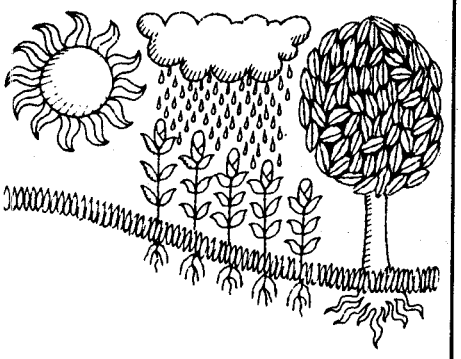
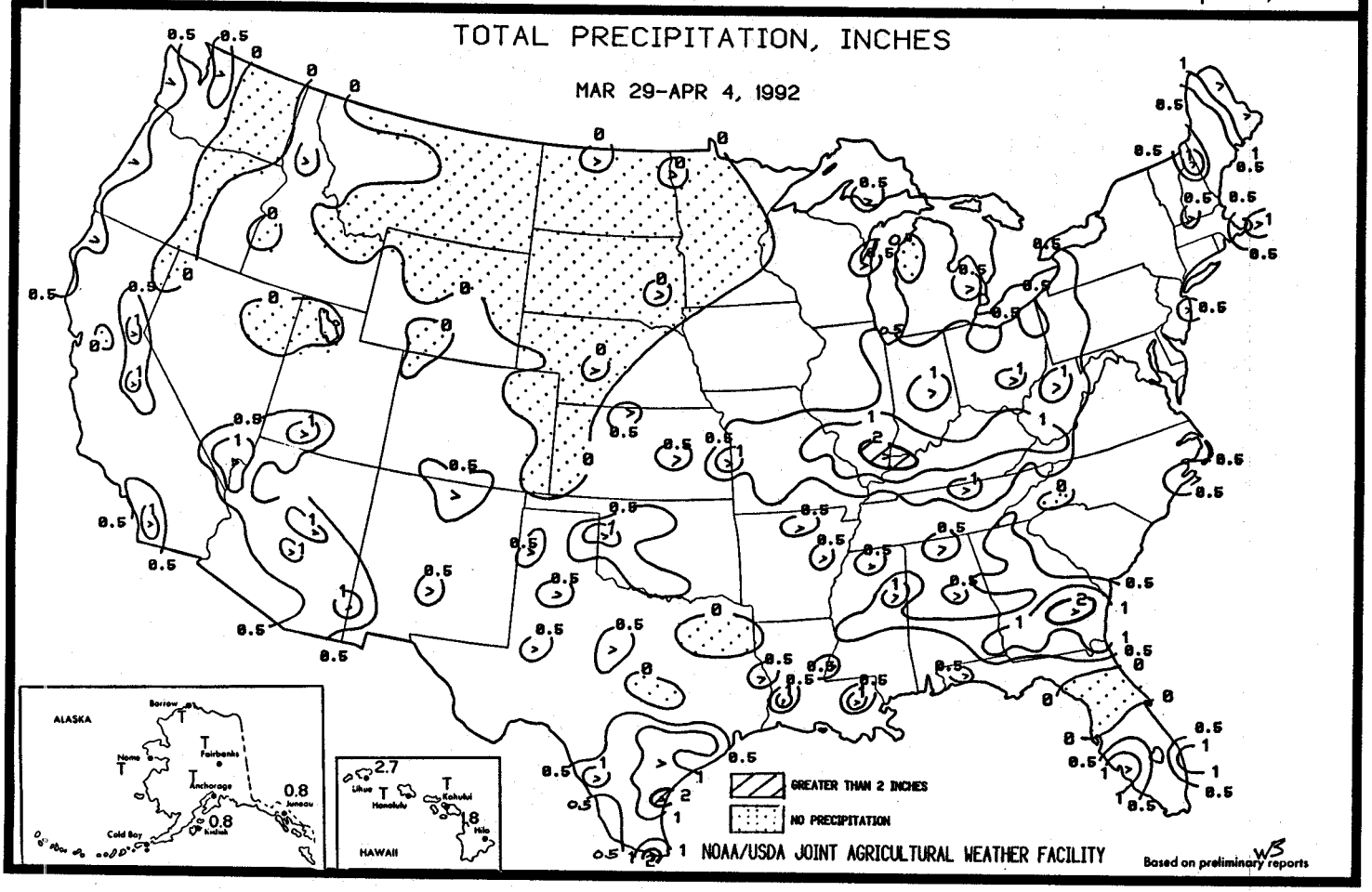


WEEKLY WEATHER AND CROP BULLETIN

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

Volume 79, No. 14 | Washington, D.C. | April 7, 1992



HIGHLIGHTS

March 29 - April 4, 1992

Subtropical moisture overran a pair of Canadian cold fronts, producing unsettled weather in the **South**, and easing drought in the **Ohio Valley**. Winter-like weather continued in the **East**, while very warm, dry conditions heightened moisture concerns in the **Northwestern States**. Early in the week, a storm center tracked from **Kansas** to **Virginia**, dousing the **Ohio and middle Mississippi Valleys** with up to 2 inches of rain. Strong thunderstorms rumbled through the **Southeast**, dropping heavy rain on **southern Georgia**. Meanwhile, the storm's trailing cold front interacted with Pacific moisture to produce heavy rain in the **Southwest**. More than 1 inch of rain caused flash flooding in **Las Vegas, NV**. At midweek, cold air barrelled out of Canada. The Nation's lowest temperature on Wednesday was 8°F in **Alliance, NE**. Between Thursday and Saturday, 45 daily record lows were set in the **East**.

(Continued to back cover)

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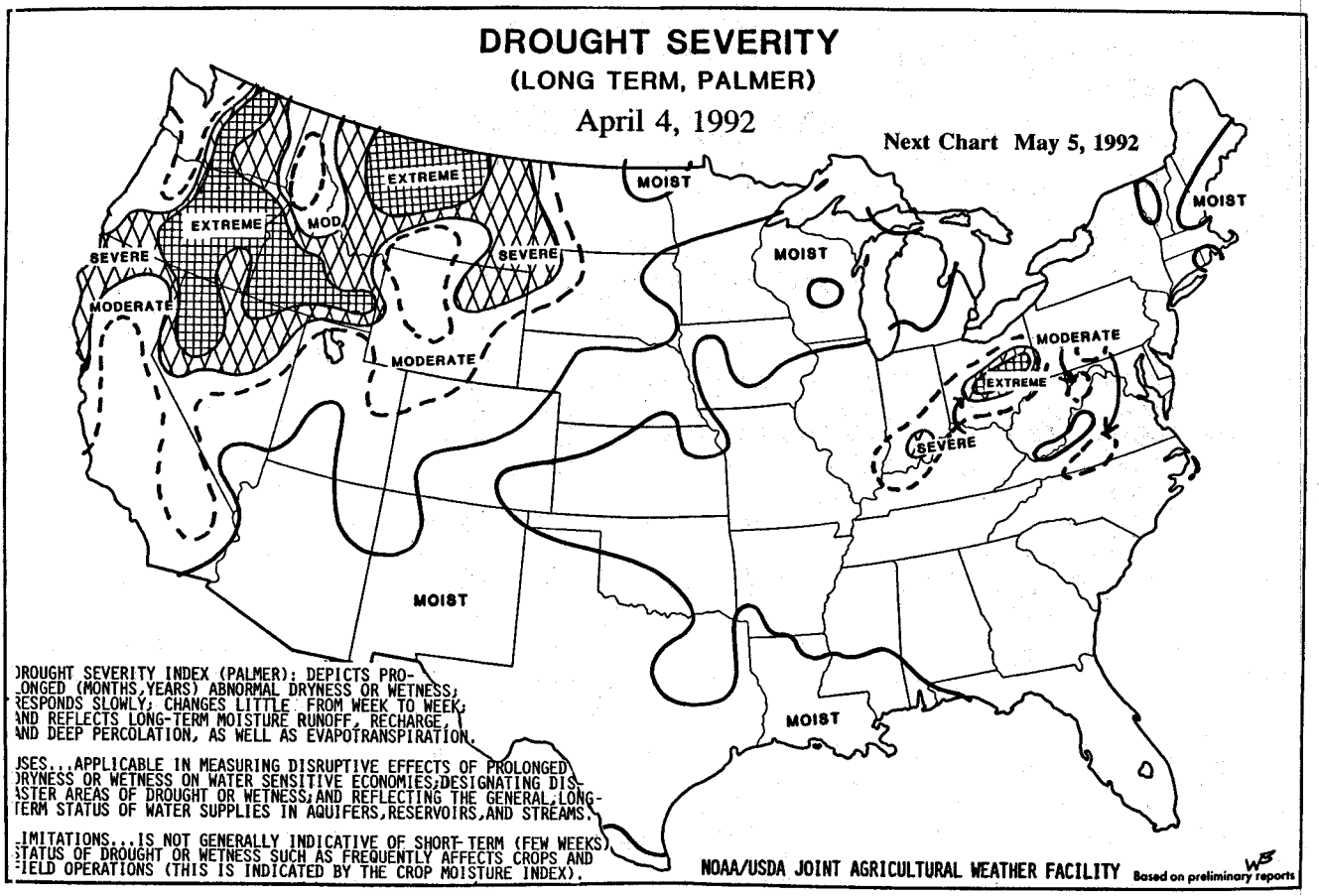
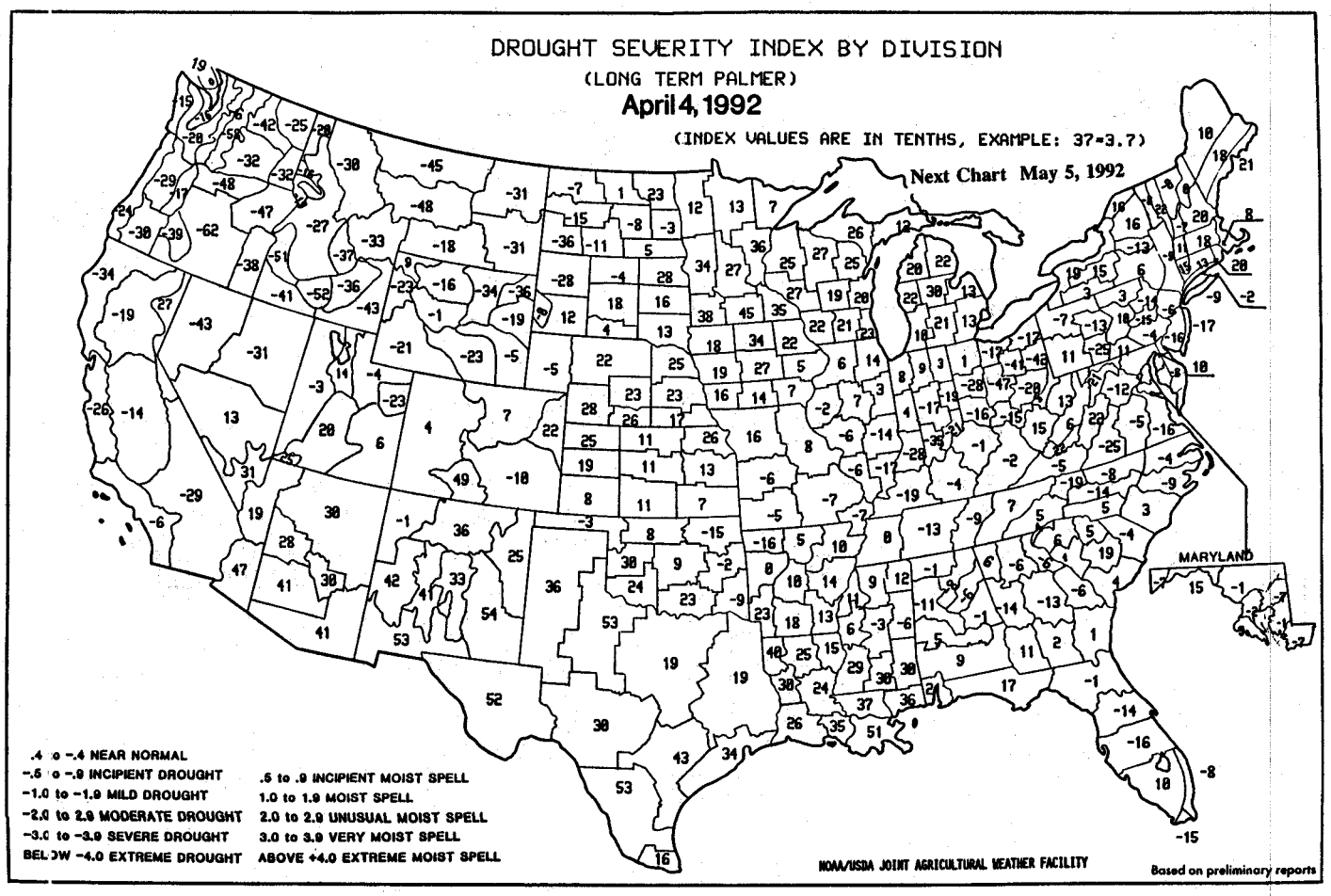
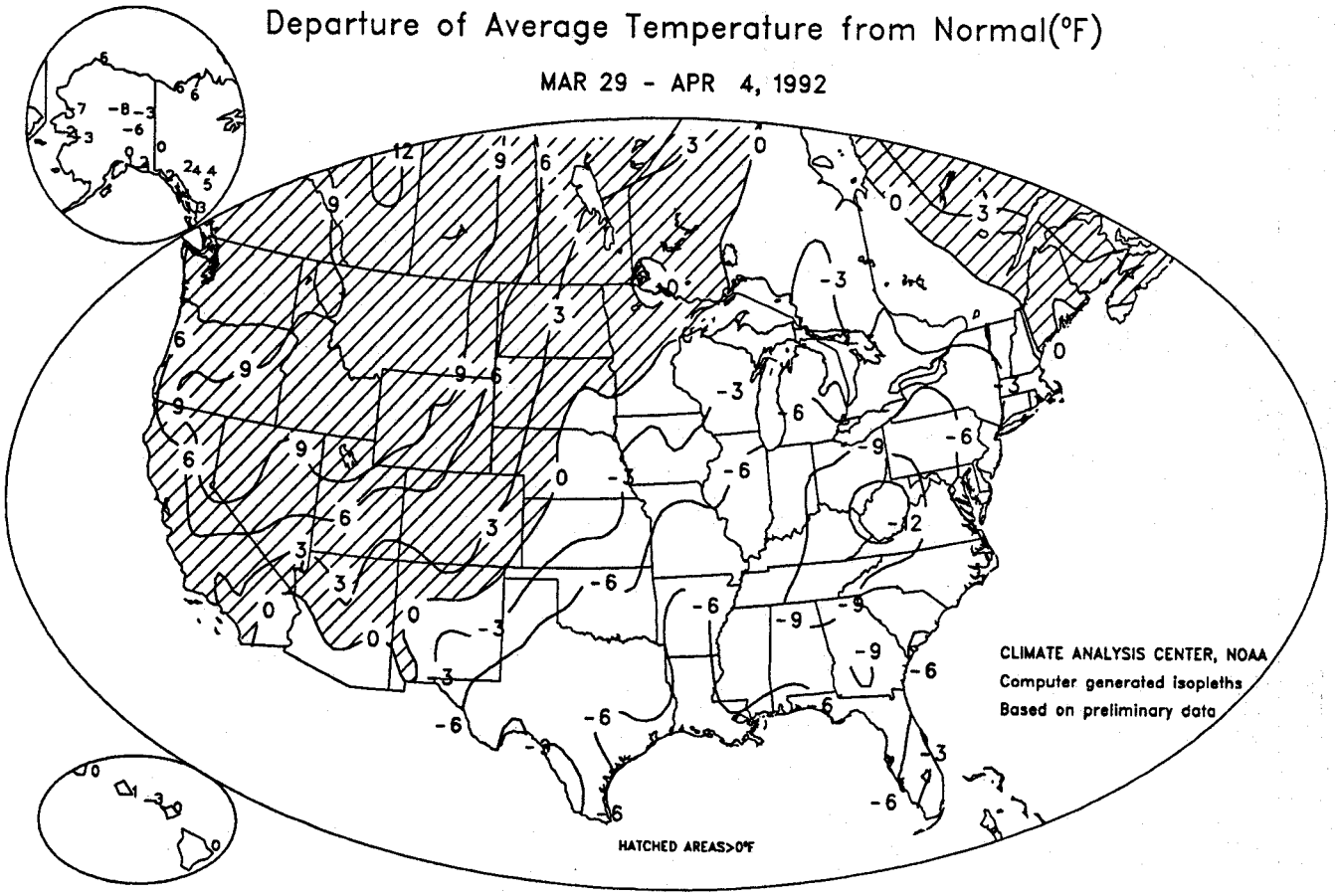
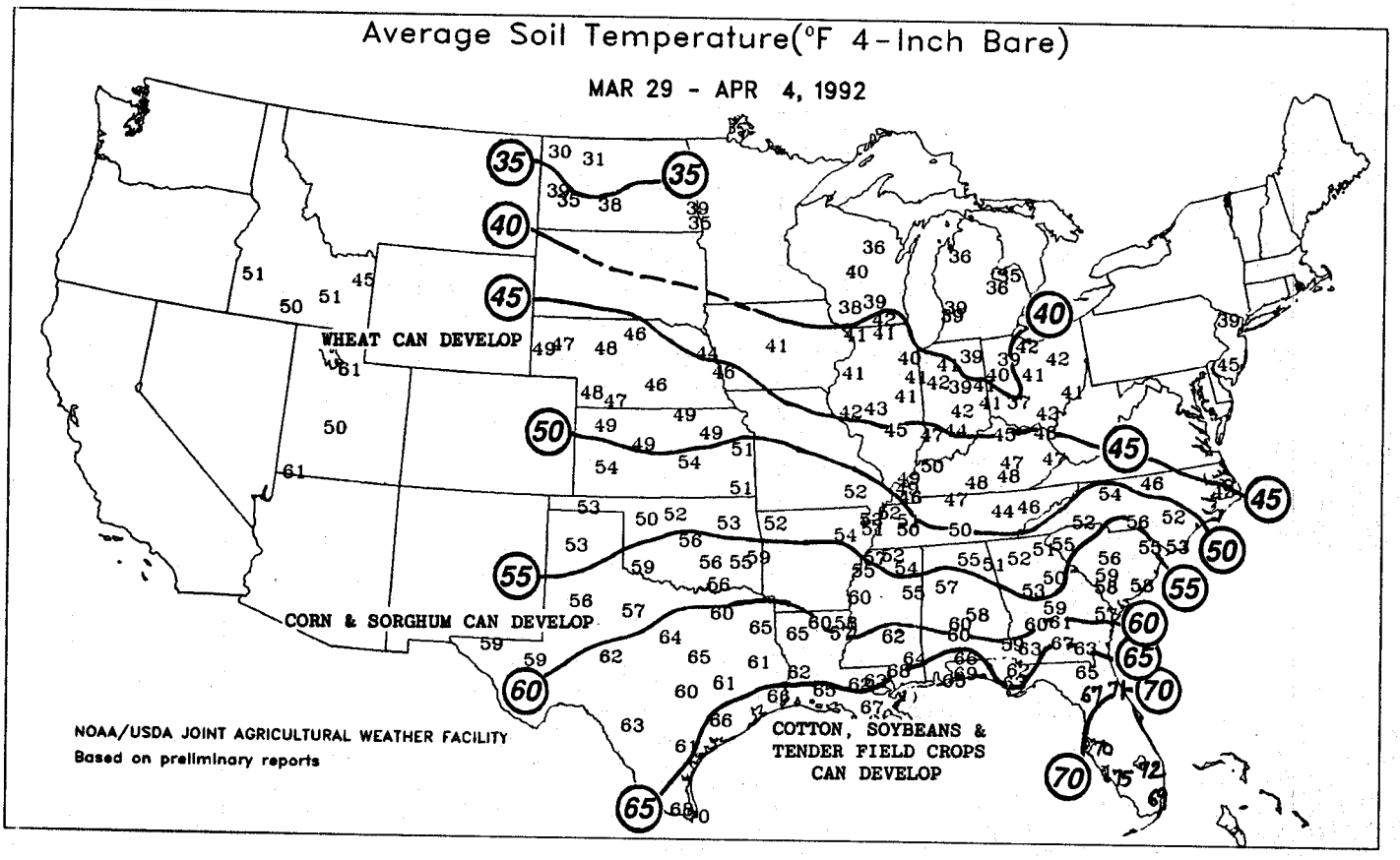
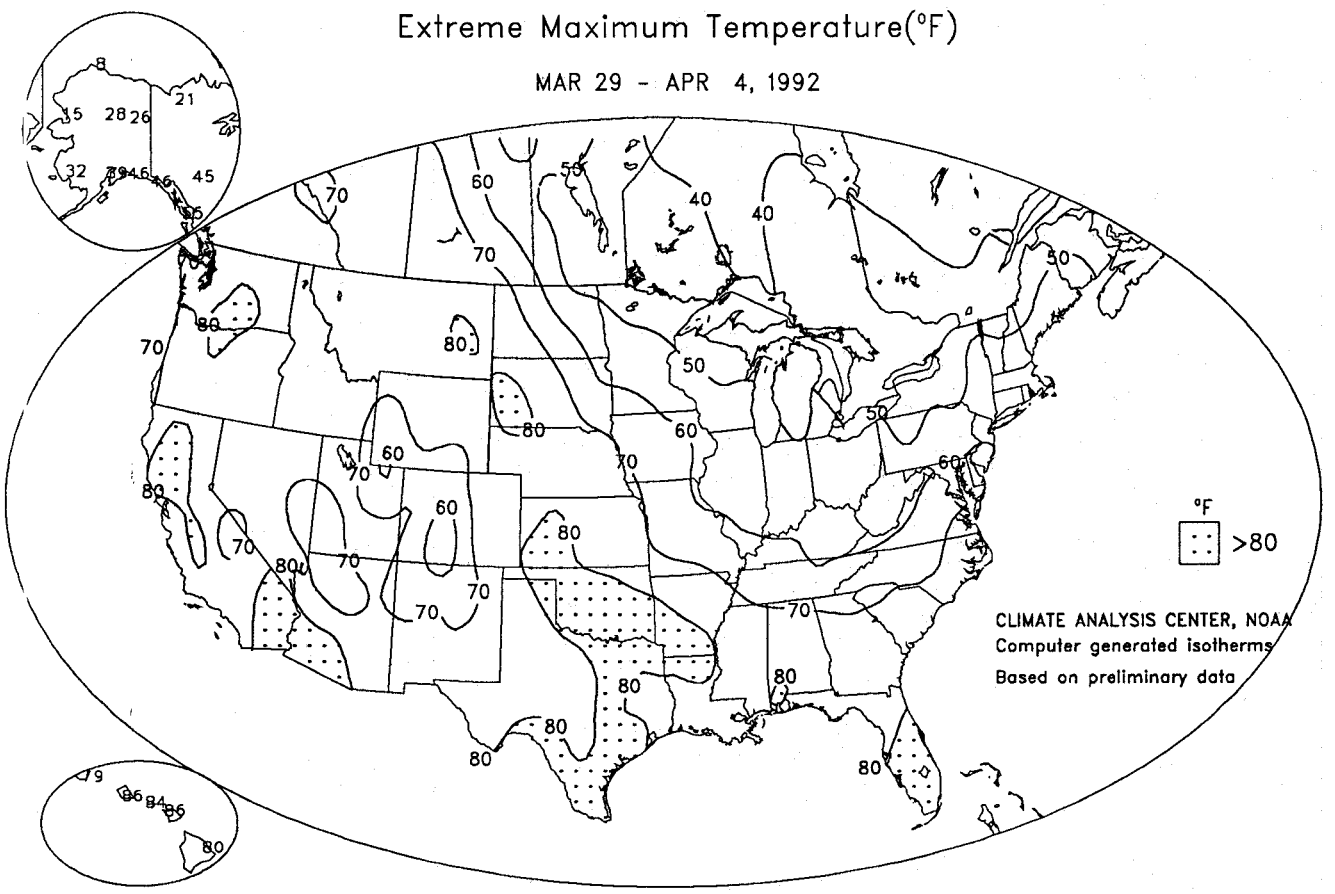
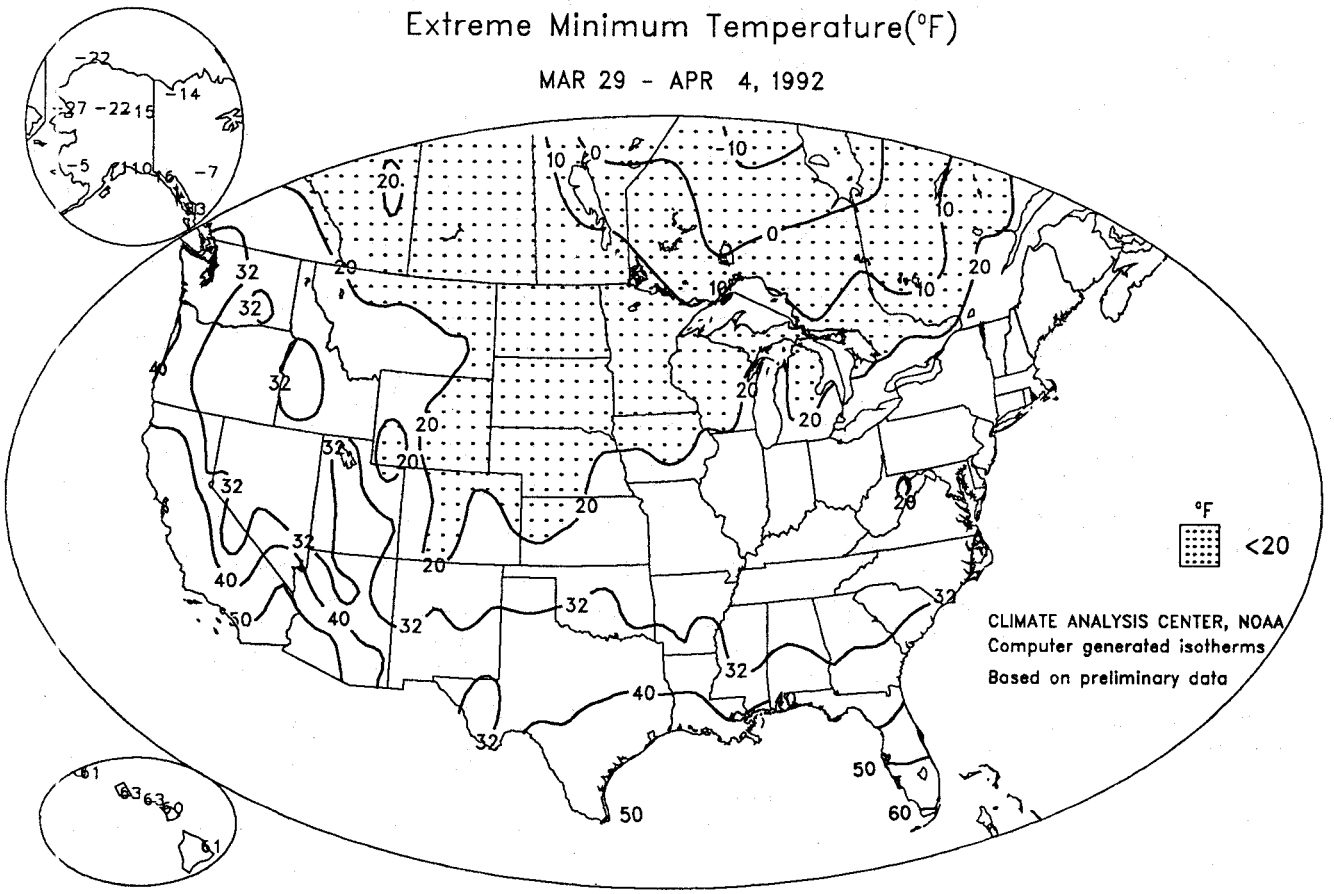

DROUGHT SEVERITY
(LONG TERM, PALMER)
April 4, 1992
Next Chart May 5, 1992
EXTREME
SEVERE
MOD
MODERATE
MOIST
DROUGHT SEVERITY INDEX (PALMER): DEPICTS PRO-
LONGED (MONTHS,YEARS) ABNORMAL DRYNESS OR WETNESS;
RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK;
AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE,
AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.
USES...APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED
DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES;DESIGNATING DIS-
ASTER AREAS OF DROUGHT OR WETNESS;AND REFLECTING THE GENERAL,LONG-
TERM STATUS OF WATER SUPPLIES IN AQUIFERS,RESERVOIRS,AND STREAMS.
LIMITATIONS...IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS)
STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND
FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

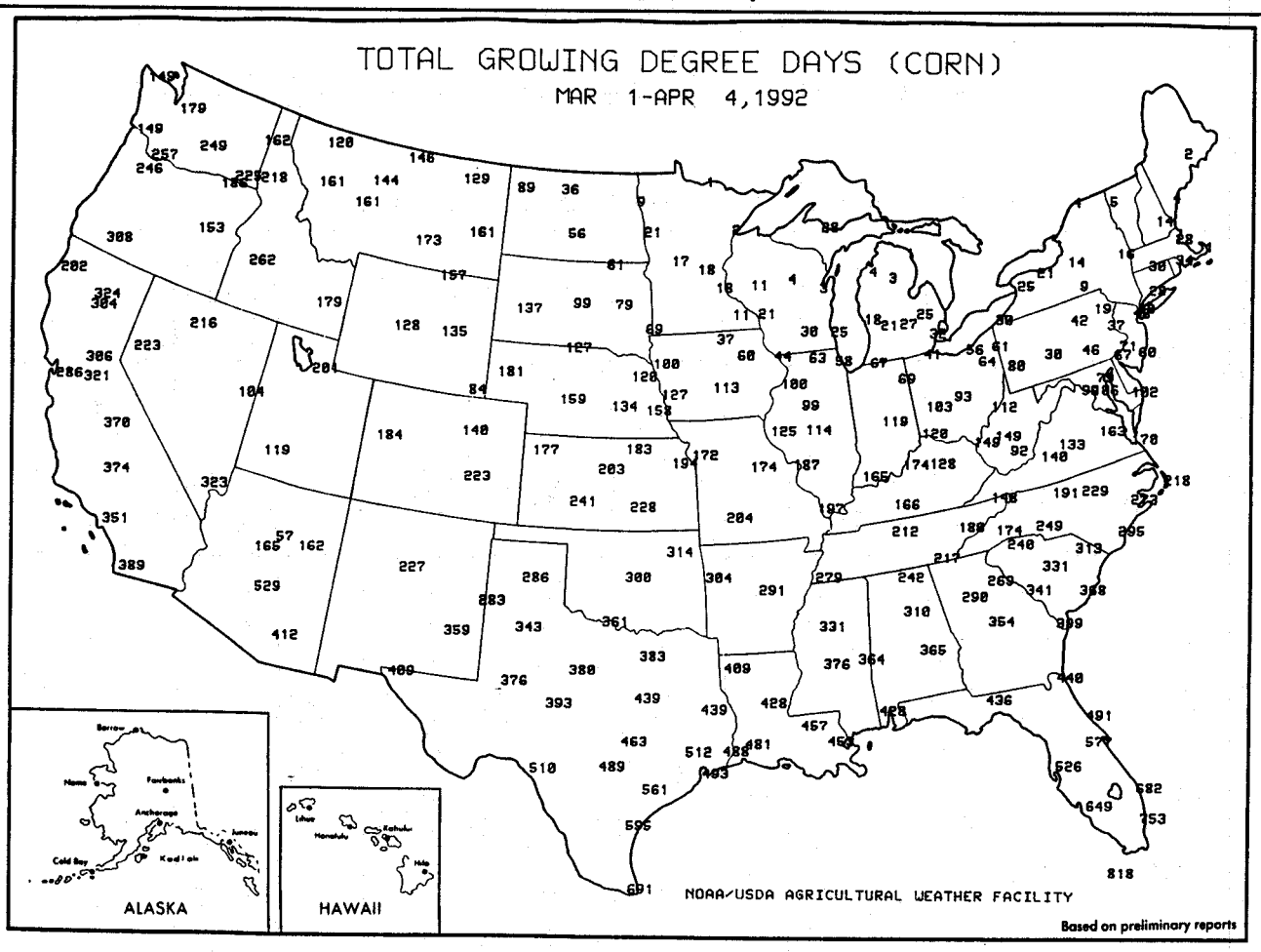

DROUGHT SEVERITY INDEX BY DIVISION
(LONG TERM PALMER)
April 4, 1992
(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37=3.7)
Next Chart May 5, 1992
MARYLAND
.4 to -.4 NEAR NORMAL
-.5 to -.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to 2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT
.5 to .9 INCIPIENT MOIST SPELL
1.0 to 1.9 MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
ABOVE +4.0 EXTREME MOIST SPELL
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

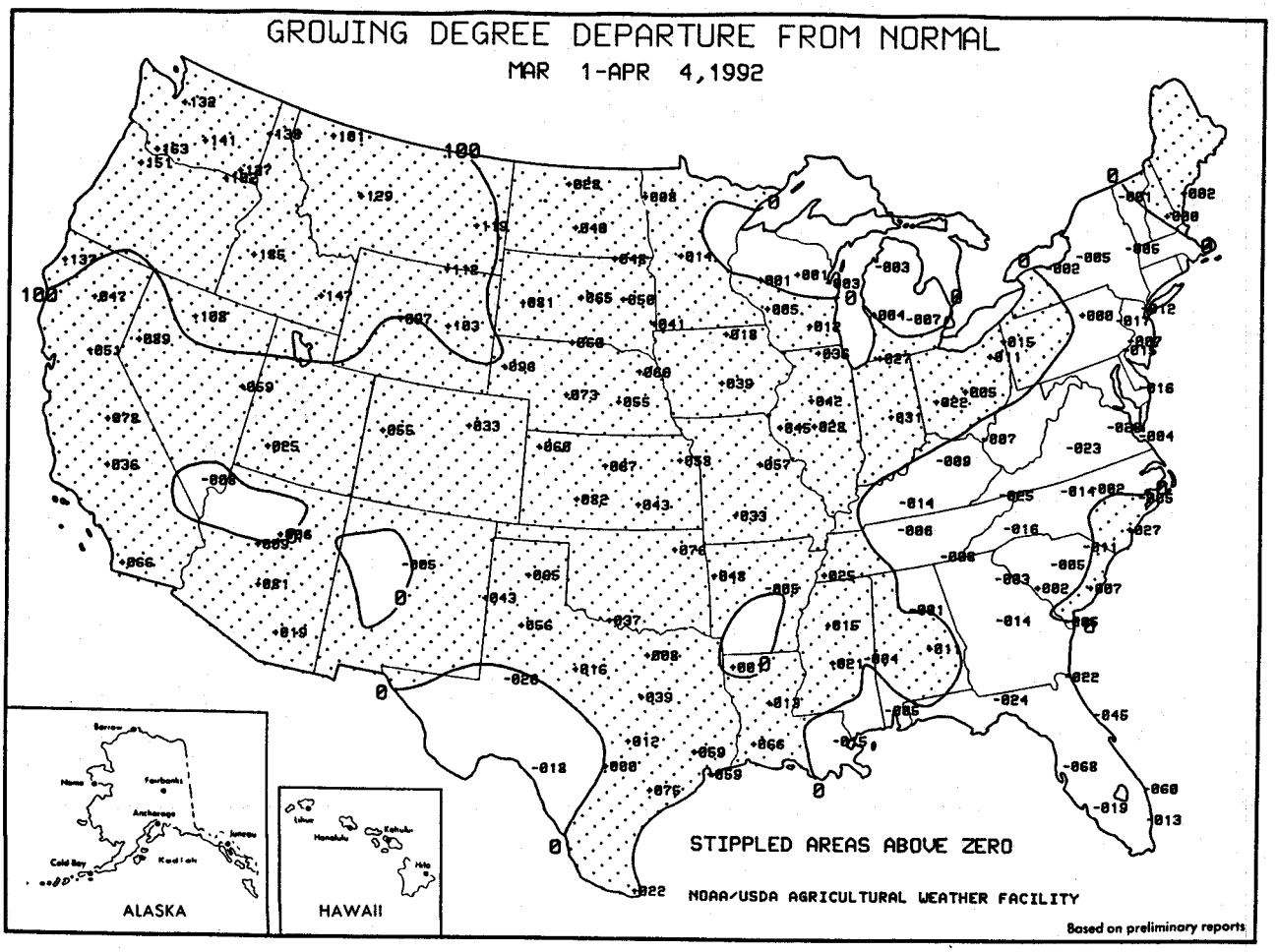

Departure of Average Temperature from Normal(°F)
MAR 29 - APR 4, 1992
CLIMATE ANALYSIS CENTER, NOAA
Computer generated isopleths
Based on preliminary data
HATCHED AREAS>0°F


Average Soil Temperature(°F 4-Inch Bare)
MAR 29 - APR 4, 1992
WHEAT CAN DEVELOP
CORN & SORGHUM CAN DEVELOP
COTTON, SOYBEANS & TENDER FIELD CROPS CAN DEVELOP
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


Extreme Maximum Temperature(°F)
MAR 29 - APR 4, 1992
°F
>80
CLIMATE ANALYSIS CENTER, NOAA
Computer generated isotherms
Based on preliminary data


Extreme Minimum Temperature(°F)
MAR 29 - APR 4, 1992
°F
<20
CLIMATE ANALYSIS CENTER, NOAA
Computer generated isotherms
Based on preliminary data


TOTAL GROWING DEGREE DAYS (CORN)
MAR 1-APR 4,1992
ALASKA
HAWAII
NOAA/USDA AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


GROWING DEGREE DEPARTURE FROM NORMAL
MAR 1-APR 4,1992
ALASKA
HAWAII
STIPPLED AREAS ABOVE ZERO
NOAA/USDA AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

National Weather Data for Selected Cities

Weather Data for the Week Ending April 4, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	64	38	74	27	51	-8	.3	-1.1	.3	3.4	46	11.1	64	86	36	0	2	1	0
MOBILE	72	49	81	40	60	-4	T	-1.3	T	3.6	50	23.5	139	91	34	0	0	1	0
MONTGOMERY	68	41	75	33	54	-7	.5	-.7	.5	3.8	58	19.8	129	90	39	0	0	2	0
AK ANCHORAGE	37	20	43	8	29	-1	T	-.2	T	.3	42	2.5	105	78	40	0	7	0	0
BARROW	4	-10	8	-22	-3	6	T	-.1	T	.1	75	.3	52	85	77	0	7	0	0
FAIRBANKS	27	1	35	-8	14	-6	T	.0	T	.1	23	1.6	114	88	49	0	7	1	0
JUNEAU	45	33	49	25	39	4	1.7	1.0	.6	7.6	206	23.5	210	98	64	0	2	6	2
KODIAK	41	29	45	21	35	1	.8	.0	.4	5.6	129	16.8	110	80	53	0	6	4	0
NOME	18	1	31	-16	9	-2	T	-.1	T	1.2	190	2.1	108	91	76	0	7	2	0
AZ PHOENIX	77	57	82	52	67	2	.5	.4	.3	3.0	351	5.5	255	81	34	0	0	3	0
PRESCOTT	61	38	70	34	49	1	.7	.5	.3	1.6	176	5.2	193	86	33	0	0	4	0
TUCSON	74	48	78	44	61	-1	.2	.1	.2	2.3	312	5.3	244	93	30	0	0	2	0
YUMA	77	57	86	55	67	-1	.2	.1	.1	1.6	>1000	2.9	367	--	--	0	0	2	0
AR FORT SMITH	64	37	83	30	50	-6	.1	-.8	.1	2.3	52	5.2	59	89	36	0	3	3	0
LITTLE ROCK	63	43	78	34	53	-5	.1	-1.1	.1	7.6	141	11.7	89	68	43	0	0	2	0
CA BAKERSFIELD	73	51	85	49	62	3	.2	.1	.2	1.9	194	5.6	184	91	45	0	0	2	0
EUREKA	61	48	68	44	55	6	.8	-.1	.7	3.6	65	11.3	64	89	65	0	0	2	1
FRESNO	73	51	82	49	62	5	.3	.0	.3	2.1	120	8.8	154	87	45	0	0	1	0
LOS ANGELES	68	57	75	53	63	4	.3	.0	.2	5.3	278	11.6	155	89	61	0	0	2	0
REDDING	74	50	87	45	62	5	T	-.9	T	3.4	63	16.6	82	84	40	0	0	1	0
SACRAMENTO	71	49	83	45	60	4	.0	-.4	.0	2.0	90	8.9	96	95	55	0	0	0	0
SAN DIEGO	68	58	71	55	63	3	.8	.5	.5	4.7	272	9.9	186	84	57	0	0	2	1
SAN FRANCISCO	65	52	73	49	58	4	.1	-.4	.1	4.1	144	12.6	117	90	61	0	0	1	0
CO DENVER	60	35	73	26	48	5	T	-.3	T	3.5	248	4.8	183	81	29	0	3	1	0
GRAND JUNCTION	67	39	73	34	53	6	T	-.2	T	1.7	209	2.3	114	79	25	0	0	1	0
PUEBLO	64	32	79	27	48	2	.1	-.1	.1	1.4	173	1.6	122	70	25	0	5	2	0
CT BRIDGEPORT	52	34	57	31	43	-1	.2	-.7	.1	3.7	83	7.7	72	66	29	0	3	3	0
HARTFORD	52	32	57	29	42	-2	.3	-.7	.2	3.8	82	8.8	76	75	26	0	5	3	0
DC WASHINGTON	56	37	65	31	46	-5	.1	-.6	.1	3.5	92	8.6	92	78	32	0	3	3	0
FL APALACHICOLA	71	50	78	40	60	-4	.0	-.9	.0	2.1	46	17.3	146	--	--	0	0	0	0
DAYTONA BEACH	75	50	82	43	62	-5	T	-.6	T	2.3	70	6.4	72	94	38	0	0	0	0
JACKSONVILLE	71	46	79	38	58	-8	1.1	.4	1.1	4.1	108	12.5	120	94	36	0	0	1	1
KEY WEST	78	70	83	66	74	-2	.2	-.1	.1	3.0	219	4.5	88	87	64	0	0	3	0
MIAMI	80	62	87	57	71	-3	.6	.1	.6	3.2	148	6.5	103	93	49	0	0	1	1
ORLANDO	76	54	83	47	65	-5	T	-.6	T	3.7	103	7.5	83	94	39	0	0	1	0
TALLAHASSEE	71	41	79	31	56	-8	.1	-1.0	.1	3.8	63	16.8	105	93	33	0	1	1	0
TAMPA	72	53	77	45	63	-6	.1	-.5	.1	1.0	26	6.1	68	89	49	0	0	1	0
WEST PALM BEACH	79	59	85	54	69	-3	1.1	.5	.9	3.5	114	8.4	100	94	46	0	0	2	1
GA ATLANTA	63	39	72	29	51	-7	.4	-.8	.4	3.8	58	11.3	71	75	35	0	2	2	0
AUGUSTA	67	37	74	27	52	-7	.3	-.7	.3	3.7	69	12.8	94	95	35	0	2	1	0
MACON	65	38	74	31	52	-10	.4	-.6	.4	3.6	63	14.1	97	95	37	0	3	2	0
SAVANNAH	68	45	73	38	57	-6	1.0	.2	1.0	4.0	94	12.8	121	88	37	0	0	1	1
HI HILO	79	63	80	61	71	-1	1.8	-1.4	.8	5.3	34	7.9	20	93	60	0	0	6	1
HONOLULU	84	68	86	63	76	1	T	-.5	T	.7	19	2.5	24	79	47	0	0	0	0
KAHULUI	84	64	86	60	74	1	T	-.4	T	.4	12	3.8	38	86	49	0	0	0	0
LIHUE	79	67	79	61	73	0	2.7	1.8	2.7	4.3	86	8.6	57	85	62	0	0	1	1
ID BOISE	72	41	77	37	57	12	T	-.3	T	.2	15	1.4	37	72	25	0	0	0	0
LEWISTON	69	43	80	32	56	9	.0	-.3	.0	.4	36	1.9	53	68	29	0	1	0	0
POCATELLO	68	32	76	27	50	10	T	-.2	T	.5	44	1.3	44	80	21	0	5	1	0
IL CHICAGO	45	29	52	24	37	-6	.6	-.2	.3	2.8	87	5.1	83	90	47	0	6	4	0
MOLINE	51	31	58	25	41	-3	.1	-.7	.1	1.1	33	4.2	67	86	38	0	6	2	0
PEORIA	49	31	55	26	40	-5	.3	-.5	.2	2.7	80	5.3	82	92	45	0	5	3	0
QUINCY	50	32	58	24	41	-6	.1	-.7	.1	2.3	62	4.3	66	85	47	0	4	3	0
ROCKFORD	46	29	54	23	38	-4	T	-.8	T	2.0	64	4.3	75	88	41	0	6	1	0
SPRINGFIELD	49	32	57	27	41	-7	.3	-.6	.3	2.4	66	5.0	72	92	53	0	4	2	0
IN EVANSVILLE	52	35	59	29	44	-8	1.5	.5	.8	4.5	87	6.9	61	85	45	0	3	2	2
FORT WAYNE	43	28	54	22	35	-8	.6	-.2	.3	3.3	94	6.3	83	94	54	0	6	4	0
INDIANAPOLIS	45	30	56	24	38	-9	1.0	.2	.4	3.1	77	5.7	62	100	56	0	6	7	0
SOUTH BEND	43	27	55	20	35	-8	.4	-.5	.2	3.0	82	6.4	78	94	52	0	6	6	0
IA DES MOINES	51	31	66	19	41	-2	.2	-.4	.2	2.1	82	5.2	111	77	38	0	3	1	0
SIOUX CITY	53	28	71	20	40	-2	.1	-.4	.1	3.5	178	4.9	136	82	33	0	5	1	0
WATERLOO	49	29	62	17	39	-1	T	-.7	T	2.3	85	4.8	108	85	42	0	5	1	0
KS CONCORDIA	59	33	79	23	46	-1	.4	.0	.4	2.1	97	3.7	101	84	35	0	4	2	0
DODGE CITY	62	31	82	22	47	-2	T	-.3	T	1.4	86	2.2	82	82	31	0	4	1	0
GOODLAND	60	27	77	15	44	0	.0	-.2	.0	1.9	169	2.6	140	81	26	0	5	0	0
TOPEKA	59	34	74	26	46	-3	.4	-.3	.3	5.3	204	7.4	161	88	37	0	3	2	0
WICHITA	59	35	75	28	47	-4	.2	-.3	.2	3.6	152	4.7	120	87	45	0	3	1	0
KY BOWLING GREEN	52	36	61	25	44	-8	.8	-.4	.7	6.2	102	11.3	76	80	44	0	2	3	1
LEXINGTON	49	33	56	24	41	-9	1.0	-.1	.6	5.1	94	10.6	86	88	48	0	3	4	1
LOUISVILLE	52	36	60	28	44	-8	.9	-.1	.6	6.0	113	9.7	81	87	46	0	2	4	1
LA ALEXANDRIA	68	49	75	41	59	-4	T	-1.2	T	5.7	100	18.6	125	89	47	0	0	1	0
BATON ROUGE	69	49	75	41	59	-6	.2	-1.1	.2	4.5	84	21.7	144	91	45	0	0	1	0
LAKE CHARLES	70	52	77	47	61	-5	T	-.7	T	4.1	115	19.0	164	96	50	0	0	1	0
NEW ORLEANS	70	50	76	38	60	-5	.3	-.8	.3	6.9	130	25.6	164	91	47	0	0	1	0

Based on 1951-80 normals.

Weather Data for the Week Ending April 4, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	69	44	81	34	56	-6	T	-1.0	T	5.9	135	17.0	142	86	39	0	0	0	0
ME CARIBOU	40	28	48	22	34	2	.9	.3	.4	2.7	98	9.2	126	90	61	0	7	4	0
PORTLAND	47	29	54	25	38	0	.1	-.8	.1	3.9	87	12.2	102	78	37	0	6	1	0
MD BALTIMORE	53	33	62	25	43	-6	.1	-.7	.1	4.6	111	8.4	82	77	32	0	5	3	0
SALISBURY	56	32	70	25	44	-6	.4	-.5	.4	3.6	80	9.6	84	82	30	0	3	1	0
MA BOSTON	50	36	57	33	43	-1	.3	-.6	.3	3.6	78	9.0	72	76	39	0	0	2	0
CHATHAM	45	34	51	31	40	-1	1.1	.2	.7	3.7	82	7.3	55	88	59	0	2	4	1
MI ALPENA	42	22	50	18	32	-3	T	-.5	T	1.5	69	4.9	93	90	37	0	7	1	0
DETROIT	44	28	56	22	36	-6	.4	-.3	.2	3.4	114	6.7	102	87	44	0	5	6	0
FLINT	42	25	49	20	34	-6	.6	.0	.2	2.8	112	5.6	99	93	47	0	7	7	0
GRAND RAPIDS	42	27	47	20	34	-6	.3	-.5	.1	3.6	117	6.2	94	97	47	0	6	4	0
HOUGHTON LAKE	40	22	48	13	31	-4	.2	-.4	.2	1.8	82	4.5	89	88	42	0	7	1	0
LANSING	42	26	46	21	34	-6	.4	-.2	.2	2.9	104	5.7	97	93	54	0	7	5	0
MARQUETTE	37	19	46	16	28	-2	.6	-.2	.4	3.0	92	7.0	96	92	57	0	7	3	0
MUSKEGON	42	29	48	21	35	-4	T	-.7	T	2.3	79	5.1	72	92	51	0	6	3	0
SAULT ST. MARIE	37	19	46	14	28	-4	.1	-.5	.1	1.6	68	5.5	89	90	52	0	7	2	0
MN ALEXANDRIA	46	24	54	16	35	1	T	-.4	T	1.6	106	2.9	94	79	35	0	7	0	0
DULUTH	42	24	48	14	33	1	T	-.4	T	.8	41	2.0	49	73	38	0	7	1	0
INT'L FALLS	39	21	44	12	30	0	.1	-.3	.0	.6	44	2.9	102	83	38	0	7	2	0
MINNEAPOLIS	47	27	57	21	37	-1	T	-.4	T	1.6	80	2.8	78	73	34	0	6	0	0
ROCHESTER	43	27	55	19	35	-3	.2	-.4	.2	2.5	121	4.1	113	84	50	0	6	1	0
MS GREENWOOD	64	42	76	30	53	-7	.1	-1.3	.1	3.9	56	9.6	57	90	45	0	2	1	0
JACKSON	67	42	76	30	55	-7	.1	-1.2	.1	2.1	33	10.2	65	93	44	0	1	2	0
MERIDIAN	67	42	76	30	55	-6	.1	-1.3	.1	4.3	58	15.3	89	90	38	0	1	1	0
MO CAPE GIRARDEAU	56	37	62	28	46	--	.9	-.2	.8	3.3	59	8.6	74	87	40	0	2	2	1
COLUMBIA	52	32	61	23	42	-8	.7	-.2	.7	3.8	99	6.3	83	85	48	0	4	3	1
KANSAS CITY	56	33	70	24	44	-6	.5	-.2	.5	3.8	123	7.0	126	85	38	0	4	1	1
SAINT LOUIS	54	36	62	30	45	-6	1.4	.6	.8	3.5	92	6.4	84	81	45	0	2	3	2
SPRINGFIELD	56	33	70	24	45	-6	.7	-.2	.7	2.2	56	5.3	68	86	41	0	4	3	1
MT BILLINGS	66	35	80	26	51	11	T	-.4	T	.7	52	.9	29	55	22	0	3	0	0
GLASGOW	62	28	81	14	45	9	T	-.1	T	.5	122	.7	71	57	18	0	4	0	0
GREAT FALLS	64	30	76	19	47	9	.3	.0	.3	.7	69	1.4	52	69	22	0	5	1	0
HAVRE	63	27	77	17	45	8	.0	-.2	.0	.1	20	.3	19	62	22	0	5	0	0
HELENA	66	32	76	28	49	12	.1	-.1	.1	.7	81	1.1	54	76	24	0	5	1	0
KALISPELL	63	28	70	23	46	8	.0	-.2	.0	.9	98	2.9	80	86	26	0	6	0	0
MILES CITY	64	32	81	24	48	9	T	-.2	T	.5	64	.6	29	56	20	0	4	0	0
MISSOULA	65	30	73	23	48	8	.2	.0	.2	1.4	153	2.0	64	87	29	0	3	1	0
NE GRAND ISLAND	56	28	77	20	42	-1	T	-.5	T	3.0	159	5.7	181	83	32	0	5	1	0
LINCOLN	58	30	78	20	44	-1	.2	-.4	.2	2.5	107	4.8	119	81	32	0	5	2	0
NORFOLK	55	28	72	21	41	-1	T	-.4	T	2.5	140	4.6	149	80	32	0	5	2	0
NORTH PLATTE	59	25	80	15	42	1	T	-.3	T	3.0	232	5.3	240	90	25	0	6	1	0
OMAHA	53	31	69	23	42	-4	.1	-.4	.1	3.7	164	6.2	159	72	40	0	4	2	0
SCOTTSBLUFF	64	26	78	10	45	4	.0	-.3	.0	1.2	106	2.9	145	71	20	0	6	0	0
VALENTINE	59	21	79	10	40	1	.0	-.3	.0	1.4	136	2.2	117	79	24	0	5	0	0
NV ELY	63	27	70	21	45	8	T	-.2	T	1.4	134	2.6	105	72	23	0	6	1	0
LAS VEGAS	73	51	81	49	62	3	1.3	1.3	.9	4.8	>1000	6.6	482	88	41	0	0	4	1
RENO	69	39	76	34	54	11	.2	.0	.1	.7	88	1.3	42	73	23	0	0	2	0
WINNEMUCCA	69	34	77	28	52	10	T	-.2	T	1.0	138	1.3	57	74	23	0	3	1	0
NH CONCORD	47	27	54	21	37	-1	.2	-.5	.2	2.8	82	6.0	70	85	34	0	7	1	0
NJ ATLANTIC CITY	54	30	60	24	42	-4	.2	-.6	.1	3.0	67	6.1	53	82	29	0	5	3	0
NM ALBUQUERQUE	63	38	73	34	51	0	.1	.0	.1	.6	115	1.4	108	79	31	0	0	2	0
CLOVIS	62	38	74	33	50	-2	.2	.1	.2	.5	89	2.7	179	78	33	0	0	1	0
ROSWELL	65	41	77	33	53	-3	.2	.1	.1	.3	74	1.9	154	79	34	0	0	2	0
NY ALBANY	48	29	53	26	39	-2	.1	-.6	.1	1.7	49	4.8	60	79	30	0	7	2	0
BINGHAMTON	39	27	47	23	33	-5	.2	-.5	.1	3.4	100	7.0	85	86	43	0	6	2	0
BUFFALO	39	29	46	25	34	-6	.6	-.1	.4	3.4	101	7.9	89	89	50	0	6	5	0
NEW YORK	52	38	57	35	45	-2	.2	-.7	.1	4.2	90	7.0	64	68	27	0	0	3	0
ROCHESTER	41	27	48	23	34	-6	.2	-.4	.2	3.7	129	7.1	93	92	47	0	7	1	0
SYRACUSE	43	29	50	24	36	-4	.3	-.5	.2	4.1	115	9.2	104	87	38	0	6	4	0
NC ASHEVILLE	56	32	63	26	44	-7	T	-.9	T	3.5	67	10.3	87	82	33	0	4	0	0
CHARLOTTE	63	40	69	29	51	-5	.1	-.8	.1	4.9	94	12.5	97	72	28	0	1	1	0
GREENSBORO	58	34	67	25	46	-8	.1	-.7	.1	2.8	66	9.4	83	79	30	0	3	2	0
HATTERAS	60	43	72	37	51	-4	.3	-.5	.1	7.9	180	16.5	124	88	38	0	0	3	0
NEW BERN	63	37	73	31	50	-8	.5	-.2	.2	3.1	79	11.9	99	91	40	0	2	3	0
RALEIGH	59	36	67	28	48	-7	.1	-.6	.1	3.1	76	9.1	82	80	29	0	2	1	0
WILMINGTON	64	39	71	31	52	-8	.4	-.4	.3	5.9	133	15.1	130	85	37	0	1	2	0
ND BISMARCK	54	22	69	11	38	3	T	-.3	T	.6	71	1.3	73	82	25	0	6	0	0
FARGO	49	22	56	14	36	1	T	-.3	T	1.1	100	2.5	124	86	28	0	7	0	0
GRAND FORKS	46	24	53	19	35	3	T	-.2	T	.8	84	1.8	81	86	35	0	7	1	0
WILLISTON	58	22	75	16	40	5	T	-.2	T	.6	80	1.1	69	87	25	0	6	0	0
OH AKRON-CANTON	42	25	53	20	34	-9	.5	-.3	.2	4.1	108	8.0	93	94	53	0	7	3	0
CINCINNATI	47	31	55	23	39	-9	.8	-.1	.4	4.6	103	8.5	82	92	52	0	4	6	0
CLEVELAND	43	29	55	25	36	-7	.6	-.2	.3	3.3	97	9.3	114	92	51	0	6	4	0
COLUMBUS	44	29	54	23	37	-10	.6	-.2	.4	3.5	96	6.2	71	95	57	0	5	4	0

Based on 1951-80 normals.

Weather Data for the Week Ending April 4, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTRME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	42	29	54	20	35	-11	.5	-.2	.2	3.1	88	7.1	86	92	54	0	5	6	0
TOLEDO	44	28	55	22	36	-6	.6	-.1	.2	3.2	107	6.6	96	91	47	0	5	5	0
YOUNGSTOWN	43	26	53	20	35	-8	.5	-.3	.3	3.8	101	7.6	88	93	51	0	7	4	0
OK OKLAHOMA CITY	63	40	84	32	51	-4	.1	-.4	.1	1.1	47	3.6	76	84	41	0	1	2	0
TULSA	63	40	79	33	52	-4	.3	-.6	.3	1.4	38	3.2	47	87	41	0	0	1	0
OR ASTORIA	60	43	70	37	51	5	.9	-.5	.7	2.0	25	17.0	64	96	63	0	0	4	1
BURNS	65	32	76	26	49	9	T	-.2	T	.5	49	1.6	45	83	26	0	4	1	0
MEDFORD	71	41	84	36	56	9	T	-.3	T	.4	21	1.9	25	95	40	0	0	1	0
PENDLETON	67	42	79	35	54	7	T	-.2	T	.3	22	1.7	42	73	33	0	0	0	0
PORTLAND	69	47	79	43	58	10	.2	-.4	.2	2.1	53	10.5	75	86	46	0	0	1	0
SALEM	68	42	76	38	55	8	.2	-.5	.2	1.1	24	10.3	63	92	49	0	0	2	0
PA ALLENTOWN	50	32	55	29	41	-4	.1	-.8	.1	3.4	76	6.6	61	76	32	0	4	3	0
ERIE	40	29	51	24	35	-6	.7	-.1	.2	2.6	78	7.1	90	90	50	0	5	5	0
HARRISBURG	49	34	56	26	41	-6	.2	-.5	.2	5.1	131	7.8	80	69	33	0	4	1	0
PHILADELPHIA	54	35	61	30	45	-4	.2	-.7	.1	3.2	73	5.4	51	70	30	0	3	2	0
PITTSBURGH	45	28	53	23	36	-9	.6	-.2	.4	3.8	93	7.6	82	95	52	0	5	4	0
SCRANTON	44	30	51	26	37	-6	.3	-.4	.2	2.7	90	5.4	73	83	43	0	5	4	0
RI PROVIDENCE	53	34	61	29	43	0	.5	-.5	.4	4.1	84	10.9	86	75	33	0	2	3	0
SC CHARLESTON	67	45	74	37	56	-5	.1	-.6	.1	3.6	76	10.8	94	84	32	0	0	1	0
COLUMBIA	67	39	73	28	53	-7	.1	-.9	.1	3.4	59	10.7	75	92	28	0	2	1	0
FLORENCE	65	41	70	30	53	-7	.2	-.6	.2	2.2	48	7.7	66	83	31	0	1	2	0
GREENVILLE	62	36	68	28	49	-7	.1	-1.1	.1	5.5	82	14.1	91	81	36	0	2	1	0
SD ABERDEEN	55	23	65	12	39	2	T	-.4	T	.5	45	1.7	71	86	22	0	6	0	0
HURON	55	22	67	13	38	0	T	-.4	T	.9	59	2.8	105	81	23	0	6	0	0
RAPID CITY	60	27	82	14	44	5	T	-.4	T	1.9	155	2.4	104	68	21	0	5	0	0
SIOUX FALLS	52	25	67	15	38	-1	T	-.5	T	2.4	127	4.9	147	80	30	0	6	0	0
TN CHATTANOOGA	57	36	68	25	46	-9	.4	-.8	.3	4.9	70	13.9	81	88	44	0	2	2	0
KNOXVILLE	55	36	64	25	45	-10	.3	-.8	.1	4.0	67	11.3	75	91	47	0	2	3	0
MEMPHIS	61	44	73	32	52	-6	.1	-1.2	.1	7.1	114	11.1	73	75	37	0	1	2	0
NASHVILLE	56	37	63	24	47	-8	.5	-.7	.4	4.5	73	10.1	68	84	42	0	1	3	0
TX ABILENE	64	43	76	38	53	-8	.5	.1	.5	1.3	95	6.7	201	89	40	0	0	2	0
AMARILLO	63	34	77	30	48	-3	.2	.0	.2	1.2	123	2.0	99	80	32	0	3	2	0
AUSTIN	69	50	81	44	59	-6	T	-.5	T	5.5	271	16.9	276	86	46	0	0	1	0
BEAUMONT	71	52	79	46	61	-4	T	-.8	T	3.8	107	21.4	179	93	47	0	0	1	0
BROWNSVILLE	74	60	84	50	67	-5	1.3	1.1	.5	1.4	211	6.9	201	95	67	0	0	5	1
CORPUS CHRISTI	70	57	79	48	63	-7	1.7	1.5	.9	5.5	571	15.1	371	95	63	0	0	4	1
DEL RIO	71	52	84	45	62	-7	.3	.0	.3	2.9	341	8.6	381	79	42	0	0	2	0
EL PASO	74	44	79	38	59	-1	T	.0	T	.5	152	1.8	157	75	23	0	0	1	0
FORT WORTH	67	45	82	38	56	-6	T	-.8	T	3.2	113	8.9	138	84	32	0	0	0	0
GALVESTON	68	57	78	50	62	-3	.1	-.4	.1	2.2	92	19.1	244	83	52	0	0	2	0
HOUSTON	71	51	82	46	61	-5	T	-.7	T	6.3	204	20.0	201	90	44	0	0	1	0
LUBBOCK	62	39	77	34	51	-5	.6	.4	.3	1.7	170	5.0	262	92	42	0	0	3	0
MIDLAND	64	40	74	34	52	-8	.8	.7	.7	1.1	202	4.9	323	86	39	0	0	3	1
SAN ANGELO	66	42	76	33	54	-9	.1	-.2	.1	1.1	111	6.7	277	94	41	0	0	1	0
SAN ANTONIO	71	51	80	46	61	-5	.7	.3	.7	6.1	378	18.1	361	86	46	0	0	1	1
VICTORIA	72	53	86	47	63	-6	.6	.2	.4	1.7	105	15.8	275	92	48	0	0	4	0
WACO	68	46	81	38	57	-6	.1	-.6	.1	3.6	150	14.4	234	89	39	0	0	1	0
WICHITA FALLS	65	40	81	33	52	-7	.1	-.4	.1	1.3	62	4.3	104	91	39	0	0	2	0
UT CEDAR CITY	61	36	69	31	48	5	.5	.3	.3	2.0	166	3.5	131	86	41	0	2	3	0
SALT LAKE CITY	69	41	75	36	55	10	T	-.5	T	1.1	55	3.2	67	67	30	0	0	0	0
VT BURLINGTON	46	27	53	19	36	-1	T	-.6	T	2.2	85	5.4	87	89	38	0	7	2	0
VA NORFOLK	58	38	72	32	48	-6	.3	-.5	.1	2.8	66	9.3	83	73	34	0	1	5	0
RICHMOND	59	34	69	26	47	-7	.1	-.6	.1	6.0	151	10.4	100	81	28	0	3	3	0
ROANOKE	50	34	60	24	42	-10	.4	-.3	.4	2.9	72	9.2	90	74	40	0	3	2	0
WA QUILLAYUTE	60	41	66	37	50	6	.9	-1.3	.7	2.7	21	33.9	85	97	60	0	0	5	1
SEATTLE-TACOMA	65	44	76	40	55	9	.2	-.5	.2	1.9	48	12.9	90	88	43	0	0	1	0
SPOKANE	65	36	75	29	51	9	T	-.3	T	.4	29	4.3	78	75	27	0	2	0	0
YAKIMA	70	34	80	26	52	7	.2	.0	.1	.5	69	1.4	48	81	25	0	2	2	0
WV BECKLEY	41	29	58	22	35	-12	.8	.0	.3	4.9	109	9.2	82	89	54	0	6	7	0
CHARLESTON	45	31	55	26	38	-13	1.0	.1	.4	5.4	120	10.0	90	89	51	0	5	5	0
HUNTINGTON	45	33	54	26	39	-12	1.0	.2	.5	4.3	95	8.3	77	86	52	0	3	5	0
PARKERSBURG	45	30	53	23	37	-12	.7	-.1	.6	4.5	111	7.2	75	88	44	0	5	4	1
WI GREEN BAY	42	27	50	22	35	-3	.6	.0	.3	2.5	112	3.8	84	93	47	0	7	3	0
LACROSSE	46	29	58	20	38	-2	.2	-.4	.2	3.6	159	5.3	129	84	41	0	5	1	0
MADISON	46	27	54	16	36	-3	.2	-.4	.2	1.9	75	4.0	86	92	43	0	5	3	0
MILWAUKEE	45	30	54	23	38	-2	.4	-.4	.2	2.8	90	5.4	89	94	45	0	4	5	0
WAUSAU	41	26	48	16	33	-3	.1	-.5	.0	2.2	96	3.4	82	96	59	0	7	4	0
WY CASPER	63	29	74	20	46	9	.1	-.2	.1	1.3	111	1.8	82	70	22	0	4	1	0
CHEYENNE	57	27	70	14	42	6	T	-.2	T	1.8	160	2.2	117	75	23	0	5	2	0
LANDER	63	34	73	24	48	11	T	-.4	T	2.0	141	2.6	103	63	22	0	1	0	0
SHERIDAN	64	33	75	20	49	11	.0	-.4	.0	.9	72	1.1	40	69	24	0	4	0	0

Based on 1951-80 normals.

March Weather and Crop Summary

Weather

The March boundary between spring warmth and residual winter chill--the polar jet stream--tilted sharply after the 8th, punching cold air into the Plains and the East. Although temperatures quickly rebounded in the Plains after cold snaps on the 10th and the 23rd, cool weather persisted in the East into the first week of April. Monthly temperatures were below normal throughout the East Coast States despite an early-month "heatwave" that produced temperatures in the 80's as far north as the Virginias. The northern Plains were home to the Nation's most anomalous warmth for the fourth month in a row, with temperatures up to 12°F above normal.

The subtropical jet stream tended to buckle near Baja California during March. As a result, a moist, southerly air flow prevailed across the Southwest, and occasionally reached into the central Rockies, central Plains, and western Great Lakes. Precipitation was unusually heavy (more than four times normal) in western Arizona, southern Nevada, and southern California. Las Vegas, NV, set a precipitation record for any month with 4.80 inches of rain, toppling the mark of 3.39 inches recorded in September 1939 (normal annual rainfall is 4.19 inches). In Texas, although rainfall was not as widespread and excessive as it was during the winter, south-central sections continued to be drenched. San Antonio, TX, set a March record with 6.12 inches of rain, besting the old high-water mark of 5.91 inches notched in 1921. Organized areas of abnormal dryness were confined to the Northwest, parts of the Southeast, and a narrow strip from north-central Texas to the Corn Belt.

Cold Outbreaks: The cold outbreak of the 10th lowered temperatures into the teens and lower 20's in the central and southern Plains. Dalhart, TX, registered 13°F. Jointing Hard Red Winter wheat from southern Kansas to northern Texas sustained some damage. As the chill spread eastward on the 11th and 12th, cold stressed Soft Red Winter wheat in the Ohio and middle Mississippi Valleys, and nipped some fruit tree blooms in the Southeast. Temperatures in the Southeast dipped to as low as 25°F in Birmingham, AL, and 24°F in Greenville, SC. A second round of cold reached the Southeast on the mornings of the 16th and 17th, with Jacksonville, FL, reporting 31°F on the latter day. Another strong cold front plunged through the southern Plains on the 22nd. Temperatures failed to reach the frigid levels of the previous outbreak, but Gage, OK, noted a 17°F reading on the 23rd. The Southeast received more subfreezing morning cold over the next 2 days. Birmingham, AL, fell to 29°F on the 24th and Columbia, SC, dipped to 31°F of the 25th. At month's end, yet another bubble of cold air dislodged from its Arctic source region and plunged toward the East.

Water Conditions in the Northwest: Dryness plagued the Northwest again in March. By late March, Oregon's 27 major irrigation reservoirs contained only 53 percent of their normal water volume for this time of year. As a result, 22 of 36 Oregon counties (including all counties east of the Cascades) have declared drought emergencies. Due to dryness and warmth, end-of-March snowpack in the Washington Cascades ranged from 50 to 70 percent of normal. In central and southern Idaho, reservoir storage was less than 50 percent of normal. The March dryness extended as far south as the Sierra Nevada of California, virtually assuring a sixth drier-than-normal rainy season for the State's major watershed area. Western Sierra Nevada precipitation was 78 percent of normal in March, and has been 72 percent of normal since October 1, 1991, according to the State's Drought Center. One bright note is that the State's early-April reservoir holdings were 70 percent of normal, up from 55 percent on February 1, boosted by heavy precipitation in February and subsequent runoff. This represented an improvement of 750 billion gallons of water from April 1, 1991, when water holdings were 60 percent of normal.

In contrast to the Northwest, spring-time storms raked the Gulf Coast States during the month. Central Florida bore the brunt of major hailstorms on the 6th and the 19th. The latter hail event pounded 20 nurseries in Lake and Orange Counties. The Houston, TX, area had its worst flash flooding since 1983 on the 4th as slow-moving storms dumped up to 10 inches of rain. In addition, more than 50 tornadoes tore up scattered portions of the Plains and the Southeast during the month.

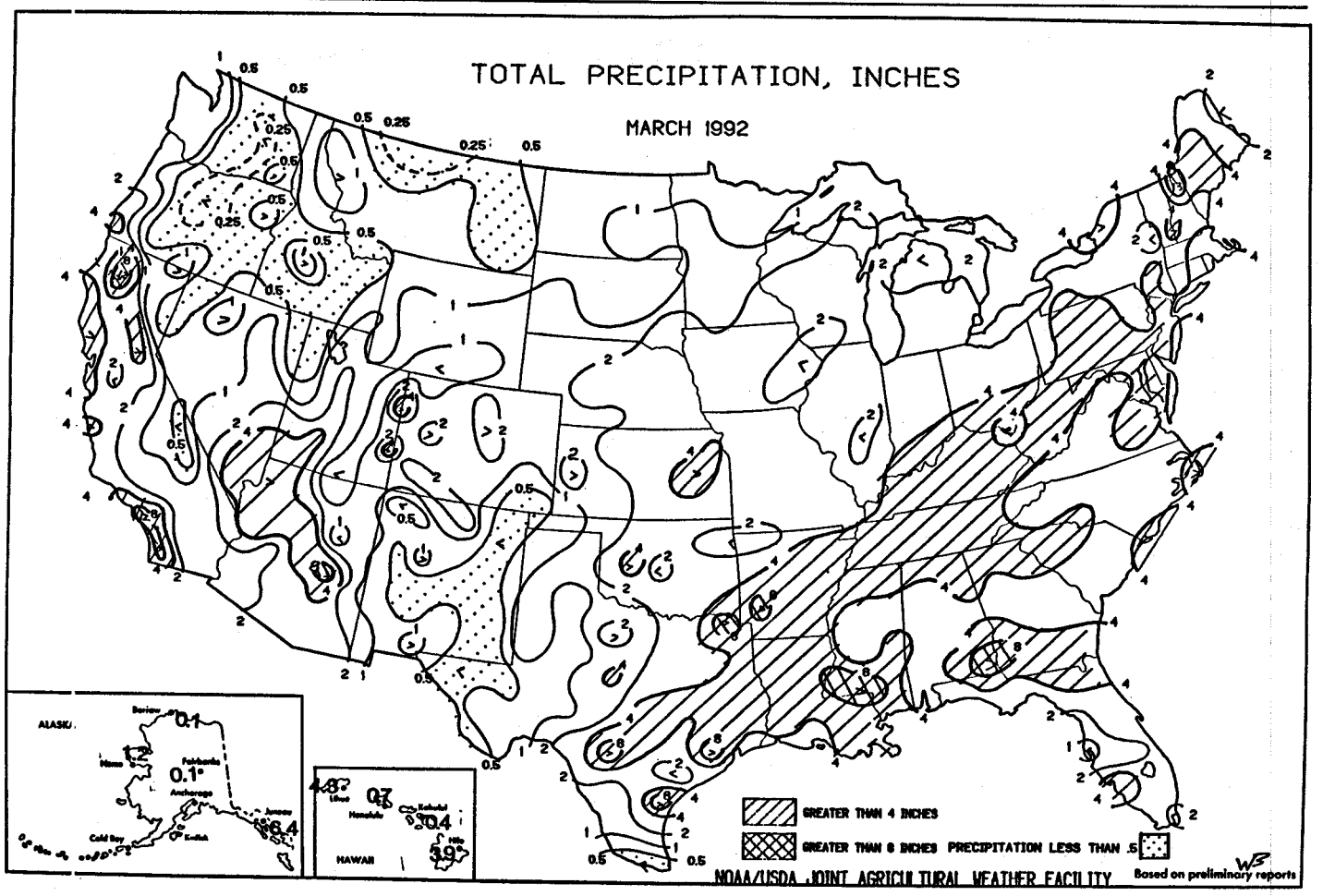
Fieldwork

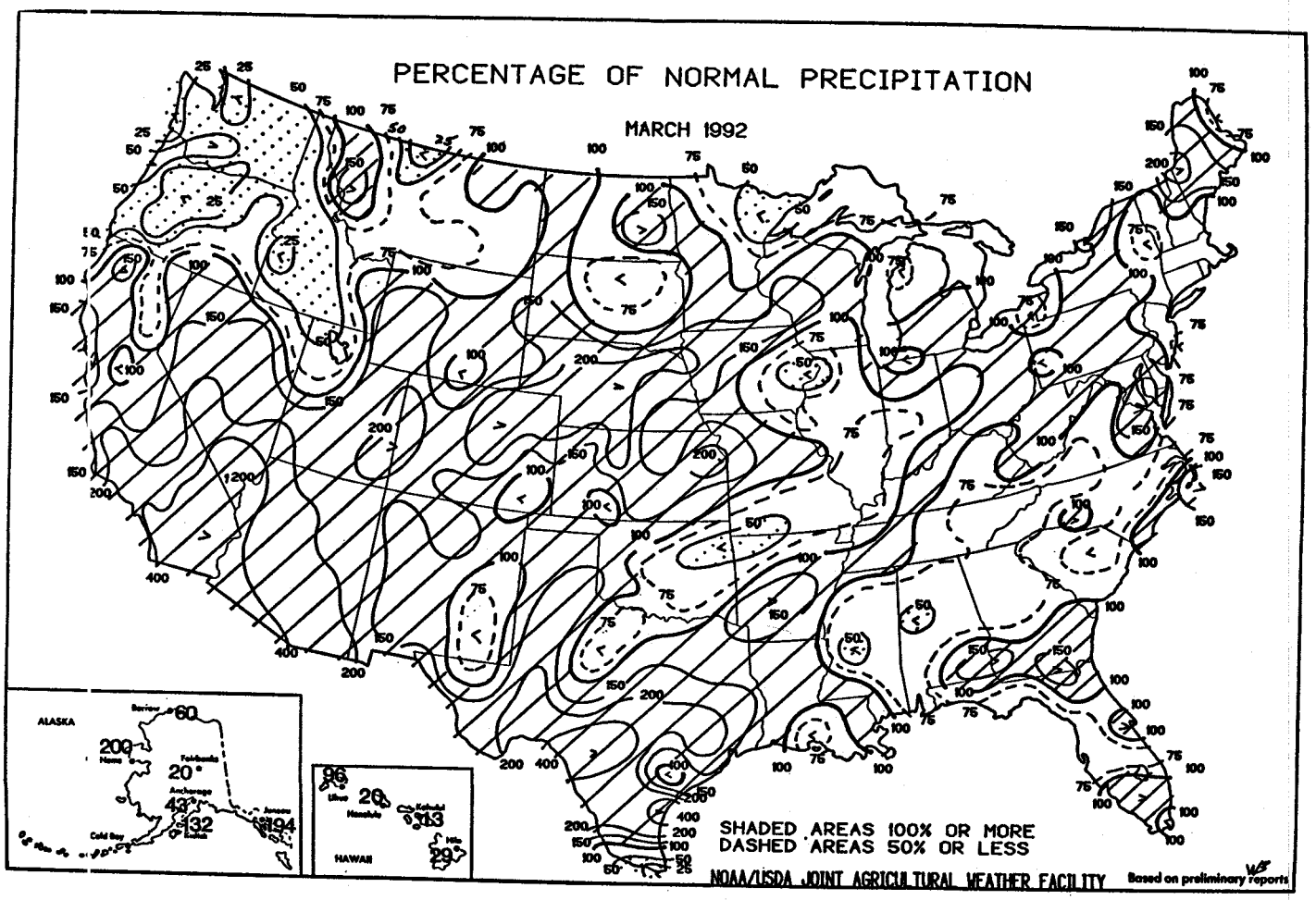
The month began rather pleasantly in most parts of the Nation, as the warm weather which brought record-high temperatures to many Western and Central States during the last week of February continued to dominate. Overwintering crops were breaking dormancy and beginning to green in the Central States and some early planting was underway in the Southeast. Precipitation was received nationwide, with California benefiting from additional snowpack and reservoir filling. East Texas, however, experienced more flooding, and activities were halted throughout the Gulf region due to heavy rains. Spring wheat seeding was underway in Oregon and Washington. Seeding of oats, and in some areas barley, was becoming more common in the middle Mississippi Valley and Pacific Northwest. Corn planting was getting underway earlier than usual in Tennessee and South Carolina, and seeding continued, as weather permitted, in southeast Georgia, Florida, Louisiana, and the Rio Grande Valley of Texas. Grain sorghum and cotton planting was in full swing in most parts of the Rio Grande Valley, and some limited planting was underway in south Texas.

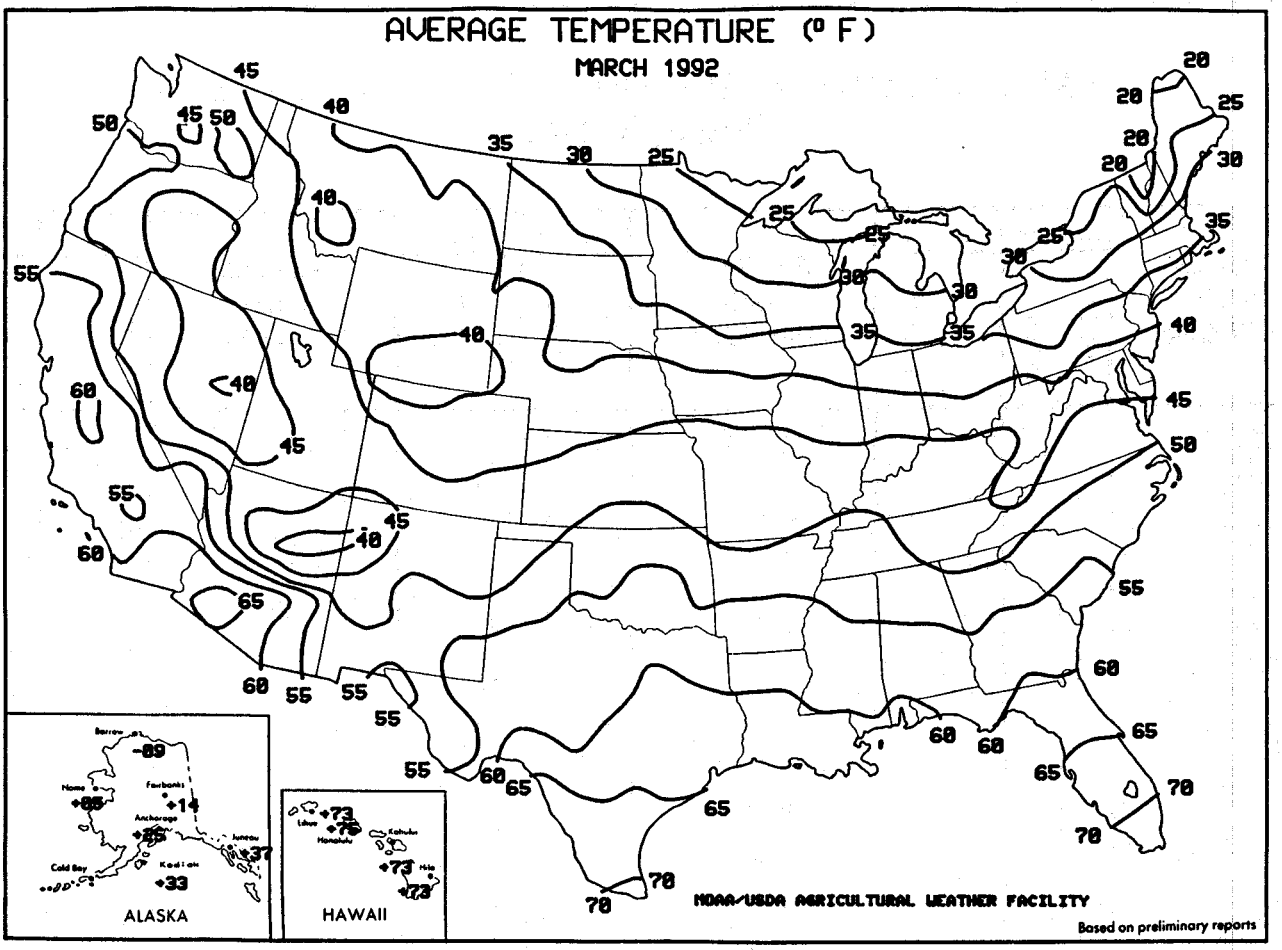
Sharply colder weather visited the eastern half of the Nation during the second week of March, causing some freeze damage to actively growing field crops in the middle and lower regions of the Mississippi Valley. Spring barley, spring wheat, and oats seeding was active from the central United States westward. Corn planting was interrupted by rains in the Southeast, while corn and grain sorghum planting progressed rapidly with drying weather conditions in southern and central Texas. Corn and sorghum seeding was also underway in Kansas, and cotton planting increased in south Texas and the Rio Grande Valley.

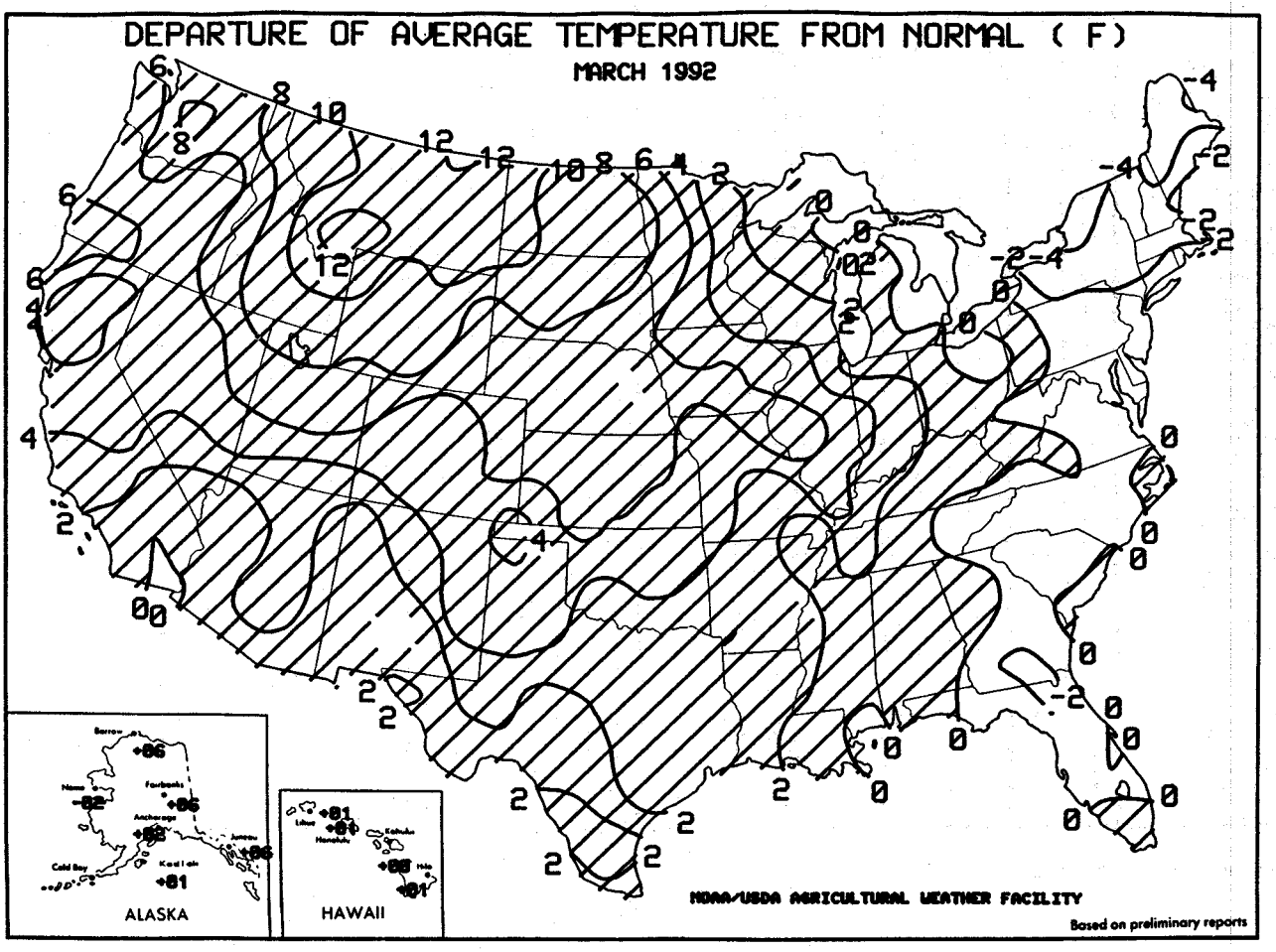
Midway through the month, low temperatures turned precipitation to snow in the Northeast and rainfall across the Southeast slowed early season fieldwork. Milder, drier weather continued in the northern Great Plains and Rocky Mountains, allowing spring planting activities to progress. Seeding of barley, oats, and spring wheat

(continued to back cover)


TOTAL PRECIPITATION, INCHES
MARCH 1992
GREATER THAN 4 INCHES
GREATER THAN 8 INCHES
PRECIPITATION LESS THAN .5
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports
ALASKA
HAWAII


PERCENTAGE OF NORMAL PRECIPITATION
MARCH 1992
SHADED AREAS 100% OR MORE
DASHED AREAS 50% OR LESS
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports
ALASKA
HAWAII


AVERAGE TEMPERATURE (° F)
MARCH 1992
ALASKA
HAWAII
NOAA/USDA AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (F)
MARCH 1992
ALASKA
HAWAII
NOAA/USDA AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

TEMPERATURE AND PRECIPITATION SUMMARY
March 1992

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	54	0	3.4	-3.2	LA ALEXANDRIA	61	2	5.6	0.7	TOLEDO	36	0	3.0	0.5
HUNTSVILLE	52	1	4.9	-1.5	BATON ROUGE	62	1	4.5	-0.1	YOUNGSTOWN	35	0	3.6	0.3
MOBILE	60	0	3.6	-2.8	LAKE CHARLES	63	3	4.1	1.0	OK OKLAHOMA CITY	54	5	1.1	-1.0
MONTGOMERY	57	0	3.8	-2.1	NEW ORLEANS	62	1	6.8	2.1	TULSA	55	6	1.4	-1.8
AK ANCHORAGE	25	2	0.3	-0.3	SHREVEPORT	60	2	5.9	2.2	OR ASTORIA	49	5	1.2	-6.0
BARROW	-9	7	0.1	0.0	ME CARIBOU	20	-4	1.9	-0.6	BURNS	42	6	0.5	-0.4
FAIRBANKS	14	6	0.1	-0.3	PORTLAND	31	-1	3.9	0.0	MEDFORD	52	7	0.4	-1.4
JUNEAU	37	6	6.4	3.1	MD BALTIMORE	41	-2	4.6	0.9	PENDLETON	48	4	0.3	-0.8
KODIAK	32	1	5.4	1.4	SALISBURY	43	-1	3.3	-0.8	PORTLAND	52	7	1.9	-1.7
NOME	5	-2	1.2	0.6	MA BOSTON	35	-3	3.6	-0.5	SALEM	51	6	0.9	-3.4
AZ FLAGSTAFF	38	3	4.4	2.3	CHATHAM	35	-2	3.5	-0.5	PA ALLENTOWN	37	-1	3.3	-0.5
PHOENIX	65	4	2.5	1.7	MI ALPENA	27	-1	1.5	-0.4	ERIE	35	1	2.1	-0.8
PRESCOTT	46	1	1.2	0.4	DETROIT	35	0	3.3	0.8	HARRISBURG	40	-1	5.1	1.6
TUCSON	59	2	2.1	1.4	FLINT	33	0	2.6	0.4	PHILADELPHIA	42	0	3.2	-0.7
WINSLOW	45	0	0.8	0.3	GRAND RAPIDS	34	0	3.5	0.9	PITTSBURGH	39	0	3.5	0.0
YUMA	66	2	1.6	1.4	HOUGHTON LAKE	29	1	1.8	0.0	SCRANTON	34	-2	2.6	0.0
AR FORT SMITH	54	3	2.3	-1.6	LANSING	32	-1	2.7	0.3	WILLIAMSPORT	37	-0	4.3	-0.7
LITTLE ROCK	55	2	7.5	2.9	MARQUETTE	23	0	2.6	-0.3	RI PROVIDENCE	37	-1	4.0	-0.2
CA BAKERSFIELD	59	2	1.9	1.0	MUSKEGON	34	1	2.3	-0.2	SC CHARLESTON	58	1	3.6	-0.8
BISHOP	--	-	0.7	0.3	SAULT ST. MARIE	22	-3	1.5	-0.5	COLUMBIA	54	0	3.4	-1.8
EUREKA	54	6	3.5	-1.5	MN ALEXANDRIA	31	7	1.6	0.4	FLORENCE	55	0	2.2	-2.0
FRESNO	59	5	2.1	0.6	DULUTH	26	2	0.8	-0.9	GREENVILLE	51	0	5.4	-0.6
LOS ANGELES	59	1	5.1	3.3	INT'L FALLS	24	3	0.6	-0.5	SD ABERDEEN	36	9	0.5	-0.4
REDDING	55	1	3.4	-1.6	MINNEAPOLIS	33	4	1.6	-0.1	HURON	37	8	0.9	-0.3
SACRAMENTO	56	3	2.0	0.0	ROCHESTER	31	2	2.5	0.8	RAPID CITY	41	9	1.9	0.9
SAN DIEGO	60	1	4.4	2.8	ST. CLOUD	31	5	1.5	0.1	SIOUX FALLS	37	6	2.4	0.8
SAN FRANCISCO	57	5	4.1	1.5	MS GREENWOOD	56	2	3.9	-2.3	TN BRISTOL	45	-1	2.6	-1.7
STOCKTON	57	3	1.3	-0.5	JACKSON	58	1	2.1	-3.4	CHATTANOOGA	50	0	4.9	-1.4
CO ALAMOSA	30	-2	1.6	0.2	MERIDIAN	57	1	4.3	-2.4	KNOXVILLE	48	-1	4.0	-1.5
CO. SPRINGS	42	5	2.4	1.6	TUPELO	53	0	4.1	-1.7	MEMPHIS	54	2	7.1	1.7
DENVER	43	5	3.5	2.3	MO CAPE GIRARDEAU	--	-	3.3	-1.7	NASHVILLE	50	1	4.5	-1.1
GRAND JUNCTION	47	6	1.7	1.0	COLUMBIA	47	4	3.8	0.5	TX ABILENE	59	3	0.8	-0.3
PUEBLO	45	5	1.3	0.6	KANSAS CITY	47	4	3.8	1.2	AMARILLO	51	4	1.1	0.2
CT BRIDGEPORT	37	-1	3.6	-0.3	SAINT LOUIS	49	5	3.4	0.2	AUSTIN	63	2	5.4	3.8
HARTFORD	35	-2	3.8	-0.3	SPRINGFIELD	49	4	2.2	-1.2	BEAUMONT	63	3	3.8	0.8
DC WASHINGTON	45	-1	3.5	0.0	MT BILLINGS	44	10	0.6	-0.4	BROWNSVILLE	70	2	0.1	-0.4
FL APALACHICOLA	61	-2	2.1	-2.0	GLASGOW	39	12	0.4	0.1	CORPUS CHRISTI	68	2	4.1	3.3
DAYTONA BEACH	63	-1	2.3	-0.7	GREAT FALLS	41	9	0.4	-0.5	DEL RIO	64	1	2.6	1.9
FT. MYERS	69	0	4.9	2.0	HAVRE	40	10	0.1	-0.4	EL PASO	58	3	0.5	0.2
JACKSONVILLE	61	-2	4.1	0.7	HELENA	43	11	0.6	-0.1	FORT WORTH	59	3	3.2	0.9
KEY WEST	73	-1	2.8	1.6	KALISPELL	41	9	0.9	0.1	GALVESTON	64	3	2.2	0.1
MIAMI	72	0	2.7	0.8	MILES CITY	42	11	0.5	-0.1	HOUSTON	64	2	6.3	3.6
ORLANDO	66	0	3.7	0.4	MISSOULA	43	9	1.2	0.4	LAREDO	--	-	1.3	0.9
TALLAHASSEE	59	-1	3.8	-1.7	NE GRAND ISLAND	43	7	3.0	1.4	LUBBOCK	55	5	1.4	0.5
TAMPA	65	-1	1.0	-2.5	LINCOLN	44	8	2.5	0.5	MIDLAND	57	2	1.0	0.5
WEST PALM BEACH	70	-1	2.6	-0.1	NORFOLK	42	8	2.5	1.0	SAN ANGELO	58	1	1.0	0.3
GA ATHENS	53	1	4.1	-1.7	NORTH PLATTE	42	7	3.0	1.9	SAN ANTONIO	63	2	6.1	4.8
ATLANTA	54	1	3.8	-2.1	OMAHA	43	6	3.7	1.8	VICTORIA	66	2	1.2	-0.2
AUGUSTA	54	-1	3.7	-1.2	SCOTTSBLUFF	41	6	1.2	0.2	WACO	61	3	3.6	1.6
MACON	56	-1	3.6	-1.6	VALENTINE	39	6	1.4	0.6	WICHITA FALLS	57	3	1.3	-0.5
SAVANNAH	59	0	4.0	0.1	NV ELKO	41	5	1.6	0.7	UT BLANDING	--	-	1.9	1.1
HI HILO	72	1	3.9	-9.6	ELY	39	6	1.4	0.5	CEDAR CITY	43	4	2.0	1.0
HONOLULU	75	1	0.7	-2.8	LAS VEGAS	57	1	4.8	4.4	SALT LAKE CITY	49	9	1.1	-0.6
KAHULUI	73	0	0.4	-2.6	RENO	47	6	0.7	0.0	VT BURLINGTON	26	-3	2.1	-0.1
LIHUE	73	1	4.2	-0.2	WINNEMUCCA	44	6	1.0	0.4	VA LYNCHBURG	47	1	3.2	-0.5
ID BOISE	49	8	0.2	-0.8	NH CONCORD	30	-2	2.8	-0.2	NORFOLK	49	0	2.6	-1.2
LEWISTON	49	7	0.4	-0.6	NJ ATLANTIC CITY	40	-2	2.9	-1.1	RICHMOND	47	0	5.9	2.3
POCATELLO	44	9	0.5	-0.4	NM ALBUQUERQUE	49	3	0.6	0.1	ROANOKE	47	0	2.5	-1.1
IL CAIRO	--	-	3.4	-1.6	CLOVIS	51	5	0.5	0.0	WA COLVILLE	45	8	0.5	-0.7
CHICAGO	38	1	2.7	0.0	ROSWELL	54	3	0.2	-0.1	QUILLAYUTE	49	6	1.8	10.1
MOLINE	41	6	1.1	-1.7	NY ALBANY	31	-2	1.7	-1.3	SEATTLE-TACOMA	50	6	1.7	-1.9
PEORIA	42	5	2.6	-0.3	BINGHAMTON	30	-2	3.3	0.4	SPOKANE	46	8	0.4	-0.9
QUINCY	44	5	2.3	-0.9	BUFFALO	32	-2	2.9	0.0	WALLA WALLA	51	6	0.5	-0.9
ROCKFORD	38	4	2.0	-0.6	NEW YORK	40	-1	4.1	0.0	YAKIMA	48	6	0.4	-0.2
SPRINGFIELD	44	4	2.4	-0.7	ROCHESTER	30	-3	3.5	1.0	WV BECKLEY	42	1	4.4	0.4
IN EVANSVILLE	47	2	4.5	-0.1	SYRACUSE	29	-4	3.8	0.7	CHARLESTON	45	1	4.8	0.8
FORT WAYNE	38	1	3.2	0.3	NC ASHEVILLE	46	0	3.5	-1.3	ELKINS	39	0	4.3	0.6
INDIANAPOLIS	43	3	2.6	-1.0	CHARLOTTE	53	2	4.9	0.1	HUNTINGTON	46	0	3.8	-0.2
SOUTH BEND	37	1	2.9	-0.1	GREENSBORO	49	0	2.7	-1.1	PARKERSBURG	42	-1	4.4	0.8
IA DES MOINES	42	7	2.1	0.0	HATTERAS	53	1	7.8	3.8	WI GREEN BAY	30	2	2.5	0.6
DUBUQUE	37	5	1.6	-1.3	NEW BERN	53	0	2.9	-0.7	LACROSSE	34	2	3.6	1.7
SIOUX CITY	40	7	3.5	1.8	RALEIGH	51	1	3.0	-0.7	MADISON	35	3	1.9	-0.2
WATERLOO	37	6	2.3	0.0	WILMINGTON	54	0	5.6	1.6	MILWAUKEE	35	3	2.6	0.0
KS CONCORDIA	47	6	2.1	0.2	ND BISMARCK	35	9	0.6	-0.1	WAUSAU	29	2	2.1	0.2
DODGE CITY	48	6	1.4	0.0	FARGO	33	8	1.0	0.2	WY CASPER	41	9	1.3	0.3
GOODLAND	44	7	1.9	0.9	GRAND FORKS	31	9	0.8	0.0	CHEYENNE	39	7	1.8	0.8
TOPEKA	48	6	5.3	3.1	WILLISTON	36	10	0.6	0.0	LANDER	42	10	2.0	0.8
WICHITA	50	6	3.6	1.5	OH AKRON-CANTON	36	-1	3.9	0.5	SHERIDAN	43	11	0.9	-0.1
KY BOWLING GREEN	47	1	6.2	0.7	CINCINNATI	44	2	4.2	0.3	PR SAN JUAN	79	1	1.5	-0.7
JACKSON	47	6	5.8	1.2	CLEVELAND	37	0	3.0	0.1					
LEXINGTON	45	1	4.7	-0.1	COLUMBUS	41	1	3.4	0.2					
LOUISVILLE	48	3	5.9	1.2	DAYTON	41	1	3.0	-0.1					
PADUCAH	50	3	3.4	-1.6	MANSFIELD	36	-1	3.2	0.2					

Based on 1951-80 normals.

HEATING DEGREE DAYS (Base 65° F)
March 1992

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL BIRMINGHAM	343	-25	NEW ORLEANS	128	-43	CINCINNATI	658	-61
MOBILE	165	-26	SHREVEPORT	185	-97	DAYTON	735	-56
MONTGOMERY	260	-24	ME CARIBOU	1382	120	TOLEDO	889	-29
AK ANCHORAGE	1240	-40	PORTLAND	1051	31	YOUNGSTOWN	919	-2
BARROW	2307	-201	MD BALTIMORE	730	57	OK OKLAHOMA CITY	332	-174
FAIRBANKS	1577	-175	SALISBURY	668	23	TULSA	311	-189
JUNEAU	865	-183	MA BOSTON	913	88	OR ASTORIA	491	-148
KODIAK	1002	1	CHATHAM	938	64	BURNS	708	-176
NOME	1850	40	MI ALPENA	1177	-7	MEDFORD	399	-206
AZ FLAGSTAFF	830	-116	DETROIT	906	-24	PENDLETON	527	-127
PHOENIX	56	-131	FLINT	988	-32	PORTLAND	387	-205
PRESCOTT	588	-100	GRAND RAPIDS	964	-25	SALEM	443	-183
TUCSON	169	-77	HOUGHTON LAKE	1123	-43	PA ALLENTOWN	845	23
WINSLOW	607	-16	LANSING	1007	15	ERIE	934	-43
YUMA	30	-74	MARQUETTE	1306	-10	HARRISBURG	761	5
AR FORT SMITH	346	-115	MUSKEGON	965	-33	PHILADELPHIA	720	1
LITTLE ROCK	321	-96	SAULT ST MARIE	1331	64	PITTSBURGH	805	-17
CA BAKERSFIELD	181	-74	MN ALEXANDRIA	1039	-226	SCRANTON	942	46
EUREKA	328	-190	DULUTH	1207	-98	RI PROVIDENCE	876	20
FRESNO	183	-153	INT'L FALLS	1267	-113	SC CHARLESTON	234	-52
LOS ANGELES	172	-68	MINNEAPOLIS	981	-129	COLUMBIA	323	-23
REDDING	295	-68	ROCHESTER	1036	-111	FLORENCE	323	-20
SACRAMENTO	264	-102	SAINT CLOUD	1048	-170	GREENVILLE	433	-9
SAN DIEGO	136	-57	MS GREENWOOD	276	-69	SD ABERDEEN	884	-272
SAN FRANCISCO	226	-152	JACKSON	233	-70	HURON	855	-249
STOCKTON	237	-113	MERIDIAN	246	-66	RAPID CITY	742	-262
CO DENVER	673	-164	MO CAPE GIRARDEAU	486	-113	SIOUX FALLS	871	-202
GRAND JCT.	540	-176	COLUMBIA	567	-155	TN CHATTANOOGA	457	-21
PUEBLO	608	-148	KANSAS CITY	554	-175	KNOXVILLE	512	29
CT BRIDGEPORT	859	28	SAINT LOUIS	509	-167	MEMPHIS	347	-86
HARTFORD	936	62	SPRINGFIELD	503	-137	NASHVILLE	456	-54
DE WILMINGTON	723	4	MT BILLINGS	641	-326	TX ABILENE	200	-121
DC WASHINGTON	614	19	GLASGOW	788	-415	AMARILLO	437	-140
FL APALACHICOLA	146	-22	GREAT FALLS	740	-302	AUSTIN	105	-98
DAYTONA BEACH	106	-10	HAVRE	779	-356	BEAUMONT	93	-74
FORT MYERS	19	-19	HELENA	687	-348	BROWNSVILLE	26	-27
JACKSONVILLE	165	-1	KALISPELL	739	-287	CORPUS CHRISTI	43	-54
KEY WEST	0	-7	MILES CITY	707	-338	DEL RIO	70	-75
MIAMI	6	-8	MISSOULA	667	-291	EL PASO	209	-109
ORLANDO	51	-17	NE GRAND ISLAND	686	-216	FORT WORTH	182	-109
TALLAHASSEE	195	4	LINCOLN	654	-233	GALVESTON	74	-86
TAMPA	69	-18	NORFOLK	717	-260	HOUSTON	95	-80
W. PALM BEACH	22	3	NORTH PLATTE	714	-225	LUBBOCK	303	-167
GA ATLANTA	345	-55	OMAHA	664	-195	MIDLAND-ODESSA	235	-94
AUGUSTA	339	7	SCOTTSBLUFF	731	-180	SAN ANGELO	199	-75
MACON	302	15	VALENTINE	798	-231	SAN ANTONIO	91	-87
SAVANNAH	204	-39	NV ELY	789	-191	VICTORIA	67	-73
ID BOISE	492	-240	LAS VEGAS	246	-67	WACO	144	-113
LEWISTON	488	-197	RENO	555	-201	WICHITA FALLS	262	-126
POCATELLO	639	-276	WINNEMUCCA	633	-182	UT BLANDING	550	-259
IL CHICAGO	847	-52	NH CONCORD	1070	50	CEDAR CITY	666	-134
MOLINE	726	-182	NJ ATLANTIC CITY	785	41	SALT LAKE CITY	481	-272
PEORIA	698	-161	NM ALBUQUERQUE	493	-90	VT BURLINGTON	1187	77
QUINCY	633	-176	CLOVIS	424	-137	VA LYNCHBURG	562	-36
ROCKFORD	843	-124	ROSWELL	325	-61	NORFOLK	496	-16
SPRINGFIELD	651	-136	NY ALBANY	1034	59	RICHMOND	545	-7
IN EVANSVILLE	549	-91	BINGHAMTON	1077	36	ROANOKE	567	-19
FORT WAYNE	830	-50	BUFFALO	1027	38	WA COLVILLE	600	-259
INDIANAPOLIS	670	-105	NEW YORK	756	14	QUILLAYUTE	505	-202
SOUTH BEND	850	-49	ROCHESTER	1069	86	SEATTLE-TACOMA	447	-198
IA DES MOINES	691	-236	SYRACUSE	1099	116	SPOKANE	598	-251
DUBUQUE	865	-158	NC ASHEVILLE	573	-4	YAKIMA	515	-201
SIOUX CITY	757	-210	CAPE HATTERAS	381	-56	WV BECKLEY	710	-34
WATERLOO	850	-192	CHARLOTTE	375	-84	CHARLESTON	602	-24
KS CONCORDIA	565	-213	GREENSBORO	505	-28	HUNTINGTON	595	-22
DODGE CITY	505	-205	NEW BERN	383	-22	PARKERSBURG	696	17
GOODLAND	650	-212	RALEIGH-DURHAM	446	-50	WI GREEN BAY	1067	-61
TOPEKA	528	-191	WILMINGTON	343	-7	LA CROSSE	958	-99
WICHITA	461	-195	ND BISMARCK	921	-288	MADISON	929	-119
KY BOWLING GREEN	542	-47	FARGO	998	-273	MILWAUKEE	914	-106
LEXINGTON	600	-61	GRAND FORKS	1050	-280	WAUSAU	1108	-70
LOUISVILLE	523	-101	WILLISTON	887	-344	WY CASPER	747	-279
LA ALEXANDRIA	147	-92	OH AKRON-CANTON	893	16	CHEYENNE	811	-209
BATON ROUGE	130	-57	CLEVELAND	872	-8	LANDER	716	-304
LAKE CHARLES	104	-80	COLUMBUS	747	-28	SHERIDAN	682	-344

Based on 1951-80 normals.

March Weather in Historical Perspective

The nationally averaged temperature was more than 3°F above normal last month, placing March 1992 as the 11th warmest March in 98 years of recordkeeping (table 1). March temperatures have averaged 1°F or more warmer than normal for 8 consecutive years (fig. 1). Precipitation was also above normal in March, although highly variable in the three western regions. The weighted precipitation index, which takes local climatology into account so that typically wet areas do not dominate the index, ranked March 1992 as the 36th wettest on record (fig. 2).

Temperatures were above normal in all but the two easternmost regions (table 1). Only the Northeast (29th coldest March) scored within the coldest third of the March rankings. The Northwest (2nd warmest March) and the West North Central regions had near-record warmth. In the Northwest, dryness (8th driest March) accompanied the warmth. The Southwest region was excessively wet (4th wettest March), and the West region, consisting of California and Nevada, was wetter than normal (23rd wettest). Elsewhere, precipitation was close to normal.

California statewide precipitation was about 150 percent of normal during March (fig. 3). This is the first time since February and March of 1986 that the State has had back-to-back months of above-normal precipitation during the wet season. Nevertheless, statewide precipitation since September 1, 1991, has been only about 90 percent of normal (fig. 4) due to spotty, erratic December and January rains.

Seven States (IA, KS, MT, NE, ND, OK, and SD) have had their warmest start to a year (January to March). The northern Great Plains as a whole registered their warmest start to a year on record. Six of the seven warmest January-March periods have occurred there since 1980 (fig. 5). Only three States (FL, ME, and NY) were cooler than normal during the first 3 months of 1992.

TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR MARCH 1992, BASED ON THE PERIOD 1895-1992. 1 = DRIEST/COLDEST, 98 = WETTEST/HOTTEST.

REGION	PRECIPITATION	TEMPERATURE
NORTHEAST	57	29
EAST NORTH CENTRAL	69	66
CENTRAL	47	63
SOUTHEAST	40	42
WEST NORTH CENTRAL	63	95
SOUTH	58	73
SOUTHWEST	95	81
NORTHWEST	8	97
WEST	76	88
NATIONAL	63	88

Figure 1

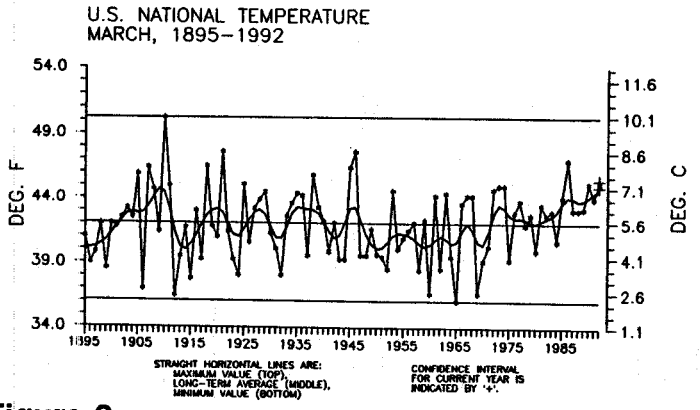


Figure 2

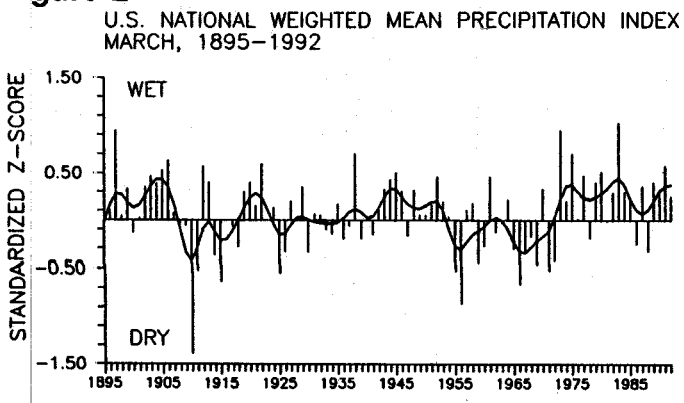


Figure 3

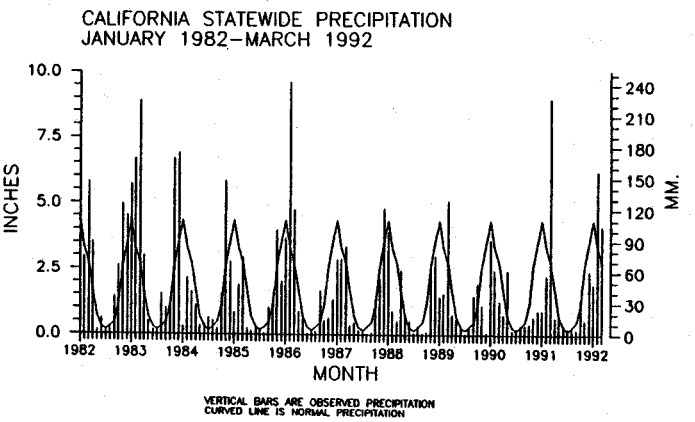


Figure 4

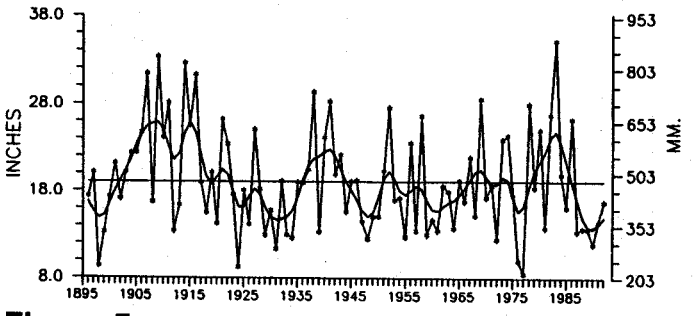
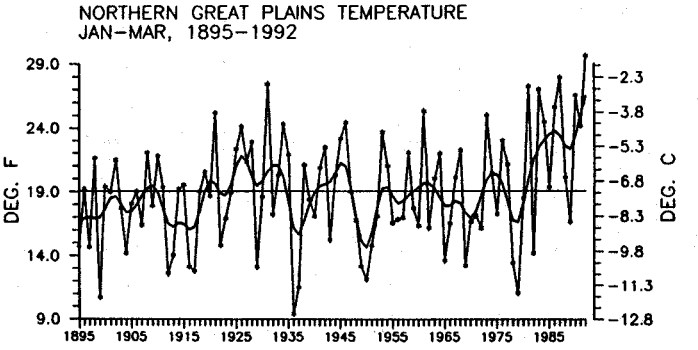


Figure 5



National Climatic Data Center, NOAA

National Agricultural Summary

March 30 - April 5, 1992

HIGHLIGHTS: Mild and mostly dry weather continued to prevail in the Northwest, northern Rocky Mountains, and northern Great Plains, where soil moisture supplies were low. Some significant rain was received, however, along the northern Pacific coast. Temperatures continued to average below normal in the East, slowing early season crop development.

SMALL GRAINS: Winter wheat condition rated mostly good to fair for the 19 major producing States, but over 40 percent (%) of the acreage in Illinois, Indiana, and Missouri rated very poor or poor due largely to winterkill. Freezing and thawing has caused considerable heaving of Ohio soils. Twenty-five percent of the Ohio winter wheat acreage rated very poor or poor. Heading of winter wheat was evident in 1% of the acreage in the 19 major States, compared with the 5-year average of 2%. Heading was beginning in California, Texas, and the Southeast with progress behind normal in most States. Eight percent of the spring wheat acreage was planted in the five major producing States, 3 percentage points ahead of last year and 5 points ahead of the average. Spring wheat planting was half complete in Idaho, 28 points ahead of the average. Seeding was over 10% complete in Montana and South Dakota, and just getting underway in Minnesota and North Dakota. Some of the spring wheat seeding in South Dakota was reseeding of failed winter wheat acreage. Seeding of barley and oats was active from the Pacific Northwest to Pennsylvania.

CORN: Corn planting was 2% complete in the 17 major States, 1 point behind last year, but equal to the historic average. Planting was 56% complete in Georgia and 44% complete in Texas, but recent rains have held progress over 10 points behind normal in both States. Planting was also getting underway in Kansas, Missouri, and North Carolina. Corn planting continued throughout the Delta and Southeast, but cooler temperatures have slowed growth of early seedings.

COTTON: Nationwide, 6% of the cotton crop was planted, 1 point ahead of last year, but 1 point behind the historic average. Wet field conditions and periodic rains limited progress of cotton planting in Arizona, California, and Texas. Arizona's acreage was 22% planted, 17 points behind normal; California acreage was 10% planted, 10 points behind; and Texas was 10% planted, 1 point ahead of the average.

GRAIN SORGHUM: Grain sorghum planting was 13% complete in the 14 major producing States, 1 point behind last year. Planting was nearing half complete in Texas, while just getting underway in the Delta. Rains have held progress to just 2% complete in Louisiana and Mississippi, compared with last year's progress of 24% complete in Louisiana and 25% in Mississippi. Average progress for this date over the last 5 years has been 8% complete in Louisiana and 9% complete in Mississippi. Some replanting may be necessary in south Texas due to wildlife damage.

RICE: Rice planting was 11% complete in the five major producing States, matching last year's progress and surpassing the historic average by 2 points. Planting was in full swing in Louisiana and Texas, just getting started in Arkansas and Mississippi, and yet to begin in California. Blackbirds and ducks continued to damage newly planted rice fields in southwest Louisiana.

OTHER FIELD CROPS: Alfalfa harvest was underway between rains in Arizona, and some alfalfa and oat hay was cut in California. Irish potato planting was in the early stages in the Pacific Northwest and nearing completion along the central Atlantic coast. Winter potato harvest in California's south district moved toward completion. Sugarbeet planting was over half complete in Idaho and underway in Colorado and Wyoming. Dry pea and lentil planting was active in Washington and Idaho.

FRUIT AND NUTS: Citrus harvests continued in Arizona. Two-thirds of California's navel orange crop was picked to date, and Valencia orange harvest was active in the Desert. Lemon picking continued along California's southern coast. California's new crop citrus and avocado bloom was reported to be heavy. Florida citrus groves were in near excellent condition, with peak bloom past. Valencia harvest was very active in all Florida areas, but grapefruit supplies were reduced, with picking continuing in only a few areas of the lower east coast. Maple syrup was being drawn in New England. Some frost damage occurred to early blossoming fruits in the Southeast.

VEGETABLES: Lettuce harvest continued in central and western Arizona, while lettuce and melon planting was active in the eastern part of the State. Artichoke shipments from California's central coast, and asparagus packing continued in the California Delta and Salinas Valley. Broccoli and cauliflower were in fairly heavy supply in the Salinas-Watsonville area, and carrot digging continued in central and southern districts. Celery planting was active along California's central coast, while harvest was peaking in the south district. Iceberg lettuce harvest continued in the Westside area and packing was moderate in Salinas-Watsonville. California leaf and romaine lettuce harvests were seasonally increasing. Some melons were hail damaged in isolated southern districts of California. Dry onion planting was in full swing in Colorado. Frost nipped Florida's early northern watermelon plantings, while harvests of tomatoes, cucumbers, peppers, cabbage, and sweet corn were active.

PASTURES AND LIVESTOCK: Abnormally mild weather continued to favor newborn livestock in the West, with calving and lambing well along. Forage supplies were increasing with spring growth increasing in southern and central regions.

Crop Progress and Condition
For Week Ending April 5, 1992

Crop Progress

Corn
% Planted

	Current	Last Wk	1991	Avg.
CO	0	NA	0	0
GA	56	NA	73	70
IL	0	NA	0	0
IN	0	NA	0	0
IA	0	NA	0	0
KS	4	NA	5	1
KY	0	NA	0	0
MI	0	NA	0	0
MN	0	NA	0	0
MO	2	NA	7	1
NE	0	NA	0	0
NC	7	NA	11	11
OH	0	NA	0	0
PA	0	NA	0	0
SD	0	NA	0	0
TX	44	NA	58	57
WI	0	NA	0	0
17 States	2	NA	3	2
Excl. States with NA	2	NA	3	2

These 17 states produce 94% of the 1991 corn crop.

NA - not available.

Grain Sorghum
% Planted

	Current	Last Wk	1991	Avg.
AR	5	NA	0	0
CO	0	NA	0	0
IL	0	NA	0	0
KS	0	NA	0	0
LA	2	NA	24	8
MS	2	NA	25	9
MO	0	NA	0	0
NE	0	NA	0	0
NM	0	NA	0	NA
OK	1	NA	0	1
SD	0	NA	0	0
TX	44	NA	46	43
12 States	13	NA	14	NA
Excl. States with NA	14	NA	15	13

These 12 states produce 98% of the 1991 grain sorghum crop.

NA - not available.

Cotton
% Planted

	Current	Last Wk	1991	Avg.
AL	0	NA	2	4
AZ	22	NA	26	39
AR	0	NA	0	0
CA	10	NA	5	20
GA	0	NA	1	1
LA	0	NA	0	0
MS	0	NA	2	0
MO	0	NA	0	0
NM	1	NA	2	3
NC	0	NA	0	0
OK	0	NA	0	1
SC	0	NA	0	0
TN	0	NA	0	0
TX	10	NA	8	9
14 States	6	NA	5	7
Excl. States with NA	6	NA	5	7

These 14 states produce 99% of the 1991 cotton crop.

NA - not available.

Winter Wheat
% Headed

	Current	Last Wk	1991	Avg.
AR	2	NA	0	0
CA	15	NA	30	30
CO	0	NA	0	0
GA	8	NA	31	32
ID	0	NA	0	0
IL	0	NA	0	0
IN	0	NA	0	0
KS	0	NA	0	0
MI	0	NA	0	0
MO	0	NA	0	0
MT	0	NA	0	0
NE	0	NA	0	0
NC	1	NA	2	2
OH	0	NA	0	0
OK	2	NA	0	4
OR	0	NA	0	0
SD	0	NA	0	0
TX	6	NA	4	6
WA	0	NA	0	0
19 States	1	NA	1	2
Excl. States with NA	1	NA	1	2

These 19 states produce 92% of the 1991 winter wheat crop.

NA - not available.

Spring Wheat
% Planted

	Current	Last Wk	1991	Avg.
ID	50	NA	29	22
MN	2	NA	2	3
MT	13	NA	4	3
ND	3	NA	3	1
SD	17	NA	8	7
5 States	8	NA	5	3
Excl. States with NA	8	NA	5	3

These 5 states produce 87% of the 1991 spring wheat crop.

NA - not available.

Rice
% Planted

	Current	Last Wk	1991	Avg.
AR	3	NA	0	0
CA	0	NA	0	0
LA	26	NA	34	23
MS	4	NA	9	3
TX	30	NA	27	31
5 States	11	NA	11	9
Excl. States with NA	11	NA	11	9

These 5 states produce 97% of the 1991 rice crop.

NA - not available.

Crop Condition
(Percent)

Winter Wheat

State	VP	P	F	G	EX
AR	7	1	32	56	4
CA	0	0	5	45	50
CO	1	2	13	65	19
GA	0	0	31	69	0
ID	0	3	27	57	13
IL	19	24	38	19	0
IN	32	35	30	3	0
KS	2	6	61	30	1
MI	NA	NA	NA	NA	NA
MO	13	33	44	10	0
MT	4	12	43	37	4
NE	3	16	28	50	3
NC	0	0	8	85	7
OH	5	20	45	25	5
OK	0	4	40	52	4
OR	0	7	38	45	10
SD	0	9	49	24	18
TX	0	0	23	65	12
WA	0	4	25	67	4
19 State	3	8	39	44	6
Prev Week	NA				
Prev Year	4	7	41	42	6

VP - Very Poor P - Poor F - Fair
G - Good EX - Excellent

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 NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall under 0.50 in. most areas. Temperatures 7 to 12° below normal. Lows 20s north, upper teens colder locations; near 30° central; near 40° coast. Highs 70° north; mid 70s central, south.

Days suitable for fieldwork 4.0. Soil moisture 73% adequate, 27% surplus. Freeze damage to peach crop varied with variety, location. Cool temperatures delayed plantings. Acreage intended for spring planting 47% prepared, 60% 1991, 49% avg. Fieldwork progress 56% on schedule; 42% behind normal, 7 days avg.; 2% ahead of normal, 7 days avg. Corn 48% planted, 58% 1991, 54% avg. Sorghum 3% planted, 4% 1991, 4% avg. Winter wheat 23% headed, 33% 1991, 30% avg.; 1% turning color, 1% 1991, 2% avg.; conditions 1% poor, 31% fair, 65% good, 3% excellent. Livestock feed now obtained from pastures 49%. Pastures 6% poor, 31% fair, 59% good, 4% excellent. Livestock 34% fair, 66% good. Activities: Preparing land for spring planting; fertilizing pastures, hay fields, small grains; planting corn, sorghum, Irish potatoes, spring vegetables; scouting wheat, potato fields; spraying fruit, pecan trees; care, feeding of livestock, poultry, catfish.

ARIZONA: Sunny statewide except mostly cloudy, few showers, north, 29th. Rain showers statewide, 30th to 1st. Partly cloudy statewide except rain southeast. Sunny with rain showers south central, 3rd, east, 4th. Rainfall 0.02 in. far southeast to 1.43 in. central. Temperature for period 2° below to 4° above. Extremes 21°; 74° higher elevations, 42°; 86° deserts.

Cotton planted 22%, 26% 1991, 39% avg. Planting slow due to weather. Activities seedbed preparations, pre irrigation, planting. Alfalfa condition fair to good; weed, insects moderate, harvest light to moderate. Small grains jointing, 99%, 96% 1991, 98% avg.; heading, 63%, 61% 1991, 57% avg. Lemons, grapefruit, oranges, tangerines, mixed vegetables, lettuce harvested central, west. Lettuce planting, east; melon planting central. Pasture, range conditions 91%. Range conditions poor to fair north, good to excellent central and southeast. Cattle, calves fair, north, mostly good, central, southeast. Stockwater, soil moisture mostly adequate statewide. Range, feed sup-plies, below average north; above average to average, central, southeast. Insect damage, light.

ARKANSAS: Temperatures well below normal, scattered light showers first part of week. Temperature 19°; 86°. Rainfall none to 0.80 in.

Wheat fair to good. Some scattered reports of Barley Yellow Dwarf virus, Rust, Downy Mildew in east central. Some rice planted reported. If drying weather conditions continue, rice planting should intensify next week. Corn, sorghum planting continues. Soil preparation in full swing. Pastures in fair to good condition. Cool, wet weather has delayed pasture development, especially bermuda, bahia grasses. Livestock good. Brucellosis vaccinations taking place in central areas. Some reported freeze damage to fruit, vegetable crops.

CALIFORNIA: Low pressure brought light rain many areas early week. Heavier amounts southern areas. High pressure dominated north. Temperatures above normal.

Field activities slowed, rains south half; drier conditions north half. Small grains excellent growth; some fertilizer, herbicide applications. Ground preparation rice underway. Straw burning few fields. Alfalfa sprayed weevils. Alfalfa, oats, cut hay, green chopped. Forage mixes cut silage. Lima beans blooming. Garbanzo, lima beans irrigated. Safflower sprayed weed control. Corn planting increased. Cotton planting limited progress. Thinning, weed control, fertilization, fungicide application active. Almonds sizing well. walnuts leafing out. Two thirds Navel orange crop picked to date. Desert Valencia orange harvest active. South coast lemon picking continued. New crop citrus and avocado bloom reported heavy. Artichoke shipments continued central coast. Asparagus packing continued Delta, Salinas Valley, moderate good demand. Broccoli fairly heavy Salinas Watsonville, moderate but seasonally increasing Santa Maria, good quality. Carrot digging continued central, south districts. Cauliflower fairly heavy Salinas Watsonville, fairly heavy, seasonally increasing Santa Maria, variable quality. Broccoli, cauliflower harvest, south district, some hail damage. Celery planting active central coast. Harvest peak south district, excellent quality. Iceberg lettuce harvest continued Westside area excellent quality. Packing moderate Salinas Watsonville, light Santa Maria, variable quality. Leaf, Romaine lettuce harvest seasonally increasing, good quality Salinas Watsonville. Some melons hail damaged isolated south district areas. Onion field preparation underway north district, central valley plantings growing well. Fall potato movement Tulelake Butte Valley continued moderate light. Winter potato harvest south district moved towards completion. Spinach harvest finishing some central valley areas, while others will let fields grow re harvest. Rangeland, pasture conditions good to excellent. Forage green, excellent growth. Stock ponds filling. Cattle returned to pasture. Supplemental feeding, movement light. Spring calving active.

COLORADO: Isolated light showers on 30th to 31st were followed by rain, snow in the southern part of the State on 1st. Precipitation generally light 0.10 to 0.20 in. in the south; up to 0.75 in. in the Durango area. Temperatures 3 to 5° above average.

Days suitable for fieldwork 3.8. Limited activity due to wet field conditions. Soil moisture 1% very short, 11% short, 76% adequate, 12% surplus. Oats seeded 37%, 25% 1991, 18% avg.; emerged 13%. Barley seeded 25%, 24% 1991, 20% avg.; emerged 9%. Spring wheat seeded 6%, 5% 1991, 4% avg. Dry onions planted 37%, 30% 1991, 20% avg. Winter wheat 1% very poor, 2% poor, 13% fair, 65% good, 19% excellent. Sugarbeets planted 4%, 35% 1991, 13% avg. Cows calved 67%, 66% 1991, 60% avg.; ewes lambed 74%, 74% 1991, 61% avg. Death losses for calves, lambs below avg. Range, pasture feed good to excellent.

FLORIDA: Temperatures 7 to 10° below normal north, 4 to 8° below normal central, 3 to 6° below normal south. Scattered frost, light freeze over colder locations in north on morning of the 4th. Lows; mid, upper 30s north, low, mid 40s central, interior south, upper 40s to upper 50s elsewhere. Highs; mid 70s to low 80s north, upper 70s to mid

80s central, mid, upper 80s south. Rainfall; 0.50 in. or less, but locally 1.00 in or more.

Soil moisture adequate to surplus Panhandle, northern Peninsula, adequate southern Peninsula, short to adequate central Peninsula. Field preparations active for spring planted crops. Corn planting active. Tobacco transplanting complete. Cool weather slowing growth of corn, northern areas. Citrus groves near excellent condition, moisture slightly less than adequate, low volume irrigation very active all areas. Peak bloom past, some bloom continuing. Trees all ages full of new growth. Valencia harvest very active all areas. Movement of all grapefruit is slow as supplies are reduced to a few areas of lower east coast. Temple and Honey tangerine harvest almost over for season. Caretakers cutting cover crops, putting on post bloom sprays and hedging harvested groves. Warm days, cool nights prevailed over most of vegetable producing areas. Frost nipped early northern watermelon plantings. Harvest active. Volume leaders: tomatoes, potatoes, cucumbers, peppers, cabbage, sweet corn. Also available: snap beans, carrots, celery, eggplant, escarole, lettuce, radishes, squash. Sweet corn harvest underway, Everglades. State's pastures fair to excellent. Pasture ratings, 45% fair, 50% good, 5% excellent. Moisture levels short to surplus. State's cattle herds fair to excellent.

GEORGIA: Rain only one day statewide. Temperatures 8 to 12° below normal. Highest temperatures middle 60s northeast mountains, low 70s elsewhere north, middle 70s central to low 80s Florida border. Lows 20° northeast mountains, low to middle 30s central to south. Rain amounts under 0.50 in., local areas south over 1.00 in.

Days suitable for fieldwork 3.6. Soil moisture 1% short, 66% adequate, 33% surplus. Corn 8% very poor, 7% poor, 57% fair, 27% good, 1% excellent; 56% planted, 73% 1991, 70% avg.; cold temperatures slowing development. Cotton 0% planted, 1% 1991, 1% avg. Sorghum 0% planted, 6% 1991, 3% avg. Peanuts 0% planted, 2% 1991, 1% avg. Tobacco 9% poor, 72% fair, 19% good; 33% transplanted, 59% 1991, 62% avg. Wheat 31% fair, 69% good; 90% jointing, 97% 1991, 95% avg.; 41% boot, 74% 1991, 70% avg.; 8% headed, 31% 1991, 32% avg. Other small grains 34% fair, 66% good. Onions 63% fair, 37% good; 0% harvested, 1% 1991, 1% avg. Watermelons 17% very poor, 20% poor, 58% fair, 5% good; 41% planted, 79% 1991, 76% avg. Other vegetables 5% very poor, 3% poor, 62% fair, 30% good. Apples 54% fair, 46% good; 41% blooming, 37% 1991, 47% avg. Peaches 1% poor, 51% fair, 48% good; 96% blooming, 91% 1991, 97% avg. Pasture 4% poor, 28% fair, 65% good, 3% excellent. Cattle 19% fair, 81% good. Hogs 10% fair, 89% good, 1% excellent.

HAWAII: Weather systems near the island chain brought rain to some crop growing areas; however more is needed to bring relief from the prolonged dry spell, replenish soil moisture, irrigation reservoirs. Drought emergency remains in effect Hawaii island. Rainfall 50 to 75% lower than at this time a year ago. Mandatory water restrictions being considered for some areas Maui island. Temperatures low 60s to mid 80s. Rainfall none to 1.90 in.

Days suitable for fieldwork 7.0. Banana supplies are expected at about the same level. Papaya supplies lower from Hawaii island, low rainfall adversely affected some plantings. Watermelon plantings made good progress, first harvest scheduled mid April. Insect population increase aided by dry, warm weather, spray programs generally effective. Pastures drying many grazing areas, supplemental feeding increasing to maintain livestock.

IDAHO: Temperatures 3 to 7° above normal. Trace amounts of precipitation fell across State.

Days suitable for fieldwork 7. Soil moisture 8% very short, 42% short, 50% adequate. Spring wheat emerged 21%, 6% 1991, 5% avg. Spring barley planted 40%, 27% 1991, 21% avg.; emerged 14%, 4% 1991, 3% avg. Sugarbeets planted 57%, 41% 1991, 36% avg. Potatoes planted 4%, 1% 1991, 1% avg. Onions planted 51%, 80% 1991, 59% avg. Lentils 30% planted. Seed potatoes cut, sorted, shipped in east. Fruit trees were budding Statewide with some blooming in southwest. Bingham, Camas, Elmore, Lincoln, Gooding Counties reported cutworm problems in alfalfa. Irrigation water 6% very poor, 24% poor, 29% fair, 41% good. Activities: Plowing, fertilizing, seeding spring crops. Pasture, range 90% of normal. Hay, roughage supplies mostly adequate. Calving 81% complete. Lambing 87% complete. Livestock reported in good to excellent condition.

ILLINOIS: Spring weather returned to State on 5th. Temperatures across the State upper 20s to mid 50s. Precipitation 0.15 in. to as much as 1.50 in. Soil temperatures at 4-in. depth 40s to lower 50s.

Winter wheat 19% very poor, 24% poor, 38% fair, 19% good. Soil moisture was mostly adequate.

INDIANA: Temperatures 6 to 10° below normal. Highs low to upper 40s. Lows, mid 20s to mid 30s. Precipitation 0.30 to 0.90 in.

Days suitable for fieldwork 0.7. Topsoil 4% short, 54% adequate, 42% surplus. Subsoil 28% short, 67% adequate, 5% surplus. Spring cropland 66% tilled, 55% 1991, 66% avg. Wheat 3 in. high, 2 in. 1991, 1 in. avg. Wheat 3% jointed, 4% 1991, 8% avg. Oats 20% seeded, 20% 1991, 31% avg. Clover 43% seeded, 47% 1991, 54% avg. Hay, roughage 13% very short, 37% short, 47% adequate, 3% surplus. Pasture condition 2% very poor, 48% poor, 46% fair, 4% good. Cooler, dryer than normal.

IOWA: Temperatures 1° above normal northwest to 3° below southeast. Extremes 14°; 65°. Precipitation trace to 0.07 in.; average trace.

Days suitable for fieldwork 2.7. Topsoil 1% short, 81% adequate, 18% surplus. Subsoil 1% short, 82% adequate, 17% surplus. Winter wheat 3% very poor, 30% poor, 44% fair, 21% good, 3% excellent. Pasture condition 88% of normal. Oat 35% sown, 25% 1991, 26% avg. Seedbed preparation 35% completed, 47% 1991, 46% avg. Fertilizer application 38% completed, 44% 1991, 40% avg. Livestock were in mostly good condition.

KANSAS: Temperatures 1 to 3° below normal except northwest 1° above normal. Rainfall light 0.20 to 0.40 in. west, 0.30 to 0.60 in. central, 0.20 to 1.00 in. east.

Days suitable for fieldwork 3.5. Topsoil 23% short, 72% adequate, 5% surplus. Subsoil 37% short, 62% adequate, 1% surplus. Wheat continues to develop ahead schedule. Some freeze damage possible especially on jointed stands; temperatures were from lower to mid 20s. Insects, diseases normal for time of year; no problems yet. Corn planting started southern areas, good progress. Seedbed preparation continues at good pace. Cattle moving off wheat into feedlots or onto emerging spring grass. Some range burning underway. Lambing, calving, farrowing winding down. Few problems encountered.

KENTUCKY: High temperatures lower 50s, 10° below normal. Low tempertures middle 30s, 5° below normal. Rainfall near normal averaging 1.20 in.

Days suitable for fieldwork 1.3, activities limited by wet soil conditions, low temperatures. Soil moisture 47% adequate, 53% surplus. Wheat, alfalfa, red clover damaged by freezing temperatures in mid March. Wheat crop generally fair to

good. Tobacco beds 67% seeded, 79% 1991, 82% avg. Pastures 75% normal. Ample carryover hay, about one fourth current roughage requirements from pastures. Over 80% of the cattle still on winter feed.

LOUISIANA: Temperatures 4.7 to 7.0° below normal. Extremes 30°; 81°. Rainfall none most areas to 0.23 in. west central.

Days suitable for fieldwork 4.6. Soil moisture 2% short, 83% adequate, 15% surplus. Corn 77% planted, 83% 1991, 48% avg.; 57% emerged, 59% 1991, 31% avg. Rice 26% planted, 34% 1991, 23% avg.; 14% emerged, 13% 1991, 12% avg. Damage to newly planted rice fields by blackbirds, ducks continues, southwest. Spring plowing 55% complete, 54% 1991, 42% avg. Sorghum 2% planted, 24% 1991, 8% avg.; 0% emerged, 14% 1991, 3% avg. Cool weather slowing planting. Sugarcane 38% fair, 52% good, 10% excellent. Cool weather slowing growth. Fertilizing, spraying herbicides, cultivating continued. Wheat 7% poor, 38% fair, 55% good; 49% headed, 53% 1991, 43% avg. Livestock 38% fair, 60% good, 2% excellent. Pasture 4% very poor, 2% poor, 13% fair, 74% good, 7% excellent. Vegetables, 10% poor, 59% fair, 31% good.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.19 in. Temperature 44.4°, normal 49.8°. Extremes 18°; 69°.

Days suitable for fieldwork 3.8. Topsoil 83% adequate, 17% surplus. Subsoil 10% short, 74% adequate, 16% surplus. Potatoes 20% planted, 0% 1991, 11% avg. Green peas 30% planted, 5% 1991, 11% avg. Field preparation 16%, 8% 1991, 2% avg. Small grains fair to mostly good condition, none heading. Powdery mildew and aphids on wheat. Pastures in good condition. Hay demand high, short to adequate supply. Peaches, apples blooming. Activities: planting tobacco, sweet potato beds; buying seed, fertilizer; preparation for spring planting; tune up machinery; preparing to apply N to small grain; evaluating crop insurance costs; marketing, caring for livestock; checking on newborn livestock.

DELAWARE: Precipitation 0.17 in. Temperature 45.8°, normal 49.4°. Extremes 25°; 63°.

Days suitable for fieldwork 5.9. Topsoil 100% adequate. Subsoil 100% adequate. Small grains good condition, none heading. Pastures in good to excellent condition. Hay demand strong, short to adequate supply. Peaches, apples close to blooming. Activities: Planting tobacco, sweet potato beds; planting green peas, spring oats; buying seed, fertilizer; active preparation for spring planting; tune up, repair machinery; preparing to apply N to small grain; evaluating crop insurance costs; marketing, caring for livestock; checking on newborn livestock.

MICHIGAN: Temperatures 1 to 6° below normal. Extremes 7°; 56°. Precipitation none to 0.62 in. across State. Cold weather continued last week. Snow fell late-week but was gone within a day.

Fields are soft during the day but hard in the morning. Maple syrup is in full swing, sap is running. Livestock are in good condition. Feed supplies are in good supply. Major activities included: hauling manure; marketing crops; attending sales; removing brush from orchards.

MINNESOTA: Mild temperatures over the weekend brought average temperatures to near or above normal for the week. Precipitation was generally light.

Spring has definitely arrived with field activity reported in several areas of the state. An estimated 2% of the spring wheat is planted. Farmers are also beginning to prepare corn and soybean ground in the southwest. The ice has left many of the area's lakes.

MISSISSIPPI: Temperature 54°, 6.8 below normal. Extremes 22°, 79°. Mostly dry statewide. Rainfall 0.20 in., 1.18 below normal. Soil temperature 58°.

Days suitable for fieldwork 4.5, 3.1 1991, 2.4 avg. Soil moisture 86% adequate, 10% surplus, 4% excessive. Corn 33% planted, 52% 1991, 32% 5 year avg.; 18% emerged, 35% 1991, 18% 5 year avg.; 26% poor, 62% fair, 12% good. Rice 4% planted, 9% 1991, 3% 5 year avg. Sorghum 2% planted, 25% 1991, 9% 5 year avg. Watermelons 30% planted, 42% 1991, 31% 5 year avg. Wheat 84% jointing, 83% 1991, 84% 5 year avg.; 18% heading, 16% 1991, 14% 5 year avg.; 4% poor, 54% fair, 42% good. Livestock 22% fair, 78% good. Pasture 96% of normal. Activities: Preparing land, equipment for other spring plantings, fertilizing.

MISSOURI: Temperatures 5° below normal, lows below freezing many areas 2nd. Rainfall 0.09 in., light all areas.

Days suitable for fieldwork 1.9. Topsoil 10% short, 69% adequate, 21% surplus. Fieldwork still limited by wet fields. Oats sown 56%, 70% 1991, 57% avg. Ground worked at least once for spring crops 51%, 68% 1991, 51% avg. Cold weather, freeze set back wheat, legumes. Pasture 9% very poor, 28% poor, 44% fair, 18% good, 1% excellent.

MONTANA: Temperatures 11 to 20° above normal. Record highs reported most of State 3rd. Precipitation below normal most of State. West received above normal moisture in some locations.

Topsoil 66% short, 34% adequate. Subsoil 52% short, 46% adequate, 2% surplus. Oats planted 10%, 4% 1991, 2% avg. Sugarbeets planted 0%, 15% 1991, 5% avg. Barley planted 19%, 4% 1991, 3% avg. Calving 69% complete, lambing 58% complete. Abnormally mild weather favors newborn livestock. Pasture, range growth rate 27% slow, 45% average, 28% above average.

NEBRASKA: Temperatures near normal in the east, up 7° above normals in the north central. Beneficial rain fell on 28th to 29th with only light scattered amounts of precipitation during the rest of the week.

Days suitable for fieldwork 3.4. Topsoil 5% short, 85% adequate, 10% surplus. Subsoil 11% short, 83% adequate, 6% surplus. Wheat 3% very poor, 16% poor, 28% fair, 50% good, 3% excellent. Oats sown 52%, 38% 1991, 36% avg. Pasture, range 90% normal. Spring calving 74% complete.

NEVADA: Rainfall observed all sections with northeast receiving the least. Las Vegas over 1 in. in a 24 hour period. Temperatures most areas nearly 10° above normal. Extremes 19°; 85°.

Fieldwork making progress all areas. Winter wheat greening up, preparing potato, small grain ground for planting. Some areas will have only about 35% of normal allocation for irrigation with surface water. Calving, lambing continue with no major problems.

NEW ENGLAND: Precipitation 0.40 to 0.95 in. northern Maine, none to 0.25 in. elsewhere north; 0.15 to 0.60 in. south. Temperatures low to high 30s north, mid 30s to mid 40s south. Maximum temperatures high 40s north to low 60s south; minima teens north to low 30s south.

Activities: General repairs, maintenance, tending livestock, moving crops from storage. Maple sugaring in full swing throughout region.

NEW JERSEY: Temperatures much below normal. Extremes 19°; 64°. Rainfall 0.24 in. north, 0.32 in. central; 0.26 in. south. Heaviest 24 hour total 0.29 in. on 30th, 31st. Estimated soil moisture, in percent field capacity, averaged 100% north, 99% central south. Four inch soil temperatures averaged 39° north, 43° central, 44° south.

Dryer weather permitted increased field preparation, plowing. Planting of early vegetables underway.

NEW MEXICO: Temperatures unusually cool over the southeastern plains, the southern parts of the central highlands averaging 2° to 6° below normal. Readings elsewhere 2 to 4° warmer than normal. Precipitation was heavy as summer-like showers prevailed. Amounts exceeded 0.50 in. many areas with a maximum of 2.33 in. west.

Days suitable for fieldwork 5.6. Soil moisture 18% short, 78% adequate, 4% surplus. Crop conditions: Alfalfa, 35% fair, 65% good. Irrigated wheat, 17% fair, 83% good, with 41% of the crop being grazed. Dryland wheat 50% fair, 50% good with 34% of the crop being grazed. Onions 25% fair, 75% good. Lettuce good. Cattle, sheep in fair to good condition. Range 88% of normal.

NEW YORK: Colder, drier than normal. Highs in mid 40s to mid 50s. Lows in 20s. Extremes 19°; 57°. Precipitation 0.25 to 0.50 in. most locations. Lighter amounts occurred in Mohawk Valley, St. Lawrence Valley, Champlain Valley.

Cold nights, warm days excellent for maple production. Producers collecting, boiling sap. Spring plowing active on drier soils. Activities included tending livestock, spreading manure, moving crops from storage, attending meetings.

NORTH CAROLINA: Cold front late in week; below normal temperatures; snow in mountains. Extremes 17°; 73°. Precipitation none to 0.92.

Days suitable for fieldwork 4.7. Soil moisture 6% short, 86% adequate, 8% surplus. Crop condition: Wheat 8% fair, 85% good, 7% excellent; oats 11% fair, 86% good, 3% excellent; barley 12% fair, 84% good, 4% excellent; rye 3% poor, 9% fair, 83% good, 5% excellent; pasture 3% poor, 33% fair, 60% good, 4% excellent; tobacco plant beds 26% fair, 70% good, 4% excellent; irish potatoes 7% poor, 32% fair, 61% good; peaches 7% very poor, 29% poor, 32% fair, 32% good; truck crops 9% poor, 28% fair, 63% good. Irish potato planted 94%, 87% 1991, 79% avg.; cabbage planted 82%, 76% 1991, 67% avg.; corn planted 7%, 11% 1991, 11% avg. Tobacco plant bed supplies 4% short, 96% adequate. Hay, roughage supplies 4% short, 90% adequate, 6% surplus. Feed grain supplies 2% very short, 4% short, 90% adequate, 4% surplus. Livestock feed from pastures 49%. Activities: Land preparation; tending tobacco plant beds; topdressing small grains, pastures; planting irish potatoes, cabbage, corn; tending livestock; pruning fruit trees; equipment repair; general maintenance.

NORTH DAKOTA: Daytime temperatures generally mild with warming trend toward weekend. Temperatures 1° below normal northeast, east central to 4° above normal southwest. Extremes 8° southeast; 75° northwest, southwest. Precipitation trace most areas to 0.01 in. north.

Topsoil 20% short, 79% adequate, 1% surplus. Subsoil 5% very short, 40% short, 55% adequate. Statewide expected starting date for spring fieldwork on 8th. Hard red spring wheat 3% planted, 3% 1991, 1% avg.; durum wheat 1%, none 1991, none avg.; oats 2%, 1% 1991, none avg.; barley 1%, 4% 1991, 1% avg. Winter wheat 6% poor, 62% fair, 32% good; 58% dormant, 42% green. Winter kill 10% less than normal, 80% normal, 10% more than normal. Livestock mostly good; calving 67% complete, lambing 77%, shearing 83%. Nearly all range livestock received supplemental feed. Hay and roughage supplies 95% adequate, 5% surplus. Grain concentrate supply 91% adequate, 9% surplus. Pasture condition 88% of normal; 85% open for grazing, 93% dormant.

OHIO: Conditions remained cooler, drier than normal. Maximum temperatures low to upper 40s while minimums were mid 20s to near 30°. Averages of 34 to 38° were 6 to 12° below normal. Precipi-tation was scarce; generally less than 0.30 in. north, less than 0.50 in. central, 0.50 to 0.80 in. south. Soil temperatures at 4-in. depth under bare ground range from mid to upper 30s north to low 40s south. Warmer air arrived over the weekend on southwesterly breezes.

Condition of winter wheat is reported mostly fair, virtually unchanged from last week. In fields whose plants did not develop adequate root growth last fall, roots have been exposed. Considerable heaving is being reported in heavy soils because of the unusual freezing, thawing last week.

OKLAHOMA: Temperatures 5° below normal south central to 1° above normal Panhandle. Precipitation 0.19 in central, east central, Panhandle to 0.68 in. west central.

Days suitable for fieldwork 5.6. Topsoil 31% short, 67% adequate, 2% surplus. Subsoil 85% adequate, 15% short. Wheat 4% poor, 40% fair, 52% good, 4% excellent; 91% jointing, 59% 1991, 54% avg.; 2% heading, 0% 1991, 4% avg. Some freeze damage reported. Crop insect activity light to moderate. Corn plantings active southern districts, east central district. Sorghum plantings active south central district. Cattle good; marketings average; prices steady to higher.

OREGON: Temperatures 5 to 9° above normal, except few stations 10 to 15° above normal. Precipitation 0.10 or less most areas. Coastal, central Willamette Valley 1.00 in. or more.

Soil moisture 52% short, 45% adequate, 3% surplus. Winter wheat 7% poor, 38% fair, 45% good, 10% excellent. Barley 57% planted. Spring wheat planting, grain crop chemical applications, spring tillage operations underway. Some field irrigation underway, eastern areas. Fruit and nut trees blooming, except higher elevations, progress 2 to 3 weeks ahead of normal. Some possible frost damage, Hood River Valley, southern coast. Blueberries, strawberries, cranberries in bloom, western areas. Onion planting eastern areas nearing completion. Vegetable field preparations continued, western areas. Livestock condition good. Pastures greening statewide, 2 to 3 weeks ahead of normal. Spring calving, lambing percentages generally above normal. Stockwater short, eastern areas. Statewide pasture, range 84% of normal.

PENNSYLVANIA: Temperature 40°, same as normal. Extremes 15°; 61°. Precipitation 0.38 in., 0.43 in. below normal.

Days suitable for fieldwork 1. Soil moisture 11% short, 63% adequate, 26% surplus. Plowing 13% complete, 12% 1991, 10% avg. Corn 0% planted, 0% 1991, 0% avg. Oats 1% planted, 7% 1991, 9% avg. Potatoes 0% planted, 1% 1991, 3% avg. Tobacco beds 4% planted, 4% 1991, 23% avg. Barley 100% pre boot, 100% 1991, 100% avg.; 0% boot, 0% 1991, 0% avg. Wheat 100% pre boot, 100% 1991, 100% avg. Wheat 2% very poor, 6% poor, 28% fair, 51% good, 13% excellent. Oats 20% poor, 50% fair, 10% good, 20% excellent. Hay stands mostly fair to good. Feed from pastures mostly good to fair. Peaches 100% pre pink, 96% 1991, 91% avg.; 0% pink, 4% 1991, 5% avg.; 0% full bloom or past, 0% 1991, 2% avg. Cherries 97% pre pink, 97% 1991, 96% avg.; 3% pink, 3% 1991, 4% avg. Apples 98% pre pink, 99% 1991, 99% avg.; 2% pink, 1% 1991, 1% avg. Activities: plowing; planting crops; fence repair; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

PUERTO RICO: Island rainfall 1.45 in. was 0.70 in. above normal. Highest rainfall 6.83 in. at Jayuya, 5.30 in. at Cerro Maravilla. Highest 24 hour total 3.87 in. at Jayuya. Divisional temperatures 76 to 78° coast, 70 to 71° interior; mean temperatures 61.9° at Cerro Maravilla to 80.3° at Guayama. Extremes 50°; 91°.

SOUTH CAROLINA: Temperatures 5 to 7° below normal. Rainfall 0.20 in. statewide.

Days suitable for fieldwork 5.3. Soil moisture 16% short, 82% adequate, 2% surplus. Tobacco fair; 9% planted, 8% 1991, 11% avg. Corn fair; 53% planted, 44% 1991, 41% avg. Watermelons fair; 39% planted, 46% 1991, 46% avg. Cantaloupes

fair; 26% planted, 30% 1991, 27% avg. Tomatoes fair; 36% planted, 50% 1991, 69% avg. Cucumbers fair to good; 39% planted, 45% 1991, 41% avg. Snap beans fair to good; 24% planted, 31% 1991, 24% avg. Oats fair to good; 6% headed, 8% 1991, 8% avg. Wheat fair to good; 2% headed, 6% 1991, 8% avg. Pastures fair to good. Cold weather caused most of the decline in crop conditions. Some powdery mildew appearing in wheat.

SOUTH DAKOTA: Temperatures about 5° above normal. Extremes 5°; 86°. Precipitation: a few spotty showers. Maximum 0.01 in.

Days suitable for fieldwork 4.8. Topsoil 4% critical, 9% short, 87% adequate. Subsoil 9% critical, 26% short, 65% adequate. Rye 3% poor, 68% fair, 20% good, 9% excellent. Barley 13%, 6% 1991, 4% avg. Oats 19% planted, 10% 1991, 10% avg. Winter kill 9% heavy, 46% moderate, 32% slight, 13% none. Some areas are reseeding winter wheat to spring crops. Livestock 77% good, 23% excellent. Pasture 89% of normal. Cows calved, 48%. Sheep lambed 70%. Stock dams are being reported dry in some ares of the State.

TENNESSEE: Cold fronts moved through State 30th, 1st, again 4th. Temperatures much below normal. Warmest west, 5° below normal. Middle, eastern 9 to 14° below normal. Below freezing temperatures widespread mornings of 2nd, 3rd. High temperatures mainly in the 50s, 60s. Overnight low 22° at Tri-Cities on 3rd. Precipitation much below normal, with Tri-Cities the only reporting station measuring more than 0.5 in. Most precipitation fell 30th; light amounts 1st.

Days suitable for fieldwork 2.3. Soil moisture 80% adequate, 20% short. Muddy fields continued to slow land preparation. Winter wheat fair to good. Livestock mostly good.

TEXAS: Pleasant early in week; colder, wet at midweek. Latter half of week, rain, thunderstorms southern two-thirds of State. Upper air disturbance triggered additional rain over south central, South Texas over weekend. For week, temperatures below normal except normal on northern High Plains. All districts reported rainfall; below normal over north central, East Texas and above normal elsewhere. Greatest totals Coastal Bend, lower Rio Grande Valley.

Crops: Small grain fields continued good progress with cooler weather. Fields on Plains, welcomed rainfall received early in week. Many fields plagued by green bugs, leaf rust. Most oat fields continued excellent grazing, good grain prospects in South Texas. Wheat 86% normal compared with 63% 1991. Corn planting continued where weather conditions permitted. Planted fields up to a good stand, although warmer temperatures needed for good growth. Planting winding down in South Texas. Land preparation continued and planting expanded on Plains. Grain sorghum planting continued as conditions permitted. Planting winding down in South Texas. Some replanting may be necessary due to wildlife damage in South Texas. Cotton planting slowed by wet field conditions. Some cotton in Coastal Bend may be replanted due to standing water in fields. Producers on Plains continued land preparation. Some pre-irrigating in Trans-Pecos. Rice planting delayed early in week by wetness; planting increased by midweek.

Commercial Vegetables: Rio Grande Valley, onions continued to improve. High Plains, some potatoes emerged. Land preparation began for tomato planting. Trans-Pecos, chile planting continued. East Texas, land preparation underway; however, soil remains wet for extensive work. Most peach trees have set fruit. Some areas continue spraying for diseases, insects.

Range and Livestock: Range, pasture conditions improved; grasses greening up. Some pastures growth slowed by cooler weather. Cattle weight gain improved. Spring calving continued.

UTAH: Temperature maximums 2° above normal, minimums 5° above normal. Moderate precipitation all regions except heavy in Dixie.

Days suitable for fieldwork 6.1. Soil moisture 33% short, 63% adequate, 4% surplus. Winter wheat 79% good, 21% adequate. Spring wheat planted 78%, 51% 1990. Barley planted, 63%, oats 61%. Winter wheat freeze damage light. Fruit trees 2 weeks ahead of normal. Spring calving 68% complete. Lambing in farm flocks 65% completed, range flocks, 21%. Farm flocks 55% sheared, range flocks 30% sheared. Range and pasture conditions 85% of normal.

VIRGINIA: Temperatures 5 to 15° below normal. Extremes 14°; 73°. Precipitation less than 0.50 in. southwest while and dry elsewhere.

Days suitable for fieldwork 3.8. Topsoil 11% short, 77% adequate, 12% surplus. Pasture 3% poor, 64% fair, 33% good. Alfalfa 1% poor, 73% fair, 26% good. Barley 34% fair, 66% good. Wheat 35% fair, 65% good. Apples, peaches mostly fair condition. Tobacco plantbed 26% poor, 47% fair, 27% good. Tobacco plantbeds 95% seeded. Potato planting nearing completion. Fertilizing small grains, laying plastic for tomato planting, spraying fruit trees, irrigating plantbeds, fumigating fields for peanut planting.

WASHINGTON: Temperatures 5 to 9° above normal west, 4 to 8° above normal east. Precipitation none to 0.14 in. west; none reported east.

Days suitable for fieldwork 6.9. Soil moisture 19% short, 80% adequate, 1% surplus. Hay, other roughage 6% short, 81% adequate, 13% surplus. Range, pasture 12% poor, 33% fair, 55% good. Winter wheat 4% poor, 25% fair, 67% good, 4% excellent. Winter barley 8% fair, 90% good, 2% excellent. Potatoes planted 15%. Spring wheat 75% planted; 45% emerged. Spring barley 70% planted; 30% emerged. Dry peas 40% planted. Field activity full swing. Ideal conditions for soil preparation, planting. Generally field operations ahead of normal. Fruit tree blooming advanced, crop subject to frost damage. Minimal frost damage reported. Lettuce, radishes planted west. Asparagus harvested central. Producers turning cattle out on pastures.

WEST VIRGINIA: Temperature 37°. Extremes 15°; 61°. Precipitation 0.79 in.

Days suitable for fieldwork 1.2. Soil moisture 4% short, 75% adequate, 21% surplus. Wheat good. Barley good. Hay feed supplies adequate. Other feed supplies adequate. Cattle 22% fair, 78% good. Sheep 40% fair, 60% good. Cows calved 76%. Sheep lambed 80%. Activities: plowing, fencing, field preparation, calving, lambing.

WISCONSIN: Temperature 36°; 1° below normal. Extremes 4°; 62°. Precipitation trace to 0.30 in.

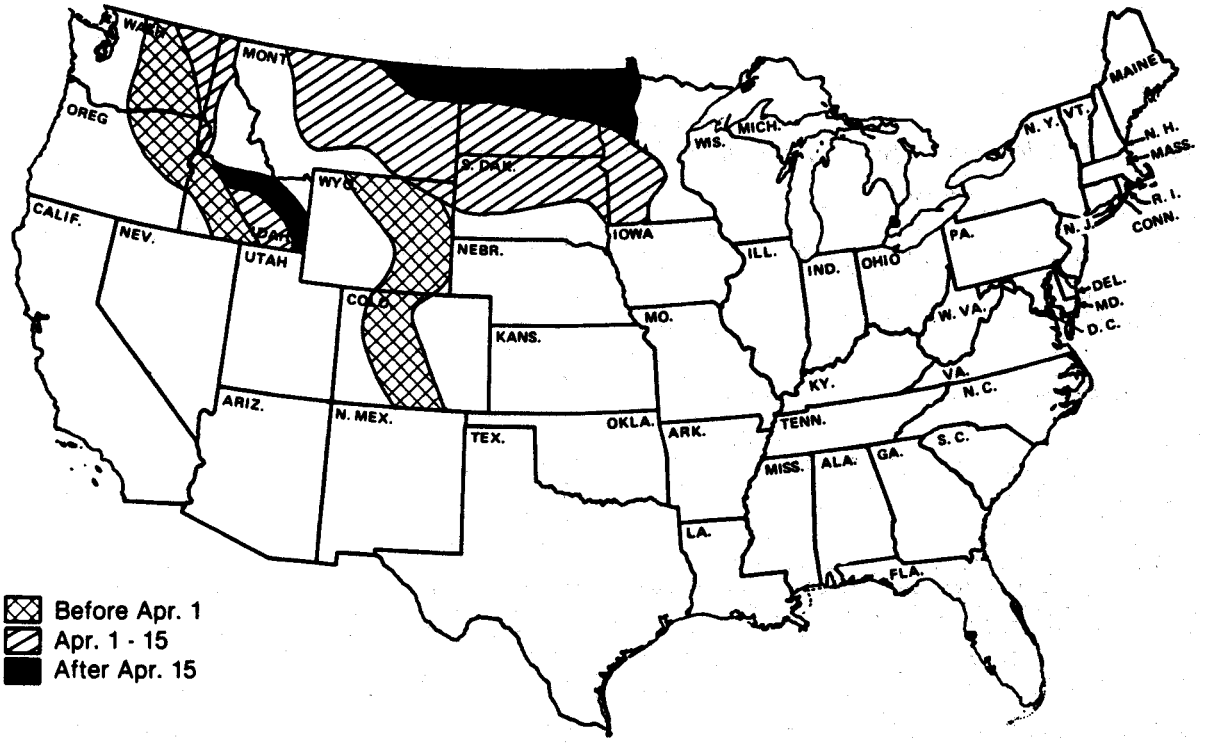
Days suitable for fieldwork 0.5. Soil moisture 59% adequate, 41% surplus. Intended spring tillage 1% complete, 2% 1991, 3% 5 yr avg. Oats 0% planted, 1% 1991, 1% avg. There is still frost in the ground, some snow cover in much of the north; little fieldwork in that area. Many farmers waiting for warmer weather to allow spring progress.

WYOMING: Temperatures 4° above normal. Precipitation below normal over most of State. The only region reporting precipitation was the upper northwest which received 0.10 in. Statewide precipitation was 0.18 in. below normal.

Days suitable for fieldwork 5.3. Topsoil 18% short, 82% adequate. Subsoil 25% short, 75% adequate. Spring wheat 32% planted, 20% 1991, 9% avg. Oats 17% planted, 11% 1991, 5% avg. Barley 54% planted, 54% 1991, 32% avg. Sugar-beets 18% planted, 20% 1991, 7% avg. Winter wheat 22% fair, 78% good. Isolated reports of russian wheat aphids southeast corner. Wind, freeze damage mostly light to moderate. Livestock good to excellent. Spring calves born 62%, 60% 1991, 59% avg. Farm flock ewes lambed 72%, 67% 1991, 64% avg.; shorn 80%, 67% 1991, 58% avg. Range flock ewes lambed 30%, 25% 1991, 27% avg.; shorn 60%, 40% 1991, 34% avg. Calf, lamb death losses light to normal. Ranges, pastures good to excellent. Activities: calving, lambing, preparation for irrigation. Reservoir levels are low some regions.

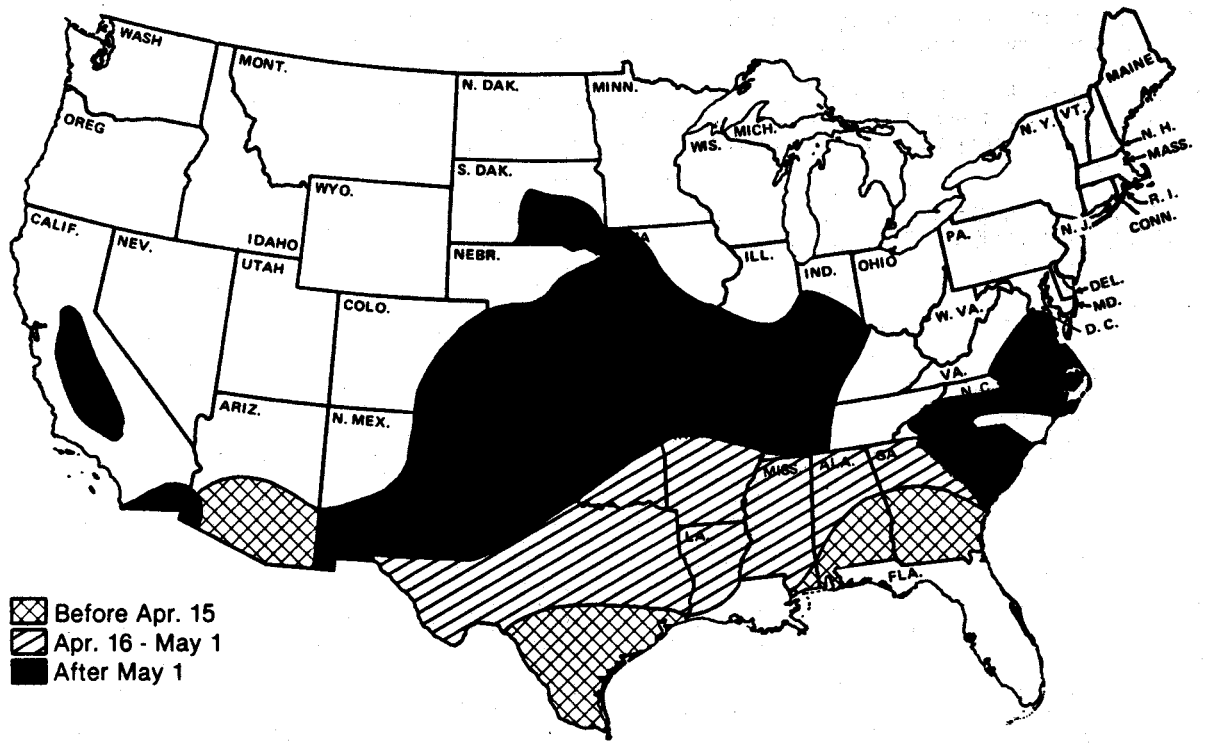
Spring Wheat

Usual Start of Planting, Principal Areas in the United States



Grain Sorghum

Usual Start of Planting, Principal Areas in the United States



International Weather and Crop Summary
HIGHLIGHTS

March 29 - April 4, 1992

FORMER USSR: Winter grains continue greening in the south.

EUROPE: Widespread, locally heavy rain covers southern and western Europe, bringing much needed moisture for crops.

EASTERN ASIA: Continued dryness depletes soil moisture for northern winter wheat. Heavy rains cause more flooding across southern China.

SOUTHEAST ASIA: Beneficial showers return to Indonesia and Malaysia.

SOUTH ASIA: Favorably drier weather promotes winter grain and oilseed maturation and harvest.

SOUTH AMERICA: Drier weather benefits corn and soybean harvesting in central Argentina and extreme southern Brazil. Showers delay summer crop harvesting across south-central Brazil.

AUSTRALIA: Showers delay summer crop harvesting, but favor sugarcane.

NORTHWESTERN AFRICA: Widespread rain continues to stabilize conditions for winter grains in Morocco. Moisture supplies are diminishing for crops in Tunisia.

SOUTH AFRICA: Portions of the winter wheat regions receive beneficial planting rains.

March 1992
MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
****** = DATA NOT AVAILABLE***

COUNTRY	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	DPART AVG	DPART F/NRM	PRECIPITATION (MM) TOTAL	DPART F/NRM
NORWAY	OSLO	4	-1	8	-10	2	4.2	66	26
SWEDEN	STOCKHOLM	6	0	11	-9	3	3.0	28	5
FINLND	HELSINKI	3	-1	8	-7	1	4.2	65	35
U KING	GLASGOW	10	4	13	-2	7	1.0	131	60
	EDINBURGH	10	4	14	-3	7	1.8	50	8
	BIRMINGHAM	11	5	15	-2	8	2.4	54	3
	LONDON	11	5	15	-1	8	2.0	54	-3
IRELND	DUBLIN	11	6	15	1	8	2.1	58	8
ICELND	REYKJAVIK	3	-2	8	-13	1	-0.5	129	57
DENMRK	COPENHAGEN	7	2	11	-5	4	2.4	40	8
LUXEMB	LUXEMBOURG	9	3	15	-1	6	1.5	64	8
SWITZL	ZURICH	10	3	16	-1	7	2.2	80	11
	GENEVA	12	3	17	-2	7	1.9	73	-1
FRANCE	PARIS/ORLY	12	5	18	-2	9	***	51	**
	STRASBOURG	12	3	18	-1	8	1.9	51	16
	BOURGES	13	4	18	-2	8	1.3	44	-14
	BORDEAUX	15	6	18	1	10	1.5	74	1
	TOULOUSE	13	6	19	-1	10	1.1	32	-25
	MARSEILLE	16	7	23	3	12	1.6	26	-18
SPAIN	VALLADOLID	16	3	24	-1	9	1.4	11	-33
	MADRID	17	4	26	-2	11	0.9	8	-39
GERMNY	LEIPZIG	10	2	16	-2	6	2.3	75	41
	DRESDEN	9	2	16	-2	6	2.4	59	22
	HAMBURG	9	3	16	-3	6	2.6	101	58
	BERLIN	9	3	15	-2	6	2.1	82	49
	DUSSELDORF	11	5	18	1	8	2.0	75	34
	STUTTGART	10	1	17	-3	6	1.4	51	10
	NURNBERG	10	1	17	-11	6	1.7	57	14
	MUNICH	9	0	17	-3	5	1.4	105	51
AUSTRI	VIENNA	11	2	16	-4	6	1.0	90	59
	INNSBRUCK	11	1	17	-3	6	1.1	126	80
CZECH	PRAGUE	8	0	14	-4	4	1.6	50	22
POLAND	WARSAW	8	-1	16	-7	4	2.2	40	16
	LODZ	8	0	15	-7	4	2.1	60	23
	KATOWICE	9	-1	15	-8	4	1.5	63	25
	PRZEMYSL	8	0	17	-5	4	2.4	26	-6
HUNGAR	BUDAPEST	11	2	16	-3	6	1.0	40	14
YUGOSL	SARAJEVO	12	0	18	-5	6	1.9	54	-31
ROMANI	BUCHAREST	13	1	25	-3	7	2.7	40	7
BULGAR	SOFIA	11	0	22	-6	6	0.8	27	-10
ITALY	MILAN	15	4	23	-3	9	1.2	22	-58
	VERONA	14	4	21	-1	9	1.0	3	-53
	VENICE	12	4	14	-2	8	-0.1	34	-29
	GENOA	15	10	17	7	12	0.6	40	-47
	ROME	16	7	20	2	11	0.7	59	-5
	NAPLES	16	7	20	4	12	1.2	42	-43
GREECE	THESSALONIKA	15	5	21	-1	10	0.2	19	-23
	LARISSA	16	3	23	-4	9	-0.3	13	-29
	ATHENS	14	8	18	2	11	-1.3	71	37
TURKEY	ISTANBUL	11	4	22	1	7	0.9	92	29
	ANKARA	7	-2	19	-9	3	-2.0	49	22
CYPRUS	LARNACA	17	7	24	4	12	-1.2	12	-27
USSR	TALLINN	4	0	10	-8	2	4.6	67	43
	LENINGRAD	4	0	10	-9	2	5.2	34	5
	KAUNAS	6	0	13	-7	3	3.9	50	20
	MINSK	6	0	13	-7	3	5.1	36	1
	KAZAN	-1	-7	5	-15	-4	1.8	30	8
	MOSCOW	5	-1	11	-7	2	5.2	40	4
	SVERDLOVSK	1	-11	12	-25	-5	-0.4	14	-3
	OMSK	-4	-14	6	-28	-9	1.0	12	1
	KUSTANAY	-4	-14	5	-27	-9	0.4	7	-8
	KRASNOYARSK	-1	-11	7	-21	-6	1.7	16	2
	NOVOSIBIRSK	-4	-11	3	-21	-8	4.0	19	4
	BARNAUL	-3	-11	3	-19	-7	1.2	8	-13
	KHABAROVSK	2	-10	16	-18	-4	3.6	9	-9
	VLADIVOSTOK	3	-4	13	-12	-1	2.1	23	-3
	KIEV	7	1	20	-5	4	4.2	42	3
	LVOV	7	-1	16	-6	3	2.8	27	-11
	KIROVOGRAD	8	1	21	-6	4	4.6	22	-2
	ODESSA	7	3	13	-1	5	2.7	28	0

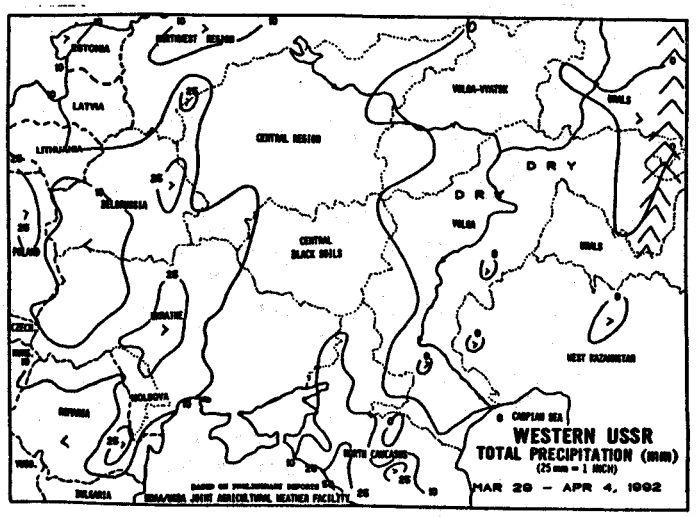
Based on Preliminary Reports

March 1992

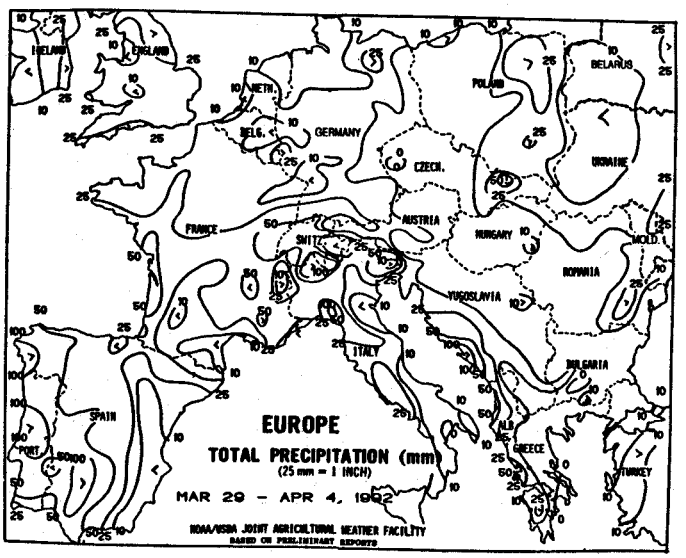
COUNTRY	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	PRECIPITATION (MM) TOTAL	DPART F/NRM
USSR	YALTA	9	4	14	0	6	0.1	72	30
	VORONEZH	4	-2	16	-10	1	4.6	20	-11
	SARATOV	0	-5	7	-13	-3	2.3	10	-10
	KHARKOV	7	1	19	-5	4	4.9	20	-9
	VOLGOGRAD	5	-3	17	-14	1	4.0	9	-22
	ROSTOV	8	1	18	-2	4	3.4	37	1
	ASTRAKHAN	8	-3	16	-8	3	1.9	15	-1
	KRASNODAR	12	2	24	-3	7	3.1	34	-22
	ORENBURG	-2	-12	4	-19	-7	-1.6	8	-14
	TSELINOGRAD	-6	-15	2	-25	-10	0.3	10	1
	KARAGANDA	-4	-14	5	-22	-9	-1.7	10	-7
	TBILISI	12	2	18	-8	7	0.7	8	-24
	TASHKENT	13	3	25	-3	8	-0.1	43	-37
	ASHKHABAD	13	3	25	-3	8	-1.4	35	-9
SYRIA	DAMASCUS	16	1	25	-6	9	-3.0	12	-10
ISRAEL	JERUSALEM	13	5	22	0	9	-3.5	67	-24
PAKIST	KARACHI	30	19	33	12	24	-0.3	0	-11
INDIA	AMRITSAR	25	11	37	1	18	-1.9	53	25
	NEW DELHI	29	17	33	12	23	-0.1	0	-16
	AHMEDABAD	35	19	40	14	27	-0.3	0	0
	INDORE	35	17	38	12	26	0.9	0	-3
	CALCUTTA	34	22	38	17	28	1.0	0	-22
	VERAVAL	31	20	38	17	26	0.5	0	0
	BOMBAY	33	21	38	18	27	0.3	0	0
	POONA	37	15	39	10	26	-0.7	0	-5
	BEGAMPET	37	21	40	10	29	1.7	0	-11
	MADRAS	34	22	39	19	28	0.0	0	-3
	MANGALORE	33	24	39	22	29	0.4	0	-9
H KONG	HONG KONG	20	17	26	10	19	0.1	143	88
N KREA	PYONGYANG	9	-2	18	-7	4	1.3	23	-28
S KREA	SEOUL	12	4	20	-2	8	4.4	16	-40
JAPAN	SAPPORO	5	-2	14	-8	1	1.6	57	-21
	NAGOYA	15	7	21	0	11	3.2	153	54
	TOKYO	13	7	22	2	10	1.5	211	108
	YOKOHAMA	13	7	20	1	10	1.6	228	109
	KYOTO	14	7	21	0	10	3.5	176	68
	OSAKA	14	8	21	2	11	2.6	137	37
THAILN	PHETCHABUN	37	21	40	16	29	-0.1	0	-44
	BANGKOK	35	26	35	22	30	0.9	0	-22
MALAYS	KUALA LUMPUR	34	23	36	22	29	1.9	261	32
VIETNM	HANOI	22	19	28	14	20	0.4	38	0
CHINA	HARBIN	5	-9	18	-21	-2	4.3	5	-6
	HAMI	11	-2	19	-10	5	0.3	4	3
	LANCHOW	10	1	19	-2	6	0.4	9	1
	BEIJING	12	2	22	-3	7	2.3	4	-5
	TIENTSIN	11	1	22	-4	6	1.2	1	-6
	LHASA	14	-1	20	-7	7	2.1	3	0
	KUNMING	21	7	25	3	14	1.2	11	-3
	CHENGCHOW	11	2	24	-8	7	-1.3	30	3
	YEHCHANG	12	6	21	0	9	-2.0	92	31
	HANKOW	11	6	21	-1	8	-1.7	208	105
	CHIHKIANG	12	6	21	1	9	-2.0	186	103
	SHANGHAI	11	6	17	1	8	***	236	***
	NANCHANG	12	8	23	2	10	-1.1	389	226
	TAIPEI	21	16	30	10	19	1.6	185	11
	CANTON	19	14	26	6	16	-1.3	161	80
	NANNING	19	14	32	10	16	-1.4	25	-30
CNRY I	LAS PALMAS	22	16	26	14	19	0.9	24	14
MOROCC	CASABLANCA	19	11	23	8	15	0.4	32	-28
	MARRAKECH	22	10	28	5	16	1.1	6	-24
ALGERI	ALGER	18	8	28	3	13	-0.2	104	34
	BATNA	14	3	21	-4	9	0.0	38	-5
TUNISI	TUNIS	18	9	28	3	13	-0.1	20	-31
NIGER	NIAMEY	38	24	43	12	31	0.2	0	-3
MALI	TIMBUKTU	29	**	36	**	**	***	0	0
	BAMAKO	35	24	40	22	30	-0.6	0	-4
MAURIT	NOUAKCHOTT	33	18	37	14	26	1.2	0	-2
SENEGL	DAKAR	25	17	31	16	21	0.4	0	0
CHAG A	DIEGO GARCIA	31	26	32	19	28	0.7	121	-107
LIBYA	TRIPOLI	21	10	32	4	15	-0.1	10	-18
	BENGHAZI	18	9	25	5	14	-1.5	15	-6
EGYPT	CAIRO	22	12	30	8	17	-0.7	0	-3
	ASWAN	27	15	36	9	21	-1.3	0	0
ETHIOP	ADDIS ABABA	25	11	28	8	18	-0.2	19	-48
KENYA	NAIROBI	29	14	31	11	22	1.2	1	-72

COUNTRY	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	PRECIPITATION (MM) TOTAL	DPART F/NRM
TANZAN	DAR ES SALAAM	32	24	34	21	28	0.6	38	-96
GABON	LIBREVILLE	30	24	32	21	27	0.0	357	-49
TOGO	LOME	33	26	38	22	29	1.3	14	-56
B FASO	OUAGADOUGOU	38	24	42	22	31	-0.1	0	-6
IVRY C	ABIDJAN	31	25	33	21	28	0.6	21	-94
MOZAMB	MAPUTO	31	22	38	17	27	1.6	14	-74
ZAMBIA	KABWE	28	18	33	16	23	2.3	31	-83
ZIMBAB	HARARE	27	17	32	14	22	2.4	129	42
S AFRI	PRETORIA	29	17	34	11	23	2.9	9	-66
	KROONSTAD	29	13	35	6	21	1.1	29	-53
	JOHANNESBURG	26	12	31	4	19	1.4	25	-55
	BETHAL	26	10	32	3	18	0.2	50	-28
	DURBAN	29	21	33	15	25	1.2	41	-85
	CAPE TOWN	26	16	36	11	21	1.5	13	-2
CANADA	TORONTO	4	-6	12	-15	-1	-0.1	22	-39
	MONTREAL	-1	-10	10	-27	-5	-2.9	74	1
	WINNIPEG	0	-9	7	-17	-4	3.5	19	-4
	REGINA	6	-5	16	-13	0	7.9	7	-10
	SASKATOON	4	-5	15	-17	-1	8.0	5	-13
	LETHBRIDGE	13	-4	19	-10	4	6.0	6	-18
	CALGARY	10	-4	19	-12	3	7.0	8	-8
	EDMONTON	7	-2	16	-11	3	7.4	10	-8
	VANCOUVER	13	5	17	0	9	2.7	26	-75
MEXICO	GUADALAJARA	26	10	33	4	18	-1.4	6	0
	MEXICO CITY	26	11	30	9	19	2.7	29	21
	ACAPULCO	32	24	33	21	28	1.5	0	0
BERMUD	ST. GEORGES	21	17	23	10	19	1.3	63	-50
BAHAMA	NASSAU	27	19	31	13	23	0.7	16	-14
CUBA	HAVANA	27	20	31	17	24	0.5	33	-10
JAMAIC	KINGSTON	31	23	33	20	27	1.2	2	-17
P RICO	SAN JUAN	30	22	32	21	26	0.8	37	-18
GUADEL	RAIZET	31	21	31	19	26	1.7	24	-23
MARTNQ	LAMENTIN	30	22	32	19	26	1.8	32	-38
BARBAD	BRIDGETOWN	30	24	30	22	27	0.9	8	-30
TRINID	PORT OF SPAIN	32	22	33	18	27	1.1	11	-22
COLOMB	BOGOTA	20	9	23	4	14	0.6	32	-27
VENEZU	CARACAS	30	23	31	22	26	1.3	0	-25
F GUIA	CAYENNE	29	24	31	22	27	0.9	298	-105
BRAZIL	FORTALEZA	29	24	30	22	26	-0.6	245	-83
	RECIFE	28	24	29	22	26	-0.2	367	115
	BELO HORIZONTE	29	19	35	17	24	0.9	62	-74
	CAMPO GRANDE	30	20	32	18	25	1.2	125	-15
	FRANCA	26	18	29	17	22	0.9	173	-14
	LONDRINA	30	19	30	19	25	1.2	0	-134
	SANTA MARIA	29	19	34	13	24	1.3	114	5
PERU	LIMA	30	23	32	22	27	4.8	0	-1
BOLIVI	LA PAZ	15	3	18	-1	9	0.1	40	-37
CHILE	SANTIAGO	27	11	33	8	19	1.5	13	10
ARGENT	IGUAZU	29	20	33	17	24	***	199	**
	FORMOSA	30	21	36	16	25	0.3	211	54
	CERES	29	18	35	10	23	0.3	199	64
	CORDOBA	28	16	33	8	22	1.8	151	39
	RIO CUARTO	27	16	33	9	22	1.9	158	47
	ROSARIO	28	17	34	9	23	1.8	65	-102
	BUENOS AIRES	28	17	34	7	22	2.2	95	-4
	SANTA ROSA	27	15	34	7	21	1.9	145	60
	TRES ARROYOS	25	15	32	5	20	2.0	89	-7
N CALD	NOUMEA	29	23	32	20	26	0.7	224	106
FIJI	NAUSORI	30	24	32	20	27	0.4	307	-65
SAMOA	PAGO PAGO	30	25	31	22	28	0.4	315	31
TAHITI	PAPEETE	31	25	34	22	28	0.9	270	117
N ZEAL	AUCKLAND	21	14	24	7	17	-1.5	46	-36
PA N G	PORT MORESBY	31	24	32	22	27	0.2	80	-123
AUSTRL	DARWIN	32	25	35	23	29	0.8	162	-140
	MOREE	30	17	33	13	24	0.3	14	-35
	BRISBANE	27	20	29	17	23	-0.8	218	68
	PERTH	26	17	32	13	22	-1.1	32	17
	CEDUNA	26	14	35	7	20	0.3	7	-12
	ADELAIDE	24	15	34	8	20	-0.6	33	17
	MELBOURNE	23	14	34	7	19	0.4	25	-9
	WAGGA	28	14	31	8	21	0.3	116	76
	CANBERRA	24	12	29	8	18	0.4	53	-1
PHILIP	MANILA	33	23	35	21	28	0.7	0	-6

Based on Preliminary Reports

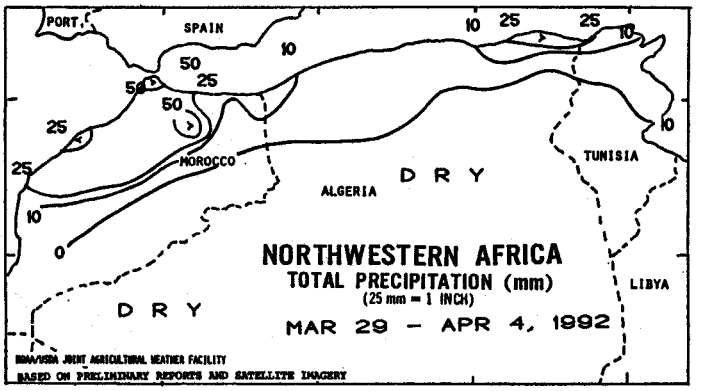


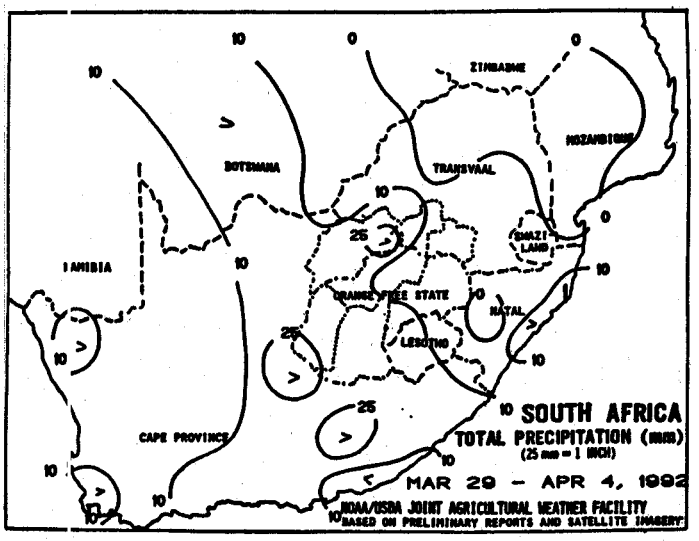
FORMER USSR: Winter grains continued to break dormancy over Ukraine and North Caucasus, helped by above-normal temperatures. Weather conditions continued to favor early spring planting in the south. Light to moderate precipitation (10-25 mm, with local amounts in excess of 30 mm) over Moldova, central Ukraine, and western North Caucasus increased topsoil moisture for spring grain emergence and vegetative winter grains. While continued dry weather since early March over the northern tip of North Caucasus, eastern Black Soils, and lower Volga has helped to dry topsoils for spring fieldwork, rain would benefit winter grains and favor spring grain emergence. Temperatures averaged 5-10 degrees Celsius (C) in Lithuania, Belorussia, the southern portion of Central Region, Black Soils Region, Ukraine, North Caucasus, and lower Volga (3-6 degrees C above normal).



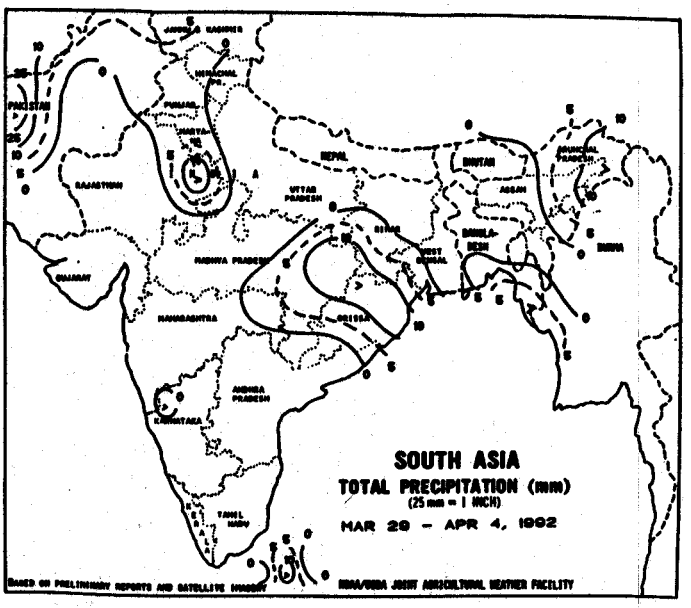
EUROPE: The weather pattern changed significantly, with previously dry areas of western and southern Europe benefiting from widespread rainfall. Locally heavy rain (50-130 mm) soaked Portugal and western Spain, while 25-50 mm amounts moistened soils from central France to Italy's Po Valley. Frequent light showers produced 10-25 mm of rainfall in southern England, northern and southeastern France, and most of eastern Spain except along the southeast coast. The moisture was extremely beneficial for winter grains, although irreversible drought damage likely occurred to Spain's winter grains already into reproductive phases before the substantial rainfall. Moisture supplies for spring-sown crops and pastures improved. Variable showers covered much of northern Europe, maintaining favorable growing conditions in Germany and Poland. Rainfall diminished in the east, with less than 10 mm from western Poland to Bulgaria. Rain is needed in the southeast with recent warmer-than-normal weather drying topsoils.

NORTHWESTERN AFRICA: Widespread, significant rain (25-42 mm) continued over winter grains in northern Morocco, and extended into drought-stricken crop areas in southern Morocco (10-25 mm). Following last week's beneficial rain, lesser amounts of moisture (3-25 mm) fell over reproductive to filling winter grains in Algeria. In Tunisia, the third consecutive week of insufficient precipitation (4-7 mm) covered winter grains, limiting yield prospects. Average temperatures were 1-2 degrees C below normal over most of the region.

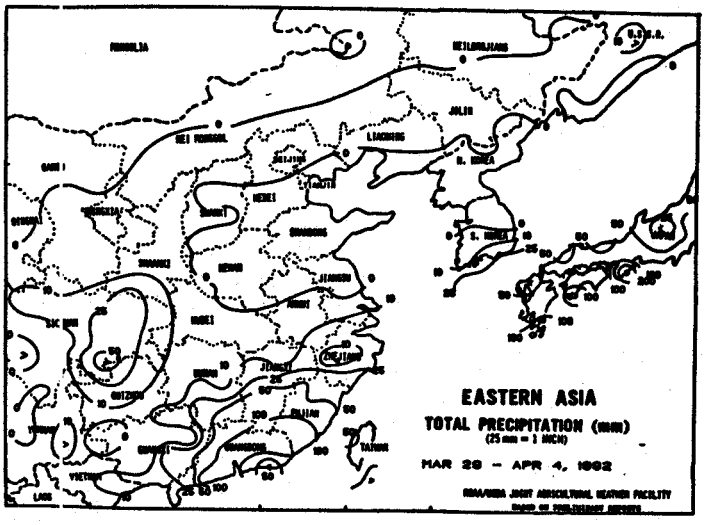




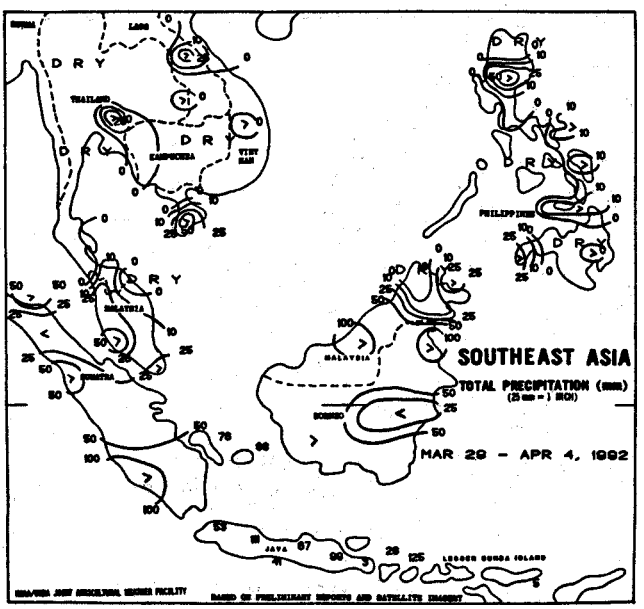
SOUTH AFRICA: Light to moderate rain (5-36 mm) swept across the region, coming too late for summer crops, but improving topsoil moisture for winter wheat planting in portions of the Cape Province and westernmost areas of the Orange Free State and Transvaal. More rain is needed in wheat regions of eastern Transvaal and eastern Orange Free State for planting. Temperatures averaged near to above normal (highs 28-32 degrees C) across the corn belt, favoring summer crop maturation.



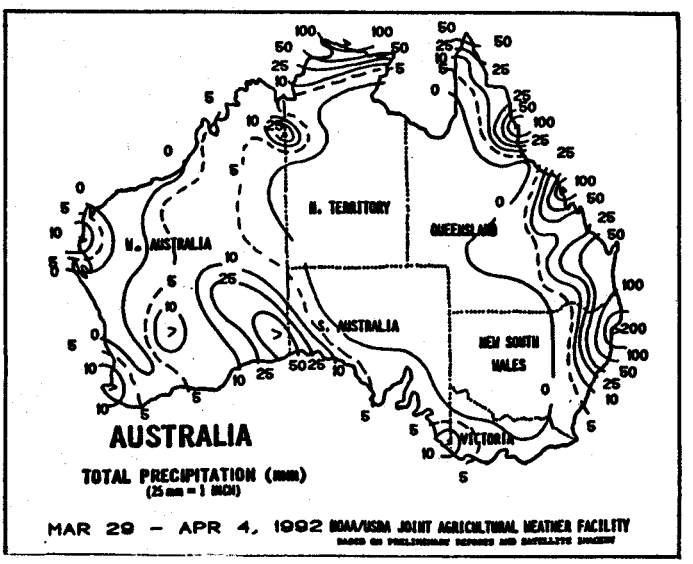
SOUTH ASIA: Rainfall was light (1-4 mm) over Pakistan's winter wheat regions, allowing fields to dry following last week's unseasonable wetness. Showers over India were widely scattered, but moderate rain (5-19 mm) was concentrated over rice areas of eastern Madhya Pradesh and Orissa. Seasonable temperatures across winter grain and oilseed regions favored crop maturation and early harvests, but further south, unfavorably hot conditions persisted for livestock in southern and central areas.



EASTERN ASIA: Dry conditions continued, along with higher temperatures, across North China Plain, depleting soil moisture for developing winter wheat. The northern wheat areas (Hebei, northern Henan, and Shandong) need significant rain the next few weeks to prevent further stress and reduced yield potential. Moderate to heavy rain (50-114 mm) covered south-central China (southern Jiangxi, Fujian, and Guangdong), exacerbating flooded conditions. Temperatures averaged 2-6 degrees C above normal across the North China Plain and 2-3 degrees C below normal across southern China.

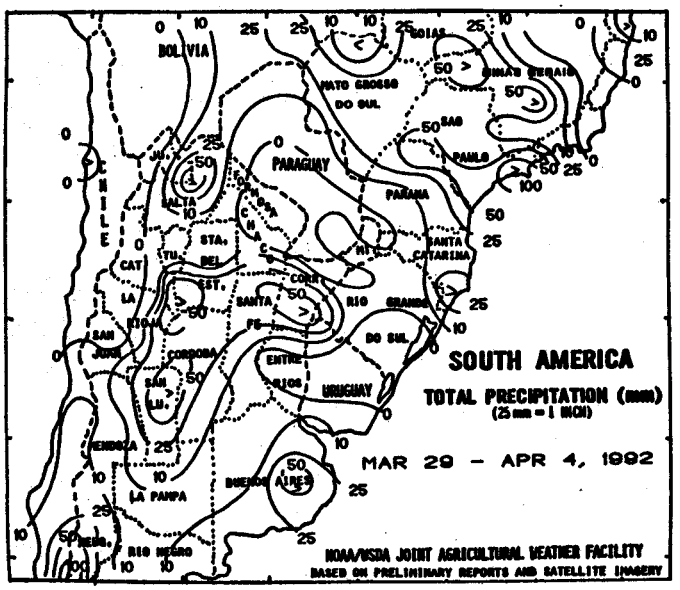


SOUTHEAST ASIA: Widespread, moderate to heavy rain (25-100 mm or more) returned to Indonesia and Malaysia, including oil palm regions of western Malaysia that had been tending dry. The rains failed to extend northward to peninsular Thailand, and showers elsewhere in Indochina were widely scattered. Unseasonably hot weather (highs of 38-42 degrees C) persisted in Thailand, maintaining high evaporative losses. The recent hot weather outbreak in Thailand necessitates a timely startup to the rainy season before grain planting can commence in late April. In the Philippines, rainfall continued unfavorably light (25 mm or less) in rice areas of the eastern islands.



AUSTRALIA: The eastern summer crop region received light to moderate rain, causing some harvesting delays. Scattered moderate to heavy rains (74-203 mm) fell across coastal areas of Queensland and New South Wales, aiding sugarcane, but causing isolated flooding. Temperatures averaged 2-4 degrees C above normal across the major eastern crop areas.

SOUTH AMERICA: Drier conditions prevailed across Argentina's main crop areas, northern Buenos Aires and southern Santa Fe, aiding mature corn and soybeans and early harvesting. However, moderate to heavy showers (20-79 mm) fell in northern Santa Fe and northern Cordoba, delaying sorghum harvesting. The northern cotton areas received light rain (less than 10 mm), slightly delaying harvesting. In southern Brazil, only light rain fell across Rio Grande do Sul, causing only minor harvest delays after previously wet conditions. Moderate showers (33-57 mm) covered Mato Grosso do Sul, northern Parana, Sao Paulo, and western Minas Gerais, delaying soybean, corn, and cotton harvesting. Temperatures averaged 1-2 degrees C above normal across southern Brazil and central Argentina.



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(Continued from front cover)
On Thursday, **Holly Springs, MS**, dipped to 27°F. **Gilbert, AR**, followed a Thursday reading of 20°F with a 19°F mark on Friday. **Athens, GA**, and **Huntsville, AL**, sagged to 26°F on Friday. **Raleigh-Durham, NC**, stood at 25°F. In contrast, warmth surged northward through the **Plains** and the **Northwest**, setting 3 dozen daily record highs. Temperatures soared to 76°F in **Seattle, WA**, 81°F in **Glasgow, MT**, and 82°F in **Rapid City, SD**. Thunderstorms drenched **southern Texas** on Wednesday and Thursday. Rainfall reached 3 inches near **Corpus Christi**. At week's end, a weak storm produced a narrow band of snow from the **Dakotas** to the **central Appalachians**. **Christiansburg, VA**, received 7 inches.

(Continued from p. 9)
progressed well in the western half of the Nation, and small grains made excellent growth in California, where many fields were heading. Corn planting was delayed by the rains in much of the Southeast, while progress was better in the South Central States. Sorghum planting increased in Texas. Cotton planting was underway in Arizona, California, and Texas, and rice planting was underway in Louisiana and Texas.

Persistent mild, dry weather in the Northwest, northern Rocky Mountains, and northern Great Plains was heightening concerns over soil moisture supplies toward the end of March. Rainfall and below-normal temperatures across much of the Southeast, meanwhile, continued to slow fieldwork and caused some limited freeze damage to field crops. Some barley and oats were lodged by heavy rains in California. Spring wheat, barley, and oats seeding was continuing in the West and becoming more common in the Central States. Corn planting was progressing between rains in the Southeast, and grain sorghum planting remained in full swing in southern Texas and the Rio Grande Valley. Cotton planting was delayed by rains in California and Arizona but was progressing well in southern Texas. Rice planting was gaining momentum in Texas' Upper Coast region and continued in southern Louisiana. Potato planting was underway in Oregon and Washington, and was nearing completion along the central Atlantic coast. Sugarbeets were being planted in Idaho and Wyoming.

Winter Wheat: Winter wheat fields were beginning to green from the Pacific Northwest through the Ohio Valley entering March, ahead of normal for most regions. Some wheat was beginning to head in the southernmost States, and nitrogen topdressing was nearing completion in the Southeast. Some freeze damage occurred to winter wheat in Kansas during the second week of the month, with damage more significant in the southern region, where the crop was jointing. At mid-month, thin stands were a concern to some producers in Illinois, Indiana, Ohio, and Missouri, as freeze damage from early in the winter and the effects of periodic freezing and thawing became more apparent. Condition remained mostly good elsewhere. Above-normal temperatures continued in the West during late March, promoting further greening of fall-seeded wheat. Heading continued to advance in parts of the Southeast despite below-normal temperatures, and crop condition benefited from rains across the eastern half of the Nation. Some low-lying wheat in California, however, was yellowing due to excessive moisture. Most areas still reported winter wheat in good condition at the end of the month.

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