Atwater. Plantings Fresno very good growth. Planting onions for dehydration nearly complete Tulalake-Butte Valley. Red onions Fresno being cured. Harvest Imperial Valley picked up excellent quality, grading held back, market demand problems. Freezer pea harvest full swing Merced-Atwater. Fall potato movement Tulalake-Butte Valley continued. Strawberry picking active Modesto-Turlock. Sweetpotato planting started Selma District, Merced-Atwater. Ground fumigation continued Modesto-Turlock. Tomatoes planted, sprayed for flea beetles, Merced-Atwater. Fields Westside heavy flowering. Range, pasture good to excellent. Livestock beginning movement summer pastures some areas.

COLORADO: Temperatures averaged 1 to 7° above normal. Precipitation totals averaged none to 0.37 in.

Days suitable for fieldwork 5.8. Soil moisture 17% very short, 21% short, 58% adequate, 4% surplus. Winter wheat developing rapidly, fair to good. Russian wheat aphid infestation 4 southeastern counties. Barley 75% seeded, 76% 1985, 70% avg.; 52% emerged, 40% 1985, 37% avg. Oats seeded 70%, 64% 1985, 61% avg. Livestock good; range, pasture fair to good. Calving, lambing progress ahead of normal.

FLORIDA: Few showers 21st, 22nd with cold front followed by record cold minimums statewide 23rd through 25th; rapid warmup, near record warmth topped 90° many locations 27th. Midweek minimum dipped into 30s north with 40s central, south. Temperatures averaged 8° below normal north, 6° below central, 3° below south. Rain amounts averaged 0.25 in. north, less than 0.10 in. central, south.

Soil moisture short to very short. Corn progress slowed by cool dry weather. Tobacco irrigation active. Spring crops planting delayed. Hessian fly spotted scattered wheat fields. Sugarcane growth slowed by cool temperatures. Cool, dry winds impeded pastures; some drought, Panhandle; some north, central conditions very poor, poor to fair elsewhere except good extreme south. Panhandle cattle getting extra feed, condition mostly fair; mostly fair to good elsewhere. Citrus groves dry, rain needed, everyone irrigating, supplemental moisture providing good tree condition, trees dropping excessive green fruit. Valencia harvest active, grapefruit movement slowed. Temple harvest all but complete, caretakers post bloom spraying. Late season cold front midweek. Lows 40s to 50s, highs 70s to 80s over vegetable producing areas. Little or no rain during week. Most areas becoming very dry. Winds mostly light to moderate. Acreage, harvest active most crops. Pompano, southwest, increasing central areas. Dade County season ending. Shipments increased due to higher volume of carrots, sweet corn, eggplant, potatoes, squash, tomatoes, watermelons offsetting decreases in snap beans, cabbage, celery, cucumbers, escarole, lettuce, peppers, radishes, strawberries.

GEORGIA: Temperatures 3 to 6° below normal. Range from 20s and 30s to 90s. Record cold as far

south as Savannah. Rain only one day, most totals under 0.25 in., many areas less than 0.10 in.

Days suitable for fieldwork 5.9. Soil moisture 66% very short, 32% short, 2% adequate. Sorghum grain 3% very poor, 18% poor, 61% fair, 18% good; 17% planted, 29% 1985, 13% avg. Peanuts 42% poor, 45% fair, 13% good; 14% planted, 40% 1985, 16% avg. Soybeans 29% poor, 65% fair, 6% good; 1% planted, 6% 1985, 1% avg. Tobacco 18% poor, 61% fair, 21% good; 96% transplanted, 99% 1985, 91% avg. Watermelons 2% very poor, 15% poor, 72% fair, 11% good; 88% planted, 96% 1985, 88% avg. Rye 1% very poor, 18% poor, 60% fair, 21% good. Other small grains 2% very poor, 16% poor, 61% fair, 21% good. Apples 5% poor, 56% fair, 36% good, 3% excellent; 99% blooming, 100% 1985, 88% avg. Peaches 2% very poor, 12% poor, 54% fair, 32% good. Pasture 4% very poor, 31% poor, 49% fair, 16% good. Cattle 5% poor, 50% fair, 44% good, 1% excellent. Hogs 3% poor, 36% fair, 58% good, 3% excellent. Main activities: Planting, land preparation where soil moisture permitted; assessing frost damage; irrigation and cultivation of emerged crops.

HAWAII: High pressure system north of State responsible for northeast winds 15 to 25 mph. Showers windward, mountain areas. Temperatures ranged mid 60s to high 80s. Rainfall ranged none to 5.10 in.

Days suitable for fieldwork 7.0. Gusty winds disrupted spray schedules, caused increased insect infestations some farms. Diseased papayas from previous adverse weather conditions minimized by intensive spray programs; leafy vegetable yields depressed.

IDAHO: Warm early week, cold front last half. Temperatures near normal. Precipitation varied widely.

Days suitable for fieldwork 5.0. Seeding small grains progressed rapidly due to mild conditions. Emergence small grains ahead of past years. Some hail, wind damage due to midweek storm. Sugarbeet planting ahead of past years. Winter wheat good. Hay, roughage good. Livestock good. Potatoes 22% planted, 12% 1985, 18% avg.

ILLINOIS: Temperatures averaged 3 to 70 above normal north, near normal south. Daily highs low 90s north, mid to upper 80s south. Precipitation none to little, 0.60 to 1.10 below normal.

Days suitable for fieldwork 5.5. Soil moisture 69% short, 23% adequate, 8% surplus. Soybeans planted 1%, none 1985, none avg. Winter wheat mostly fair. Alfalfa 1% very poor, 10% poor, 52% fair, 34% good, 3% excellent. Oats planted 95%, 96% 1985, 74% avg. Pasture 5% poor, 34% fair, 57% good, 4% excellent. Livestock, roughage from pastures 60%, 60% 1985, 47% avg. Major farm activities: Seeding corn, seedbed preparation, spreading fertilizer, applying herbicides; general farm maintenance.

INDIANA: Average temperatures 1 to 40 above normal. Record lows 20s at midweek. Record highs upper 80s, low 90s by weekend. Rainfall light, spotty. Most areas none to 0.10 in.

Fieldwork averaged 3.3 days. Topsoil moisture 20% short, 65% adequate, 15% surplus. Subsoil moisture 11% short, 75% adequate, 14% surplus. Spring cropland 90% tilled, 75% 1985, 73% avg. Rains slowed tilling, planting. Cold weather slowed corn germination. Wheat damaged by winterkill, flooding, heaving. Wheat 30% jointed, 45% 1985, 30% avg. Wheat 9 in. high, 11 in. 1985, 8 in. avg. Oats 90% seeded, 90% 1985, 75% avg. Oats 3 in. high, 4 in. 1985, 3 in. avg. Clover 90% seeded, 92% 1985, 80% avg. Tobacco beds 90% seeded, 95% 1985. Pastures 4% poor, 51% fair, 44% good, 1% excellent.

IOWA: Temperatures averaged above normal; temperature extremes 170 record low 22nd, 920 record high weekend. Late week rains heavy west; exceeded 4.00 in. Mapleton, Little Sioux; small amounts east.

Days suitable for fieldwork 4.7. Topsoil moisture 12% short, 82% adequate, 6% surplus; subsoil moisture 2% short, 85% adequate, 13% surplus. Winter wheat 7% very poor, 11% poor, 47% fair, 33% good, 2% excellent; hay 6% poor, 41% fair, 48% good, 5% excellent. Corn planting slowed north, west by wet soil conditions; State progress near normal. Oats sown 90%, 97% 1985, 75% avg.; 46% oats emerged, 73% 1985, 38% avg. Seedbed preparation 59% completed; fertilizer application 64% complete, 81% 1985, 58% avg. Soil erosion during April 21% none, 48% light, 29% avg., 2% heavy. Livestock good; calving, lambing continued. Pastures mostly good. Other farm activities: General livestock care, usual chores, readying equipment.

KANSAS: Precipitation averaged 0.10 in. southeast and south central, little to none elsewhere. Temperatures averaged 60 to 630, 2 to 80 above normal.

Days suitable for fieldwork 6.0. Soil moisture 60% short, 37% adequate, 3% surplus. Wheat freeze, wind damage mostly light. Soil-borne, streak mosaic present most areas. Insects not problem yet. Despite lack of moisture, crop progress ahead of normal. Corn planting good progress. Need moisture to plant full swing. Alfalfa weevil prevalent, severe infestations central and south central districts. Spraying for control. Pasture, fair west, excellent east.

KENTUCKY: Drastic weather changes, both record cold and record warm. Some rural areas registered overnight lows upper teens. Second half same high pressure pumped very warm air north resulting record breaking highs, even reaching lower 90s. Overall temperatures averaged slightly below normal. Showers accompanied arrival cold air early, but precipitation mostly 0.10 to 0.33 in. Normal 0.75 in.

Days suitable fieldwork 4.3. Soil moisture 67% short, 33% adequate. Corn planting at 44% complete near record rate, 22% planted emerged. Some froze back ground level. Tobacco plants 72% emerged. Dry weather slowed germination. Stands thin. Emerged plants 21% poor, 60% fair, 18% good, 1% excellent. Barley, early wheat hurt by freeze. Fruits damaged by freeze, some extensively. Pasture mostly fair, below average. Need rain.

LOUISIANA: Temperature ranged 5 to 70 below normal. Temperature extremes 410; 880. Rainfall averaged none to 0.10 in. across State.

Days suitable for fieldwork 4.7. Soil moisture 24% short, 72% adequate, 4% surplus. Spring plowing 94% complete, 89% 1985, 82% avg. Corn fair to good; 97% planted, 94% 1985, 85% avg. Corn 94% emerged, 87% 1985, 77% avg. Cotton 40% planted, 26% 1985, 23% avg.; 17% emerged, 14% 1985, 12% avg. Rice 78% planted, 67% 1985, 64% avg.; 63% emerged, 50% 1985, 52% avg. Sorghum 65% planted, 54% 1985, 49% avg.; 48% emerged, 37% 1985, 34% avg. Sweetpotatoes 20% planted, 22% 1985, 18% avg. Winter wheat fair to good; 97% headed, 78% 1985, 79% avg. Winter wheat 23% turning color, 21% 1985, 22% avg. Hay first cutting 7% complete, 8% 1985, 6% avg. Sugarcane fair to good. Vegetables fair. Pasture, livestock fair to good. Main activities: Spring plowing; planting corn, cotton, rice, sorghum, sweetpotatoes; baling hay; harvesting crawfish, strawberries.

MARYLAND & DELAWARE: **Maryland:** Temperatures averaged 30 below normal over State; lowest temperature 220 Oakland; highest temperature 780

Cumberland, Bel Air. Precipitation averaged 0.31 in.; ranging from 0.05 to 0.56 in.

Days suitable for fieldwork 4.1. Topsoil moisture mostly adequate; subsoil moisture short to adequate. Hay, roughage supplies mostly adequate. Small grains good. Pasture good. Planting progress: Tobacco beds 100% planted, 100% 1985, 99% avg.; sweetpotato beds 100% planted, 100% 1985, 99% avg.; potatoes 98% planted, 91% 1985, 88% avg.; green peas 98% planted; oats 70% planted, 68% 1985, 71% avg.; snap beans 38% planted, 46% 1985, 28% avg. Peaches 99% blooming. Apples 61% blooming.

Delaware: Temperatures averaged 4° below normal over State; lowest temperature 29° Dover; highest temperature 74° Dover. Precipitation averaged 0.44 in.; ranging from 0.29 to 0.59 in.

Days suitable for fieldwork 4.6. Topsoil moisture short to mostly adequate; subsoil moisture short to adequate. Hay, roughage supplies mostly adequate. Small grains: Barley fair; rye fair to mostly good; wheat fair to good. Pasture mostly good. Planted acreages: Potatoes 99% planted; green peas 93% planted; snap beans 63% planted. Peaches 100% blooming. Apples 100% blooming.

MICHIGAN: Freezing temperatures early week. Hot temperatures late week. Temperatures averaged 3° above normal. Precipitation light.

Farm activities accelerated. Field preparation active. Spreading fertilizer. Sugarbeet planting 90% complete. Oats, spring barley, celery, carrots, cabbage planting increased. Onion planting almost complete. Corn planting underway. Insignificant frost damage field, vegetable crops. Fruit frost damage variable statewide. Tart cherries full bloom southwest. Winter wheat poor Thumb area. Good, excellent remainder State. Livestock pasturing. Feed supplies adequate. Marketing government buyout dairy cows continued.

MINNESOTA: Temperatures averaged 2° below normal to 5° above normal. Temperature extremes 16°; 82°. Precipitation averaged 0.12 to 1.44 in. above normal. Greatest weekly total 2.73 in. First tornadoes current season, 27th.

Days suitable for fieldwork 1.9. Topsoil moisture 47% adequate, 53% surplus. Heavy rains 24th through 27th expected to intensify surplus moisture problems. Major crop planting progress slow to negligible, most areas. Intended spring wheat fields mostly still too wet; emergence of wheat, other small grains slow due to cold soil. Spring wheat 1% emerged, 11% 1985, 10% avg. Oats 26% planted, 51% 1985, 41% avg.; 3% emerged, 17% 1985, 12% avg. Barley 7% planted, 28% 1985, 27% avg.; none emerged, 7% 1985, 5% avg. Scattered areas still have large unharvested 1985 corn fields. Corn for 1986 ground preparation made good progress, southeast portion; little progress elsewhere since topsoil too wet. No soybean planting to date; some expected coming week. Pasture mostly fair to good; 13% still dormant.

MISSISSIPPI: Average temperatures 5° below normal, extremes 29°; 89°. Greatest 24-hour rainfall 1.47 in.

Days suitable for fieldwork 5.9, 3.4 1985, 3.9 avg. Soil moisture 72% short, 28% adequate. Cool weather early week and dry conditions slowed crop planting. Some early planted crops may have to be replanted due to cold. Corn 14% poor, 42% fair, 44% good; 82% planted, 85% 1985, 65% avg.; 65% emerged, 58% 1985, 45% avg. Wheat 99% jointing, 100% 1985, 99% avg.; 88% heading, 72% 1985, 67% avg.; none ripe, none 1985, 1% avg.; 5% very poor, 37% poor, 41% fair, 17% good. Soybean planting just underway, less than 1% planted. Sweetpotatoes 12% planted, 8% 1985, 10% avg. Peanuts 11% planted, 24% 1985, 13% avg. Watermelons 46% planted, 68% 1985, 57% avg. Harvest of cool season

forage just beginning. Peaches 39% very poor, 44% poor, 17% fair.

MISSOURI: Temperatures below normal beginning week, record highs 25th, 26th. Over 1.00 in. rain Bootheel, less than 0.25 in. other areas.

Days suitable for fieldwork 4.9. Soil moisture 28% short, 67% adequate, 5% surplus. Oat seedings 95%, 97% 1985, 79% avg. Soybean planting 3%, 5% 1985, 2% avg. Tillage for spring crops 72%, 70% 1985, 66% avg. Pasture 4% poor, 37% fair, 55% good, 4% excellent.

MONTANA: Temperatures normal to above normal. Moderate to heavy rain south central; parts of central and southwest 1.00 to 2.50 in.; southeast 0.50 in.; northeast and north central 0.10 in.; west of Divide light precipitation.

Days suitable for fieldwork 4.9. Topsoil moisture 4% short, 95% adequate, 1% surplus. Subsoil moisture 13% short, 85% adequate, 2% surplus. Fields dried, fieldwork progressed. Barley 60%, sugarbeets 45%, oats 50% planted. Small grains 15% emerged. Winter wheat fair to good. Livestock fed supplemental 60%. Calving 90%, lambing, shearing 80% complete. Death loss below average to average.

NEBRASKA: Showers, thunderstorms widespread. Amounts averaged 0.10 to 0.30 in. during week. Weekend rains heavier 1.00 to 3.00 in. Temperatures averaged 1 to 4° above normal. Temperature extremes 24°; 87°.

Days suitable for fieldwork 5.2. Topsoil moisture 9% short, 85% adequate, 6% surplus. Subsoil moisture 6% short, 86% adequate, 8% surplus. Wheat mostly good to fair. Some concern expressed about freeze damage. Extent of damage now was leaf kill. No yield reduction expected. Oat seeding 85%, 99% 1985, 70% avg. Corn planting 5%, 6% 1985, 3% avg. Most advanced central, south central, behind northeast. Pasture, range mostly adequate to short. Summer pastures greening up, native pasture beginning growth. Calving season winding down. Scours, pneumonia incidences up.

NEVADA: High pressure system beginning week brought record high temperatures north. Minor troughs moved through during middle period. Stronger upper level low pressure system end period resulted cool temperatures, rain and snow north, east. For entire week, temperatures few degrees above normal.

Fieldwork, planting operations slowed by cool, windy weather northern areas. Alfalfa hay harvest extreme south good progress. Potato planting delayed by inclement weather.

NEW ENGLAND: Average precipitation ranged from 0.35 to 0.65 in. Connecticut, western Massachusetts; 0.75 to 1.00 in eastern Massachusetts, Rhode Island; 1.00 to 1.75 in. southern Maine and New Hampshire; 0.15 to 0.45 in. northern most areas. Average temperatures ranged from 50° near Canadian border, above normal to 55° elsewhere near normal.

Farmers plowing, spreading manure, preparing machinery for spring planting.

NEW JERSEY: Temperatures below normal. Extremes 30°; 77°. Weekly rainfall averaged 1.60 in. north, 0.93 in. central, 0.75 in. south. Heaviest 24-hour total 1.25 in. on 23rd, 24th. Estimated soil moisture percent field capacity averaged 98% north, 96% central, 95% south. Four inch soil temperatures averaged 51° north, 52° central, 52° south.

Early period cold, wet; some areas snow. Apples, blueberries, strawberries blooming. Preparation, planting continued for summer vegetables, potatoes, field corn. Pasture, hay, fall sown grains made

good growth. Asparagus, spinach, early greens moved to market in increased volume.

NEW MEXICO: Average weekly temperatures from 6 to 40° below normal. Temperatures 140° northwestern plateau, western mountains to 910° southeastern plains. Measurable precipitation over most of State. Precipitation none to 1.18 in. northern mountains.

Days suitable for fieldwork 6.7. Soil moisture 95% short, 5% adequate. Hail damage 94% none, 6% light. Wind damage 29% none, 71% light. Freeze damage 80% none, 20% light. Alfalfa 13% poor, 27% fair, 60% good. First cutting underway south. Corn 14% poor, 14% fair, 72% good. Barley 40% fair, 50% good, 10% excellent. Pecans 100% good. Apples 100% good. Chile 29% fair, 71% good. Onions 100% good. Lettuce 100% good. Cattle 44% fair, 56% good. Sheep 31% fair, 69% good. Range 18% poor, 82% fair.

NEW YORK: Week began mild, light rain. Exception Buffalo, over 0.75 in. Cold temperatures 22nd, 23rd. Late season snow over southeast on 23rd, from 1 to 2 ft. higher terrain of Catskills, several inches parts of Catskills. Mild weather end of week.

Days suitable for fieldwork 5.0. Soil moisture adequate to surplus. Oat planting 18% complete, 30% 1985, 13% avg. Wheat good to excellent. Barley planting, new hay seeding underway. Corn planting just started. Fruit growers pruning, spraying. Pastures good.

NORTH CAROLINA: Temperatures averaged 6 To 70 below normal Mountain Region; 3 to 40° below normal Piedmont Region; 40° below normal Coastal Plain Region. Temperature extremes 230; 910. Precipitation ranged from 0.05 to 0.94 in. across State.

Days suitable for fieldwork 5.8. Soil moisture 26% very short, 61% short, 13% adequate. Corn planting ahead of average. Low moisture, cold temperature slowed corn development. Small grains mostly fair to good, suffering from dry weather. Cotton planting ahead of average. Tobacco beds 27% fair, 71% good, 2% excellent. Irish potatoes 44% fair, 56% good. Peaches 6% poor, 38% fair, 56% good. Frost damaged peaches, apples, tobacco. Truck crops 7% poor, 59% fair, 34% good. Pasture 15% poor, 59% fair, 26% good. Major farm activities: Planting corn; land preparation; tending, protecting tobacco plantbeds; tending livestock; transplanting ornamentals, Christmas trees; applying herbicides; planting vegetables, cotton, sorghum, tobacco, peanuts, gardens; cutting hay; spraying apples; general farm maintenance.

NORTH DAKOTA: Week started warm with 70s to 80s. By weekend rain, snow, thunderstorms. Temperatures averaged from 30° below normal to 10° above. Extremes 170° north central to 850° southwest. Precipitation from 0.20 to 1.20 in. East central recorded 1.68 in.

Statewide, 2.0 days suitable for fieldwork. Topsoil moisture 64% adequate, 36% surplus. Subsoil 7% short, 76% adequate, 17% surplus. Some planting progress during week. Hard red spring wheat 10% planted, 41% 1985, 23% avg.; durum 4% planted, 21% 1985, 12% avg.; barley 8% planted, 43% 1985, 21% avg.; oats 14% planted, 39% 1985, 21% avg. Some late season crops in. Sugarbeets 4% planted, 30% 1985, 28% avg.; potatoes 1% planted, 7% 1985, 3% avg. Flax just beginning. Wet, cool weather putting stress on livestock. Calving 85% complete; lambing 91%; shearing 84%. Pasture growth, 9% very poor, 25% poor, 50% fair, 13% good, 3% excellent.

OHIO: Temperatures record low midweek, record high end of period. Readings ranged from low 20s to 80s. Precipitation 0.10 to 0.25 in.

Fieldwork 3.0 days suitable. Soil moisture 9% short, 71% adequate, 20% surplus. Farm activities included plowing, seedbed preparation, fence and machinery maintenance, and shipping bedding plants. Freeze damage to crops 22nd and 23rd. Extent of damage dependent on specific crop, stage of development, protection growers were able to provide. Corn planting slow; curtailed by rain; cold. Few soybeans planted. Oats seeding 80%, 90% 1985, 55% avg. Winter wheat fair to mostly good; freeze burned leaves, some dropping. Wheat height 8 in., 9 in. 1985. Hay, pastures fair to good. Fruit damaged by freeze mostly south development most advanced. Apples poor to fair, peaches poor.

OKLAHOMA: Temperatures averaged 20° below normal east central to 60° above normal Panhandle. Precipitation averaged 0.09 in. northeast to 1.07 in. south central.

Days suitable for fieldwork 5.2. Topsoil moisture 45% short, 40% adequate, 15% surplus. Subsoil moisture 30% short, 70% adequate. High winds sapped soil moisture. Wheat 15% poor, 30% fair, 55% good. Wheat 85% headed, 20% 1985, 20% avg. Heading two weeks ahead average. Major-producing areas need rain, cool weather. Rust, streak mosaic spreading. Sorghum 5% planted, 3% 1985, 3% avg. Cotton none planted, 5% 1985, none avg. Eastern growers re-prepared land after heavy rainfall. Pastures growing south, east. Livestock marketings stable, prices lower. Lice, fly activity increasing.

OREGON: Extreme temperature variations all areas. Beginning of week maximum temperatures 80s, Rogue Basin low 90s. Mid, late week maximums below 60° except extreme south coast, Malheur County. Minimum temperatures mid-teens Blue Mountains of northeast; 100° Crater Lake; below freezing all areas except south coast, southern Willamette Valley. Significant rain all areas except minor amounts Malheur County. Several inches snow mountain areas.

Soil moisture 28% short, 70% adequate, 2% surplus. Columbia Basin grain crops show slow growth; western fields 1 to 2 weeks ahead of normal. Barley 73% seeded, 94% 1985. Field preparation, spring grain planting continued mainly eastern high country. Field corn planting Hermiston, Willamette Valley, Malheur. Clover, alfalfa seeding Willamette Valley. Early hay cutting west, Hermiston. Bloom, cultivation, spraying continued strawberries, blueberries. Frost 23rd to 24th caused widespread damage strawberries Willamette Valley, Totem variety hardest hit. Tree fruits look good. Frost protection required 23rd Medford, Milton-Freewater, Hermiston. No significant damage. Cranberry growers also sprinkled that night. Snap beans, broccoli, onions, sweet corn planted western areas; season earlier than normal. Russet potato planting nearly complete Hermiston, 75% Malheur. Norgolds emerged Hermiston. Onions 60% emerged, good stands, Malheur County. Spring seeded sweet onions mostly emerged Milton-Freewater. Livestock good west, fair east. Ranges, pastures good but dry, cold east causing slow forage growth. Snow eastern high country stressed animals.

PENNSYLVANIA: Widespread freezing temperatures statewide early week. Average temperature 50s, normal 50s. Low temperature 230, high temperature 840. Precipitation averaged 0.54 in., 0.28 in. below normal. Heavy snowfall northeast corner of State.

Days suitable for fieldwork 3.0. Soil moisture 65% adequate, 35% surplus. Plowing 62% complete, 56% 1985, 43% avg. Corn 10% planted, 8% 1985, 7% avg. Potatoes 27% planted, 39% 1985, 25% avg. Tobacco beds 55% planted, 78% 1985, 73% avg. Oats 74% planted, 68% 1985, 46% avg. Soybeans 5%

planted, none 1985, none avg. Hay stands mostly good to fair. Feed from pastures mostly below average to average. Peaches 18% pre-pink stage, 40% pink stage, 42% full bloom or past stage; 1985, 12% pink-stage, 52% full bloom or past stage. Cherries 16% pre-pink stage, 25% pink stage, 59% full bloom or past stage; 1985, 18% in pink stage, 66% in full bloom or past stage. Apples 55% pre-pink stage, 33% pink stage, 12% full bloom or past stage; 1985, 22% pink stage, 48% full bloom or past stage. Activities: Fence work, cleaning, plowing, planting corn and oats, spreading fertilizer, readying equipment for corn planting.

PUERTO RICE: DATA NOT AVAILABLE.

SOUTH CAROLINA: Unseasonably cool, dry weather. Temperatures 12° below normal. Record low temperatures, frost, freezing weather on 24th. Temperature 90s late week. Scattered rains, northern, north central State; amounts light. Little, no precipitation elsewhere.

Days available for fieldwork 6.1. Soil moisture 72% very short, 24% short, 4% adequate. Cotton 53% poor, 46% fair, 1% good; 39% planted, 70% 1985, 46% avg. Corn fair 91% planted, 97% 1985, 83% avg. Tobacco fair to good 79% planted, 83% 1985, 77% avg. Vegetables fair. Small grain crops fair rainfall needed soon. Pastures fair. Peaches fair, slight frost damage.

SOUTH DAKOTA: Average temperatures 3° below to 5° above normal. Extremes 24°; 89°. Precipitation widespread.

Days suitable for fieldwork 1.5. Soil moisture 41% adequate, 59% surplus. Surplus moisture limits farmers' fieldwork; flooding major problem northeast, east central. Cool, wet weather slowed spring planting, although crop conditions range fair to excellent. Winter wheat good to excellent; little winterkill; good snow cover during winter. Livestock fair to good. Pneumonia, scours showed up following blizzard; storm weakened livestock. Calving, lambing 66% complete. Twenty percent of cattle moved to pasture. Feed short west two-thirds, adequate east. Stockwater adequate to surplus. Range, pasture fair to good.

TENNESSEE: Light rain 21st ended east on 22nd. Amounts generally less than 0.20 in. Temperatures averaged 5° below normal. Extremes 23°; 92°.

Days suitable for fieldwork 5.0. Soil moisture 72% short, 25% adequate, 3% surplus. Corn 65% planted, 50% 1985, 30% avg. Frost turned leaves yellow, no permanent damage. Heavy flea beetle infestation reported west. Cotton condition fair. Cotton 15% planted, 15% 1985, 12% avg. Sorghum 20% planted, 8% 1985. Tobacco 80% plants up, 90% 1985. Wheat 80% jointed, 65% 1985; 25% headed; 25% 1985, 21% avg. Conditions fair. Soybeans 3% planted. Livestock, pastures fair.

TEXAS: Dry, gusty winds redeveloped quickly western half State early week. Surface high pressure center Upper Coast blocked full return of humid south winds until 25th. Showers far west late week. Average rainfall below normal. Dry south winds kept all west, Plains warmer than normal. Temperatures east mild.

Crops: Dryland small grains Plains, Cross-Timbers suffered lack of timely moisture. Good rain now may not improve yield prospects. Many fields turning color. Russian aphids plagued many fields. Irrigated fields good condition. Some hail damage Low Plains. Blacklands scattered rain may help field prospects. Many fields turning color. Central fields grazed out, poor yield prospects. Some harvesting underway south, yields little better than expected. Corn planting increased Plains, Cross-Timbers. Many producers watering to help emergence. Blacklands recent

rains aided growth. Cultivating active as ground conditions permitted. East many stands thin because lack of moisture. Cultivation active central areas. Stands slow growth under dry conditions. Dryland fields stressed south, Coastal Bend. Some fields silking Valley. Irrigation steady. Grain sorghum planting continued Plains, Cross-Timbers; some producers waiting additional moisture to begin. Producers cultivating fields Blacklands, central. Fields beginning to head Valley. Dryland fields stressed for moisture. Cotton planting beginning small scale Plains. Land preparations complete most areas. Early fields emerging Blacklands. Some planting occurring. Fields fair progress south, Rio Grande Valley. Planting continued Trans-Pecos. Rice planting about completed, many fields emerging along Upper Coast. Fertilization, flushing continued.

Other Field Crops: Peanuts 4% planted, 4% 1985, 7% avg. Soybeans 10% planted, 1% 1985, none avg. Sugarbeets 97% planted, 77% 1985, 90% avg. Sunflowers 6% planted, none 1985, 3% avg.

Commercial Vegetables: Rio Grande Valley, onion harvest winding down from peak. Demand weak. Light harvest cabbage, carrots, other greens. San Antonio-Winter Garden, onion harvest begin next week. Cantaloups good growth. Watermelons setting fair to good crop. East, spring, summer vegetables making good progress. Recent rains aided growth. Some minor hail damage northeast. High Plains, planting potatoes about complete. Thrips showing up onion fields. Irrigation steady. Trans-Pecos chili planting continued. Cantaloups satisfactory growth. Peach trees light fruit set most areas. Insect damage heavy some areas Hill Country. Some spraying continued. Hail caused some losses east. Pecans blooming most areas State, some early varieties setting nuts south. Zinc spraying continued. Some pecan phylloxera Low Plains.

Range and Livestock: Pastures, ranges some improvement northern sections. Small grain fields grazed. Some baling oats occurred. Producers fertilizing coastal pastures. Alfalfa cut some areas. Livestock fair to good. Market weak. Supplemental feeding increasing Hill Country.

UTAH: Temperatures above normal. Maximums 1 to 5° above normal, minimums 3 to 5° above. Precipitation light south; moderate central; high, north central at 0.62 in.

Days suitable fieldwork 4.6. Topsoil moisture adequate. North central counties surplus moisture. Crop progress 5 to 7 days ahead of normal except seeding small grain north central. Spring wheat 75%, barley 71%, oats 56% seeded. Spring wheat 63%, barley 55% emerged. Winter wheat 9 in., alfalfa 8 in. high. First cutting alfalfa near completion extreme southwest. Grasshopper, alfalfa weevil concern reported. Irrigation starting south. Pastures, ranges good. Some movement summer range south. Calving 85% complete, lambing 76%, shearing 85% complete. Some pneumonia calves, lambs due to wide temperature fluctuation.

VIRGINIA: Wet, cloudy, cold beginning of period. Temperature fell to 24° one location, 30s common. Some frost. Rainfall averaged 0.63 in. east, 0.17 in. central areas. Warm, sunny end of period. Temperatures rose to 80s.

Days suitable for fieldwork 5.1. Soil moisture 55% short, 45% adequate. Crop conditions declined slightly as soil moisture stayed on dry side. Corn planting 45% complete, 47% 1985, 44% avg.; mostly good. Cotton 50% planted. Soybean planting just beginning. Peanut planting 5% complete, 30% 1985, 40% avg. Flue-cured tobacco transplanting 5% complete, 5% 1985, 4% avg. Irrigating tobacco plantbeds. Fruit mostly excellent. Little or no frost damage. Wheat, pasture, hay land mostly good. Need rain to boost growth. Sprayed for alfalfa weevil in hay. Tomatoes transplanted.

CROP PROGRESS

FOR WEEK ENDING APR 27, 1986

**WINTER WHEAT
% HEADED**

	1986	1985	AVG.
ARK	82	57	NA
CALIF	80	75	75
COLO	1	0	0
GA	77	80	63
IDAHO	0	0	0
ILL	1	0	3
IND	0	0	0
KANS	15	1	5
MICH	0	0	0
MO	12	1	5
MONT	0	0	0
NEBR	0	0	0
N MEX	45	NA	NA
N C	21	NA	NA
OHIO	0	0	0
OKLA	85	20	20
OREG	0	0	0
S DAK	0	0	0
TEX	68	45	37
WASH	0	0	0
20 STATES	32	NA	NA
EXCL. STATES WITH NA	31	13	13

THESE 20 STATES PRODUCED 91%
OF THE 1985 WINTER WHEAT CROP.

NA - NOT AVAILABLE

**SPRING WHEAT
% PLANTED**

	1986	1985	AVG.
IDAHO	64	44	60
MINN	8	39	34
MONT	50	40	40
N D	10	41	23
S DAK	19	85	54
5 STATES	22	48	35
THESE 5 STATES PRODUCED 95% OF THE 1985 SPRING WHEAT CROP.			

**COTTON
% PLANTED**

	1986	1985	AVG.
ALA	32	46	25
ARIZ	90	88	85
ARK	15	10	13
CALIF	70	75	73
GA	10	32	22
LA	40	26	23
MISS	25	31	24
MO	8	7	6
N MEX	45	50	34
N C	38	51	26
OKLA	0	5	0
S C	39	70	46
TENN	15	15	12
TEX	16	16	15
14 STATES	28	30	27
THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.			

**SORGHUM
% PLANTED**

	1986	1985	AVG.
ARK	52	34	36
ILL	0	0	0
KANS	0	0	0
LA	65	54	49
MISS	40	36	24
MO	7	3	3
NEBR	0	0	0
OKLA	5	3	3
S DAK	0	0	0
TENN	20	8	NA
TEX	68	61	64
11 STATES	25	21	NA
EXCL. STATES WITH NA	25	21	22
THESE 11 STATES PRODUCED 94% OF THE 1985 SORGHUM CROP.			

NA - NOT AVAILABLE

**RICE
% PLANTED**

	1986	1985	AVG.
ARK	48	28	24
CALIF	3	3	4
LA	78	67	64
MISS	90	68	43
TEX	96	59	84
5 STATES	56	39	38

THESE 5 STATES PRODUCED 97%
OF THE 1985 RICE CROP.

**WEEKLY CROP WEATHER CONDITION PERCENT REPORT
FOR WEEK ENDING APRIL 27, 1986**

WINTER WHEAT

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	9	51	40	0
CALIF	0	0	0	50	50
COLO	4	5	24	51	16
GA	1	21	63	15	0
IDAHO	0	3	17	60	20
ILL	7	19	49	22	3
IND	0	11	59	30	0
KANS	4	17	38	32	9
MICH	10	10	10	10	60
MO	0	41	40	19	0
MONT	0	0	12	85	3
NEBR	0	4	36	49	11
N MEX	0	37	24	36	3
N C	0	7	60	33	0
OHIO	1	2	35	55	7
OKLA	0	15	30	55	0
OREG	0	0	37	63	0
S DAK	0	0	18	60	22
TEX	2	15	59	24	0
WASH	0	0	20	70	10

SPRING WHEAT

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
S DAK	2	2	49	28	19

RICE

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	11	50	39	0
LA	0	0	57	43	0
TEX	0	0	25	64	11

CORN

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
GA	1	12	63	23	1
TEX	2	6	39	47	6

GRAIN SORGHUM

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	8	46	46	0
LA	0	0	77	23	0
TEX	3	3	50	41	3

COTTON

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARIZ	0	0	0	100	0
ARK	0	7	39	54	0
CALIF	0	0	0	50	50
GA	3	31	56	10	0
LA	0	4	70	26	0
N MEX	0	0	0	100	0
S C	0	53	46	1	0
N MEX	0	0	0	100	0
S C	0	53	46	1	0

**CORN
% PLANTED**

	1986	1985	AVG.
COLO	14	26	14
GA	90	97	87
ILL	29	28	10
IND	10	15	4
IOWA	5	15	6
KANS	35	25	15
KY	44	37	20
MICH	3	3	3
MINN	2	2	3
MO	46	55	24
NEBR	5	6	3
N C	85	86	64
OHIO	8	35	15
PA	10	8	7
S DAK	0	0	0
TEX	93	90	80
WIS	0	0	0
17 STATES	16	20	11

THESE 17 STATES PRODUCED 93%
OF THE 1985 CORN CROP.

Only light frost damage to vegetables. Moving cattle to pasture. Land preparation continued.

WASHINGTON: Warm temperatures changed to cool by midweek, averaged 1 to 5° below normal. Showers throughout State; most activity northwest, mountains.

Days suitable for fieldwork 6.1. Soil moisture 90% adequate, 10% surplus. Wheat, barley mostly good to fair. Some frost damage on fruit reported. Asparagus harvest continued. Hay supplies 20% short, 80% adequate. Range, pasture 20% short, 80% adequate.

WEST VIRGINIA: Temperatures 2 to 4° below normal except northeast normal temperatures occurred. Average temperature 53°. Temperature extremes 18° Elkins; 96° Williamson. Precipitation below normal. Average precipitation 0.43 in.

Days suitable for fieldwork 3.7. Soil moisture 10% very short, 19% short, 67% adequate, 4% surplus. Feed supplies 19% short, 76% adequate, 5% surplus.

WISCONSIN: Temperatures averaged low 50s; low 40s on 22nd, high 88 on 27th. Rainfall ranged from 0.50 to 1.00 in.

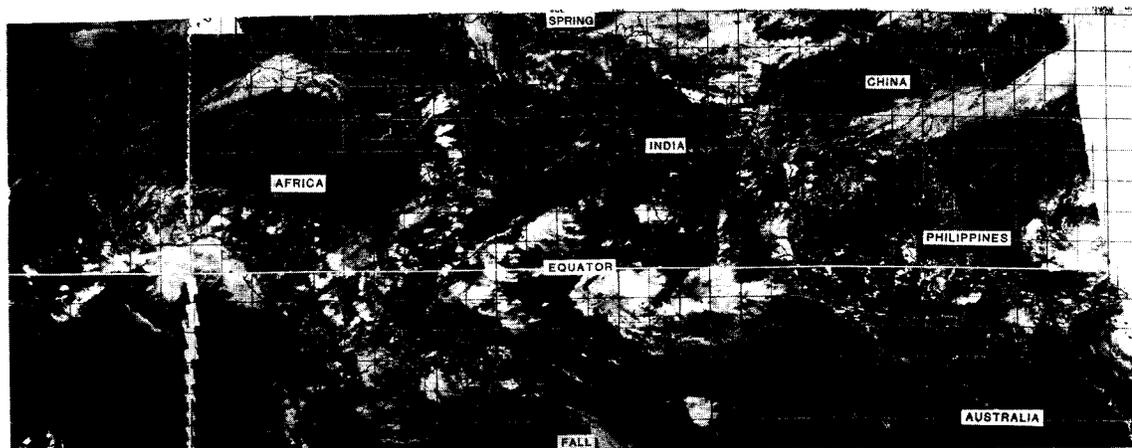
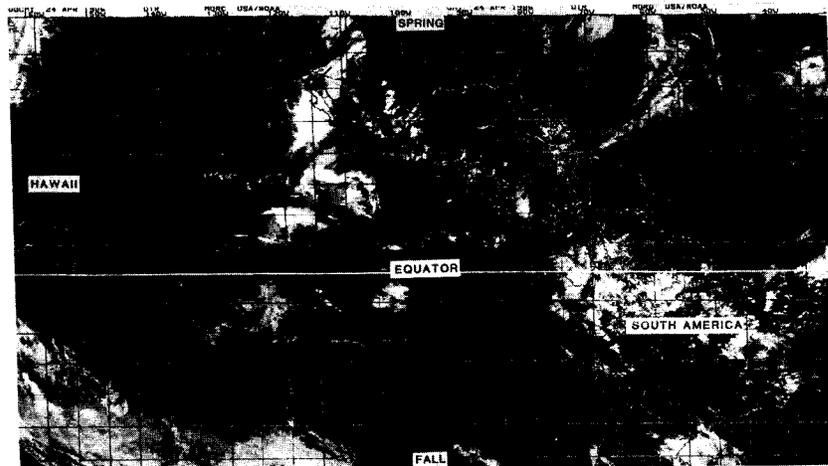
Days suitable for fieldwork 5.4. Soil moisture 5% short, 82% adequate, 13% surplus. Spring plowing 40% complete, 29% 1985, 24% avg. Oats 44% planted, 38% 1985, 31% avg. Potato planting progressing rapidly. Some winter damage to alfalfa, winter wheat south central and southeast.

WYOMING: Temperatures 3 to 8° above normal. Most areas below normal precipitation.

Days suitable for fieldwork 4.0. Topsoil moisture 18% short, 63% adequate, 19% surplus. Spring wheat planted 55%, 65% 1985, 40% avg.; emerged 30%, 25% 1985, 15% avg. Oats planted 50%, 45% 1985, 35% avg.; emerged 25%, 10% 1985, 10% avg. Barley planted 65%, 70% 1985, 60% avg.; emerged 40%, 35% 1985, 30% avg. Sugarbeets planted 65%, 85% 1985, 65% avg.; emerged 15%, 5% 1985, 5% avg. Corn seeded 10%, 15% 1985. Potatoes planted 20%, 30% 1985. Winter wheat 35% fair, 65% good; light wind, freeze damage. Alfalfa prospects 20% fair, 75% good, 5% excellent. Livestock 30% fair, 60% good, 10% excellent. Spring calves born 80%, 80% 1985, 80% avg. Calf losses light. Farm flock: Ewes lambed 85%, 90% 1985, 85% avg.; sheep shorn 85%, 85% 1985, 75% avg. Range Flock: Ewes lambed 50%, 55% 1985, 50% avg.; shorn 45%, 60% 1985, 55% avg. Lamb losses light. Range, pastures fair to good.

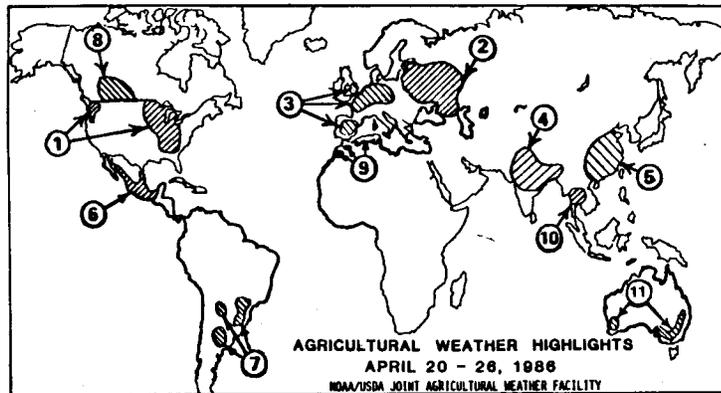
GLOBAL WEATHER SATELLITE IMAGE

April 2 , 1986



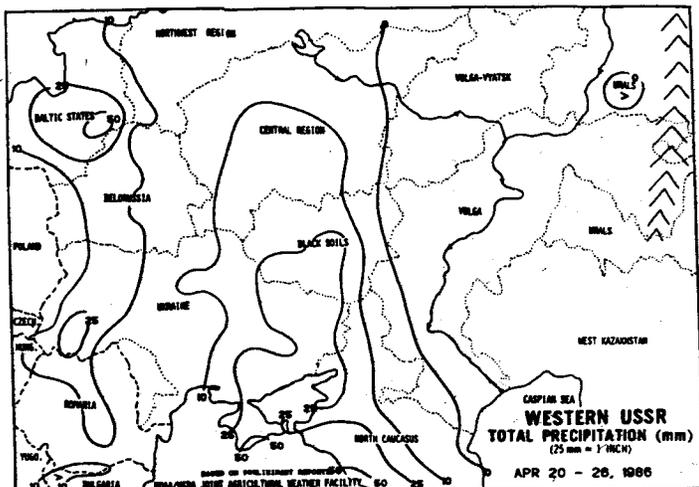
International Weather and Crop Summary

April 20 - 26, 1986

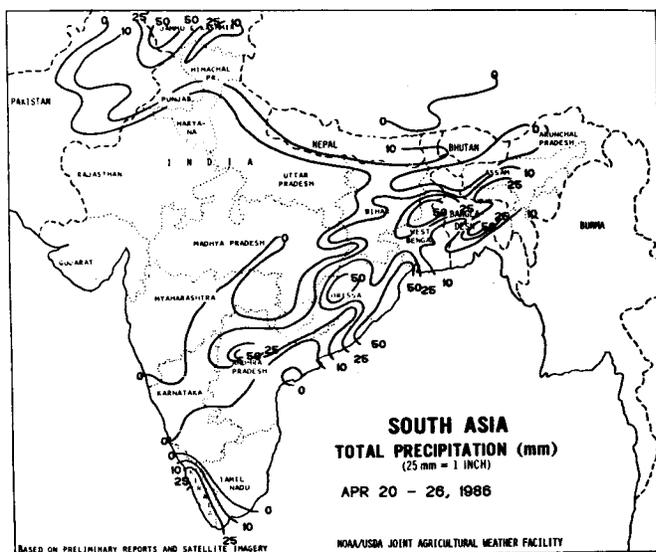


HIGHLIGHTS:

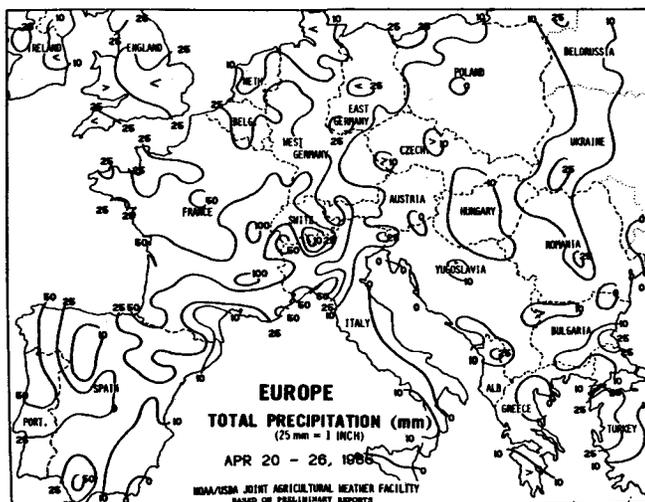
1. **UNITED STATES** ... Freezing temperatures slow planting and crop growth, prevent germination, and damage fruit crops in the Pacific Northwest, the central and northern Great Plains, the Corn Belt, and from the Northeast as far south as north Georgia. Small grain damage is not expected to be heavy, but fruit damage is severe in some areas. Soil moisture continues short in the Southeast.
2. **WESTERN U.S.S.R.** ... Showers in the eastern Ukraine and western North Caucasus relieve persistent dryness. Dry weather continues to cover the Volga Valley.
3. **EUROPE** ... Frequent showers and unseasonably cool weather in England, France, the Netherlands, Belgium, and West Germany delay spring crop sowing and slows winter grain growth. Widespread showers over Spain benefit winter grains.
4. **SOUTH ASIA** ... Mostly dry weather favors wheat harvesting in India; rain slows wheat harvesting in northern Pakistan.
5. **EASTERN ASIA** ... Moisture is adequate in most of the rice region. Light showers benefit the North China Plain, but soil moisture remains limited.
6. **MEXICO** ... Showers help corn planting and early growth in much of the Southern Plateau corn belt, but warm, dry weather continues in the northwest.
7. **SOUTH AMERICA** ... Rain delays harvesting in most crop areas of Argentina and southern Brazil.
8. **CANADA** ... Showers moisten topsoils in advance of spring wheat planting. Colder weather returns to the region late in the week.
9. **NORTHWESTERN AFRICA** ... Dry weather covers winter grains in the late-filling stage.
10. **SOUTHEAST ASIA** ... Pre-monsoon showers benefit eastern Thailand where rice planting normally begins in May.
11. **AUSTRALIA** ... Light to moderate rain benefits wheat planting in the extreme southeast. Dry weather in most of the wheat belt slows planting progress.



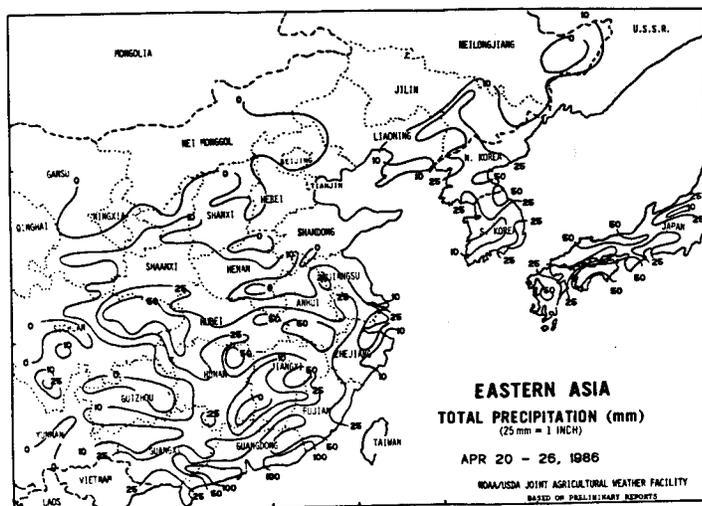
WESTERN U.S.S.R. ... An early week storm system produced widespread showers in the Ukraine, Black Soils, and the western North Caucasus. The rain which covered the extreme eastern Ukraine and the western North Caucasus was extremely beneficial, as crops in these areas experienced seven consecutive weeks with dry weather. The rain promoted winter grain growth and increased soil moisture for spring crop emergence. Further east, a persistent ridge of high pressure over Kazakhstan prevented showers from reaching the Volga Valley where dry weather continued to persist. Weekly temperatures over the region were above normal, increasing evaporation rates.



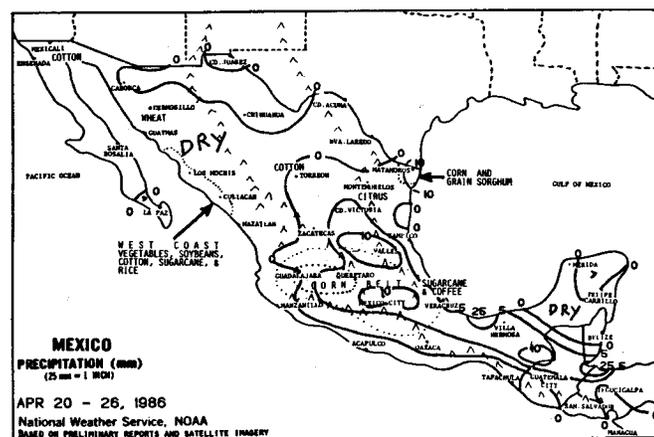
SOUTH ASIA ... Unseasonable rain fell along the east coast of India. Moderate rain (10 to 70mm) fell in rice areas of West Bengal, Orissa, and Andhra Pradesh. However, rice planting will wait for more reliable monsoon rains which normally begin in June. Mostly dry weather benefited wheat harvesting in northern India. Moderate rain in northern Pakistan slowed wheat harvesting.



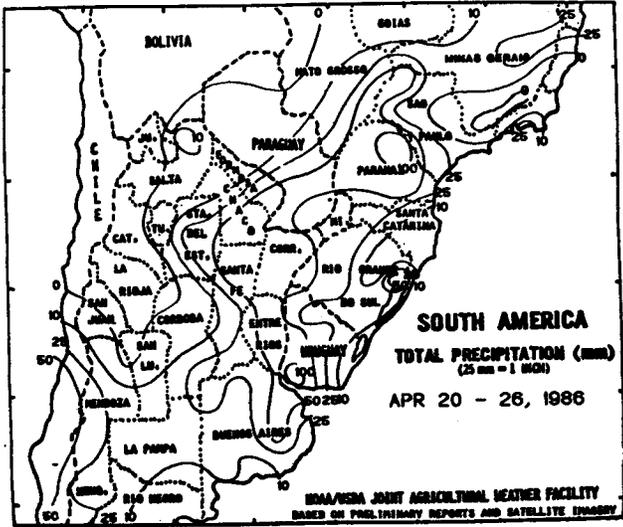
EUROPE ... Above-normal precipitation covered crop areas in western Europe while below-normal precipitation covered the east. Frequent showers continued to cover crop areas in England, France, the Netherlands, Belgium, and the western portion of West Germany, delaying spring crop sowing. In addition, the weather was unseasonably cool, slowing winter grain growth. Torrential rain covered eastern France and northern Italy. Rainfall amounts in these areas ranged from 50 to 100mm with isolated locations receiving more than 100mm, increasing the likelihood for local flooding. In Spain, widespread significant rain (25 to 50mm) benefited winter grains. In eastern Europe, dry weather aided planting, but above-normal temperatures increased evaporation rates.



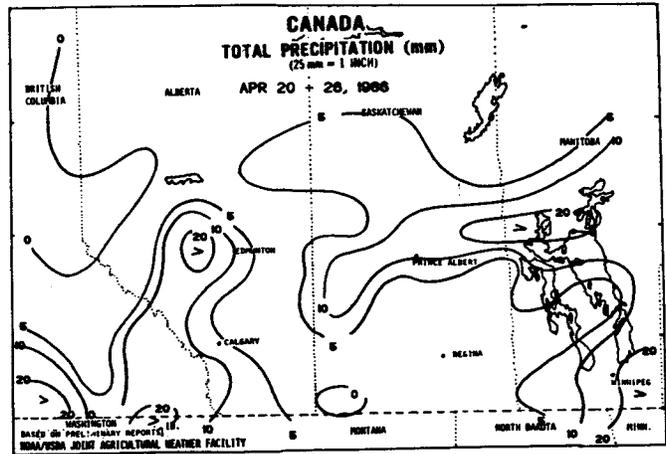
EASTERN ASIA ... Widespread rain benefited most of the southern rice region. The heaviest rain (50 to 150mm) fell in Guangdong. Moderate rain along the Yangtze River supplied moisture for intermediate rice planting. Temperatures averaged near to above normal in the rice region, favoring rice development. Light showers fell in the North China Plain. Moderate rain (10 to 20mm) benefited Anhui, Jiangsu, and central Henan where winter wheat is in the heading stage. Lighter rain, mostly less than 5mm, moistened topsoils in Hebei, Shandong, and northern Henan. Winter wheat in the heading stage and summer crop planting benefited from the showers, but subsoil moisture is limited in nonirrigated areas.



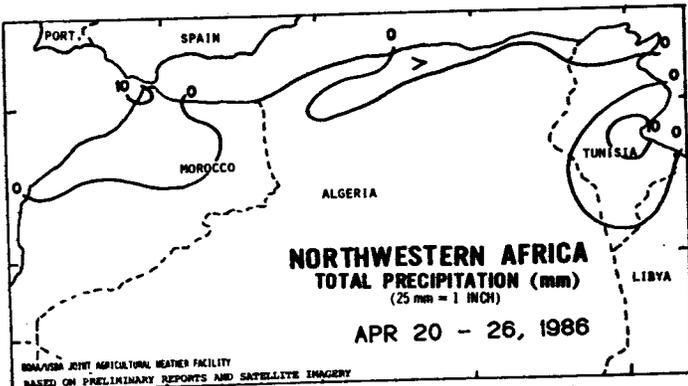
MEXICO ... Beneficial rain fell over the eastern half of the Southern Plateau corn belt. Weekly rainfall generally averaged 10 to 22mm in the east, while light showers (1 to 5mm) occurred in the western portion of the corn belt. The moisture helped corn planting and early growth, but the western corn belt continued too dry for unirrigated crops. Widespread shower activity covered much of southern Mexico, but dry, warm weather continued over the north. Weekly temperatures averaged 25 to 28 degrees C (2 to 5 degrees above normal) again along the west coast farming region and northwestern wheat areas. The warmth promoted fieldwork, but hampered emergence of newly-sown rainfed crops.



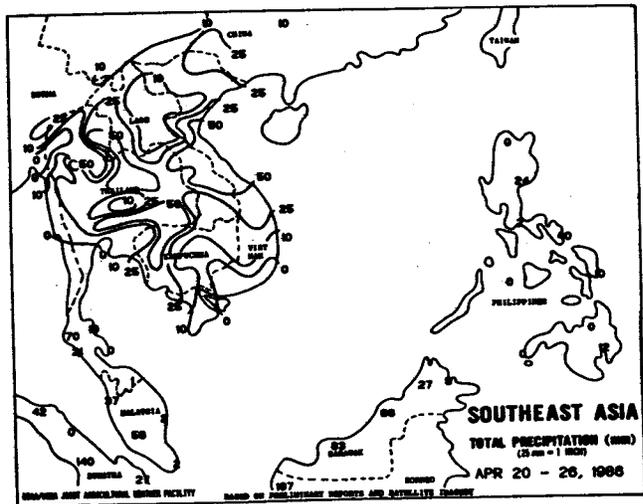
SOUTH AMERICA .. Rain fell over nearly all crop areas of south-central Brazil and Argentina, causing more harvest delays. Heavy showers (50 to 100mm) fell over saturated crop areas of northeastern Argentina, where mature cotton, sorghum, and rice were adversely affected by early April downpours. Weekly rainfall averaged 20 to 35mm in Argentina's primary corn and soybean areas. Corn is well over 50 percent harvested while the soybean harvest is still early. In Brazil, widespread showers (35 to 100mm) continued the south's unfavorable harvest weather pattern and halted soybean harvesting in Parana. Some light rain also fell in northern soybean areas but caused only minor delays. Brazil's soybean harvest is reportedly about 55 percent complete, compared with about 75 percent last year. Rio Grande do Sul's harvest is much behind the average pace.



CANADA .. Some rain fell over the Prairie Provinces, moistening topsoils in advance of spring wheat sowing, which should be underway soon. Weekly rainfall totals were generally light, especially in the southern two-thirds of Saskatchewan's grain areas where amounts were less than 5mm. Showers produced about 5 to 15mm elsewhere in the grain belt with some isolated heavier amounts in Manitoba. Mild weather prevailed early in the week, but cold weather pushed back into the region during the latter half of the week. Weekly mean temperatures generally averaged 3 to 7 degrees C, about normal for this time of year and still low for proper seed germination.



NORTHWESTERN AFRICA ... Mostly dry weather covered winter grains over the region. Winter grains in Morocco and Algeria are likely in the late-filling stage which is about normal for this time of year. In Tunisian winter grain areas, unfavorably dry weather during much of the growing season has advanced the growth cycle ahead of normal and stunted crop development, significantly reducing the yield potential. Winter grains in Tunisia are likely maturing.



SOUTHEAST ASIA ... Shower activity increased in Thailand. Moderate to heavy rain (25 to 80mm) covered most of the Khorat Plateau in eastern Thailand where rainfed rice planting normally begins in May. The moderate rain extended through central Laos and Vietnam. Moderate rain benefited the south-central rice area north of Bangkok, while scattered showers fell in western and northern Thailand. Mostly dry weather covered the Philippines.

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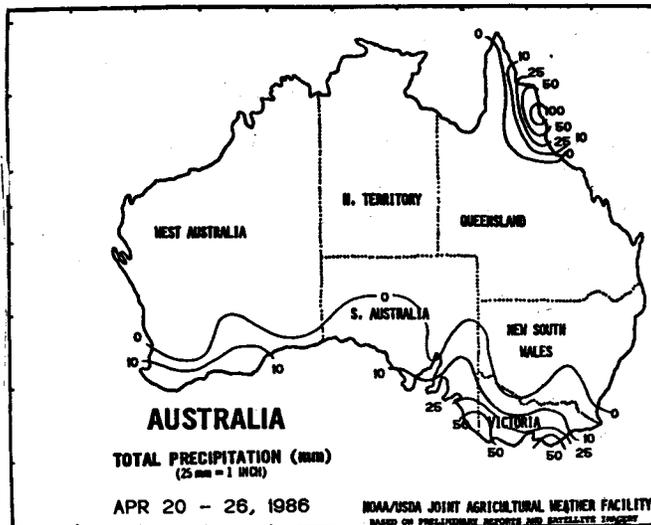
(Continued from p. 17)

In east Texas, spring and summer vegetables progressed well. Recent rains aided growth. Potato setting was about complete in the High Plains. Cantaloups made good growth and watermelons were setting a fair to good crop.

Arizona winter lettuce harvest was virtually complete. Mixed vegetables were shipped from the Salt River Valley. California vegetable harvest consisted mostly of broccoli, carrots, cauliflower, celery, and sweet corn.

PASTURES AND LIVESTOCK: Dryness slowed pasture growth in the Southeast, and cold weather slowed growth in most northern areas. Livestock was mostly good. Freezing temperatures caused problems in some States.

AUSTRALIA . . . Moderate rain (25 to 50mm) fell in southern Victoria, benefiting wheat planting in extreme southern areas. Light showers, less than 10mm, for the second week in the rest of Victoria, South Australia, and southern New South Wales may allow some wheat planting to progress. Dry weather covered northern New South Wales and southeastern Queensland where wheat planting will make very little progress until substantial rain arrives. A tropical low pressure area brought heavy rain (50 to 125mm) to the northern sugar area in Queensland late in the week. Some local flooding is suspected, but winds remained moderate. Little or no damage likely resulted.



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