

# WEEKLY WEATHER AND CROP BULLETIN

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

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

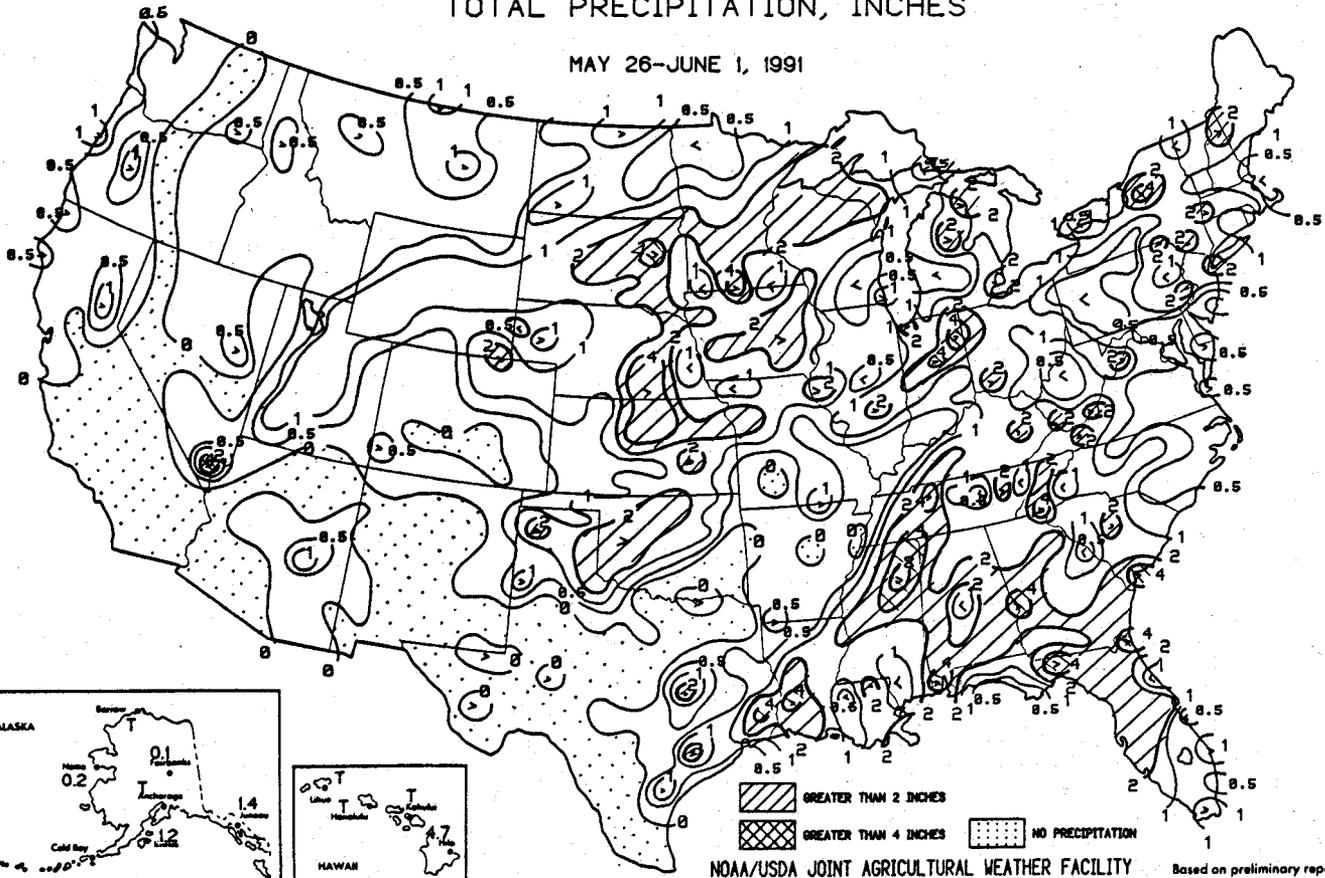
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June 4, 1991

## TOTAL PRECIPITATION, INCHES

MAY 26-JUNE 1, 1991



## HIGHLIGHTS

May 26 - June 1, 1991

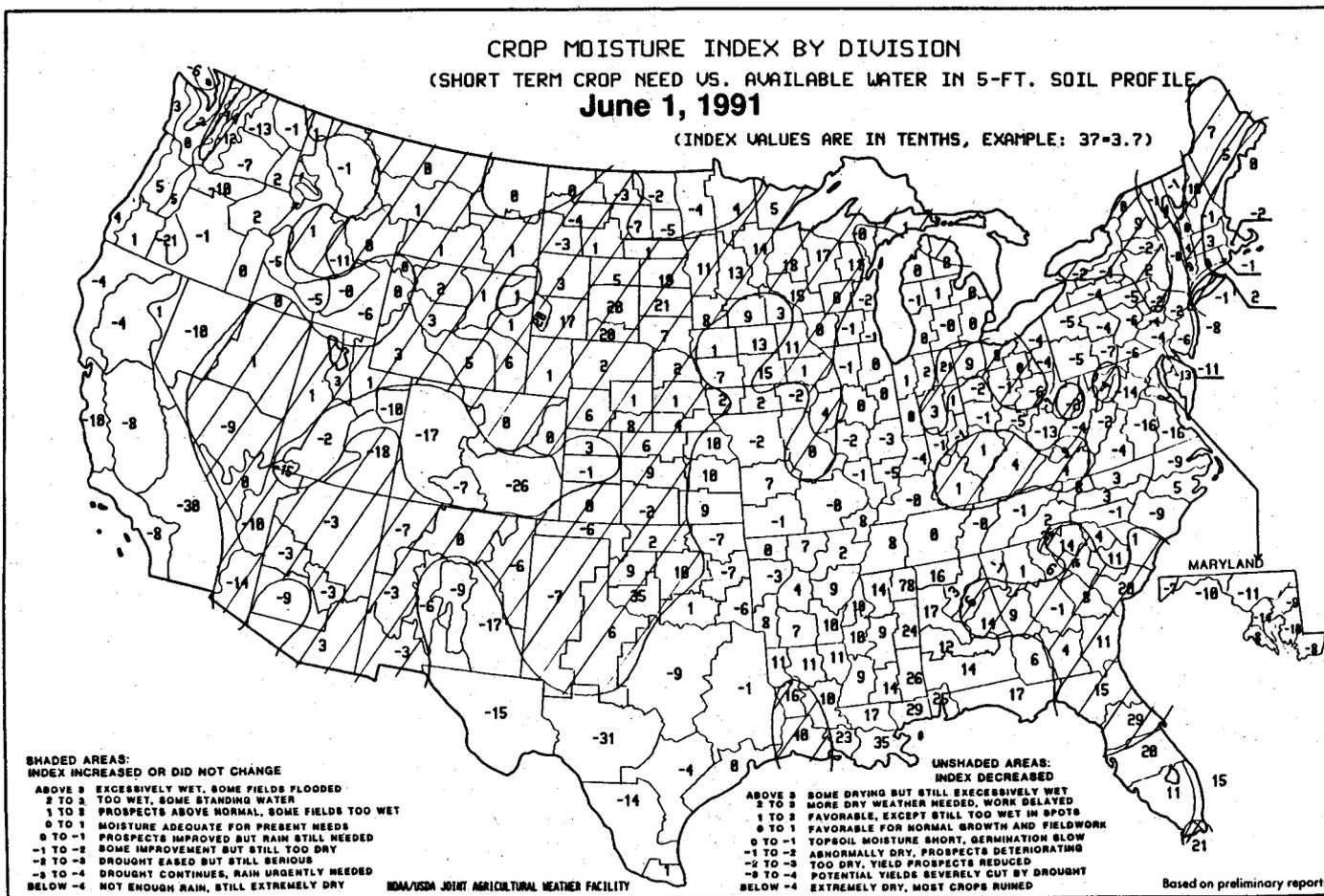
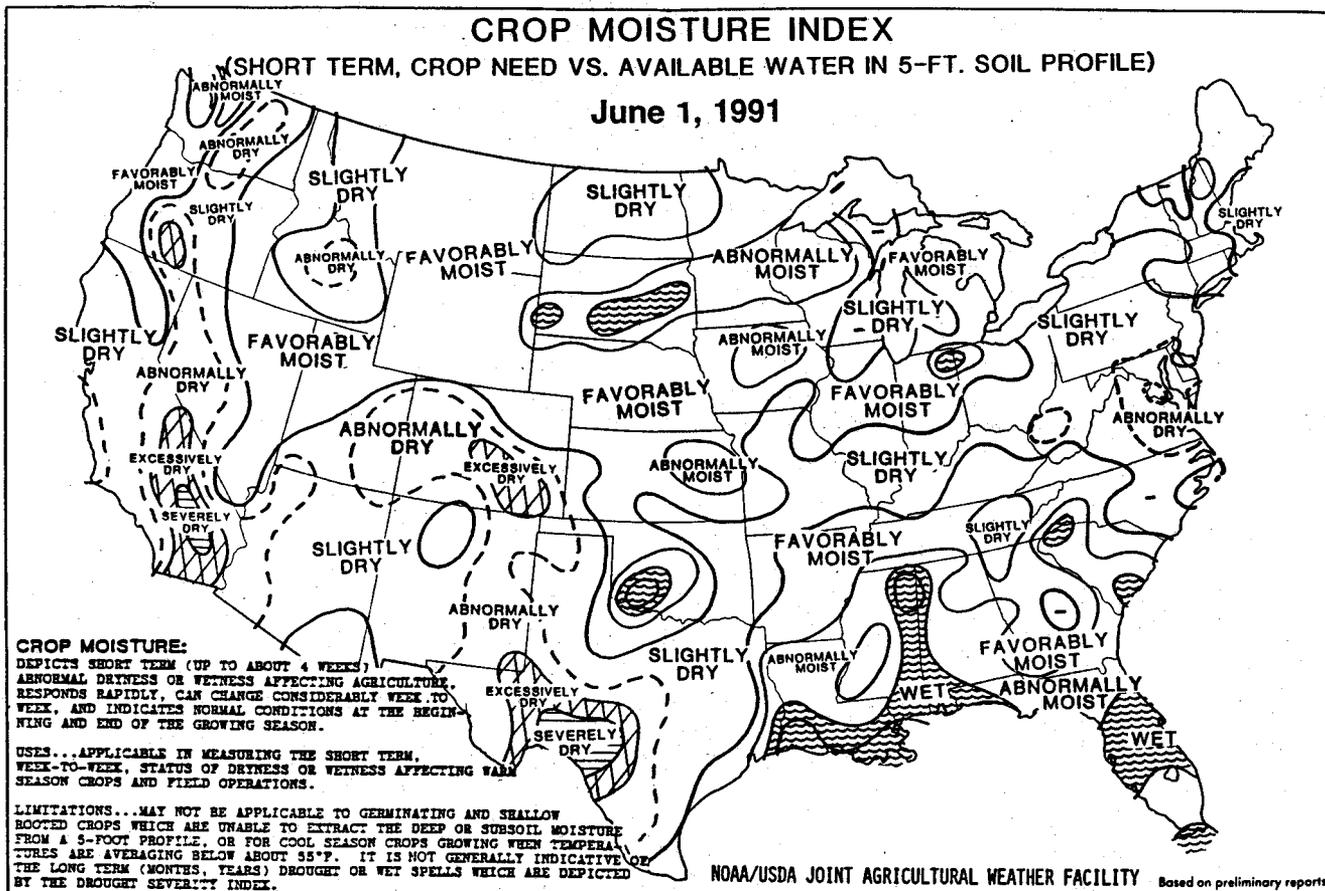
Nearly 70 daily record highs were topped in the **East** as a high pressure ridge perched near the **Carolina coast**. In addition to heat, the ridge provided subtropical moisture, inducing thunderstorms in every State **east of the Rockies**. The primary storm track was displaced westward and stretched from the **northern and central Rockies** to the **Great Lakes**. Early week thunderstorms blossomed in the **Southeast**, and from the **central and northern Plains** to **New England**. Localized flooding occurred in **Iowa, Kansas, and Mississippi**. Temperatures soared into the lower nineties as far north as **Boston, MA**. In contrast, temperatures in the **West** dipped below freezing as far south as **central Nevada**. At midweek, showers and thunderstorms peppered all of the **northern tier States**, while locally heavy rain fell in the **Great Basin, the central Plains, and the Southeast**. Oppressive heat gripped the **mid-Atlantic region**. **Philadelphia, PA, and Washington, DC,** were among the cities posting alltime

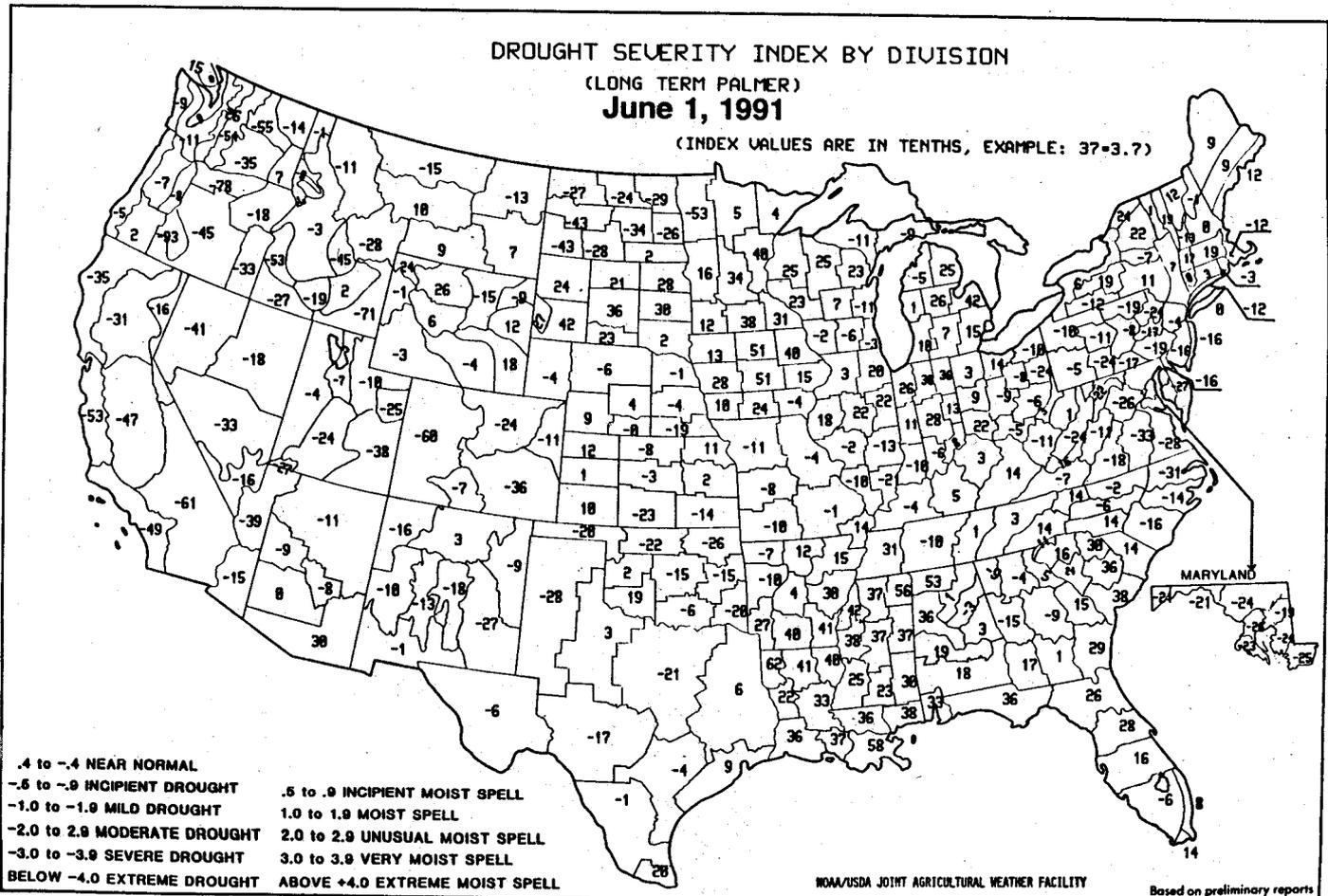
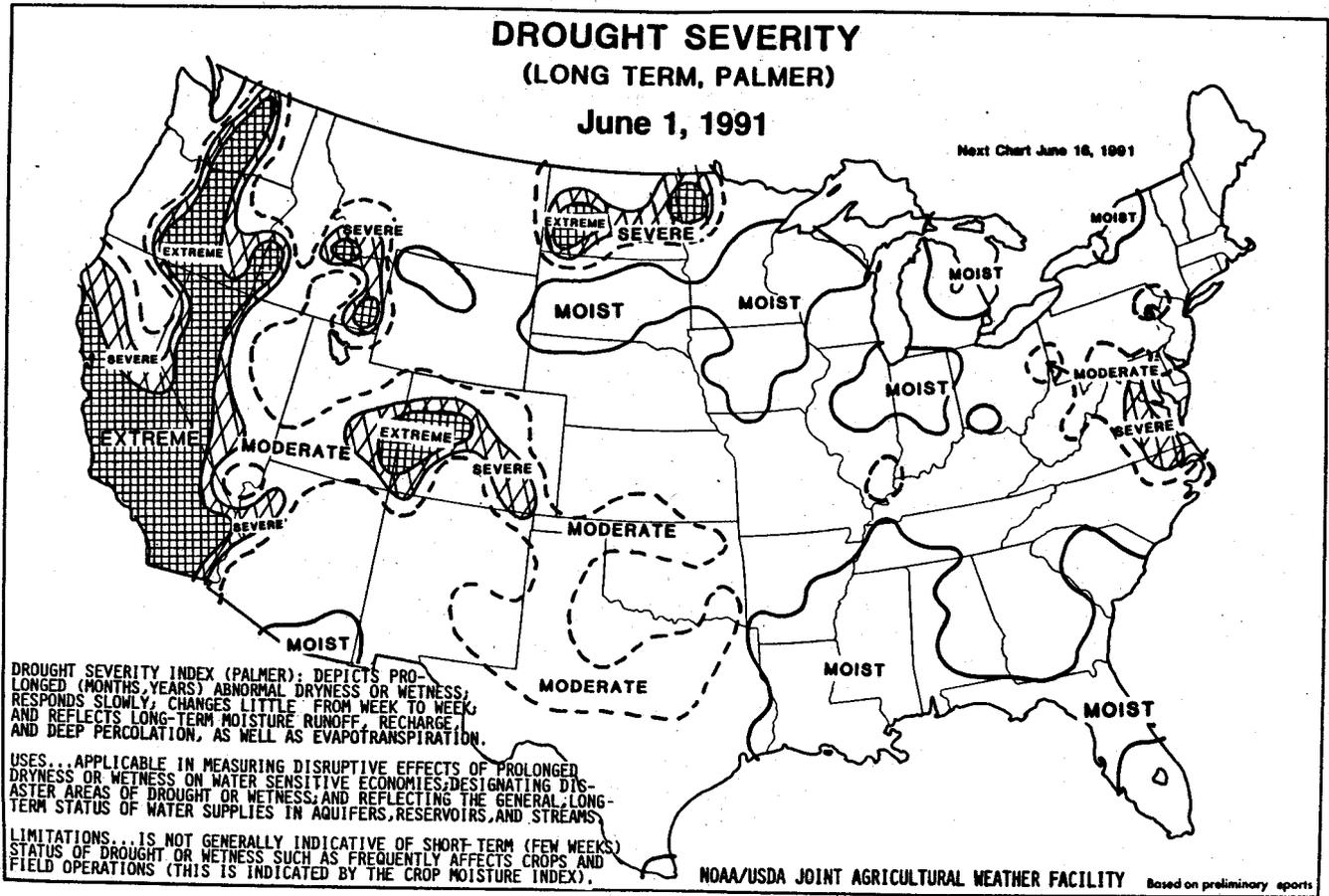
record highs for May. **Norfolk, VA,** recorded its earliest ever 100° F reading. Toward week's end, heavy thunderstorms caused considerable flash flooding from **Wyoming** eastward to **Iowa,** and southward into **Oklahoma**. Convection dotted the **Southeast**. A more seasonable airmass brought relief to the **Northeast,** and temperatures moderated in the **West**.

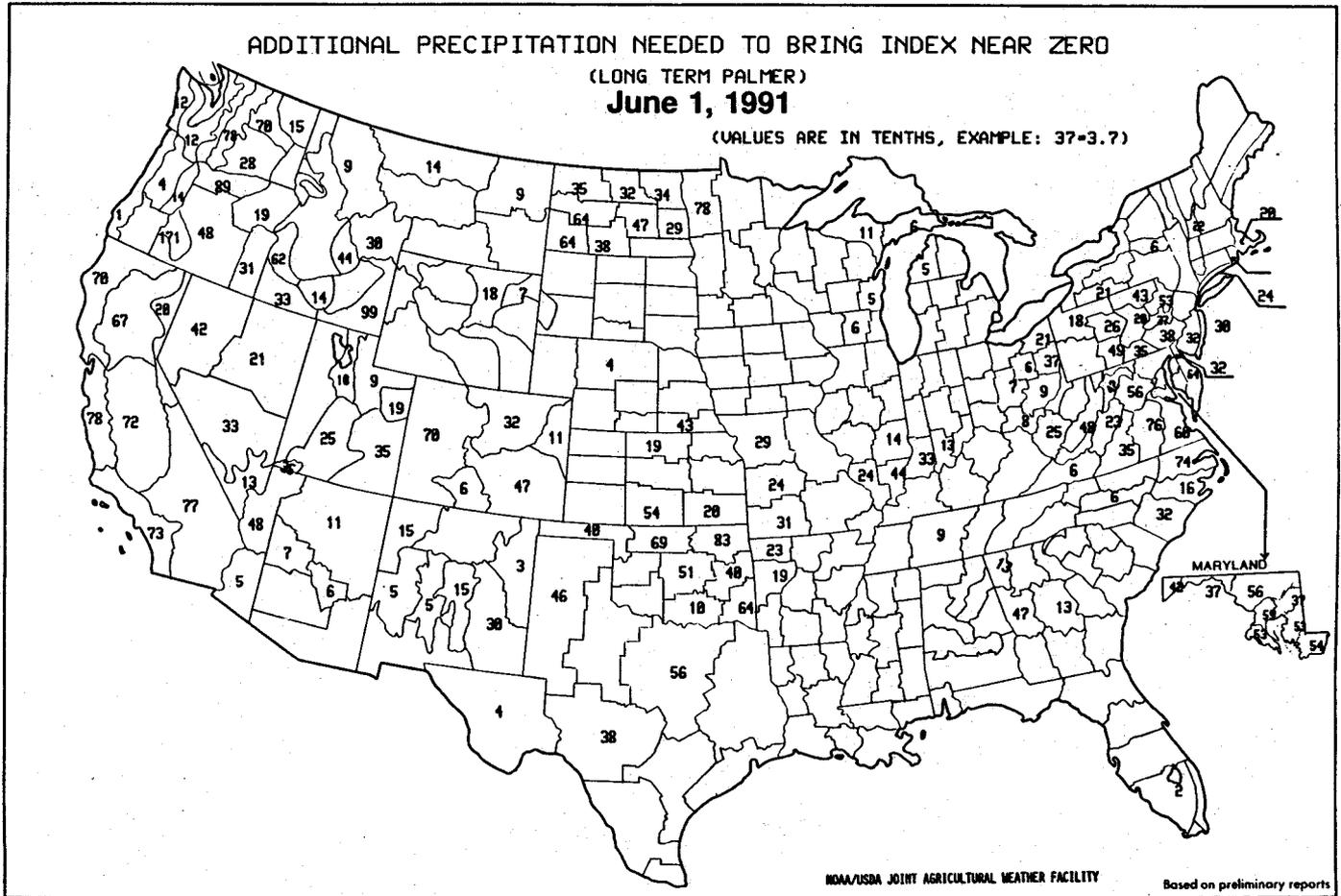
## Contents

Page

Highlights & Total Precipitation .....	1
Crop Moisture Maps .....	2
Drought Severity Maps .....	3
Precipitation Needed to End Drought & Temperature Departure Maps .....	4
Extreme Maximum & Minimum Temperature Maps ...	5
Total Growing Degree Days & Departure Maps ...	6
National Weather Data for Selected Cities ....	7
National Agricultural Summary .....	10
Crop Progress and Condition Tables .....	11
State Summaries of Weather and Agriculture ...	13
International Weather and Crop Summary & May Temperature/Precipitation Table .....	20
Subscription and Mailing Permit Information ..	24

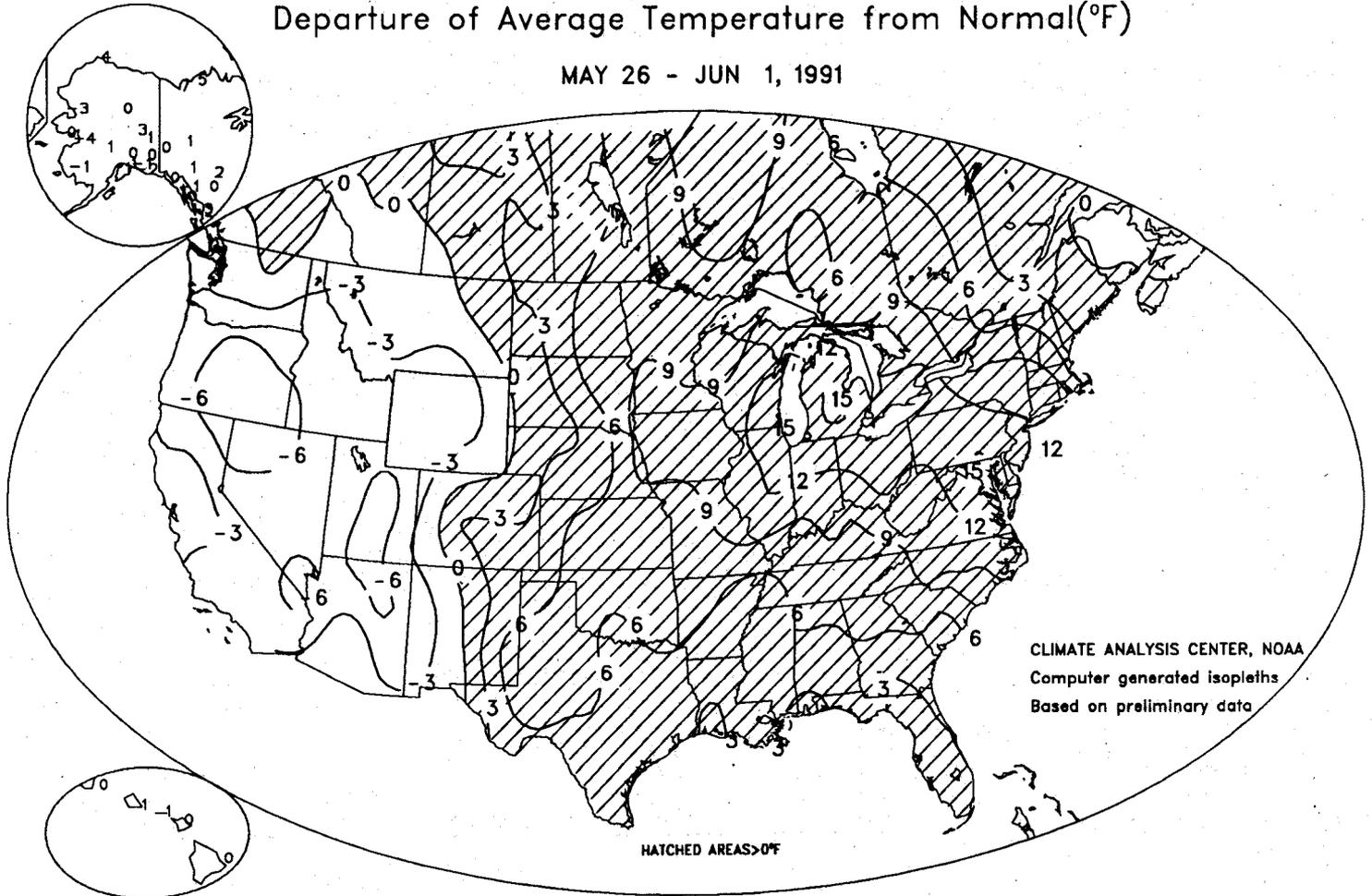






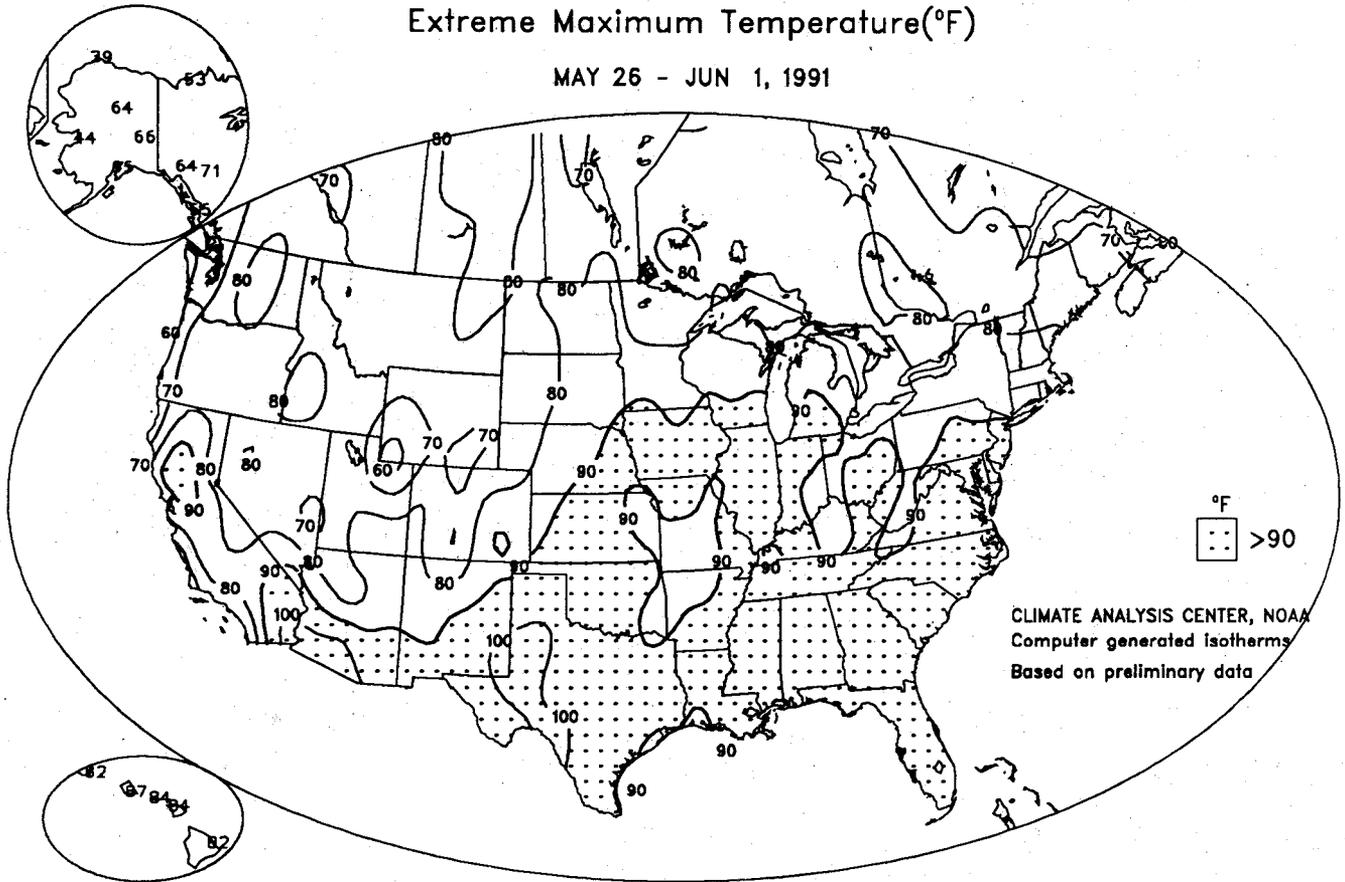
**Departure of Average Temperature from Normal(°F)**

MAY 26 - JUN 1, 1991



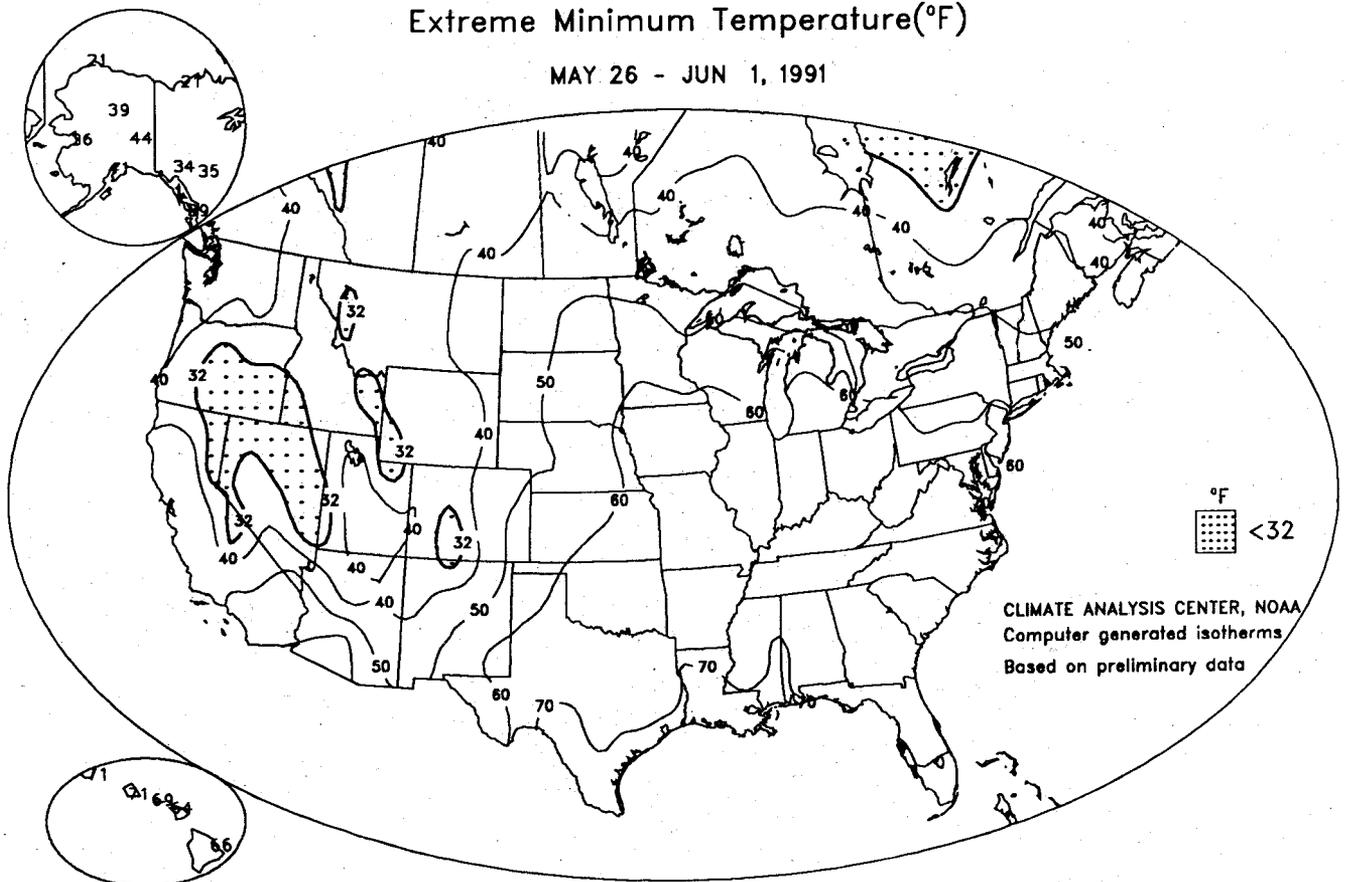
### Extreme Maximum Temperature(°F)

MAY 26 - JUN 1, 1991

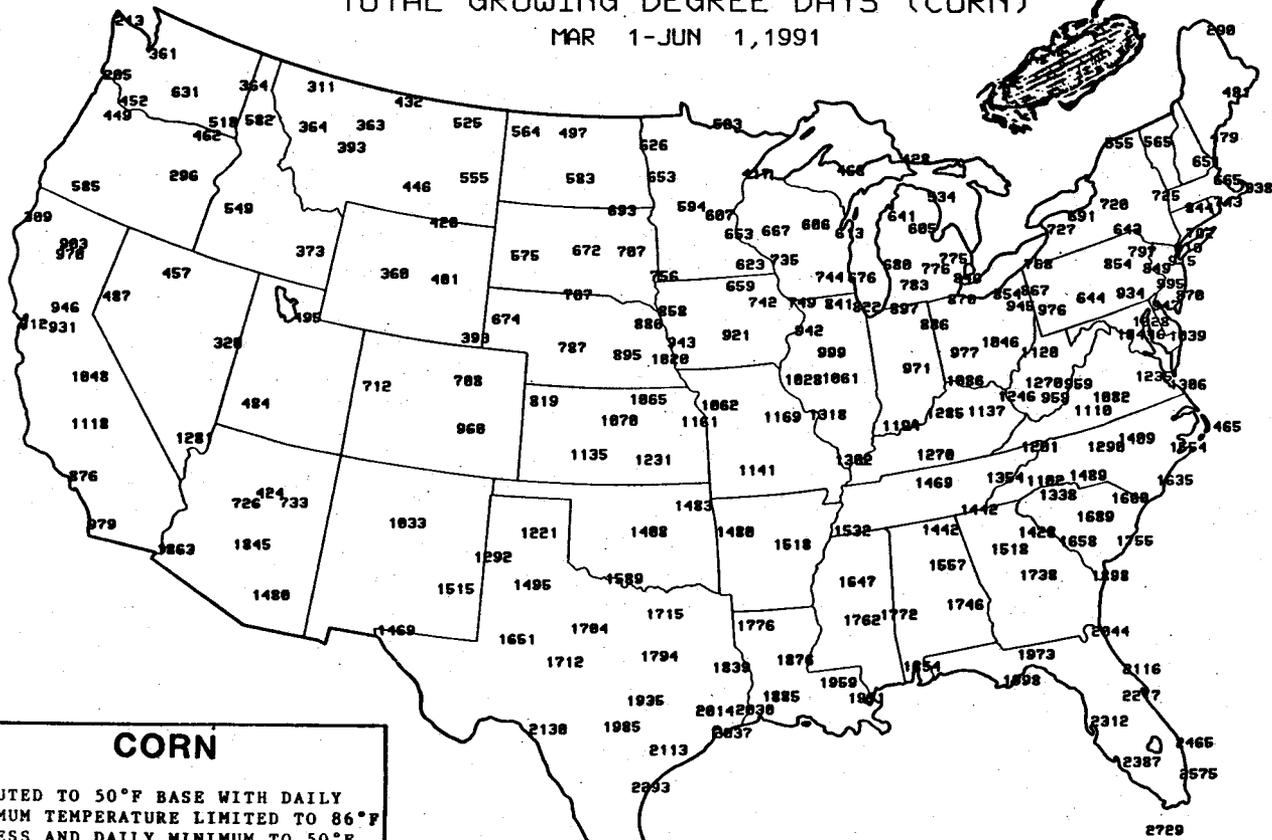


### Extreme Minimum Temperature(°F)

MAY 26 - JUN 1, 1991



TOTAL GROWING DEGREE DAYS (CORN)  
MAR 1-JUN 1, 1991

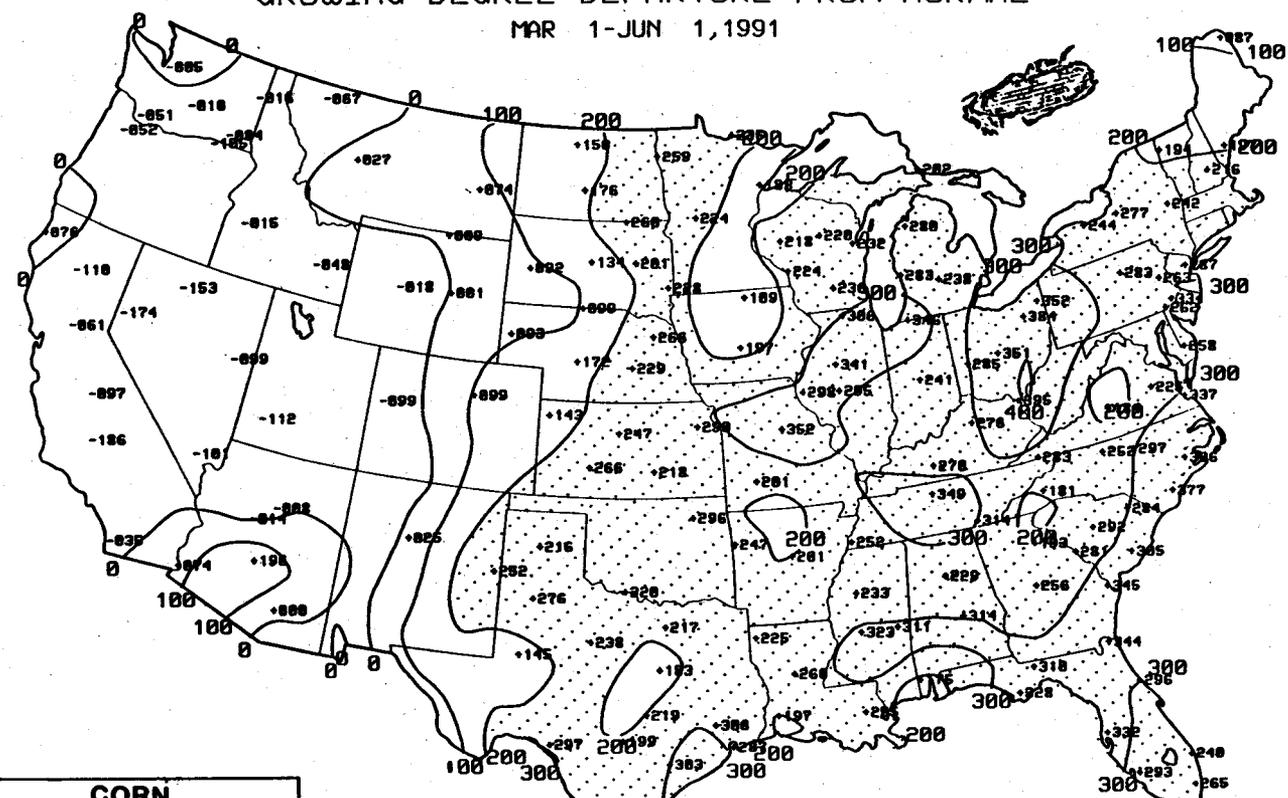


**CORN**

COMPUTED TO 50°F BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86°F OR LESS AND DAILY MINIMUM TO 50°F OR MORE.

NOAA/USDA AGRICULTURAL WEATHER FACILITY Based on preliminary reports

GROWING DEGREE DEPARTURE FROM NORMAL  
MAR 1-JUN 1, 1991



**CORN**

COMPUTED TO 50°F BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86°F OR LESS AND DAILY MINIMUM TO 50°F OR MORE.

300 HATCHED AREAS ABOVE 200 HDDs  
300

NOAA/USDA AGRICULTURAL WEATHER FACILITY Based on preliminary reports

# National Weather Data for Selected Cities

## Weather Data for the Week Ending June 1, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	87	70	91	67	79	5	3.7	2.8	2.3	.1	117	26.3	101	96	60	3	0	4	2		
MOBILE	86	73	90	69	79	2	4.2	3.0	3.3	.0	0	49.7	185	97	65	1	0	3	2		
MONTGOMERY	90	71	93	70	81	5	2.4	1.6	1.5	.0	0	37.7	164	97	57	5	0	0	0		
AK ANCHORAGE	54	43	58	41	49	-2	T	.1	T	T	0	2.0	59	87	56	0	0	2	0		
BARROW	35	28	39	22	31	5	T	.0	T	T	0	.4	50	94	75	0	7	1	0		
FAIRBANKS	66	48	68	42	57	3	1.1	.1	.1	.1	200	3.7	168	75	33	0	0	2	0		
JUNEAU	52	45	56	41	48	-1	1.4	.7	.7	.7	0	24.2	142	97	69	0	0	5	1		
KODIAK	51	41	57	37	46	0	1.2	.0	.5	.5	0	39.2	165	93	68	0	0	0	0		
NOME	47	35	51	34	41	0	.2	.0	.1	.1	100	3.1	104	90	62	0	0	3	0		
AZ PHOENIX	93	70	101	67	81	0	T	.0	T	T	0	3.2	131	28	12	5	0	0	0		
PRESCOTT	71	46	79	40	58	-3	.2	.1	.2	.2	>1000	6.3	105	56	24	0	0	1	0		
TUCSON	91	59	98	53	75	-3	T	.0	T	T	>1000	3.5	137	35	10	5	0	1	0		
YUMA	95	66	102	60	81	-1	.0	.0	.0	.0	0	1.8	203	34	15	6	0	0	0		
AR FORT SMITH	90	70	91	66	80	7	.0	-1.0	.0	.0	0	17.8	103	94	54	5	0	0	0		
LITTLE ROCK	88	71	90	69	80	6	T	-1.1	T	T	0	25.4	109	90	61	1	0	0	0		
CA BAKERSFIELD	85	56	93	50	70	-4	.0	.0	.0	.0	0	4.6	120	50	17	1	0	0	0		
EUREKA	56	47	59	45	52	-2	.4	.1	.3	.0	0	16.0	74	90	69	0	0	2	0		
FRESNO	84	54	92	48	69	-2	.0	.0	.0	.0	0	8.5	122	67	18	1	0	0	0		
LOS ANGELES	66	55	69	51	60	-4	T	.0	T	T	0	7.9	95	85	62	0	0	0	0		
REDDING	83	56	94	49	69	-3	.1	-1.1	.1	.1	0	17.2	72	59	17	1	0	1	0		
SACRAMENTO	84	52	96	48	68	0	T	.0	T	T	0	10.2	97	80	22	1	0	0	0		
SAN DIEGO	65	57	67	56	61	-3	T	.0	T	T	0	10.5	163	79	60	0	0	1	0		
SAN FRANCISCO	67	50	84	47	58	-1	T	.0	T	T	0	10.9	89	88	51	0	0	1	0		
CO DENVER	77	51	83	48	64	2	1.3	.8	.8	.8	>1000	6.8	102	91	36	0	0	5	1		
GRAND JUNCTION	78	51	85	44	65	-2	T	-1.1	T	T	100	2.9	86	48	15	0	0	1	0		
PUEBLO	88	51	93	46	70	4	T	-3	T	T	0	2.4	65	76	16	3	0	0	0		
CT BRIDGEPORT	81	65	90	58	73	11	1.1	.4	.5	.0	0	15.7	91	92	55	1	0	4	0		
HARTFORD	87	64	90	60	75	12	.9	.2	.8	.0	0	17.5	95	95	42	1	0	2	1		
DC WASHINGTON	95	75	99	74	85	15	.6	-2	.4	.4	382	11.6	76	87	47	7	0	4	0		
FL APALACHICOLA	88	74	93	71	81	4	.1	-6	.1	.0	0	56.0	319	97	60	3	0	2	0		
DAYTONA BEACH	90	71	93	67	80	3	.9	-2	.3	.3	74	24.5	172	99	58	3	0	5	0		
JACKSONVILLE	92	72	95	67	82	4	4.2	3.1	3.4	.0	0	34.7	200	95	57	7	0	3	2		
KEY WEST	88	77	90	75	82	1	.9	-1	.5	.0	0	15.0	151	82	59	1	0	2	1		
MIAMI	89	76	93	73	83	3	.1	-1.8	.0	.0	0	13.6	85	82	53	3	0	2	0		
ORLANDO	90	71	93	68	81	1	3.1	2.0	1.3	T	16	27.2	185	96	59	5	0	5	3		
TALLAHASSEE	89	70	94	66	80	3	6.1	4.8	5.1	.0	0	48.1	195	97	58	3	0	3	2		
TAMPA	90	73	92	69	81	2	3.5	2.6	3.1	T	0	16.0	115	95	60	4	0	3	1		
WEST PALM BEACH	88	74	92	72	81	1	1.2	-5	.5	.0	0	36.6	210	93	60	1	0	5	1		
GA ATLANTA	88	71	92	68	79	7	1.9	1.1	1.0	1.0	864	28.3	119	94	59	4	0	4	1		
AUGUSTA	93	69	95	65	81	7	.4	-5	.1	.1	117	27.1	135	97	54	7	0	4	0		
MACON	91	71	94	68	81	5	1.2	.3	.6	.6	483	30.0	141	96	56	4	0	3	1		
SAVANNAH	90	72	92	69	81	5	3.6	2.4	2.7	.5	294	32.9	182	97	63	5	0	5	2		
HI HILO	80	68	82	67	74	0	4.7	3.0	1.3	.4	200	70.6	119	94	71	0	0	7	4		
HONOLULU	86	72	87	71	79	1	T	.2	T	.0	0	10.5	84	77	47	0	0	1	0		
KAHULUI	84	68	85	64	76	0	T	.1	T	.0	0	7.7	69	84	51	0	0	0	0		
LIHUE	81	72	82	71	77	1	T	.5	T	.0	0	15.5	75	82	62	0	0	1	0		
ID BOISE	71	40	82	32	56	-5	.3	.1	.2	.0	0	5.2	86	81	28	0	1	2	0		
LEWISTON	70	44	81	41	57	-4	.5	.1	.2	.0	0	6.1	103	89	36	0	0	3	0		
POCATELLO	67	39	77	32	53	-4	.2	-1	.1	.0	0	8.8	168	78	28	0	1	4	0		
IL CHICAGO	87	67	91	62	77	14	.6	-2	.4	.4	308	15.2	121	96	58	1	0	3	0		
MOLINE	88	67	93	65	77	12	.9	-1	.5	.5	0	15.5	112	95	53	2	0	4	0		
PEORIA	87	67	91	65	77	11	.6	-3	.4	.0	0	14.3	105	98	59	2	0	3	0		
QUINCY	85	68	88	66	76	9	3.6	2.6	2.1	.0	0	18.0	126	86	60	0	0	2	2		
ROCKFORD	88	66	93	62	77	13	.4	-5	.2	T	0	11.2	85	95	53	1	0	2	0		
SPRINGFIELD	87	67	92	65	77	10	.5	-3	.3	.0	0	14.0	101	99	60	2	0	4	0		
IN EVANSVILLE	87	69	90	64	78	9	.3	-7	.3	T	8	16.0	83	96	64	1	0	2	0		
FORT WAYNE	87	68	90	66	77	13	5.9	5.1	4.4	.0	0	19.8	140	97	62	1	0	4	2		
INDIANAPOLIS	85	68	89	64	76	9	.3	-5	.2	.0	0	18.9	118	98	64	0	0	3	0		
SOUTH BEND	88	69	91	65	79	15	.9	.2	.5	.0	0	14.8	103	94	57	3	0	3	1		
IA DES MOINES	85	67	90	64	76	10	2.1	1.2	1.0	.3	167	20.7	179	92	61	1	0	4	2		
SIoux CITY	85	64	94	62	75	9	1.0	.1	.5	.5	408	10.7	118	96	52	1	0	5	1		
WATERLOO	83	64	91	62	74	10	3.2	2.3	1.8	.5	336	21.8	186	99	62	1	0	5	2		
KS CONCORDIA	87	64	90	54	75	7	4.4	3.4	2.9	2.9	>1000	10.8	111	93	55	2	0	4	2		
DODGE CITY	90	65	97	58	78	9	.7	-1	.5	.2	136	4.7	62	82	37	5	0	2	1		
GOODLAND	81	56	86	54	68	5	1.5	.8	.7	.1	120	6.5	110	94	48	0	0	3	2		
TOPEKA	86	66	90	60	76	8	2.3	1.2	.8	.1	47	14.6	128	93	62	1	0	5	2		
WICHITA	89	68	94	64	79	8	.9	.0	.3	.3	223	8.0	80	89	52	4	0	4	0		
KY BOWLING GREEN	85	70	92	68	78	8	3.3	2.4	2.4	.5	307	23.8	106	98	67	1	0	4	1		
LEXINGTON	84	69	88	65	77	9	1.5	.5	.6	.5	357	19.4	97	95	65	0	0	4	2		
LOUISVILLE	88	73	91	69	81	11	.4	-5	.4	T	0	18.5	94	92	59	3	0	2	0		
LA ALEXANDRIA	88	73	91	72	80	3	1.9	.8	1.6	.0	0	47.1	189	96	57	3	0	3	1		
BATON ROUGE	91	72	93	71	82	4	.5	-4	.3	.0	0	40.6	165	100	55	6	0	4	0		
LAKE CHARLES	86	73	89	71	80	2	3.2	2.0	3.0	.0	0	40.7	197	98	68	0	0	2	1		
NEW ORLEANS	89	73	91	71	81	4	1.6	.5	.9	.0	0	60.5	247	97	64	1	0	4	1		

Based on 1951-80 normals

Weather Data for the Week Ending June 1, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	90	71	93	70	80	4	.2	-.8	.2	.0	0	48.3	232	97	60	5	0	3	4	0	1	
ME CARIBOU	62	48	71	41	55	0	1.4	1.1	1.1	.7	20	14.1	113	91	60	0	0	0	0	0	0	
PORTLAND	70	52	83	50	61	4	1.6	1.1	1.1	.5	42	21.4	116	92	57	0	0	0	0	0	0	
MD BALTIMORE	94	71	98	69	83	15	4.2	1.1	1.1	.8	12	12.9	78	98	41	7	0	0	0	0	0	
GALISBURY	92	69	95	65	81	14	3.9	1.1	1.1	.2	136	17.8	102	98	48	7	0	0	0	0	0	
MA BOSTON	77	58	91	55	67	4	2.2	1.1	1.1	.7	0	14.9	78	94	58	0	0	0	0	0	0	
CHATHAM	69	56	76	51	63	6	1.6	1.1	1.1	.4	0	15.3	76	94	77	0	0	0	0	0	0	
MI ALPENA	80	58	85	53	69	13	3.7	3.0	1.4	.2	0	13.3	129	99	57	0	0	0	0	0	0	
DETROIT	86	69	90	66	77	15	2.3	1.7	1.4	.0	0	12.7	105	92	60	0	0	0	0	0	0	
FLINT	86	67	89	62	76	15	.8	.1	.6	.6	0	12.3	112	91	60	0	0	0	0	0	0	
GRAND RAPIDS	85	68	90	65	77	14	.3	-.4	.2	.4	18	15.6	124	95	58	0	0	0	0	0	0	
HOUGHTON LAKE	82	63	86	60	73	15	2.7	2.0	1.8	.0	0	14.6	147	89	57	0	0	0	0	0	0	
LANSING	86	67	90	64	77	16	1.1	-.5	.1	.1	0	12.0	112	98	61	0	0	0	0	0	0	
MARQUETTE	76	54	83	49	65	10	1.2	-.3	.6	.0	0	12.6	87	95	64	0	0	0	0	0	0	
MUSKOGON	82	64	86	62	73	13	.4	-.2	.3	.0	0	13.6	111	97	64	0	0	0	0	0	0	
SAULT ST. MARIE	74	51	79	46	63	9	.5	-.2	.3	.0	0	10.8	97	96	58	0	0	0	0	0	0	
MN ALEXANDRIA	78	61	80	59	69	9	1.6	.8	.8	.1	62	9.9	124	95	60	0	0	0	0	0	0	
DULUTH	69	52	76	45	61	6	3.7	2.9	1.5	.5	0	12.3	133	98	66	0	0	0	0	0	0	
INT'L FALLS	75	52	80	46	64	8	.6	-.1	.4	.2	164	9.6	142	96	51	0	0	0	0	0	0	
MINNEAPOLIS	80	63	84	59	71	9	2.2	1.3	1.0	.0	15	13.8	159	96	60	0	0	0	0	0	0	
ROCHESTER	81	64	87	59	73	11	.8	-.1	.3	.2	133	13.2	142	97	66	0	0	0	0	0	0	
MS GREENWOOD	86	71	91	68	79	3	2.4	1.5	2.0	.0	0	39.2	148	97	64	2	0	0	0	0	0	
JACKSON	89	71	92	67	80	4	1.1	-.2	.6	.0	0	40.8	160	100	63	2	0	0	0	0	0	
MERIDIAN	90	72	93	69	81	6	1.8	1.0	1.0	.0	0	40.5	156	94	61	3	0	0	0	0	0	
MO CAPE GIRARDEAU	88	71	93	65	80	6	1.1	-.9	.1	.1	46	19.4	96	94	57	3	0	0	0	0	0	
COLUMBIA	88	68	90	65	78	9	.4	-.6	.2	.1	64	12.5	81	93	60	0	0	0	0	0	0	
KANSAS CITY	85	66	88	60	76	5	2.4	1.3	1.2	1.0	606	13.6	105	98	68	0	0	0	0	0	0	
SAINT LOUIS	90	72	93	68	81	11	1.2	.4	1.2	.0	0	12.9	90	90	51	4	0	0	0	0	0	
SPRINGFIELD	86	67	88	63	76	8	.0	-1.0	.0	.0	0	15.8	101	99	57	0	0	0	0	0	0	
MT BILLINGS	66	45	77	38	56	-3	.5	-.1	.3	.0	0	8.1	115	92	43	0	0	0	0	0	0	
GLASGOW	74	48	83	41	61	2	1.1	-.4	.1	.0	0	3.7	113	88	31	0	0	0	0	0	0	
GREAT FALLS	67	40	78	34	54	-4	1.1	-.6	.1	.0	0	5.2	78	90	32	0	0	0	0	0	0	
HAVRE	69	43	78	35	56	-3	.9	-.5	.9	.0	0	6.4	141	92	40	0	0	0	0	0	0	
HELENA	66	42	78	37	54	-1	1.1	-.4	.0	.0	0	3.7	80	86	36	0	0	0	0	0	0	
KALISPELL	63	38	71	32	51	-4	.3	-.2	.3	.0	0	6.1	96	97	49	0	0	0	0	0	0	
MILES CITY	71	51	80	46	61	0	.5	-.2	.3	.0	0	7.8	140	91	49	0	0	0	0	0	0	
MISSOULA	64	40	75	31	52	-4	.4	-.1	.3	.0	0	4.6	82	92	42	0	0	0	0	0	0	
NE GRAND ISLAND	82	60	90	54	71	6	5.1	4.3	3.5	3.5	>1000	14.9	161	97	59	1	0	0	0	0	0	
LINCOLN	86	66	90	60	76	9	.7	-.2	.5	.5	354	9.7	94	94	56	2	0	0	0	0	0	
NORFOLK	85	62	93	60	73	8	2.0	1.0	.9	.3	207	13.9	157	92	51	1	0	0	0	0	0	
NORTH PLATTE	79	57	84	48	68	5	1.6	.8	.8	.3	262	10.3	141	97	58	0	0	0	0	0	0	
OMAHA	87	67	92	63	77	9	1.7	.7	1.0	1.0	633	15.7	144	90	59	1	0	0	0	0	0	
SCOTTSBLUFF	72	51	76	47	62	0	.4	-.3	.2	.0	0	6.9	115	94	52	0	0	0	0	0	0	
VALENTINE	75	55	83	51	65	2	1.6	.9	1.0	.4	390	8.3	130	94	56	0	0	0	0	0	0	
NV RLY	61	36	73	28	49	-5	.8	-.6	.3	.2	767	5.6	130	85	36	0	0	0	0	0	0	
LAS VEGAS	83	59	92	50	71	-6	-.2	-.2	.2	.2	>1000	2.0	118	40	15	2	0	0	0	0	0	
RENO	69	37	80	32	53	-5	T	-.1	T	.0	0	2.6	64	68	19	0	0	0	0	0	0	
WINNEMUCCA	69	35	79	30	52	-7	-.1	-.1	.1	.0	0	4.0	106	74	22	0	0	0	0	0	0	
NH CONCORD	78	54	85	50	66	6	.7	.1	.3	.0	0	11.4	80	100	52	0	0	0	0	0	0	
NJ ATLANTIC CITY	91	63	96	58	77	13	T	-.7	T	.0	0	15.8	92	94	47	5	0	0	0	0	0	
NM ALBUQUERQUE	84	52	89	47	68	-1	.0	-.1	.0	.0	0	2.0	93	36	9	0	0	0	0	0	0	
CLOVIS	92	62	97	56	77	8	.3	-.3	.3	.3	325	2.2	50	65	17	6	0	0	0	0	0	
ROSWELL	95	64	98	59	79	6	T	-.2	T	.0	0	1.6	69	41	12	6	0	0	0	0	0	
NY ALBANY	84	61	88	55	72	10	1.2	.4	1.1	.0	0	13.2	95	98	52	0	0	0	0	0	0	
BINGHAMTON	80	61	83	56	71	11	1.1	-.6	.1	.0	0	13.8	98	98	57	0	0	0	0	0	0	
BUFFALO	81	67	85	60	74	13	1.3	.6	.6	.0	0	19.0	133	91	60	0	0	0	0	0	0	
NEW YORK	87	68	90	64	78	12	1.2	.5	1.1	.0	0	14.7	84	85	48	3	0	0	0	0	0	
ROCHESTER	81	64	85	59	73	11	.9	.3	.9	.0	0	14.0	113	95	61	0	0	0	0	0	0	
SYRACUSE	80	61	85	56	71	9	1.9	1.2	1.6	.0	0	15.8	107	98	65	0	0	0	0	0	0	
NC ASHEVILLE	84	65	90	61	75	8	.8	-.1	.6	.0	0	18.9	100	99	55	1	0	0	0	0	0	
CHARLOTTE	91	72	95	69	82	10	1.7	.8	1.1	.1	942	24.0	124	91	48	5	0	0	0	0	0	
GREENSBORO	90	69	93	65	79	10	.3	-.5	.2	.0	0	24.0	138	93	52	4	0	0	0	0	0	
HATTERAS	89	72	91	63	80	10	T	-.9	T	.0	0	22.5	112	93	58	3	0	0	0	0	0	
NEW BERN	93	72	96	66	82	10	.4	-.7	.3	.0	0	18.7	98	97	55	5	0	0	0	0	0	
RALIGH	91	70	95	66	81	10	1.2	.4	1.1	1.1	892	14.4	83	98	51	4	0	0	0	0	0	
WILMINGTON	92	72	96	68	82	9	.7	-.4	.6	.6	394	24.1	131	97	52	5	0	0	0	0	0	
ND BISMARCK	74	53	79	48	64	4	.9	.3	.6	.0	0	6.0	111	94	50	0	0	0	0	0	0	
FARGO	79	59	82	55	69	9	.6	.0	.2	.0	0	8.1	136	92	48	0	0	0	0	0	0	
GRAND FORKS	78	56	82	50	67	8	.1	-.5	.1	.0	0	8.3	154	88	41	0	0	0	0	0	0	
WILLISTON	75	51	81	43	63	4	.8	-.3	.6	.0	0	5.2	111	92	38	0	0	0	0	0	0	
OH AKRON-CANTON	86	67	93	64	77	14	.6	-.2	.3	.0	0	11.6	78	98	61	2	0	0	0	0	0	
CINCINNATI	87	69	90	65	78	11	1.6	.7	1.0	.0	0	20.1	116	96	63	1	0	0	0	0	0	
CLEVELAND	85	69	91	66	77	14	1.2	.5	.6	.0	0	15.6	109	95	62	2	0	0	0	0	0	
COLUMBUS	88	70	92	67	79	13	1.8	.9	1.4	.0	0	14.9	97	95	57	4	0	0	0	0	0	

Based on 1951-80 normals

Weather Data for the Week Ending June 1, 1991

STATES  AND  STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	86	69	89	65	78	11	1.1	.2	.9	.1	54	19.5	130	95	61	0	0	4	1	
TOLEDO	87	68	91	66	78	15	1.7	1.0	.7	.7	0	13.4	108	98	60	2	0	3	2	
YOUNGSTOWN	84	65	90	57	75	13	.4	-.3	.2	.2	0	10.8	72	98	61	1	0	3	0	
OK OKLAHOMA CITY	88	69	90	63	78	6	1.4	.2	1.0	1.0	631	12.0	94	94	56	3	0	3	1	
TULSA	90	71	93	66	81	8	.8	-.3	.6	.6	335	11.1	71	87	53	6	0	2	1	
OR ASTORIA	57	46	60	44	52	-3	.6	.0	.4	.4	33	33.2	99	95	68	0	0	6	0	
BURNS	64	35	78	30	50	-6	.1	-.1	.0	.0	0	3.6	72	77	28	0	2	2	0	
MEDFORD	72	40	85	37	56	-5	.1	-.1	.1	.1	0	8.6	90	90	32	0	0	1	0	
PENDLETON	69	44	78	42	57	-5	.2	.0	.2	.0	0	6.4	108	81	35	0	0	2	0	
PORTLAND	64	48	74	45	56	-3	.2	-.3	.2	.0	0	18.3	101	85	51	0	0	2	0	
SALEM	65	43	74	37	54	-3	.4	.0	.2	.0	0	19.7	97	96	54	0	0	3	0	
PA ALLENTOWN	87	66	91	61	77	13	.7	.0	.5	.0	0	13.6	77	91	51	1	0	4	1	
ERIE	81	69	85	64	75	15	.9	.2	.5	.4	342	12.2	87	93	65	0	0	4	0	
HARRISBURG	91	69	94	65	80	14	1.0	.2	.5	.0	0	13.2	82	91	42	6	0	3	1	
PHILADELPHIA	94	70	97	64	82	15	.1	-.7	.1	.0	0	13.6	82	84	41	7	0	2	0	
PITTSBURGH	86	68	90	67	77	14	.4	-.4	.4	.0	0	13.2	84	94	57	1	0	3	0	
SCRANTON	85	64	89	57	75	12	1.2	.4	.6	.0	0	11.3	86	92	49	0	0	3	1	
RI PROVIDENCE	82	61	89	57	72	10	1.0	.3	.8	.0	0	20.5	105	95	51	0	0	3	1	
SC CHARLESTON	90	73	94	69	81	7	1.5	.3	.7	.7	368	24.1	132	98	66	4	0	4	1	
COLUMBIA	93	70	97	65	81	7	2.0	1.1	1.4	1.4	>1000	28.0	133	94	56	6	0	4	1	
FLORENCE	92	71	95	66	82	7	1.3	.5	.9	.9	662	18.0	103	94	51	6	0	3	1	
GREENVILLE	90	70	93	66	80	8	1.5	.6	.6	.1	50	24.9	108	97	52	4	0	5	1	
SD ABERDEEN	79	59	83	56	69	8	2.4	1.7	.8	.0	0	12.6	190	94	53	0	0	6	2	
HURON	80	59	85	56	70	8	4.3	3.6	3.2	3.2	>1000	14.2	198	96	57	0	0	6	2	
RAPID CITY	70	50	74	47	60	0	1.7	1.0	.5	.3	227	9.4	141	93	62	0	0	7	0	
STOUX FALLS	84	62	89	60	73	11	1.7	.9	.9	.9	23	9.9	114	95	49	0	0	5	1	
TN CHATTANOOGA	89	71	94	69	80	9	1.3	.5	1.1	.0	0	28.8	116	94	56	4	0	2	1	
KNOXVILLE	89	69	92	66	79	8	.8	.0	.6	.2	167	23.2	106	96	56	2	0	3	0	
MEMPHIS	88	71	92	65	80	5	.0	-1.0	.0	.0	0	37.3	148	94	61	2	0	0	0	
NASHVILLE	88	71	92	68	80	8	.9	-.1	.6	.0	0	21.6	93	90	62	4	0	3	0	
TX ABILENE	93	72	98	67	83	7	.0	-.7	.0	.0	0	0	70	82	34	7	0	0	0	
AMARILLO	89	62	96	57	75	6	1.2	.4	.9	.9	809	5.3	90	81	23	5	0	2	1	
AUSTIN	91	74	93	71	83	5	.1	-.8	.1	.0	0	22.0	168	93	52	7	0	1	0	
BEAUMONT	88	75	91	71	81	4	1.9	-.8	1.8	.0	0	41.7	202	95	67	2	0	3	1	
BROWNSVILLE	92	77	93	73	85	4	.0	-.6	.0	.0	0	16.3	233	90	56	7	0	0	0	
CORPUS CHRISTI	90	75	92	71	83	3	.1	-.8	.1	.0	0	15.6	169	95	66	2	0	2	0	
DEL RIO	96	76	100	73	86	6	.0	-.4	.0	.0	0	5.6	94	71	36	7	0	0	0	
EL PASO	91	61	95	56	76	0	.0	-.1	.0	.0	0	1.8	119	31	10	5	0	0	0	
FORT WORTH	91	73	93	67	82	6	.0	-.8	.0	.0	0	17.3	120	91	52	7	0	0	0	
CALVESTON	86	78	88	75	82	3	.2	-.6	.2	.0	0	31.6	233	88	69	0	0	2	0	
HOUSTON	91	74	93	69	82	4	.4	-.7	.3	.0	0	29.4	162	97	60	6	0	2	0	
LUBBOCK	96	68	99	64	82	9	.0	-.7	.0	.0	0	3.7	67	75	20	7	0	0	0	
MIDLAND	96	71	100	67	84	8	.0	-.5	.0	.0	0	2.6	59	74	23	7	0	0	0	
SAN ANGELO	94	72	97	67	83	6	.0	-.6	.0	.0	0	4.6	71	82	33	7	0	0	0	
SAN ANTONIO	94	75	96	67	84	6	.0	-.8	.0	.0	0	18.7	168	93	46	7	0	0	0	
VICTORIA	91	75	93	71	83	4	.1	-1.0	.1	.0	0	27.3	216	97	57	7	0	3	0	
WACO	93	73	95	64	83	5	.0	-.9	.0	.0	0	14.1	99	93	53	7	0	1	0	
WICHITA FALLS	92	70	95	67	81	5	.0	-.9	.0	.0	0	8.6	77	92	45	6	0	0	0	
UT CEDAR CITY	69	42	77	36	55	-5	1.2	1.1	.6	.1	400	4.0	94	67	24	0	0	3	2	
SALT LAKE CITY	66	49	73	45	57	-5	.7	.4	.4	.2	525	8.5	106	81	39	0	0	3	0	
VT BURLINGTON	76	57	80	52	67	7	.9	.2	.5	.0	0	11.3	98	97	66	0	0	5	0	
VA NORFOLK	94	74	100	70	84	14	.7	-.1	.7	.7	627	17.9	103	89	44	6	0	2	1	
RICHMOND	96	70	98	66	83	14	.2	-.6	.2	.0	0	12.4	75	90	44	7	0	1	0	
ROANOKE	89	67	92	62	78	10	1.3	.5	1.2	.0	36	18.6	114	93	51	4	0	3	1	
WA QUILLAYUTE	55	45	58	41	50	-3	.7	-.2	.6	.0	17	48.4	95	98	69	0	0	5	1	
SEATTLE-TACOMA	63	48	67	46	56	-2	.1	-.2	.0	.0	0	21.7	122	91	56	0	0	3	0	
SPOKANE	67	41	75	35	54	-3	.3	-.1	.1	.0	0	7.8	99	93	43	0	0	5	0	
YAKIMA	75	40	86	34	57	-3	.0	-.1	.0	.0	0	2.5	69	87	27	0	0	0	0	
WV BECKLEY	84	65	87	60	74	11	.8	-.1	.5	.0	0	18.0	101	95	59	0	0	3	0	
CHARLESTON	89	68	93	65	79	12	.4	-.4	.2	.0	0	16.7	94	97	52	3	0	3	0	
HUNTINGTON	90	69	93	66	80	12	.7	-.1	.4	.3	255	18.8	107	94	50	6	0	3	0	
PARKERSBURG	88	69	92	66	79	12	.2	-.7	.2	.0	0	16.3	102	96	55	4	0	1	0	
WI GREEN BAY	83	61	90	60	72	13	1.0	.3	.7	.0	27	9.0	91	98	63	1	0	6	1	
LACROSSE	83	66	91	61	74	11	2.2	1.3	1.7	.1	54	16.5	158	99	70	1	0	6	1	
MADISON	86	64	92	61	75	13	.3	-.5	.2	.1	100	13.0	121	95	57	2	0	3	0	
MILWAUKEE	86	63	93	56	75	16	.8	.2	.6	.6	500	14.5	125	92	55	1	0	3	1	
WAUSAU	79	60	85	57	70	10	2.0	1.1	.6	.1	77	13.7	130	100	65	0	0	6	2	
WY CASPER	66	42	72	35	54	-3	1.8	1.3	1.0	1.0	>1000	8.5	151	92	47	0	0	4	1	
CHEYENNE	66	46	70	43	56	-1	2.2	1.7	1.3	1.3	>1000	7.2	131	93	51	0	0	5	2	
LANDER	61	43	69	39	52	-5	1.5	.9	1.0	.3	486	9.2	129	87	49	0	0	4	1	
SHERIDAN	65	42	78	37	54	-3	.5	.0	.3	.0	0	8.9	126	92	53	0	0	2	0	

Based on 1951-80 normals

## National Agricultural Summary

May 27 - June 2, 1991

**HIGHLIGHTS:** Mostly clear weather across the West allowed planting and early harvest activities to progress rapidly, while thunderstorms from the Midwest across the Ohio Valley and down through most of the Southeast limited fieldwork. Some fields were being abandoned in Louisiana due to steady rains.

**SMALL GRAINS:** Winter wheat harvest was underway in the southernmost States, led by Georgia with 38 percent (%) of the crop harvested, compared with 53% last year and the 5-year average of 51%. Oklahoma, with 23% of the crop harvested, was well ahead of both last year's 1% and the 5-year average of 5%. Mostly clear weather conditions in Texas allowed harvest to gain momentum across the Low Plains and Cross Timbers regions. Harvest was also active in Arkansas, California, and North Carolina. Winter wheat heading progress advanced to 82% in the 19 major producing States, compared with 82% last year and the 5-year average of 84%. Heading progress was behind normal in the Pacific Northwest, ahead of normal from the eastern Ohio Valley up through Michigan, and near normal elsewhere. Winter wheat condition deteriorated in the Midwest due to diseases. Winter wheat was rated poor or very poor for 65% of Arkansas' crop, 48% of Illinois' crop, and 47% of Missouri's crop. The Missouri crop outlook continued to decline, particularly in the Southeast, as diseases intensified. Scab, glume blotch, and rust were serious in many Indiana wheat fields. Wheat progress continued ahead of schedule in Kansas with condition slightly improved. However, wheat streak mosaic was causing moderate damage in central and western parts of the State. Ninety-four percent of the Spring wheat had emerged in the five major producing States, 1 point behind last year, but 2 points ahead of the average. Spring wheat condition remained mostly good in all five States. Barley harvest was underway in the East, while planting neared completion in the Northwest. Oats were being harvested in the eastern half of the Nation, while seeding neared completion in the Northwest.

**CORN:** Planting progress in the 17 major producing States reached 92% complete, 5 points ahead of last year but 3 points behind the historic average. Iowa planting advanced 12 points to 82% complete, 11 points behind last year and 15 points behind the average. Minnesota progress, at 80% planted, was 14 points behind last year and 16 points behind normal. Most fields across Texas made excellent progress under hot, drying weather patterns.

**SOYBEANS:** Nationwide, soybean planting reached 56% complete, 9 points ahead of last year but 10 points behind normal. Planting progress remained ahead of normal in the eastern half of the Corn Belt and Great Plains, but was behind normal in the Mississippi Valley and the Southeast. Wet field conditions have held progress to less than 15% in Louisiana, Mississippi, and Tennessee.

**COTTON:** Planting continued to lag behind normal in the Southeast, holding National progress to 74% complete, compared with 89% last year and 82% average. Twenty percent of the acreage in Oklahoma was showing squares, as was 16% of

Arizona's acreage. Squaring was 35 points behind normal in Arizona and 6 points behind in Oklahoma. Squaring was beginning to occur in Alabama, Arkansas, California, Georgia, and Texas. Crop condition rated mostly good to fair nationwide, with good conditions predominating from California through the Southwest, and mostly fair conditions in the eastern half of the Nation. Some producers on the Texas Low Plains were dry planting and hoping for rain. Stands in other areas of Texas continued in good shape.

**GRAIN SORGHUM:** Planting progress advanced to 57% complete in the 12 major producing States, 4 points ahead of last year but 5 points behind the average. Progress was slightly ahead of normal in Illinois and Texas, normal in Nebraska, and behind normal elsewhere. Progress was 30 points or more behind in Louisiana, Mississippi, and Missouri.

**RICE:** Planting was completed in Texas and neared completion in California, while growers in the Lower Mississippi Valley continued to be delayed by wet weather. Mississippi planting was only 50% complete, compared with 97% normal. Arkansas and Louisiana progress was 15 points behind normal, at 79% and 83% complete. Water weevil populations were increasing in Louisiana. Rice fields had another week of good progress in Texas, but a few cases of armyworm infestations were reported in the Upper Coast region.

**OTHER FIELD CROPS:** Hay harvests across the Midwest and Southeast were hampered by rains, but first cut haying was active as far north as Maine. Dry bean planting was 10% complete in Michigan, 19% complete in Colorado, and 34% complete in Idaho. Peanut planting was complete in Virginia, well along in the Southeast, and 34% complete in Oklahoma. Planting of fall potatoes neared completion nationwide.

**FRUIT AND NUTS:** Cherry and desert table grape harvests were active in California. Early variety apricots, peaches, plums, and nectarines were being packed with harvests running approximately 10 days behind last year. Grapevine growth was slow, but is improving with warmer weather. Bloom was showing in early variety coastal wine grapes. Valencia orange picking continued. Grapefruit harvest increased in Western Riverside County and neared completion in the Coachella Valley, Ca. Florida citrus groves remained in very good condition. New crop fruit showed good progress with advanced sizes. Valencia harvest was slowing due to limited supplies, and grapefruit harvest was almost over. Georgia peaches rated mostly good with 29% of the crop harvested. New England cranberries were in early blossom stage. Development of New York's grape crop was ahead of normal due to warm weather this spring and some varieties in the Hudson

(Continued to back cover)

Crop Progress

FOR WEEK ENDING JUNE 2, 1991

	CORN % PLANTED		
	1991	1990	AVG.
CO	95	97	98
GA	100	100	100
IL	99	78	96
IN	99	78	91
IA	82	93	97
KS	99	97	98
KY	87	55	86
MI	95	95	96
MN	80	94	96
MO	85	56	98
NE	99	95	98
NC	100	100	98
OH	100	89	90
PA	90	71	74
SD	87	90	86
TX	100	100	100
WI	89	87	94
17 STATES	92	87	95

THESE 17 STATES PRODUCED 95% OF THE 1990 CORN CROP.

	SOYBEANS % PLANTED		
	1991	1990	AVG.
AL	25	48	51
AR	20	15	41
GA	29	57	55
IL	85	43	80
IN	87	47	66
IA	50	63	82
KS	45	40	45
KY	25	9	42
LA	14	63	58
MI	70	65	65
MN	49	78	85
MS	11	32	41
MO	27	10	52
NE	82	63	79
NC	59	50	43
OH	95	50	64
SC	32	49	42
SD	72	61	63
TN	8	19	44
19 STATES	56	47	66

THESE 19 STATES PRODUCED 95% OF THE 1990 SOYBEANS CROP.

	COTTON % PLANTED		
	1991	1990	AVG.
AL	88	99	98
AZ	100	100	100
AR	84	94	97
CA	100	100	100
GA	86	97	95
LA	74	100	96
MS	69	97	97
MO	85	86	97
NM	98	98	97
NC	100	100	95
OK	73	50	43
SC	95	96	97
TN	50	90	98
TX	65	83	68
14 STATES	74	89	82

THESE 14 STATES PRODUCED 99% OF THE 1990 COTTON CROP.

	COTTON % SQUARING		
	1991	1990	AVG.
AL	2	6	3
AZ	16	18	51
AR	3	0	2
CA	1	5	5
GA	9	10	8
LA	0	7	8
MS	0	0	8
MO	0	0	0
NM	0	0	5
NC	0	0	0
OK	20	28	26
SC	0	0	0
TN	0	0	0
TX	9	9	10
14 STATES	6	7	10

THESE 14 STATES PRODUCED 99% OF THE 1990 COTTON CROP.

	GRAIN SORGHUM % PLANTED		
	1991	1990	AVG.
AR	76	77	90
CO	35	34	45
IL	64	6	60
KS	40	35	45
LA	60	92	92
MS	54	88	90
MO	34	14	64
NE	74	54	74
NM	38	66	NA
OK	30	29	40
SD	19	30	41
TX	80	84	76
12 STATES	57	53	NA

EXCL. STATES WITH NA 57 53 62

THESE 12 STATES PRODUCED 98% OF THE 1990 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

	WINTER WHEAT % HEADED		
	1991	1990	AVG.
AR	100	100	100
CA	99	99	100
CO	76	74	80
GA	100	100	100
ID	2	18	14
IL	94	97	98
IN	99	86	85
KS	100	99	99
MI	60	20	30
MO	100	96	99
MT	0	1	7
NE	88	74	85
NC	100	100	99
OH	90	76	72
OK	100	99	100
OR	40	70	55
SD	35	28	38
TX	98	98	98
WA	36	51	48
19 STATES	83	82	84

THESE 19 STATES PRODUCED 91% OF THE 1990 WINTER WHEAT CROP.

	WINTER WHEAT % HARVESTED		
	1991	1990	AVG.
AR	5	0	4
CA	1	5	7
CO	0	0	0
GA	38	53	51
ID	0	0	0
IL	0	0	0
IN	0	0	0
KS	0	0	0
MI	0	0	0
MO	0	0	0
MT	0	0	0
NE	0	0	0
NC	12	NA	NA
OH	0	0	0
OK	23	1	5
OR	0	0	0
SD	0	0	0
TX	14	7	14
WA	0	0	0
19 STATES	5	NA	NA

EXCL. STATES WITH NA 5 2 3

THESE 19 STATES PRODUCED 91% OF THE 1990 WINTER WHEAT CROP.

SPRING WHEAT  
% EMERGED

	1991	1990	AVG.
ID	86	99	99
MN	99	100	92
MT	80	92	88
ND	96	92	91
SD	100	100	98

5 STATES 94 95 92

THESE 5 STATES PRODUCED 97% OF THE 1990 SPRING WHEAT CROP.

RICE  
% PLANTED

	1991	1990	AVG.
AR	79	79	94
CA	95	98	98
LA	83	97	98
MS	50	90	97
TX	100	100	100

5 STATES 82 89 96

THESE 5 STATES PRODUCED 98% OF THE 1990 RICE CROP.

RICE  
% EMERGED

	1991	1990	AVG.
AR	65	60	85
CA	75	75	80
LA	77	93	94
MS	33	78	92
TX	90	90	98

5 STATES 69 74 88

THESE 5 STATES PRODUCED 98% OF THE 1990 RICE CROP.

Crop Condition

PERCENT

CORN

STATE	VP	P	F	G	EX
CO	0	4	20	63	13
GA	0	0	5	60	35
IL	0	0	5	59	36
IN	0	0	16	67	17
IA	2	5	23	59	11
KS	0	0	10	53	37
KY	1	6	15	70	8
MI	0	2	13	45	40
MN	3	6	26	61	4
MO	0	2	46	51	1
NE	0	0	5	73	22
NC	0	4	15	73	8
OH	0	3	20	56	21
PA	1	4	21	54	20
SD	0	1	13	58	28
TX	0	1	18	65	16
WI	1	0	11	64	24
17 STATE	1	2	16	61	20
PREV WEEK	NA				
PREV YEAR	1	6	42	45	6

COTTON

STATE	VP	P	F	G	EX
AL	1	26	55	18	0
AZ	0	0	30	60	10
AR	1	8	39	52	0
CA	0	0	10	85	5
GA	0	1	22	74	3
LA	3	9	59	29	0
MS	3	21	58	16	2
MO	0	11	89	0	0
NM	0	9	27	64	0
NC	0	0	17	73	10
OK	0	0	74	19	7
SC	0	0	37	63	0
TN	14	24	44	18	0
TX	0	0	26	67	7
14 STATE	1	5	35	54	5
PREV WEEK	NA				
PREV YEAR	0	9	37	50	4

WINTER WHEAT

STATE	VP	P	F	G	EX
AR	22	43	28	7	0
CA	0	0	10	85	5
CO	4	8	40	38	10
GA	1	29	45	25	0
ID	3	6	30	48	13
IL	22	26	22	27	3
IN	5	11	29	52	3
KS	2	9	33	48	8
MI	0	5	20	50	25
MO	14	33	38	15	0
MT	5	12	32	42	9
NE	0	0	26	63	11
NC	0	0	23	71	6
OH	1	5	21	53	20
OK	9	5	75	11	0
OR	5	22	25	45	3
SD	4	2	12	51	31
TX	7	24	45	22	2
WA	0	34	37	29	0
19 STATE	6	14	38	36	6
PREV WEEK	3	12	42	36	7
PREV YEAR	1	4	25	53	17

SPRING WHEAT

STATE	VP	P	F	G	EX
ID	0	1	17	62	20
MN	1	1	14	74	10
MT	0	1	20	56	23
ND	0	0	10	86	4
SD	0	0	2	66	32
5 STATE	0	0	12	75	13
PREV WEEK	0	1	12	75	12
PREV YEAR	1	2	23	61	13

RICE

STATE	VP	P	F	G	EX
AR	2	8	52	38	0
CA	0	0	10	85	5
LA	0	4	57	39	0
MS	2	32	54	12	0
TX	0	0	44	35	21
5 STATE	1	7	47	42	3
PREV WEEK	0	6	46	43	5
PREV YEAR	0	5	44	45	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 0.50 to 1.50 in.; over 3.00 in. local areas. Temperatures 4 to 8° above normal most areas; 2° above normal coast.

Days suitable for fieldwork 2.7. Soil moisture 23% adequate, 77% surplus. Acreage intended for spring planting 88% prepared, 99% 1990, 99% avg. Corn 93% planted, 100% 1990, 100% avg.; 28% silked, 45% 1990, 30% avg.; 1% very poor, 7% poor, 24% fair, 50% good, 18% excellent. Sorghum 50% planted, 74% 1990, 64% avg.; 4% poor, 21% fair, 75% good. Cotton 88% planted, 99% 1990, 98% avg.; 2% squaring, 6% 1990, 3% avg.; 1% very poor, 26% poor, 55% fair, 18% good. Peanuts 89% planted, 98% 1990, 93% avg.; 2% pegging, 3% 1990, 1% avg.; 1% poor, 46% fair, 53% good. Soybeans 25% planted, 48% 1990, 51% avg. Winter wheat 98% turning color, 97% 1990, 95% avg.; 18% harvested, 45% 1990, 40% avg.; 19% very poor, 25% poor, 38% fair, 18% good. First hay 30% harvested, 65% 1990, 60% avg. Pastures 8% fair, 50% good, 42% excellent. Livestock 3% fair, 69% good, 28% excellent. Activities: Land preparation; planting row crops; harvesting wheat, hay; care of livestock.

**ALASKA:** Temperatures throughout the Railbelt steadily getting seasonally warmer after a cooler than normal Spring. High temperatures 4° below normal to 1° above normal. Lows normal to 8° above normal. Seasonal precipitation drier than normal at all stations except Homer.

Days suitable for fieldwork 7.0. Topsoil 47% short, 48% adequate, 5% surplus. Subsoil 16% short, 84% adequate. Farmwork progress on schedule to 3 days behind. Barley, oat seeding wrapping up. Emergence of barley, 75%; oats, 95%. Commercial potato planting 95% complete. Crop growth; 34% slow, 46% moderate, 54% good, 20% rapid.

**ARIZONA:** Sunny, cooler early in the period, warming to normal temperatures by midweek; windy, cooler on the 30th continuing through the 1st with scattered showers statewide on the 1st. Temperatures normal to 8° below normal. Extremes 28°; 93° higher elevations, 56°; 101° deserts. Rainfall a trace central to 1.08 in. northwest.

Cotton 100% planted, 100% 1990, 100% avg.; 16% squaring or further advanced, 18% 1990, 51% avg.; 30% fair, 60% good, 10% excellent; weed, insect infestations light. Small grains turning color 100%, 97% 1990, 98% avg.; 19% harvested, 27% 1990, 35% avg.; good to excellent. Alfalfa good; weed, insect infestations light to moderate; harvest moderate to active. Grapefruit, honeydews, watermelons, cantaloupes, table grapes harvested west; potatoes, mixed vegetables, grapefruit, dry onions, peaches harvested central; spring lettuce harvested east. Cattle, calves fair to good; stockwater supplies adequate, soil moisture short, feed supplies adequate; northern stockwater supplies poor, soil moisture short, feed supplies below average; central stockwater poor, soil moisture short, feed supply average; southeast stockwater poor, soil moisture short, feed supplies average;

insect damage light statewide; range, pasture conditions 85% of normal.

**ARKANSAS:** Temperatures above normal with widely scattered light showers in the northwest, eastern parts of the State. Extremes 62°; 97°. Rainfall none to 1.00 in.

Days suitable for fieldwork 5. Soil moisture 2% short, 69% adequate, 29% surplus. Activities: Planting cotton, rice, soybeans; controlling weeds, insects; cutting, harvesting, baling hay; field preparation; cultivating cotton; applying herbicides, fertilizers; harvesting fruits, vegetables; working livestock. Oats heading 100%, 100% 1990, 100% avg. Corn planted 98%, 94% 1990, 98% avg. Disease problems in wheat medium to heavy. Pasture 5% fair, 85% good, 10% excellent. Livestock good.

**CALIFORNIA:** Strong high pressure pushed temperatures above normal. Minor cold front brought light precipitation to the north, cooler temperatures midweek followed by gradual warming. Open weather permitted progress field activities. Barley, wheat matured; harvest underway, limited areas. Oats cut hay, green chop. Cotton development slow, cool temperatures. Rice seeding active. Cool weather impeded growth. Planting corn, new sugarbeets continued. Emerged corn cultivated. Over wintered sugarbeet harvest progressed; new fields thinned, treated aphids, mildew. Alfalfa harvest normal. Cherry, desert table grape harvests active. Early variety apricots, peaches, plums, nectarines packed; harvest approximately ten days behind last year. Grape vine growth slow, improved with warmer weather. Almonds sizing well, nut development behind normal. Valencia oranges packed, high grade out in freeze damaged areas. Grapefruit movement increased Western Riverside County, near completion Coachella Valley. Celery light supply, central coast. Iceberg lettuce supply moderate, variable quality. Potato harvest continued Hemet San Jacinto area. Potato planting Tullake area nearing completion. Strawberries, good supply, central coast, generally good quality. Sweet potato, tomato, melon planting continued. Pasture excellent northwest, northeast, poor to fair south, fair to good north. Light supplemental feeding. Water supplies adequate.

**COLORADO:** 27th, 28th calm with only a few scattered rain showers. Locally heavy rain, hail, funnel clouds mostly northeast from 28th through rest of week. By June 1st, heavy rains had prompted a flash flood watch for much of the northeast. By the end of the 1st, up to 3.00 in. of more rain was received, produced widespread local flooding. Rain also had tennis ball size hail, five or more tornados. Temperatures 2 to 3° above normal in the east, slightly below normal in the west.

Days suitable for fieldwork 5.3. Soil moisture 8% very short, 44% short, 40% adequate, 8% surplus. Winter wheat headed 76%, 74% 1990, 80% avg.; 4% very poor, 8% poor, 40% fair, 38% good, 10% excellent. Barley headed 11%, 26% 1990, 20% avg. Corn planting 95% complete, 97% 1990, 98%

avg.; 4% poor, 20% fair, 63% good, 13% excellent. Dry bean planting 19% complete, 26% 1990, 44% avg.; sorghum planting 35% complete, 34% 1990, 45% avg.; summer potato planting 97% complete, 100% 1990, 100% avg.; fall potato planting 94% complete, 99% 1990, 99% avg. Livestock good. Pasture, range feed improved to mostly good.

**FLORIDA:** Temperatures 2 to 3° above normal. Extreme highs, mid 90s all areas; lows mid 60s interior Peninsula, western Panhandle. Rainfall 0.30 in. or less, lower Peninsula, 1.00 to 2.00 elsewhere. Isolated areas 7.00 in. plus.

Soil moisture adequate to surplus throughout State. Planting spring sown crops, harvesting wheat, hay when weather permits. Corn, cotton, peanuts, tobacco, sugarcane making good progress. States pastures remain good to excellent. Pasture 60% good, 40% excellent. State herds mostly good to excellent. Citrus groves, trees near excellent. Rain most areas, moisture adequate. New crop fruit good progress with advanced sizes. Valencia harvest slowing due to limited supplies, grapefruit harvest almost over. Caretakers cutting cover crops. Summer sprays, fertilizers being applied. Hot days, warm nights, frequent showers continued over major vegetable producing areas. Harvest complete most southern areas. Supplies all crops declining. Volume leaders: Watermelons, potatoes, tomatoes, sweet corn, cucumbers, peppers, celery. Lesser volume snap beans, cabbage, eggplant, radishes, squash available. Harvest southwest tomatoes complete.

**GEORGIA:** High temperatures 7 to 9° above normal north, 3 to 5° above normal south. Extremes 62°; 95°. Rainfall persistent, 2 to 5 days. Most stations at least 1.00 in. Pine Mountain, in Rabun County, 5.43 in.

Days suitable for fieldwork 4.2. Soil moisture 2% short, 75% adequate, 23% surplus. Corn 44% silked, 31% 1990, 25% avg.; 12% dough, 8% 1990, 5% avg.; good corn prospects, development ahead of normal. Cotton planting active, but behind normal. Sorghum 9% fair, 87% good, 4% excellent; 59% planted, 84% 1990, 71% avg. Peanuts 16% fair, 82% good, 2% excellent; 94% planted, 98% 1990, 97% avg.; 24% blooming, 24% 1990, 14% avg.; 3% pegging, 4% 1990, 2% avg.; planting active as showers more scattered. Soybeans 17% fair, 81% good, 2% excellent. Tobacco 7% poor, 76% fair, 13% good, 4% excellent; diseases widespread, some drowned. Watermelons 4% poor, 31% fair, 51% good, 14% excellent. Wheat harvest active, much over mature. Rye 3% very poor, 29% poor, 42% fair, 26% good. Apples 17% fair, 83% good. Peaches 13% poor, 3% fair, 84% good; 29% harvested, 44% 1990, 29% avg. Hay 1% poor, 22% fair, 63% good, 14% excellent; harvest slow, much over mature. Pasture 1% fair, 71% good, 28% excellent. Cattle, hogs mostly good. Activities: Planting peanuts, cotton, soybeans, harvesting small grains, peaches, hay.

**HAWAII:** High pressure system north of the island chain provided mostly favorable weather. Mostly sunny with occasional showers windward, mountain areas. Trade winds brisk at 15 to 25 mph most of week, decreasing by weekend. Temperatures high 60s to mid 80s. Rainfall none to 7.00 in.

Days suitable for farm work 7.0. Irrigation necessary most areas. Sugar, pineapple harvesting, planting operations normal. Fruit,

vine crops made good progress with warm temperatures. Watermelon harvesting heavy.

**IDAHO:** Temperatures below normal across most of State. Most of State received some precipitation during week except for south central area.

Days suitable for fieldwork 5. Soil moisture 8% short, 80% adequate, 12% surplus. Winter wheat 23% not yet jointed, 54% jointed, 21% boot stage, 2% headed. Spring wheat 98% planted, 100% 1990, 100% avg.; 74% not yet jointed, 23% jointed, 3% boot stage. Spring barley 97% planted, 100% 1990, 98% avg.; 84% emerged, 98% 1990, 95% avg. Oats 91% planted, 98% 1990, 96% avg.; 74% emerged, 89% 1990, 90% avg. Potatoes 88% planted, 97% 1990, 92% avg.; 19% emerged, 43% 1990, 45% avg. Sugarbeets 99% emerged, 99% 1990, 99% avg.; thinned 44%, 53% 1990, 59% avg. Dry peas 95% planted, 100% 1990, 99% avg.; 83% emerged, 99% 1990, 97% avg. Lentils 98% planted, 100% 1990, 100% avg.; 92% emerged, 99% 1990, 99% avg. Field corn 85% planted, 89% 1990, 97% avg.; 44% emerged, 75% 1990, 86% avg. Dry beans 34% planted, 28% 1990, 45% avg. Irrigation water supplies fair to good. Wireworm in southern area. Bloom period completed with fruit set now in developing stages. Activities: Cultivating, thinning sugarbeets, planting row crops, irrigating, harvesting first cutting of hay, spraying for weeds. Livestock in good to excellent. Pasture, range 93% of normal. Hay, roughage supplies adequate.

**ILLINOIS:** Temperatures above normal by 8 to 14° over the north, central sections of the State; 10 to 12° south. Precipitation across States 0.50 to 3.80 in.

Days suitable for fieldwork 3.75. Soil moisture 6% short, 63% adequate, 31% surplus. Corn height 13 in., most advanced 24 in. Emerged soybeans 86% of full stand, 79% 1990. Winter wheat filled 71%, 46% 1990, 69% avg. Oats 1% poor, 5% fair, 72% good, 22% excellent. Pasture condition as a % of normal, where 100% = normal, was 97%. Alfalfa first cutting 52%, 18% 1990, 55% avg. Alfalfa 6% fair, 64% good, 30% excellent. Red clover cut 34%, 11% 1990, 43% avg. Red clover 7% fair, 75% good, 18% excellent.

**INDIANA:** Temperatures 9 to 14° above normal. Lows mid to upper 60s, highs in 90s. Precipitation 1.00 to 6.00 in.

Days suitable for fieldwork 3.8. Topsoil 3% short, 58% adequate, 39% surplus. Subsoil 74% adequate, 26% surplus. Corn 13 in. high, 4 in. 1990, 7 in. avg. Soybeans 84% emerged, 33% 1990, 62% avg. Alfalfa hay 1st cutting 39%, 26% 1990, 45% avg. Pasture 98% of normal. Excellent corn, soybean progress. Scab, glume blotch, rust serious in many wheat fields.

**IOWA:** Temperatures 10 to 11° above normal. Extremes 57°; 95°. Precipitation 0.29 to 4.66 in.; average 1.69 in.

Days suitable for fieldwork 3.4. Topsoil 26% adequate, 74% surplus. Subsoil 2% short, 33% adequate, 65% surplus. Winter wheat 4% poor 15% fair, 73% good, 8% excellent. Hay 3% poor, 15% fair, 61% good, 21% excellent. Pasture 2% poor, 9% fair, 78% good, 11% excellent. Oats 4% headed, 4% 1990, 9% avg.; 3% poor, 21% fair, 66% good, 10% excellent. Corn 68% emerged, 79% 1990, 92% avg.; 6% cultivated first time, 6% 1990, 21% avg. Soybeans 30% emerged, 18% 1990, 54% avg. First cutting alfalfa 8% harvested, 5% 1990, 19% avg. Livestock mostly good.

**KANSAS:** Temperatures 2° above normal northwest to 7° above normal southeast. Rainfall above normal. District 0.48 to 2.87 in.

Days suitable for fieldwork 3.0. Surface moisture 9% short, 78% adequate, 13% surplus. Subsurface moisture 44% short, 53% adequate, 3% surplus. Wheat progress continues ahead schedule; slightly improved. Harvest soon. Insect damage light. Wheat streak mosaic causing moderate damage in central, west. Foliar diseases such as leaf rust increasing due to warm, wet weather. Corn planting virtually complete; 90% good to excellent. Sorghum, soybean planting progressing slow due to rains. Approximately 60% alfalfa cut 1st time. Range, pastures good.

**KENTUCKY:** Warm humid weather. Temperatures 7 to 10° above normal; highs upper 80s, lower 90s, lows mid 60s, lows 70s. Precipitation varied widely. West less than 0.25 in. east. 1.00 to 3.00 in.

Days suitable for fieldwork 3.6. Soil moisture 2% very short, 5% short, 61% adequate, 32% surplus. Most west areas surplus, northeast short. Corn planting well advanced most areas, emerged crop averaged 13 in.; 1% very poor, 6% poor, 15% fair, 70% good, 8% excellent. Tobacco transplanting active. Burley 70% set, 45% 1990, 58% avg. Dark tobacco nearing 50% set. Tobacco plants too big in many beds. Fungal disease a problem, plants mostly good. Wheat condition deteriorating due to fungal diseases. Harvest about a week away. Barley harvest just beginning. Hay quality reduced by rain, humidity. Pastures excellent.

**LOUISIANA:** Temperatures 2.2 to 4.0° above normal. Extremes 63°; 93°. Rainfall 0.27 in. northwest to 3.57 in. southwest.

Days suitable for fieldwork 1.6. Soil moisture 11% adequate, 89% surplus. Spring plowing 81%, 95% 1990, 99% avg. Corn 35% very poor, 27% poor, 38% fair; 100% emerged, 100% 1990, 100% avg.; 37% silked, 28% 1990, 21% avg. Cotton 73% emerged, 100% 1990, 89% avg. Hay 11% first cutting, 54% 1990, 58% avg. Peaches 1% very poor, 24% poor, 13% fair, 62% good; 7% harvested, 14% 1990, 11% avg. Sorghum 16% very poor, 35% poor, 49% fair; 57% emerged, 89% 1990, 86% avg. Soybeans 9% emerged, 58% 1990, 44% avg. Sweet potatoes 31% planted, 44% 1990, 47% avg. Sugarcane 13% poor, 62% fair, 25% good. Wheat 44% very poor, 45% poor, 11% fair; 43% harvested, 69% 1990, 59% avg. Pastures 20% very poor, 4% poor, 34% fair, 20% good, 22% excellent. Livestock 5% poor, 37% fair, 51% good, 7% excellent.

**MARYLAND & DELAWARE:** MARYLAND: Precipitation 0.14 in. Temperature 81.5°, normal 67.0°. Extremes 55°; 103°.

Days suitable for fieldwork 5.8. Topsoil 25% very short, 60% short, 10% adequate. Subsoil 5% very short, 70% short, 20% adequate. Small grains good. Winter wheat 57% turning, 17% 1990, 14% avg. Barley 96% turning, 68% 1990, 69% avg. Rye 54% turning, 32% 1990, 38% avg.; 12% harvested, 12% 1990, 5% avg. Oats 30% headed, 33% 1990, 34% avg. Soybeans 55% planted, 27% 1990, 34% avg. Sorghum 69% planted, N/A 1990, N/A avg. Tobacco 64% transplanted, 60% 1990, N/A avg. Sweet corn 83% planted, 81% 1990, 80% avg. Watermelons 89% planted, 94% 1990, 95% avg. Activities: Soil preparation; planting corn, soybeans, sorghum, vegetables, oats, tobacco; harvesting hay, strawberries; caring for livestock.

**DELAWARE:** Precipitation 0.24 in. Temperature 81.8°, normal 67.4°. Extremes 59°; 97°.

Days suitable for fieldwork 7. Topsoil 60% very short, 40% short. Subsoil 20% very short, 60% short, 20% adequate. Small grains poor to fair. Winter wheat 76% turning, 30% 1990, 26% avg. Barley 17% harvested, 0% 1990, 10% avg. Rye 83% turning, 0% 1990, N/A avg. Soybeans 42% planted, 33% 1990, 37% avg. Sorghum 79% planted, N/A 1990, N/A avg. Sweet corn 69% planted, 95% 1990, 90% avg. Pasture poor to fair. Activities: Soil preparation; planting corn, soybeans, sorghum, vegetables; harvesting hay, strawberries; caring for livestock.

**MICHIGAN:** Weather data not available.

Days suitable for fieldwork 4. Soil moisture 2% short, 50% adequate, 48% surplus. Corn 95% planted, 95% 1990, 96% avg.; 80% emerged, 70% 1990, 80% avg.; 2% poor, 13% fair, 45% good, 40% excellent. Dry beans 10% planted, 10% 1990, 10% avg. Soybeans 70% planted, 65% 1990, 65% avg. Winter wheat 60% headed, 20% 1990, 30% avg.; 5% poor, 20% fair, 50% good, 25% excellent. Pasture 95% of normal. Activities: Cutting hay.

**MINNESOTA:** Temperatures 5 to 12° above normal. Extremes 39°; 90°. Precipitation 0.50 to 2.56 in. Greatest weekly total 3.67 in.

Days suitable for fieldwork 2.5. Topsoil 1% very short, 3% short, 38% adequate, 58% surplus. Spring wheat 63% not jointing, 83% 1990, 78% avg.; 37% jointing, 17% 1990, 22% avg. Oats 66% not jointing, 75% 1990, 70% avg.; 34% jointing, 25% 1990, 30% avg. Barley 66% not jointing, 83% 1990, 82% avg.; 34% jointing, 17% 1990, 18% avg. Field Corn 80% acreage planted, 94% 1990, 96% avg.; 64% emerged 76% 1990, 82% avg.; 3% cultivated once, 7% 1990, 17% avg. Soybeans 49% acreage planted, 78% 1990, 85% avg.; 33% emerged, 40% 1990, 50% avg.; 1% cultivated once, 2% 1990, 5% avg. Dry beans 88% planted, 94% 1990, 87% avg. Flax 99% planted, 97% 1990, 83% avg. Sunflowers 94% planted, 96% 1990, 81% avg. Sweet corn 49% planted, 70% 1990, 76% avg. Green peas 75% planted, 94% 1990, 96% avg. Alfalfa hay 5% cut, 1% 1990, 13% avg. Field corn 3% very poor, 6% poor, 26% fair, 61% good, 4% excellent. Soybeans 3% very poor, 11% poor, 27% fair, 55% good, 4% excellent. Spring wheat 1% very poor, 1% poor, 14% fair, 74% good, 10% excellent. Barley 2% poor, 3% very poor, 13% fair, 71% good, 11% excellent.

**MISSISSIPPI:** Temperatures 79°, 3.6° above normal. Extreme 61°; 95°. Mostly wet. Dry Delta & Coastal areas. Rainfall 1.94 in., 0.98 in. above normal. Soil temperatures 80°.

Days suitable for fieldwork 1.8, 2.8 1990, 3.0 avg. Soil moisture 15% adequate, 45% surplus, 40% excessive. Corn 69% planted, 97% 1990, 100% avg.; 66% emerged, 95% 1990, 96% avg.; silking 6%, 20% very poor, 21% poor, 41% fair, 17% good, 1% excellent. Cotton 69% planted, 97% 1990, 97% avg.; 59% emerged, 92% 1990, 91% avg.; 3% very poor, 21% poor, 58% fair, 16% good, 2% excellent. Peanuts 57% planted, 51% 1990, 80% avg. Rice 50% planted, 90% 1990, 97% avg.; 33% emerged, 78% 1990, 92% avg.; 2% very poor, 32% poor, 54% fair, 12% good. Sorghum 54% planted, 88% 1990, 90% avg.; 45% emerged, 85% 1990, 84% avg.; 16% very poor, 8% poor, 64% fair, 12% good. Soybeans 11% planted, 32% 1990, 41% avg.; 9% emerged, 23% 1990, 28% avg. Sweet potatoes 43% planted, 49% 1990, 65% avg. Watermelons 86% planted, 96% 1990, 94% avg. Wheat 83% mature, 67% 1990, 71% avg.; harvested 6%, 7% 1990, 15% avg.; 45% very poor, 36% poor, 12% fair, 6% good, 1% excellent. Hay harvested 12%, 26% 1990, 27% avg. Livestock 11%

fair, 57% good, 32% excellent. Pasture 84% of normal. Activities: Planting row crops.

**MISSOURI:** Temperatures 9° above normal. Rainfall 0.78 in. ranging less than 0.25 in. southwest to mostly over 1.00 in. northern districts.

Days suitable for fieldwork 3.2. Topsoil 42% adequate, 58% surplus. Subsoil 2% short, 61% adequate, 37% surplus. Corn planting 75% complete north central, northeastern districts to 86% or more other major districts. Single crop soybean planting ranges 16% southeastern district to 50% southwestern, east central districts. Rice 85% planted, 30% 1990. Wheat crop outlook continues to decline as diseases intensify. Disease worst in southeast 27% very poor, 55% fair, 18% good. Alfalfa first cutting 44%, 13% 1990, 59% avg. Other hay cut 19%, 6% 1990, 29% avg. Pasture 1% fair, 62% good, 37% excellent.

**MONTANA:** Temperatures below normal west, central. Normal to slightly above normal east. Rain over most of State. Several areas had over 1.00 in.

Days suitable for fieldwork 4.3. Topsoil 5% short, 86% adequate 9% surplus. Subsoil 26% short, 70% adequate, 4% surplus. Winter wheat in boot 19%, 42% 1990, 38% avg. Barley 95% planted, 98% 1990, 97% avg.; emerged 79%, 89% 1990, 87% avg.; 3% poor, 18% fair, 55% good, 24% excellent. Oats planted 92%, 100% 1990, 97% avg.; emerged 70%, 87% 1990, 85% avg.; 2% poor 14% fair, 59% good, 25% excellent. Spring wheat planted 97%, 99% 1990, 98% avg. Corn planted 85%, 89% 1990, 85% avg.; emerged 33%. Dry beans planted 88%, 93% 1990, 96% avg.; emerged 8%. Potatoes planted 62%, 80% 1990, 79% avg. Potatoes emerged 7%. Sugarbeets planted 100%; emerged 90%; 4% poor, 12% fair, 52% good, 32% excellent. Pasture, range 87%. Cattle, calves moved to summer ranges 63%. Sheep, lambs moved 64%.

**NEBRASKA:** Temperatures near normal in the Panhandle to 10° above normal in the east central. Precipitation 0.66 to 5.15 in.

Days suitable for fieldwork 2.7. Topsoil 2% short, 52% adequate, 46% surplus. Subsoil 14% short, 78% adequate, 8% surplus. Wheat 26% fair, 63% good, 11% excellent; 88% headed, 74% 1990, 85% avg.; 1% turned color, 1% 1990, 5% avg. Corn 5% fair, 73% good, 22% excellent; 96% emerged, 85% 1990, 91% avg. Sorghum 74% planted, 54% 1990, 74% avg.; 56% emerged, 21% 1990, 47% avg. Soybeans 82% planted, 63% 1990, 79% avg.; 59% emerged, 22% 1990, 51% avg. Alfalfa 12% first cutting, 13% 1990, 36% avg.; 2% poor, 9% fair, 66% good, 23% excellent. Pasture, range 95% of normal.

**NEVADA:** Temperatures below normal. Extremes 21°; 101°. Precipitation none to 1.25.

Spring wheat 100% planted, 100% 1990, 95% avg.; 95% emerged, 90% 1990, 100% avg. Oats 90% planted, 95% 1990, 90% avg.; 80% emerged, 90% 1990, 90% avg. Barley 100% planted, 95% 1990, 95% avg.; 90% emerged, 95% 1990, 95% avg. Potatoes 95% planted, 90% 1990, 95% avg.; 30% emerged, 85% 1990, 80% avg. Irrigation water supplies 30% very short, 25% short, 45% adequate, mostly from well sources. Irrigating, weed control major activities. First cutting alfalfa continues in southern counties. Livestock good condition; lambing, calving winding down.

**NEW ENGLAND:** Precipitation 0.50 to 1.50 in. north, 0.30 to 1.90 in. south, up to 3.40 in. northwest Connecticut. Temperatures mid 50s northern Maine, low to high 60s elsewhere north, high 60s to mid 70s south; 3 to 11° above normal across the region. Maximum temperatures low 70s north to low 90s south; minimum temperatures mid 30s north to high 50s south.

Days suitable for fieldwork 5.9. Soil moisture 15% very short, 15% short, 68% adequate, 2% surplus. Grazing availability 3% very short, 8% short, 86% adequate, 3% surplus. Fieldwork 7 days ahead of schedule. Maine potatoes 98% planted, 85% 1990, 87% avg.; 22% emerged, 0% 1990, 8% avg.; good. Rhode Island potatoes 98% planted, 83% 1990, 100% avg.; 70% emerged, 43% 1990, 64% avg.; good. Connecticut Valley potatoes 97% planted, 88% 1990, 95% avg.; 77% emerged, 62% 1990, 77% avg.; good. Maine oats 98% planted, 95% 1990, 57% avg.; good to excellent. Field corn 86% planted, 71% 1990, 76% avg.; 64% emerged, 33% 1990, 49% avg.; good. Sweet corn 77% planted, 68% 1990, 72% avg.; 63% emerged, 43% 1990, 51% avg.; good. First cut hay 29% complete; good. Connecticut Valley tobacco 87% transplanted. Apples fruit set average. Apple scab light. Cranberries early blossom stage. Activities: Spraying fruit trees, cutting hay, planting corn, fertilizing, soil preparation.

**NEW JERSEY:** Temperatures much above normal. Extremes 40°; 97°. Rainfall 1.08 in. north, 1.08 central, 0.06 south. Heaviest 24 hour total 1.70 in. on 27th, 28th. Estimated soil moisture percent field capacity, averaged 67% north, 56% central, 21% south. Four inch soil temperature 73° north, 75° central, 77° south.

Iceberg lettuce harvest general. Strawberry picking near peak. Apple peaches, blueberries sizing. June drop in process. Field corn planting about complete. Soybean planting very active. Early field growing well. Barley harvest began. Hay making active.

**NEW MEXICO:** After a warm start, unseasonably cold air moved into the State the last couple of days. Overall, temperatures a couple of degrees above normal in east, 5° below normal in west. Some precipitation.

Days suitable for fieldwork 6.5. Soil moisture 71% short, 25% adequate, 4% surplus. Alfalfa 13% poor, 30% fair, 57% good. Irrigated wheat 7% poor, 33% fair, 60% good. Dryland wheat 25% very poor, 65% poor, 10% good. Irrigated sorghum planting active; dryland sorghum planting behind due to lack of moisture. Some hail damage to wheat on the eastern plains. Cattle, sheep poor to good. Range, pasture 66% of normal, ranging from 15% to 120%.

**NEW YORK:** Temperatures about 10° above normal. Cooler, drier air by weekend. Over an inch of rain from showers to thunderstorms.

Days suitable for fieldwork 5.8. Soil moisture mostly adequate. Corn planting advanced to 85% complete, well ahead of 1990s 54% and the 69% avg. Alfalfa first cutting was 28% finished, clo tim harvest 14% complete. Pastures 87% of normal. Hay, wheat good. Oat harvest virtually finished. Chemical thinning of apple crop nearing completion. Development of crop ahead of normal due to warm weather this spring.

**NORTH CAROLINA:** Temperatures 6 to 12° above normal across the State. Precipitation none to 3.18 in.

Days suitable for fieldwork 5.2. Soil moisture 2% very short, 22% short, 62% adequate, 14% surplus. Crop condition: Wheat 23% fair, 71%

good, 6% excellent; oats 22% fair, 71% good, 7% excellent; rye 24% fair, 73% good, 3% excellent; pasture 1% poor, 13% fair, 68% good, 18% excellent; tobacco 1% poor, 12% fair, 79% good, 8% excellent; corn 4% poor, 15% fair, 73% good, 8% excellent; cotton 17% fair, 73% good, 10% excellent; peanuts 4% fair, 88% good, 8% excellent; soybeans 17% fair, 77% good, 6% excellent; hay 1% very poor, 3% poor, 15% fair, 74% good, 7% excellent; irish potatoes 3% poor, 13% fair, 74% good, 10% excellent; apples 3% fair, 90% good, 7% excellent; peaches 12% fair, 76% good, 12% excellent; truck crops 19% fair, 69% good, 12% excellent. Peanuts planted 99%; soybeans planted 59%; burley tobacco transplanted 75%; sweet potatoes transplanted 65%. Hay first cutting 61%. Activities: Harvesting small grains; transplanting burley tobacco; hay harvest. Other activities: Harvesting truck crops, peaches; transplanting sweet potatoes; cultivating, spraying field crops; tending livestock; equipment repair general farm maintenance.

**NORTH DAKOTA:** Warm scattered showers. Temperatures 4° above normal southwest to 10° above normal northeast, east central, southeast. Extremes 35°; 85°. Precipitation 0.25 in. northeast to 0.93 in. south central.

Days suitable for fieldwork 5.7. Soil moisture improved. Topsoil 9% short, 91% adequate. Subsoil 9% very short, 59% short, 32% adequate. Spring wheat 10% fair, 86% good, 4% excellent; 18% jointing and beyond, 13% 1990, 18% avg. Durum wheat 8% fair, 85% good, 7% excellent; 7% jointing and beyond, 7% 1990, 10% avg. Oats 21% fair, 74% good, 5% excellent; 12% jointing and beyond, 11% 1990, 18% avg. Barley 6% fair, 89% good, 5% excellent; 24% jointing and beyond, 17% 1990, 20% avg. Winter wheat 18% fair, 80% good, 2% excellent; 30% boot and beyond, 18% 1990, 41% avg. Late season crop planting ahead of average. Corn 97% planted, 91% 1990, 89% avg.; flax 92%, 87% 1990, 83% avg.; potatoes 99%, 95% 1990, 95% avg.; soybeans 95%, 93% 1990, 86% avg.; dry beans 95%, 85% 1990, 82% avg.; sunflower 82%, 79% 1990, 71% avg. Pasture 79% of normal, furnished 93% roughage requirements. Stockwater 11% very short, 33% short, 55% adequate, 1% surplus.

**OHIO:** Tropical weather with scattered showers, thunderstorms almost every day. Jet stream was well north, west of State keeping temperatures much warmer than normal. High temperatures averaged in the mid to upper 80s, lows averaged in the mid to upper 60s. Rainfall 0.50 to 2.00 in. bringing above normal precipitation to some parts, below normal to others. Soil temperatures at the 4.00 in. depth under bare soils averaged in the mid to upper 70s.

Days suitable for fieldwork 4.8. Soil moisture 24% short, 63% adequate, 13% surplus. Corn good; emergence 95% compared with 78% 1990, 76% average. Corn replanting in dry areas; isolated flooding and erosion in high rainfall areas. Corn development just emerging to ten leaves unfurled. Soybeans good; 80% emerged compared with 34% 1990, 48% avg. Winter wheat good, coloring rapidly with 10% turning compared with 2% 1990, 3% avg. Cereal leaf beetles working in wheat, oats. Some glume blotch, rust, septoria leaf blight in a few areas. Pasture, hay stands rated good although hot, dry conditions caused some deterioration. High temperatures and humidity also stressed livestock. Tobacco, processing tomato transplanting continued.

**OKLAHOMA:** Temperatures 2° above normal Panhandle to 8° above normal northeast. Precipitation 0.52 in. east central to 4.11 in. southwest.

Days suitable for fieldwork 4.7. Topsoil 13% short, 81% adequate, 6% surplus. Subsoil 25% short, 75% adequate. Wheat 9% very poor, 5% poor, 75% fair, 11% good; 100% heading, 99% 1990, 100% avg.; 91% soft dough, 56% 1990, 82% avg.; 23% harvested, 1% 1990, 5% avg. Cotton 73% planted, 50% 1990, 43% avg.; 20% up to stand, 28% 1990, 26% avg. Sorghum 30% planted, 29% 1990, 40% avg.; 21% up to stand, 11% 1990, 22% avg. Corn 97% planted, 90% 1990, 100% avg.; Soybeans 46% planted, 20% 1990, 47% avg.; 19% up to stand, 3% 1990, 22% avg. Peanuts 34% planted, 41% 1990, 62% avg.; 14% up to stand, 18% 1990, 33% avg. Pasture 85%. Cattle good, marketings average, prices higher.

**OREGON:** Temperatures below normal east, west areas; precipitation 0.10 to 0.20 in. west, 0.40 to 0.70 in. east; 1.25 to 2.30 in. fell, northeast.

Soil moisture 19% short, 67% adequate, 14% surplus. Barley 90% planted, 93% 1990, 96% avg. Wet weather delayed fieldwork east, west. Early vegetable crops growing fairly well, Willamette Valley; snap beans, sweet corn delayed by weather; crops good in Umatilla Co. Seed potato planting start expected weather permitting, Wallowa Co.; 80% complete, Klamath Co.

**PENNSYLVANIA:** Hot, humid conditions finally broke for cooler, dryer conditions at weekend. Temperature 75°, 16° above normal. Extremes 47°; 97°. Precipitation 0.62 in., 0.20 in. below normal.

Days suitable for fieldwork 6. Soil moisture 71% short, 28% adequate, 1% surplus. Plowing 97% complete, 92% 1990, 94% avg. Corn 90% planted, 71% 1990, 74% avg. Soybeans 67% planted, 33% 1990, 41% avg. Oats 100% planted, 97% 1990, 98% avg. Potatoes 95% planted, 82% 1990, 86% avg. Barley 7% pre boot, 14% 1990, 13% avg.; 8% boot, 18% 1990, 12% avg.; 85% heading or headed, 68% 1990, 75% avg. Wheat 6% pre boot, 12% 1990, 13% avg.; 14% boot, 27% 1990, 25% avg.; 80% heading or headed, 61% 1990, 62% avg.; 1% very poor, 4% poor, 18% fair, 54% good, 23% excellent. Oats 1% very poor, 5% poor, 23% fair, 51% good, 20% excellent. Hay stands mostly good. Alfalfa first cutting 56% complete, 21% 1990, 29% avg. Quality of hay made 1% poor, 24% fair, 75% good. Feed from pastures 1% very poor, 8% poor, 46% fair, 45% good. Activities: Spring plowing, planting; harvesting hay; caring for livestock.

**PUERTO RICO:** Island rainfall 0.66 in. was 0.79 in. below normal. Highest rainfall 1.55 in. at LaJas Aes, 1.51 in. at Borinquen Airport, 1.30 in. at Mayaguez. Highest 24 hour total 1.50 in. at Lajas Eas. Divisional temperatures 80° on the Coast, 72 to 75° in Interior with mean station temperature 65.2° at Pico Del Este Luquillo to 83.3° Guayama. Extremes 55°; 93°.

**SOUTH CAROLINA:** Temperatures 6 to 9° above normal. Rainfall 0.30 in. northeast to 2.60 in. mountains.

Days suitable for fieldwork 4.7. Soil moisture 12% short, 81% adequate, 7% surplus. Cotton 37% fair, 63% good; 95% planted, 96% 1990, 97% avg. Peanuts fair to good; 98% planted, 96% 1990, 91% avg. Sweet potatoes fair to good; 74% planted, 83% 1990, 52% avg. Watermelons fair to good; 92% planted, 91% 1990, 95% avg. Snap beans fair to good; 76% planted, 84% 1990, 90% avg. Soybeans 32% planted, 49% 1990, 42% avg. Sorghum 44%

planted, 55% 1990, 48% avg. Barley fair to good; 90% turning color, 84% 1990, 84% avg.; 57% ripe, 60% 1990, 46% avg.; 16% harvested, 21% 1990, 16% avg. Oats fair to good; 96% turning color, 97% 1990, 92% avg.; 75% ripe, 74% 1990, 64% avg.; 23% harvested, 33% 1990, 20% avg. Rye fair to good; 88% turning color, 86% 1990, 87% avg.; 71% ripe, 61% 1990, 56% avg.; 20% harvested, 21% 1990, 15% avg. Wheat fair to good; 98% turning color, 100% 1990, 94% avg.; 81% ripe, 78% 1990, 62% avg.; 21% harvested, 32% 1990, 19% avg. Grain hay fair to good; 71% harvested, 87% 1990, 83% avg. Pastures fair to good.

**SOUTH DAKOTA:** Wet. Rainfall 1.00 to 4.00 in., largest amount 4.09 in. Rainfall above normal for year except northwest. Rainfall 1.62 in. below to 9.01 in. above normal. Temperatures slightly above normal. Extremes 32°; 94°.

Days suitable for fieldwork 2.2. Topsoil 1% short, 54% adequate, 45% surplus. Subsoil 14% short, 69% adequate, 17% surplus. Rye 1% poor, 4% fair, 56% good, 39% excellent. Oats 3% fair, 66% good, 31% excellent. Barley 1% fair, 65% good, 84% excellent. Flax 16% fair, 65% good, 19% excellent. Livestock 2% fair, 64% good, 34% excellent. Pasture 100% of normal.

**TENNESSEE:** Very hot, humid week. Scattered thunderstorms brought in excess of 14.00 in. rain some locations. Temperatures 5 to 10° above normal statewide.

Days suitable for fieldwork 3.3. Soil moisture 2% short, 55% adequate, 43% surplus. Corn 70% planted, 88% 1990, 96% avg.; 1% tasseling, 1% 1990, 1% avg.; 5% very poor, 10% poor, 40% fair, 41% good, 4% excellent. Cotton 50% planted, 90% 1990, 98% avg.; 14% very poor, 24% poor, 44% fair, 18% good. Sorghum 26% planted, 52% 1990, 76% avg.; 5% very poor, 8% poor, 49% fair, 38% good. Soybeans 8% planted, 19% 1990, 44% avg. Tobacco 58% transplanted, 70% 1990, 69% avg.; 1% very poor, 2% poor, 33% fair, 63% good, 1% excellent. Wheat 84% turning color, 77% 1990, 83% avg.; 22% ripe, 9% 1990, 25% avg.; 12% very poor, 31% poor, 31% fair, 24% good, 2% excellent. Alfalfa 62% 1st cutting, 82% 1990, 91% avg.; hay 1% very poor, 5% poor, 20% fair, 61% good, 13% excellent. Pastures 2% fair, 55% good, 43% excellent.

**TEXAS:** Early week period primarily warm, dry. Upper air disturbances produced thunderstorms over southeast, eastern High Plains at midweek. Dry line, upper air disturbance triggered strong thunderstorms over much of west, north part of State late in weekend. Temperatures near to above normal statewide. Rainfall ran above normal for Plains areas, below normal elsewhere. All districts but Lower Rio Grande Valley rain.

**Crops:** Small grain harvest full swing. Mostly open weather conditions allowed harvest to gain momentum across Low Plains, Cross Timbers. Irrigated yields continued better than earlier expected. Corn fields no longer stressed by excessive moisture. Most fields across State made excellent progress last week under hot, drying weather patterns. Corn 45% silked, 14% 1990, 33% avg.; 2% doughed, 2% 1990, 8% avg. Most sorghum fields continued good progress last week. Early midge infestations becoming a concern to some Coastal Bend producers. South Texas fields beginning to mature as heading, blooming continued northwards. Sorghum 32% headed, 23% 1990, 27% avg.; 3% turning color, 1% 1990, 3% avg.; 79% of normal compared with 84% 1990. Cotton planting continued advancement across State. Stands in

other areas good shape. Cotton 5% setting bolls, 4% 1990, 4% avg. Rice fields good progress. Rice 0% headed, 0% 1990, 1% avg. Soybean planting Upper Coast. Early stands in Blacklands began to bloom, set pods. Other Field Crops: Oats 23% harvested, 20% 1990, 28% avg. Peanuts 21% planted, 28% 1990, 30% avg. Soybeans 55% planted, 59% 1990, 49% avg. Sunflowers 33% planted, 39% 1990, 29% avg.

**Commercial Vegetables:** Rio Grande Valley, melon, pepper harvest continued good yields. San Antonio Winter Garden, fungus, disease problems increasing. Melon crops continued to set fruit. East Texas, wet conditions increased fungus, weeds beginning to be a problem. High Plains, potatoes, onions, sweet corn, carrots continued good progress. Melon planting made good progress. Trans Pecos, onion, cabbage harvest continued with good progress. Lettuce harvest about complete. Chile plants beginning to flower.

**Range and Livestock:** Range, pasture conditions continued improvement across State. Open conditions allowed haying activities to continue full swing. Brush control practices active some parts of Central Texas. Livestock remained fair to good. Range, pasture 1% very poor, 9% poor, 41% fair, 38% good, 11% excellent.

**UTAH:** Unusually heavy precipitation west desert. Heavy in all mountainous regions of the State, heavy to moderate elsewhere, except light in the south. Temperature maximums approximated 3° less than normal, minimums averaged in the normal range throughout the State.

Days suitable for fieldwork 4.3. Soil moisture 26% short, 39% adequate, 35% surplus. Winter wheat 60% jointed, 86% 1990; 47% booted, 74% 1990, 73% avg.; 16% headed, 67% 1990, 53% avg. Spring wheat 49% jointed; 21% booted, 64% 1990, 50% avg.; heading just underway. Barley 65% jointed; 52% booted, 64% 1990, 57% avg.; 8% headed, 33% 1990, 25% avg. Oats 83% emerged, 100% 1990, 100% avg.; 34% jointed, 59% 1990, 56% avg.; 9% booted, 34% 1990, 27% avg. Corn 90% planted, 100% 1990, 100% avg.; 47% emerged, 87% 1990, 77% avg.; height 2.5 in., 5.1 in. 1990, 5.1 in. avg. Potatoes 92% planted, 100% 1990, 100% avg. Alfalfa first cutting 6% cut, 36% 1990, 38% avg. Cattle moved to summer range 51%, 78% 1990, 60% avg. Sheep moved to summer range 30%, 86% 1990, 55% avg. Pasture, range good to excellent.

**VIRGINIA:** Temperatures 11° above normal. Norfolk 100° for the extreme high. Afternoon, evening thunderstorms were scattered across the State. Many areas received no precipitation.

Days suitable for fieldwork 6.2. Topsoil 18% very short, 34% short, 42% adequate, 6% surplus. Corn 94% planted, 96% 1990, 89% avg.; 18% poor, 39% fair, 32% good, 11% excellent. Soybeans 42% planted, 42% 1990, 35% avg.; 5% very poor, 31% poor, 46% fair, 12% good, 6% excellent. Peanuts 100% planted, 100% 1990, 100% avg. Flue tobacco 100% transplanted, 100% 1990, 86% avg. Fire tobacco 95% transplanted, 85% 1990, 65% avg. Burley tobacco 60% transplanted, 46% 1990, 27% avg. Sun tobacco transplanting completed. Tobacco mostly good. Barley 20% harvested, 0% 1990, 0% avg. Pasture 1% very poor, 16% poor, 29% fair, 24% good, 30% excellent.

**WASHINGTON:** Temperatures 2 to 8° below normal east; 2° above normal to 8° below normal west. Precipitation none to 0.15 in. east; 0.18 to 1.05 in. west.

Days suitable for fieldwork 5.9. Soil moisture 46% short, 53% adequate, 1% surplus. Hay, other roughage 3% short, 97% adequate. Range, pasture

10% very poor, 28% poor, 23% fair, 39% good. Wheat 34% poor, 37% fair, 29% good. Barley 3% poor, 78% fair, 19% good. Potato 3% fair, 97% good. Dry bean 5% poor, 37% fair, 58% good. Corn 64% fair, 36% good. Winter wheat headed 36%. Spring wheat planted 100%; emerged 98%; headed 18%. Spring barley emerged 99%; headed 28%. Potatoes planted 100%; emerged 89%. Dry beans planted 70%. Corn planted 88%. Alfalfa hay, 1st cutting 35%. Pastures in western areas excellent, while northeastern portions of the State good.

**WEST VIRGINIA:** Temperature 76°. Extremes 57°; 95°. Precipitation 1.05 in.

Days suitable for fieldwork 5.9. Soil moisture 4% very short, 88% short, 8% adequate. Wheat, good. Barley, good. Corn good, 93% planted, 80% emerged. Oats good, 95% emerged. Gardens, 6% poor, 35% fair, 53% good, 6% excellent; 77% planted, 64% emerged. Tobacco 28% poor, 35% fair, 37% good, 100% emerged, 54% set. Hay 6% fair, 94% good, 42% first cutting. Pastures 38% fair, 59% good, 3% excellent; 101% of normal. Cattle, sheep good. Activities: General maintenance, fencing, cutting hay, planting corn.

**WISCONSIN:** Temperature 71°, 9° above normal. Extremes 48°; 95°. Precipitation 0.80 to 3.10 in. Severe storms caused damage across many northern counties on 28th, 29th.

Days suitable for fieldwork 2.7. Soil moisture 2% short, 33% adequate, 65% surplus. Pasture 89% of normal, 84% 1990, 79% avg. General condition of crops 2% poor, 6% fair, 71% good, 21% excellent. Winter wheat 2% poor, 9% fair, 65% good, 24% excellent. Corn 1% very poor, 11% fair, 64% good, 24% excellent; 89% planted, 87% 1990, 94% avg.; height 5 in., 2 in. 1990, 4 in. avg. Soybeans 72% planted, 48% 1990, 72% avg. First crop hay 8% harvested, 7% 1990, 13% avg.

**WYOMING:** Temperatures below normal. Precipitation above normal.

Days suitable for fieldwork 3.0. Topsoil 67% adequate, 33% surplus. Subsoil 3% short, 82% adequate, 15% surplus. Spring wheat 80% emerged, 90% 1990, 90% avg. Oats 80% emerged, 85% 1990, 80% avg. Barley 90% emerged, 95% 1990, 90% avg. Sugarbeets 80% emerged, 95% 1990, 95% avg.; 15% thinned. Corn 80% planted, 95% 1990, 90% avg.; 50% emerged, 50% 1990, 55% avg. Potatoes 90% planted, 80% 1990, 80% avg.; 40% emerged, 60% 1990, 50% avg. Dry beans 30% planted, 45% 1990, 45% avg.; 5% emerged, 10% 1990, 10% avg. Winter wheat fair to good. Livestock good to excellent. Calf, lamb losses light to normal. Ranges, pastures good to excellent. Livestock moved to summer ranges; cattle 50%, sheep 50%. Stockwater 100% adequate.

May 1991

MONTHLY DATA FROM SELECTED FOREIGN CITIES  
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA

\*\*\* = DATA NOT AVAILABLE

International Weather and Crop Summary  
HIGHLIGHTS

May 26 - June 1, 1991

USSR ... In Western USSR, wet weather continues to provide ample moisture for crops but unusually cool weather slows growth rates. In the New Lands, persistent warm, dry weather is creating unfavorable conditions for spring grain planting and plant establishment.

EUROPE ... Beneficial showers help corn emergence in southern France, but cool, wet weather slows crop growth in the east.

EASTERN ASIA ... Moisture conditions remain favorable for winter wheat and rice.

SOUTHEAST ASIA ... Widespread, much needed rain benefits Thailand's main rice and corn areas.

SOUTH AMERICA ... Mostly dry weather enables corn and soybean harvesting across central Argentina and southern Brazil.

AUSTRALIA ... Western and southeastern wheat areas receive beneficial rains to boost topsoil moisture for winter wheat planting.

CANADA ... Showers and warm weather benefit emerging spring wheat in the southeastern Prairies.

MEXICO ... Beneficial rains fall across the eastern corn belt.

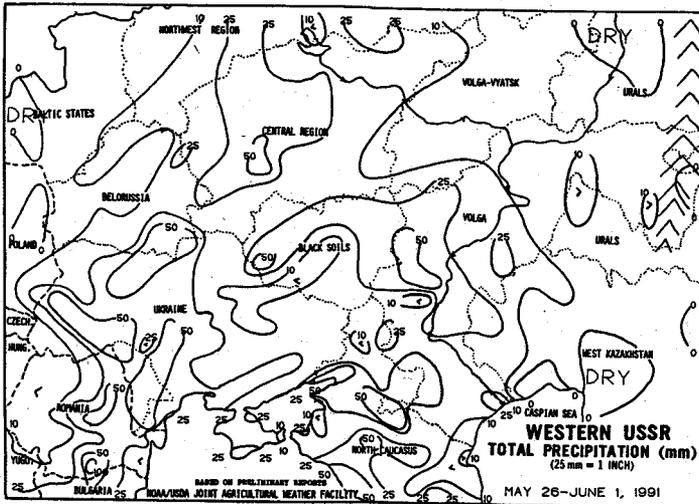
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG	AVG	HI	LO	DPART	F/NRM	TOTAL	DPART
		MAX	MIN	MAX	MIN	AVG	F/NRM		F/NRM
NORWAY	OSLO	15	4	24	-2	10	0.5	5	-57
SWEDEN	STOCKHOLM	12	4	19	-2	8	-1.8	59	29
FINLAND	HELSINKI	13	3	17	-4	8	-1.5	32	-2
U KING	GLASGOW	16	7	22	-1	11	0.1	8	-63
	EDINBURGH	15	7	21	1	11	1.1	17	-34
	BIRMINGHAM	15	7	24	-1	11	0.3	17	-39
	LONDON	15	6	23	-1	11	-0.5	20	-36
IRELAND	DUBLIN	16	8	22	4	12	1.2	4	-54
ICELND	REYKJAVIK	9	5	16	1	7	0.4	121	81
DENMRK	COPENHAGEN	14	6	22	1	10	-2.0	14	-28
LUXEMB	LUXEMBOURG	16	6	25	1	11	-1.7	11	-55
SWITZL	ZURICH	14	6	24	1	10	-2.4	142	41
	GENEVA	17	6	26	-1	11	-2.0	32	-37
FRANCE	PARIS	17	7	25	2	12	-1.7	4	-50
	STRASBOURG	17	6	26	0	12	-1.9	28	-34
	BOURGES	17	7	26	1	12	-1.4	16	-56
	BORDEAUX	20	10	29	5	15	0.6	42	-28
	TOULOUSE	18	9	28	5	13	-1.2	44	-29
	MARSEILLE	20	10	27	6	15	-1.5	5	-38
SPAIN	VALLADOLID	20	6	29	-2	13	-0.6	10	-34
	MADRID	23	8	30	-1	15	-1.2	0	-40
	SEVILLE	28	14	34	8	21	0.8	11	-24
GERMNY	LEIPZIG	15	6	24	2	10	-2.5	27	-24
	DRESDEN	14	6	23	1	10	-3.1	60	-3
	HAMBURG	14	6	23	0	10	-2.0	36	-18
	BERLIN	15	7	24	3	11	-2.8	49	-5
	DUSSELDORF	16	7	24	0	11	-2.6	30	-30
	STUTTGART	14	5	23	-2	10	-3.1	54	-25
	NURNBERG	15	5	24	0	10	-3.1	41	-19
	MUNICH	14	5	22	1	9	-2.7	131	32
AUSTRI	VIENNA	16	8	23	3	12	-3.3	159	97
	INNSBRUCK	15	5	26	1	10	-3.4	139	54
CZECH	PRAGUE	14	5	23	-1	9	-3.1	36	-31
POLAND	WARSAW	16	6	22	-1	11	-2.0	44	-9
	LODZ	15	5	24	0	10	-3.1	46	-5
	KATOWICE	14	5	23	-2	10	-3.1	90	22
	PRZEMYSL	15	7	22	1	11	-2.3	130	59
HUNGAR	BUDAPEST	18	9	23	3	13	-2.7	54	5
YUGOSL	SARAJEVO	16	7	24	2	11	-2.3	114	30
ROMANI	BUCHAREST	20	9	27	5	14	-2.4	104	32
BULGAR	SOFIA	17	8	26	3	12	-2.4	117	35
ITALY	MILAN	19	8	28	1	14	-2.9	67	-20
	VERONA	19	9	27	5	14	-2.9	130	49
	VENICE	18	11	23	8	14	-2.3	120	50
	GENOA	19	12	25	5	15	-2.5	104	-4
	ROME	19	10	23	6	15	-2.7	82	44
	NAPLES	20	11	24	6	15	-1.7	113	61
GREECE	THESSALONIKA	21	11	26	7	16	-3.1	57	8
	LARISSA	22	10	27	5	16	-3.9	63	22
	ATHENS	22	14	25	4	18	-2.8	32	11
TURKEY	ISTANBUL	19	13	23	10	16	0.0	88	58
	ANKARA	18	5	25	-1	12	-4.9	54	12
CYPRUS	LARNACA	26	15	29	10	20	-0.1	0	-11
USSR	TALLINN	12	3	16	-3	7	-1.5	46	8
	LENINGRAD	14	6	21	0	10	0.0	47	9
	KAUNAS	16	6	23	2	11	-1.4	51	-2
	MINSK	15	7	22	2	11	-1.2	85	24
	KAZAN	21	9	30	-1	15	2.1	27	-11
	MOSCOW	19	9	27	-2	14	1.2	52	-9
	SVERDLOVSK	22	7	30	-7	14	2.8	22	-20
	OMSK	22	8	33	-3	15	2.9	2	-25
	KUSTANAY	24	9	33	-4	17	2.7	0	-23
	KRASNOYARSK	15	4	31	-10	9	0.1	59	16
	NOVOSIBIRSK	18	6	31	-6	12	2.7	23	-10
	BARNAUL	18	7	32	-7	13	0.7	45	9
	KHABAROVSK	19	7	28	-3	13	1.2	88	26
	VLADIVOSTOK	16	8	24	2	12	2.9	20	-54
	KIEV	17	9	23	5	13	-1.7	114	62
	LVOV	15	7	22	0	11	-1.8	172	100
	KIROVOGRAD	19	8	24	1	14	-1.5	76	28

Based on Preliminary Reports

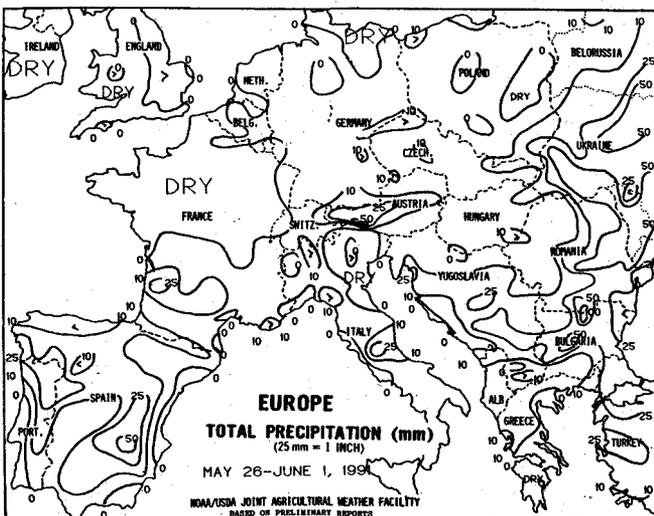
May 1991

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			DPART F/NR/M
		AVG MAX	AVG MIN	HI	LO	AVG	DPART F/NR/M	TOTAL		
USSR	ODESSA	17	11	22	9	14	-0.9	72	28	
	YALTA	18	11	24	9	15	-1.6	78	53	
	VORONEZH	20	9	27	-2	15	0.0	73	22	
	SARATOV	22	12	29	1	17	1.9	7	-37	
	KHARKOV	18	10	26	3	14	-1.5	110	63	
	VOLGOGRAD	22	11	30	1	17	0.0	35	3	
	ROSTOV	20	11	26	2	15	-1.7	105	55	
	ASTRAKHAN	23	13	30	5	18	-0.5	48	28	
	KRASNODAR	20	11	27	3	16	-1.5	96	33	
	ORENBURG	24	10	31	-1	17	1.1	20	-8	
	TSELINOGRAD	23	8	33	-3	16	3.0	6	-21	
	KARAGANDA	21	6	36	-5	14	0.4	55	24	
	TBILISI	21	12	26	8	16	-1.3	53	-25	
	TASHKENT	27	14	33	4	20	0.1	66	22	
	ASHKHABAD	28	15	41	10	22	-1.4	27	-1	
SYRIA	DAMASCUS	28	12	34	6	20	-1.0	4	-1	
ISRAEL	JERUSALEM	24	14	35	8	19	-0.8	4	0	
PAKIST	KARACHI	34	26	38	18	30	-0.3	0	0	
INDIA	AMRITSAR	37	21	42	15	29	-0.9	0	-14	
	NEW DELHI	40	26	47	22	33	0.1	20	3	
	AHMEDABAD	42	27	45	23	34	0.4	0	-6	
	INDORE	41	25	44	22	33	0.9	1	-9	
	CALCUTTA	35	27	38	22	31	-0.2	0	-82	
	VERAVAL	32	24	39	22	28	-0.6	0	-2	
	BOMBAY	34	27	37	26	31	0.8	0	-20	
	POONA	38	23	42	19	30	0.4	4	-42	
	BEGAMPET	40	28	43	21	34	1.5	0	-38	
	MADRAS	38	28	42	27	33	0.4	0	-45	
	MANGALORE	34	25	35	22	29	0.3	33	-200	
H KONG	HONG KONG	29	25	33	18	27	1.1	63	-241	
N KREA	PYONGYANG	21	8	29	1	15	0.4	88	11	
S KREA	SEOUL	23	13	31	8	18	1.7	85	-1	
JAPAN	SAPPORO	19	10	28	2	14	2.2	25	-35	
	NAGOYA	24	15	32	6	19	1.0	100	-62	
	TOKYO	23	16	28	8	19	0.8	61	-87	
	YOKOHAMA	22	15	27	8	19	0.8	65	-99	
	KYOTO	24	15	33	5	19	1.7	115	-28	
	OSAKA	23	16	31	8	20	0.7	106	-35	
THAILN	PHETCHABUN	37	26	40	24	31	1.5	120	-31	
	BANGKOK	35	26	38	23	31	1.0	214	29	
MALAYS	KUALA LUMPUR	32	24	34	22	28	1.0	459	262	
VIETNM	HANOI	32	24	38	18	28	0.2	180	-15	
CHINA	HARBIN	22	9	32	1	15	1.6	24	-13	
	HAMI	28	10	36	-1	19	-1.5	0	-2	
	LANCHOW	23	10	32	1	17	0.1	67	31	
	BEIJING	25	14	34	5	20	-0.4	55	22	
	TIENTSIN	25	15	33	6	20	-0.5	53	22	
	LHASA	21	6	26	2	13	0.8	15	-6	
	KUNMING	24	15	28	7	19	0.3	22	-71	
	CHENGCHOW	24	14	33	6	19	-2.1	100	57	
	YEHCHANG	24	17	32	11	21	-1.0	134	-2	
	HANKOW	24	17	35	8	21	-1.1	213	51	
	CHIHKIANG	25	17	35	9	21	0.1	109	-127	
	SHANGHAI	23	16	35	10	20	0.7	63	-59	
	NANCHANG	26	19	35	9	22	0.0	262	-40	
	TAIPEI	30	24	37	16	27	2.7	73	-146	
	CANTON	30	24	35	17	27	1.2	185	-91	
	NANNING	31	23	36	16	27	1.0	67	-120	
CNRY I	LAS PALMAS	23	17	27	15	20	-0.1	1	-3	
MOROCC	CASABLANCA	22	13	30	7	18	-0.3	2	-17	
	MARRAKECH	28	13	39	8	20	0.1	0	-22	
ALGERI	ALGER	22	9	27	3	15	-2.7	30	-5	
	BATNA	20	5	27	-1	13	-3.2	15	-24	
TUNISI	TUNIS	22	11	29	7	17	-2.3	16	-10	
NIGER	NIAMEY	37	27	43	23	32	-1.4	80	45	
MALI	TIMBUKTU	40	28	43	21	34	-0.4	5	0	
	BAMAKO	38	27	44	23	32	1.2	21	-35	
MAURIT	NOUAKHOTT	31	19	44	16	25	-1.1	0	0	
SENEGL	DAKAR	25	19	32	17	22	-1.3	0	-1	
CHAG A	DIEGO GARCIA	30	27	32	22	29	1.2	177	-13	
LIBYA	TRIPOLI	26	14	39	8	20	-1.9	30	25	
	BENGHAZI	26	16	36	11	21	-1.3	8	5	
EGYPT	CAIRO	32	19	43	14	25	0.5	2	0	
	ASWAN	39	26	45	19	32	1.2	0	0	
ETHIOP	ADDIS ABABA	26	11	28	9	19	0.1	39	-38	
KENYA	NAIROBI	24	15	27	13	20	0.4	200	73	
TANZAN	DAR ES SALAAM	29	22	31	19	25	-0.1	271	106	
GABON	LIBREVILLE	29	22	29	22	***	*****	30	-238	
TOGO	LOME	31	24	38	23	28	0.6	156	8	
B FASO	OUAGADOUGOU	34	26	40	20	30	-1.5	229	143	
IVRY C	ABIDJAN	30	25	32	22	28	0.6	304	-19	
MOZAMB	MAPUTO	28	17	34	13	22	1.3	21	-8	
ZAMBIA	KAEWE	26	13	27	10	19	1.4	1	-4	
ZIMBAB	HARARE	24	11	26	7	17	1.6	3	-9	
S AFRI	PRETORIA	23	9	28	4	16	2.1	7	-14	
	KROONSTAD	23	3	28	-3	13	0.6	0	-23	
	JOHANNESBURG	20	6	24	1	13	1.1	5	-16	
	BETHAL	20	2	24	-3	11	-0.3	3	-16	
	DURBAN	26	15	28	10	21	1.8	62	5	
	CAPE TOWN	22	10	31	2	16	2.2	91	15	
CANADA	TORONTO	22	10	31	1	16	4.1	84	18	
	MONTREAL	21	9	31	2	15	2.0	91	26	
	WINNIPEG	20	9	31	-3	15	3.4	69	3	
	REGINA	18	6	29	-4	12	1.1	82	35	
	SASKATOON	18	5	28	-4	12	0.6	73	33	
	LETHBRIDGE	17	5	27	-4	11	-0.1	56	6	
	CALGARY	15	4	24	-8	10	0.0	96	48	
	EDMONTON	18	6	26	-3	12	0.4	95	53	
	VANCOUVER	16	9	20	6	12	0.2	61	9	
MEXICO	GUADALAJARA	31	18	35	13	24	1.1	0	-27	
	MEXICO CITY	25	17	29	11	21	2.6	7	-45	
	ACAPULCO	32	27	35	22	29	0.9	0	-32	
BERMUD	ST. GEORGES	25	20	27	12	23	0.8	12	-90	
BAHAMA	NASSAU	30	23	31	19	27	1.4	31	-86	
CUBA	HAVANA	27	24	27	24	26	0.0	8	-107	
JAMAIC	KINGSTON	32	25	34	23	29	0.9	76	-19	
P RICO	SAN JUAN	31	24	33	23	27	0.6	82	-67	
GUADEL	RAIZET	31	23	32	21	27	1.0	41	-55	
MARTINQ	LAMENTIN	31	25	32	22	28	1.9	25	-78	
BARBAD	BRIDGETOWN	30	25	31	22	28	0.3	22	-33	
TRINID	PORT OF SPAIN	33	24	34	22	28	1.2	25	-86	
COLOMB	BOGOTA	19	10	22	5	15	1.1	165	80	
VENEZU	CARACAS	31	25	32	23	28	1.1	1	-32	
F GULA	FOYENNE	30	24	31	22	27	1.4	444	-142	
BRAZIL	FORTALEZA	30	24	32	23	27	0.3	144	-139	
	RECIFE	29	23	30	22	26	0.6	524	212	
	BELO HORIZONTE	25	17	28	15	21	1.1	18	-7	
	CAMPO GRANDE	28	18	32	13	23	2.7	38	-43	
	FRANCA	25	18	27	16	21	2.8	11	-29	
	RIO DE JANEIRO	26	21	31	20	23	0.6	125	39	
	LONDRINA	25	14	29	11	20	1.5	53	-38	
	SANTA MARIA	23	14	31	6	18	1.9	53	-110	
	PORTO ALEGRE	24	12	32	4	18	1.2	19	-96	
PERU	LIMA	23	17	26	13	20	1.1	3	2	
BOLIVI	LA PAZ	15	-1	16	-3	7	-1.2	21	7	
CHILE	SANTIAGO	20	7	28	0	14	2.5	44	0	
ARGENT	IGUAZU	25	15	30	11	20	***	104	***	
	FORMOSA	26	16	32	10	21	2.2	115	-2	
	CERES	22	12	30	3	17	1.1	129	97	
	CORDOBA	22	10	37	2	16	1.6	65	42	
	RIO CUARTO	19	10	25	3	15	1.6	35	11	
	ROSARIO	20	11	29	2	16	2.3	307	262	
	BUENOS AIRES	21	10	27	2	16	2.7	56	-21	
	SANTA ROSA	19	8	26	-1	13	2.0	43	20	
	TRES ARROYOS	17	7	22	1	12	1.6	76	17	
MIDW I	MIDWAY ISLAND	25	21	27	18	23	1.3	36	-74	
N CALD	NOUMEA	24	19	25	17	22	-0.6	54	-40	
FIJI	NAUSORI	27	22	29	19	24	0.0	84	-175	
SAMOA	PAGO PAGO	30	25	33	23	28	0.9	273	-8	
TAHITI	PAPEETE	31	23	33	20	27	1.5	88	-18	
N ZEAL	AUCKLAND	17	10	19	6	14	-0.4	54	-64	
PA N G	PORT MORESBY	29	23	31	21	26	-0.9	56	-9	
AUSTRAL	DARWIN	32	22	33	19	27	-0.2	1	-23	
	MOREE	22	11	28	7	17	2.0	177	138	
	BRISBANE	23	16	27	14	19	0.7	83	2	
	PERTH	21	12	30	6	16	0.3	90	-19	
	CEDUNA	20	9	26	3	15	0.3	21	-23	
	ADELAIDE	18	8	23	4	13	-1.1	12	-51	
	MELBOURNE	16	7	22	3	12	-0.8	15	-43	
	WAGGA	19	5	25	1	12	0.8	7	-48	
	CANBERRA	16	4	22	-1	10	1.2	32	-14	
PHILIP	MANILA	35	26	37	21	30	0.7	92	-33	

Based on Preliminary Reports



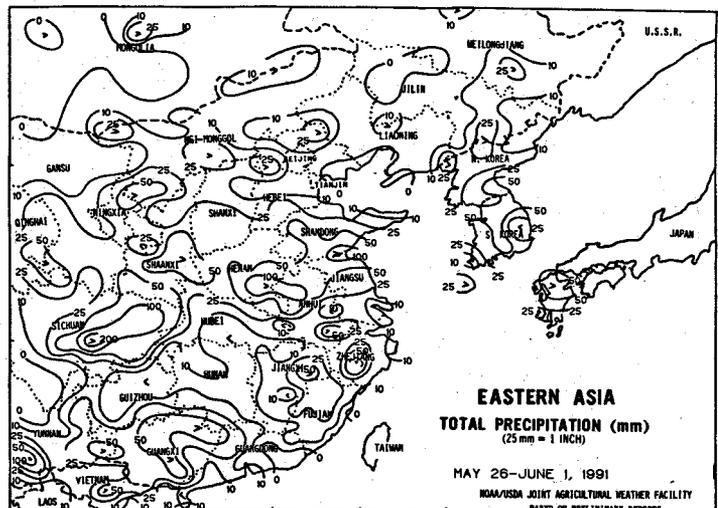
**USSR** ... In Western USSR, unseasonably cool, wet weather covered most crop areas. Precipitation amounts varied, with greatest rainfall (25-88mm) covering crop areas in the western portion of the Central Region, eastern Belorussia, Moldova, the western Ukraine, the lower Volga, a large portion of the Black Soils Region, and the North Caucasus. Persistent wetness in the western Ukraine, Belorussia, and the western portion of the Central Region has saturated soils, delaying summer crop planting. Unseasonably cool weather continued over western and southern areas where weekly average temperatures ranged 3-5 degrees Celsius (C) below normal. While the wet conditions have been overall beneficial for crop growth, persistent cool weather has slowed growth rates of winter grains, spring barley, corn, sugar beets, and sunflowers, especially in western areas.



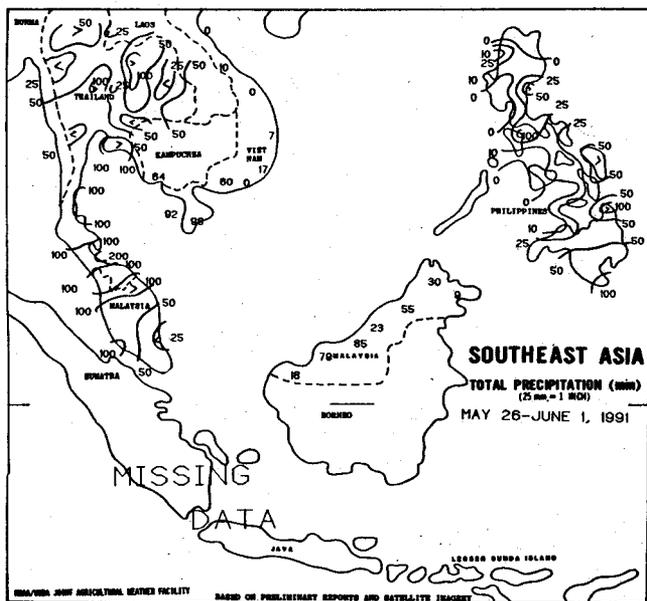
**EUROPE** ... Dry weather continued over the United Kingdom and northern France. Beneficial showers fell in southwestern France and much of the Iberian peninsula, and helped immature winter grains and early summer crop growth. Weekly temperatures averaged 2-5 degrees C above normal in the west. Very light showers (less than 5mm) fell across northern and central Europe, and extended into Italy. Heavier rain (25-50mm) maintained wet field conditions in eastern Romania, Bulgaria, and southern Yugoslavia. Below-normal temperatures accompanied the wet weather in the southeast. Cool weather also slowed crop development in the northeast.



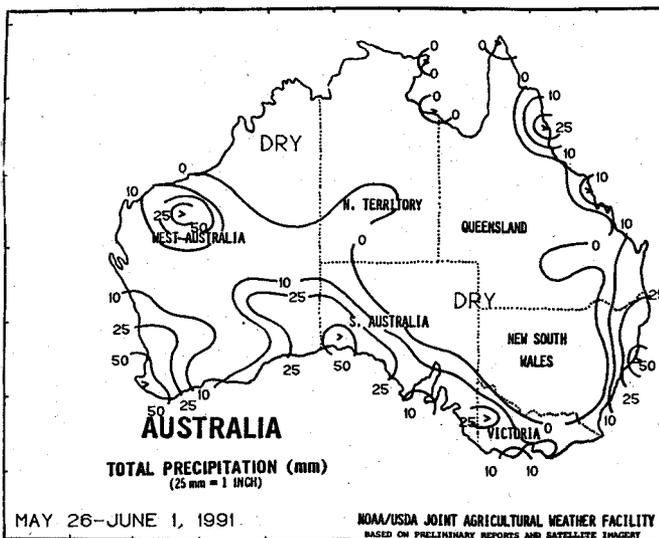
In the New Lands, unseasonably warm, dry weather continued over most spring grain areas, except for those in the extreme east where showers were accompanied by generally cool weather. Little, if any precipitation (mostly less than 5mm) covered the Urals, most of West Siberia, and Kazakhstan, continuing a dry weather pattern, which has persisted since early April. The dry weather in these areas has been accompanied by periodic heat, further reducing soil moisture to unfavorably low levels for spring grain planting and early plant establishment. Historically, the affected areas account for about 85 percent of total spring wheat production. By week's end, cooler weather from Western USSR spread eastward into the Urals, lowering heat stress but was accompanied by little precipitation.



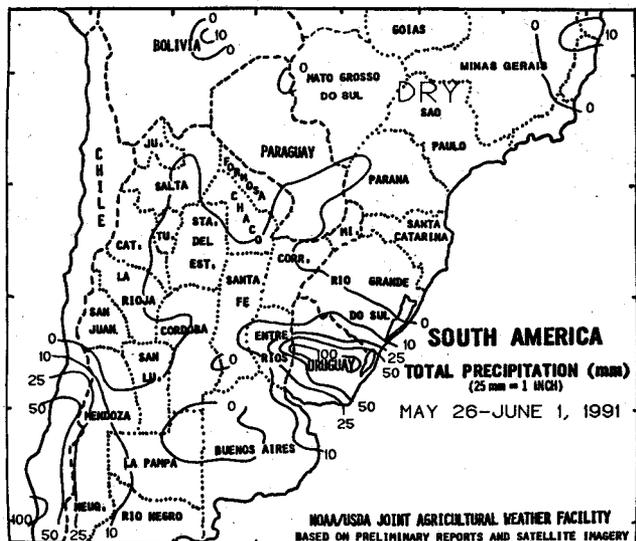
**EASTERN ASIA** ... Portions of Manchuria received moderate rains (10-25mm), which aided germination of spring wheat. Moderate to heavy rains (25-61mm) again fell across the North China Plain, with heavier amounts (95-114mm) in Jiangsu, northern Anhui, and southeastern Henan; these rains caused local flooding and lodged winter grains. Heavy rains (62-265mm) also fell in the rice regions of eastern Sichuan, causing local flooding. Drier weather prevailed across the Yangtze Valley, providing early double-crop rice with needed sunlight. Moisture conditions remained favorable across southern China, which received mostly scattered showers (12-56mm). Guangxi received beneficial rains (19-77mm), easing long-term dryness. Temperatures ranged from 3 to 7 degrees C below normal in the North China Plain and 2 to 4 degrees C above normal across the southern provinces.



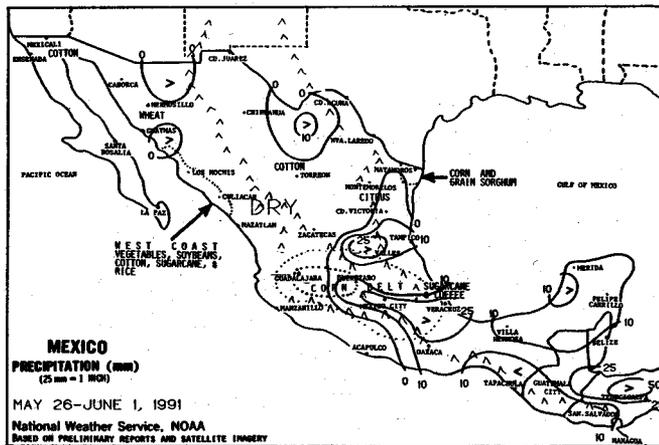
**SOUTHEAST ASIA** ... Moderate to heavy showers (25-158mm) covered most of Thailand's primary rice and corn areas, providing much-needed topsoil moisture for normal crop growth. The widespread rain, associated with the onset of the Southwest monsoon, brought moderating temperatures to the region, although seasonable warmth maintained high moisture demands on the vegetative crops. The heavy rains (50-200mm or more) extended southward along the Malay Peninsula, benefiting Thailand's plantation crops but causing some local flooding. Moderate to heavy showers (25-50mm or more) fell over southern Luzon, Mindanao, and the eastern Visayan islands but missed most main season crop areas along the western half of the Philippines. More rain is needed soon in primary rice and sugarcane areas of the western Visayans to prevent losses in yield potential due to the delayed start of the rainy season.



**AUSTRALIA** ... Drier weather throughout Queensland and northern New South Wales permitted wheat planting after the beneficial rains last week. A frontal system brought light to moderate rains (10-25mm) to the winter wheat areas of Western and Southern Australia and Victoria, boosting topsoil moisture for planting. However, central and southern New South Wales received little or no rain, further delaying wheat planting.



**SOUTH AMERICA** ... Little or no precipitation fell across central Argentina and southern Brazil, enabling corn and soybean harvesting to progress after a couple of weeks sporadic wet weather. Temperatures 5 to 10 degrees C above normal aided in the dry-down of unharvested crops. Heavy rains (49-168mm) caused possible flooding and harvest delays in Uruguay.



**MEXICO** ... Light to moderate rains (10-43mm) fell across the eastern portions of the Southern Plateau corn belt boosting topsoil moisture. The rainy season is off to a slow start because rains have been inconsistent the past few weeks.

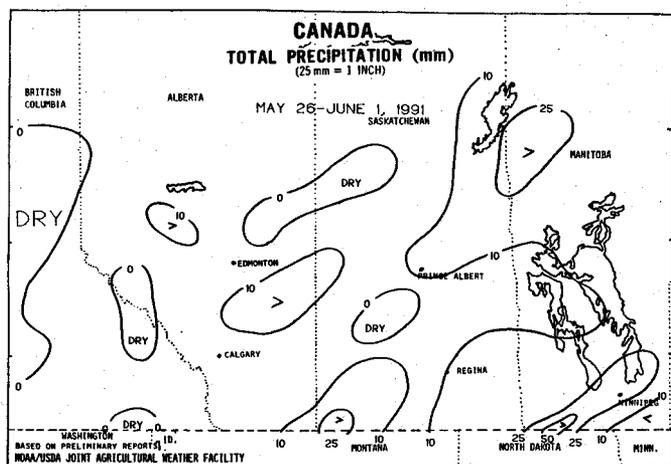
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**CANADA** ... Beneficial rain (10-33mm) reached spring wheat areas of the southeastern Prairies that had been drier than usual the past few weeks, improving topsoil moisture for crop establishment. Rainfall elsewhere in the Prairies was mostly light, although pockets of moderate rain (10-15mm) covered much of northern Alberta. Temperatures continued to average 2-4 degrees C above normal in the eastern half of the Prairie grain belt, hastening germination and early vegetative growth.

(Continued from p. 10)  
 Valley were in an unprecedented May bloom. Very light tree fruit sets were reported in Oregon sweet and tart cherries and peaches. Severe freeze damage occurred to older sweet cherry trees in The Dalles area. Possible winter injury may have also occurred to younger pear and apple trees in the upper Hood River Valley.

**VEGETABLES:** Harvest activity slowed in the early vegetable regions, while planting progressed in northern areas. Melons, dry onions, and lettuce were being harvested in Arizona. California asparagus harvest was nearing completion in the Delta area. Broccoli remained in moderate supply with generally good quality. Cauliflower supplies were light with variable quality. Celery was in light supply. Iceberg lettuce supply was moderate with variable quality. Hot days, warm nights, and frequent showers continued over Florida's major vegetable producing areas. Harvests were complete in most southern areas. Supplies of all crops were declining. Florida volume leaders were watermelons, tomatoes, sweet corn, cucumbers, peppers, and celery. High humidity, and record high temperatures continued to hurt spring vegetables in New Jersey where lettuce harvest was in full swing. New Mexico's lettuce harvest was ending. Texas' Rio Grande Valley melon and pepper harvests continued with good yields. Fungus and disease problems were increasing in the San Antonio-Winter Garden region where some early tomatoes and beans were being harvested. Wet conditions in East Texas increased fungus and weeds. Trans-Pecos onion and cabbage harvests made good progress and lettuce harvest was about complete.

**PASTURES AND LIVESTOCK:** Range and pasture conditions rated mostly good nationwide. Conditions continued improvement across Texas and brush control practices were active in some Central parts of the State. Movement of livestock to summer ranges continued in the Rocky Mountains.

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