

# WEEKLY WEATHER AND CROP BULLETIN

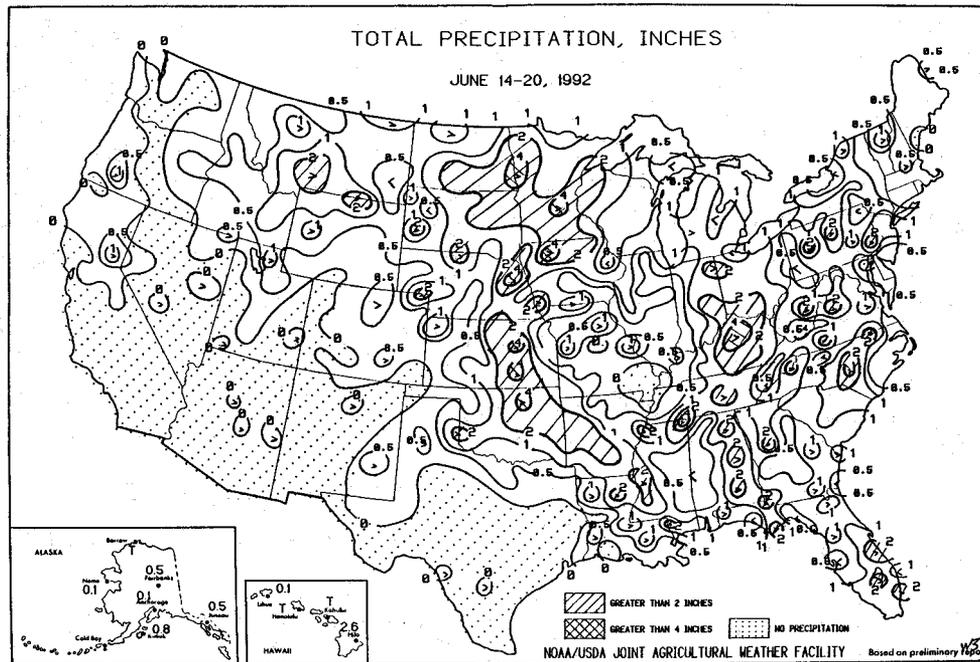
U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration, National Weather Service

U.S. DEPARTMENT OF AGRICULTURE  
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## National Weather Summary

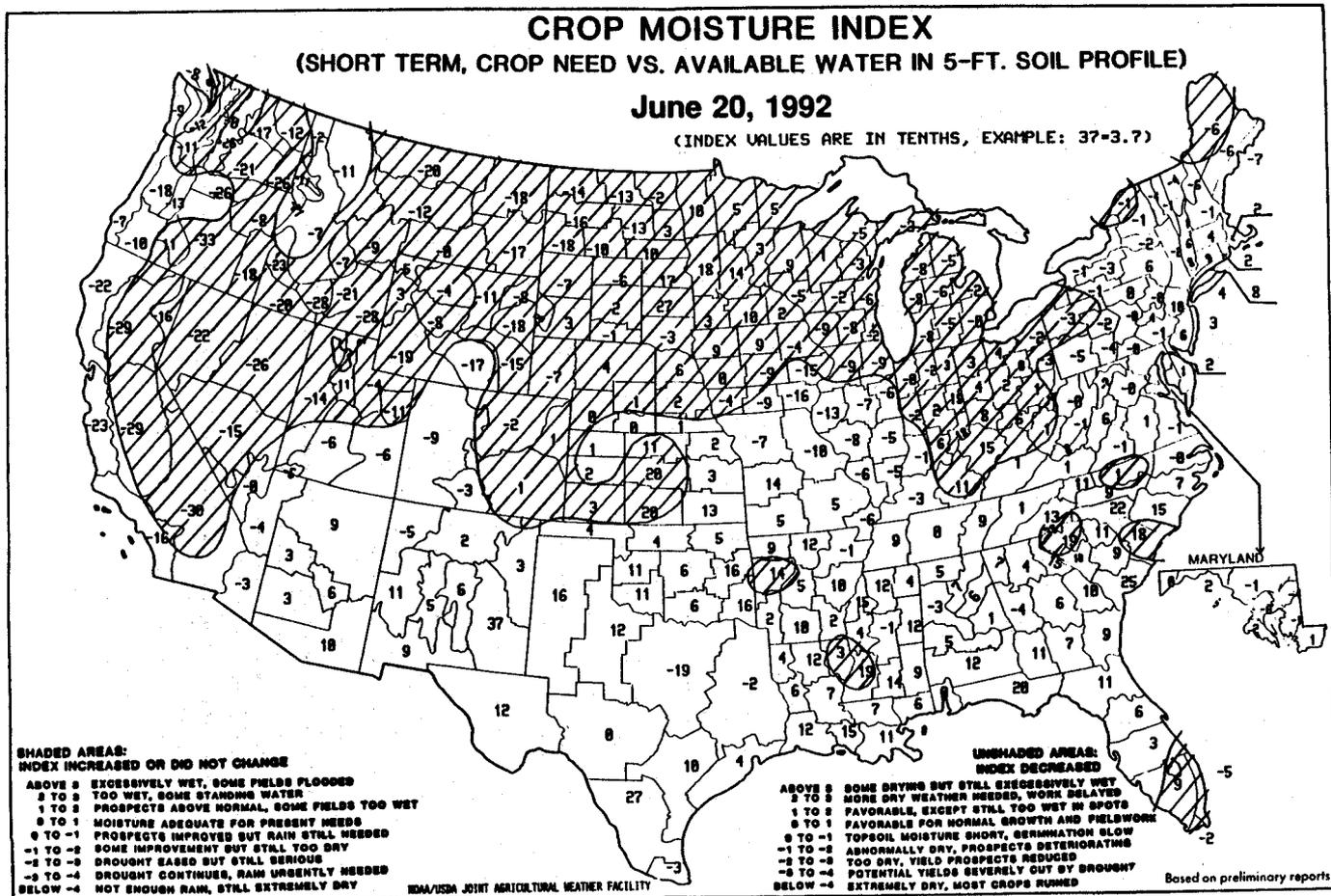
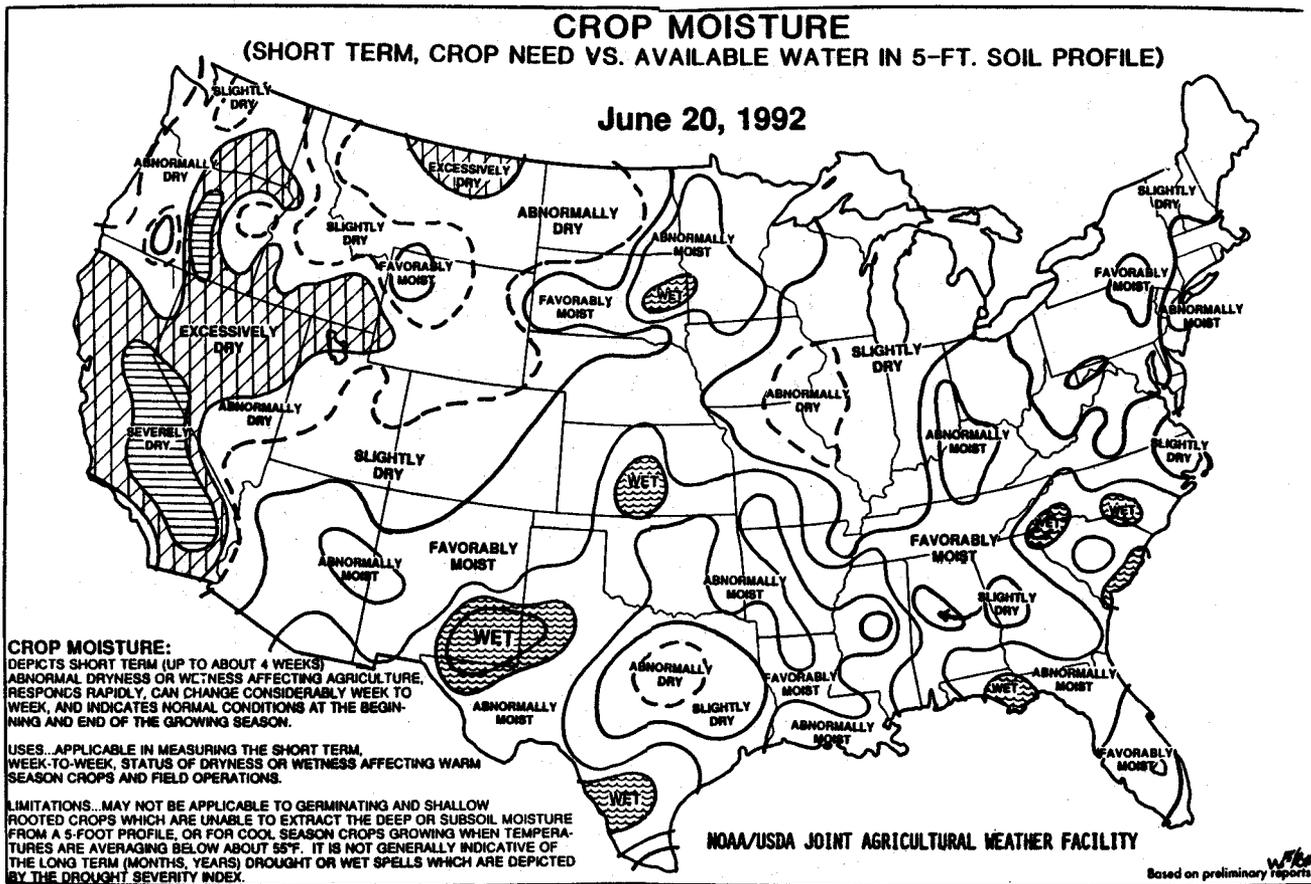
June 14 - 20, 1992

**HIGHLIGHTS:** A powerful late-spring storm crept from the **Great Basin** to the **Great Lakes**, generating local destruction in strong thunderstorms, but providing crucial drought relief to the **northern Plains** and the **Corn Belt**. Farther south, dry weather returned to the **southern Plains** for the first time in a month, allowing winter wheat harvesting to proceed. Early in the week, cool air swirled into the **West**, changing rain to snow in the mountains. Up to 1 foot of snow covered **Yellowstone National Park**. Thunderstorms dumped significant rain on the previously parched **northern Plains**. **Sheridan, WY**, received over 2.50 inches of rain. Heavy rain also soaked areas from the **Red River Valley** southward into the **east-central Plains**. In addition, early-week storms peppered the **Southeast**. As the storm edged across the **northern Plains** at midweek, large hail, strong thunderstorm winds, and over 200 tornadoes raked the **northern Plains, Midwest, and central Plains**. The heaviest rainfall associated with these storms moved out of the **northern Plains** and into the **western Great Lakes States** on Tuesday, across the **northern Corn Belt** on Wednesday, and into the **west slopes of the Appalachians** on Thursday. One small area that failed to receive significant rainfall covered **eastern Iowa, northeastern Missouri, the southern two-thirds of Illinois, and extreme south-western Indiana**. In parts of **eastern Iowa**, less than 1 inch of rain has fallen since late April. Along the path of the storm and its cold front,

rainfall was locally heavy, but eastern **South Dakota** and eastern **Kentucky** had especially widespread flooding. Temperatures surged to 95 degrees F in advance of the system in **South Bend, IN**, and **Grand Rapids, MI**. Late in the week, severe weather returned to the **central Plains**, and a few showers developed in the **interior West**. On Friday, there were about 50 reports of tornadoes, large hail, and gusty winds. The severe weather caused property and crop damage in **Kansas**, where several tornadoes touched down. **Wichita, KS**, reported 4 1/2 inch diameter hail and wind gusts to 75 mph. Record cold invaded the Great Lakes region Friday night, dropping **Minnesota** temperatures into the 30's. The cold spread south and eastward over the weekend.

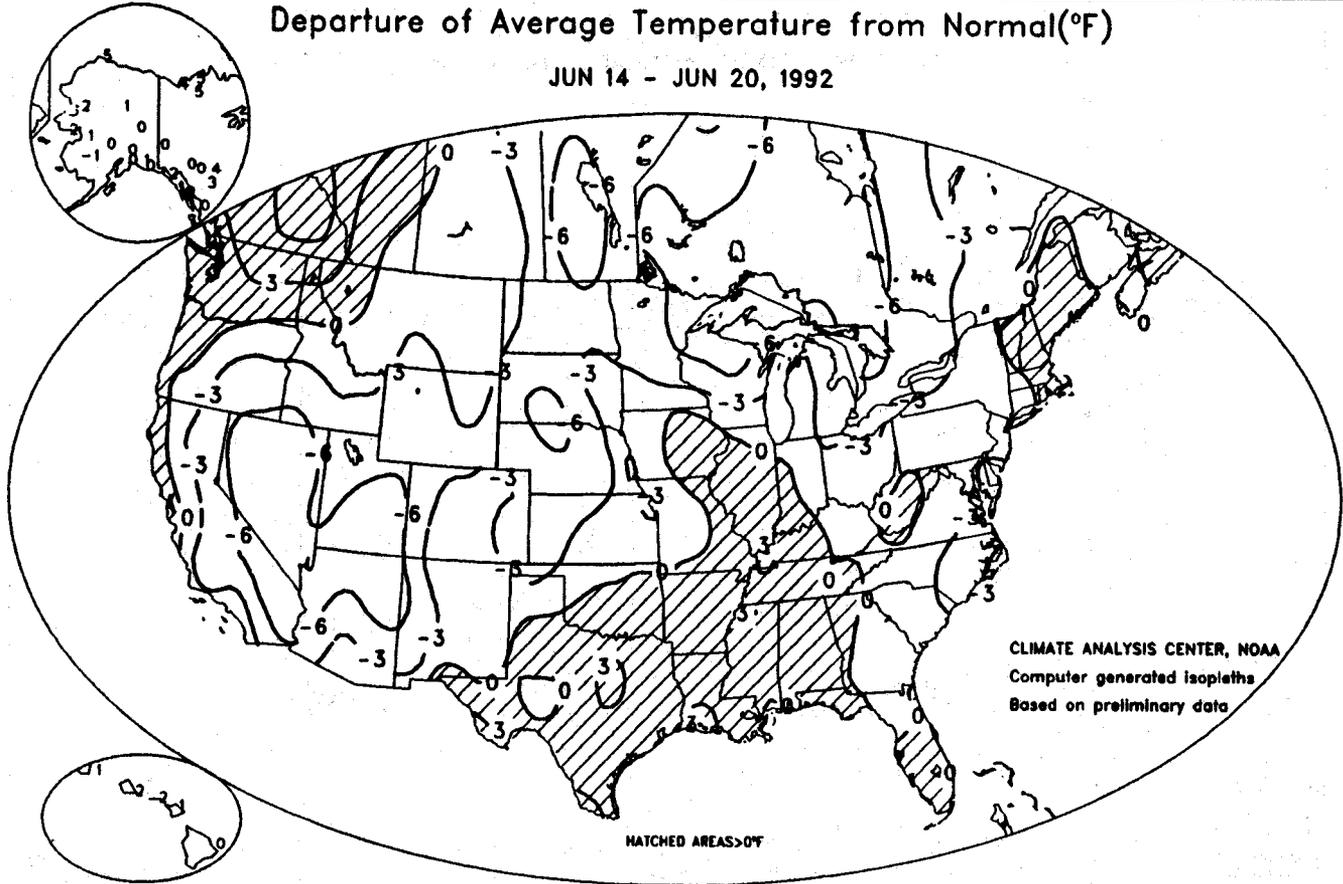
### Contents

	Page
Highlights & Total Precipitation Map .....	1
Crop Moisture Maps .....	2
Temperature & Growing Degree Day Departure Maps	3
Extreme Maximum & Minimum Temperature Maps ...	4
National Weather Data for Selected Cities ....	5
<b>Spring Weather Review</b> .....	<b>8</b>
Spring Precipitation & Temperature Maps .....	9
National Agricultural Summary .....	11
Crop Progress and Condition Tables .....	12
State Summaries of Weather and Agriculture ...	14
International Weather and Crop Summary .....	21
Subscription and Mailing Permit Information ..	24



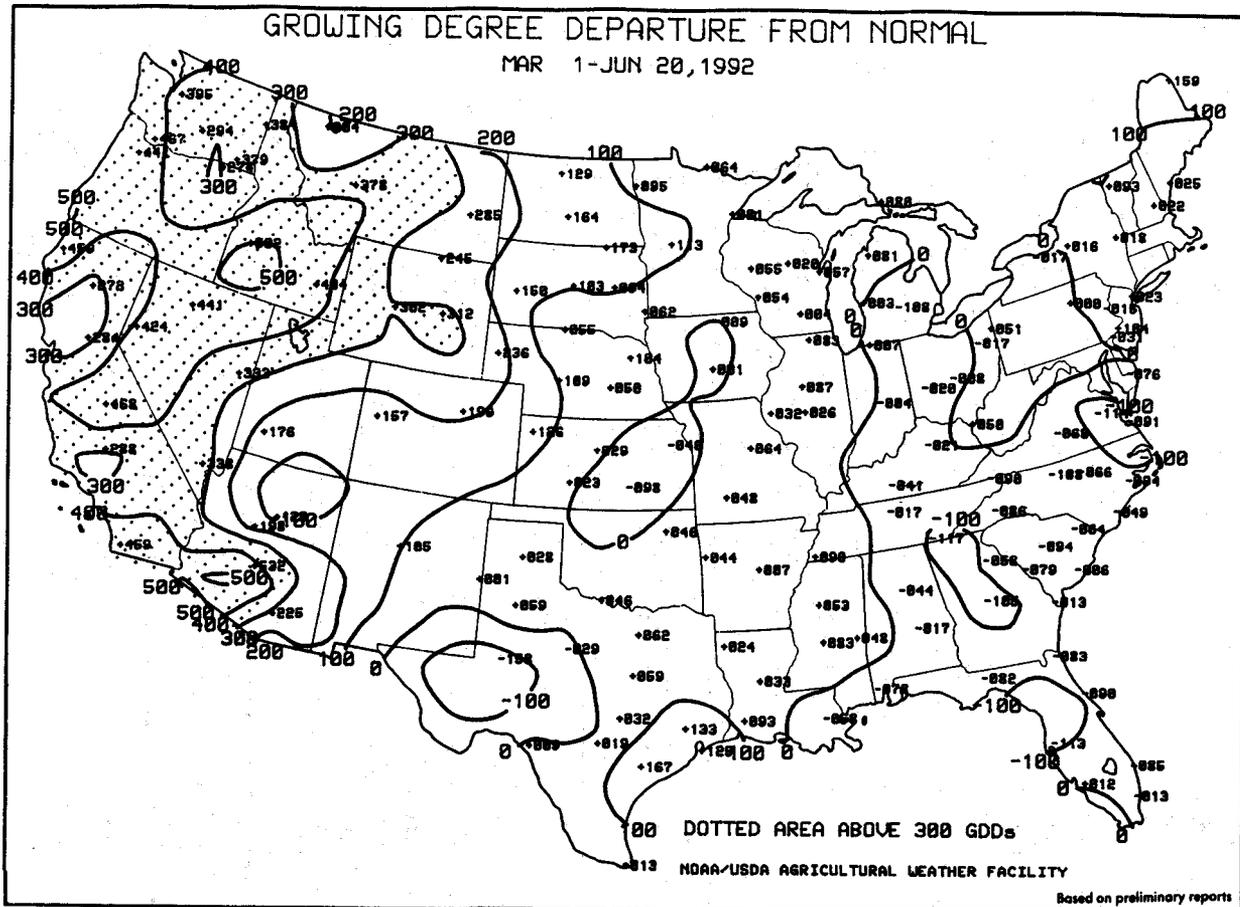
### Departure of Average Temperature from Normal(°F)

JUN 14 - JUN 20, 1992



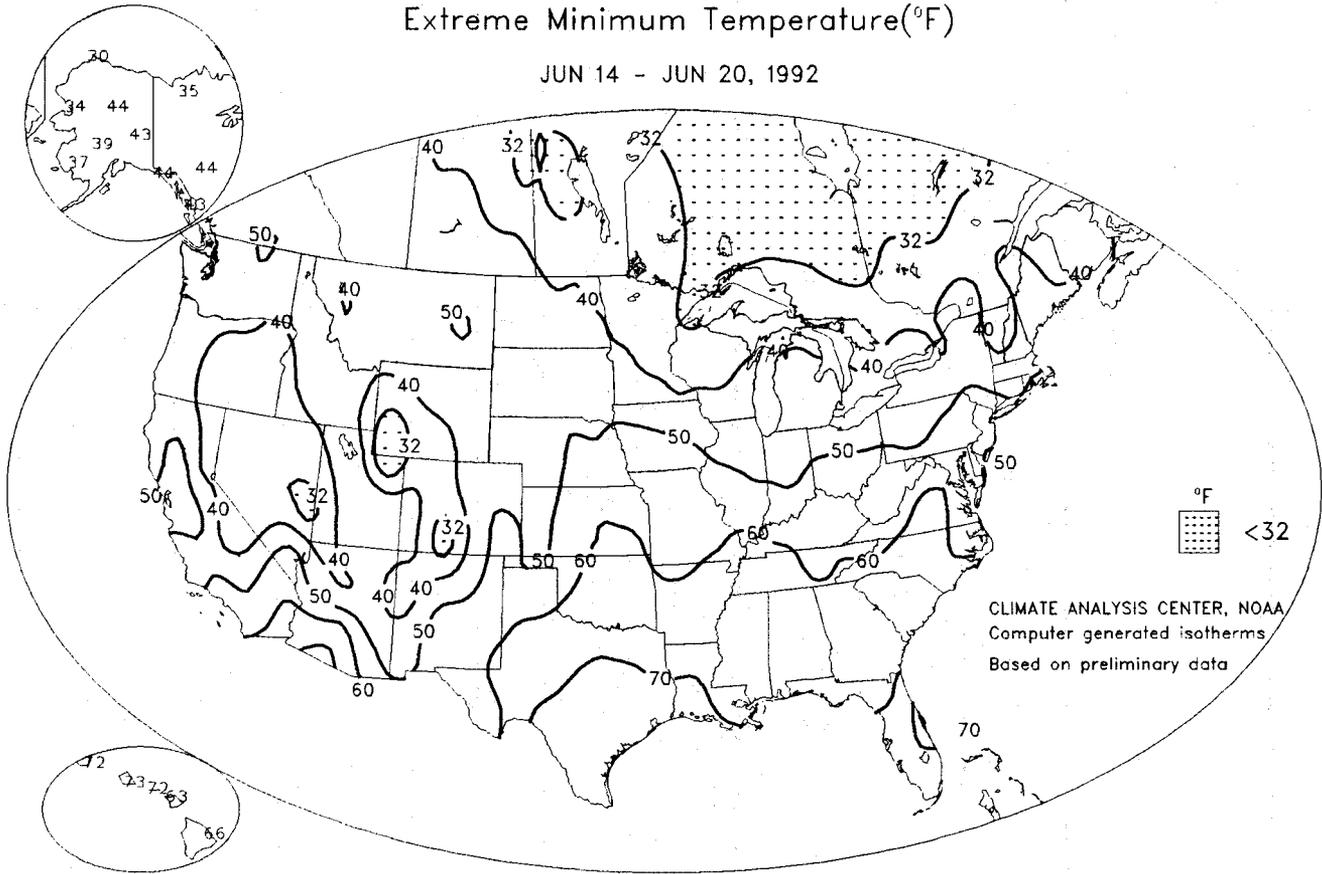
### GROWING DEGREE DEPARTURE FROM NORMAL

MAR 1-JUN 20, 1992



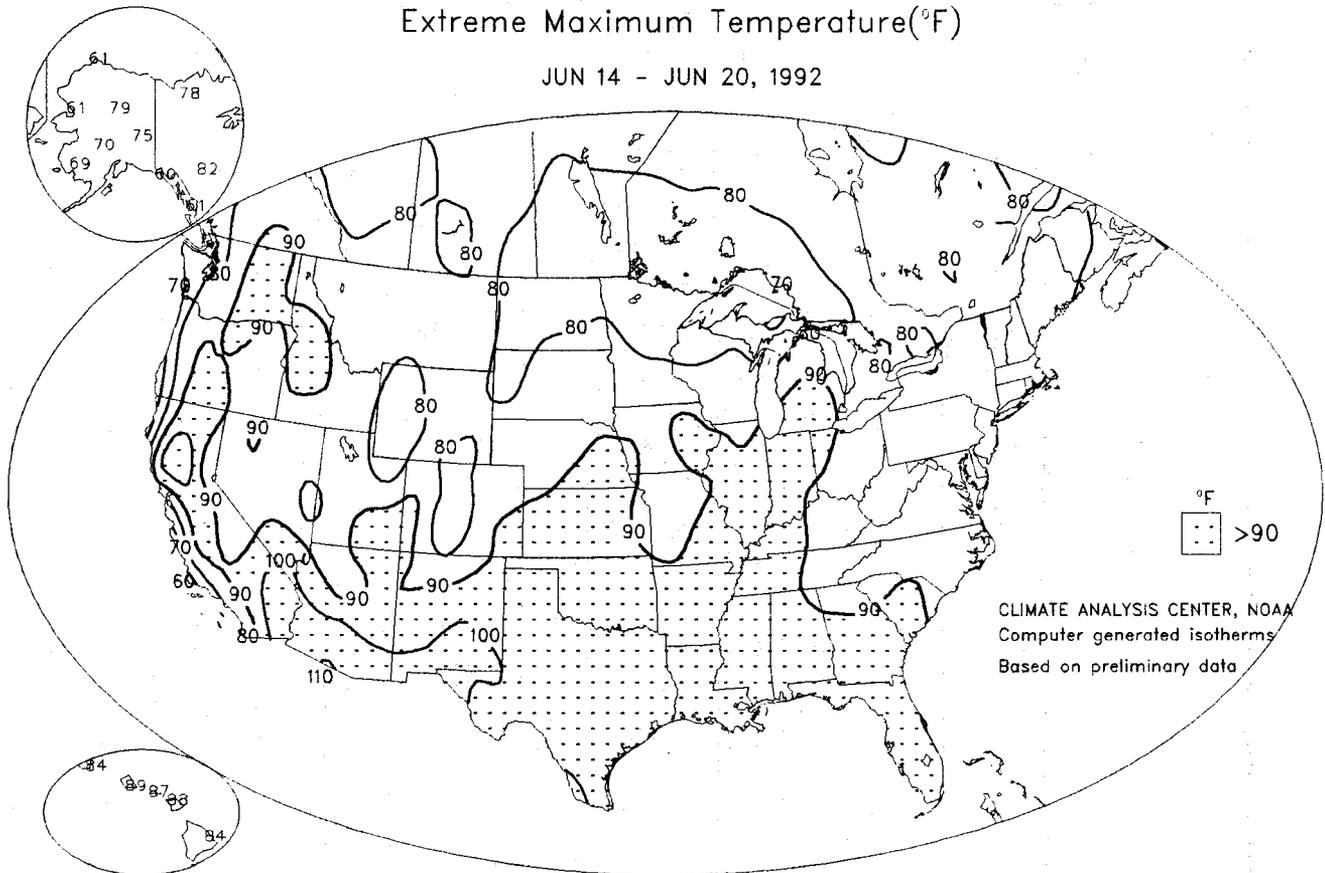
Extreme Minimum Temperature(°F)

JUN 14 - JUN 20, 1992



Extreme Maximum Temperature(°F)

JUN 14 - JUN 20, 1992



# National Weather Data for Selected Cities

Weather Data for the Week Ending June 20, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS																																	
	AVERAGE	MAXIMUM	AVERAGE	MINIMUM	EXTREME	EXTREME	AVERAGE	DEPARTURE	FROM	NORMAL	WEEKLY	DEPARTURE	FROM	NORMAL	GREATEST	IN	TOTAL,	IN.,	SINCE	JUN 1	PCT. NORMAL	SINCE	JUN 1	TOTAL,	IN.,	SINCE	JUN 1	PCT. NORMAL	SINCE	JUN 1	AVERAGE	MAXIMUM	AVERAGE	MINIMUM	90	AND	ABOVE	32	AND	BELOW	.01	INCH	OR	MORE	.50	INCH	OR	MORE
AL BIRMINGHAM	89	68	92	64	79	1	.9	.5	.5	4.7	204	19.6	69	94	50	4	0	2	1	2																												
MOBILE	91	71	95	67	81	0	1.7	1.1	1.1	128	31.0	103	97	52	5	0	0	2	2																													
MONTGOMERY	90	68	93	65	79	-1	1.9	1.1	1.0	7.1	320	31.1	123	98	54	5	0	3	2																													
AK ANCHORAGE	62	48	69	45	55	0	.1	-2	.0	.1	18	3.3	80	88	52	0	4	4	0																													
BARROW	48	33	61	30	40	6	T	-1	T	.1	65	.6	59	95	66	0	4	0	0																													
FAIRBANKS	70	49	81	42	60	-1	.5	-2	.2	1.5	187	4.9	159	91	44	0	4	4	0																													
JUNEAU	58	49	62	44	54	1	1.7	1.1	1.2	2.8	144	37.6	198	98	67	0	0	5	1																													
KODIAK	55	45	58	38	50	0	.8	-1	.4	3.0	106	29.4	111	97	70	0	4	4	0																													
NOME	57	39	62	34	48	0	.1	-2	.1	.1	9	2.4	65	92	58	0	1	0	0																													
AZ PHOENIX	100	73	106	69	87	-1	.0	.0	.0	.0	57	6.6	260	33	11	7	0	0	0																													
PRESCOTT	83	47	90	43	65	-1	.0	-1	.0	.2	123	7.6	211	47	12	1	0	0	0																													
TUCSON	101	63	107	58	82	-1	.0	.0	.0	.1	140	6.5	252	31	10	7	0	0	0																													
TUSCON	99	69	104	64	84	-4	.0	.0	.0	.0	0	3.2	354	10	10	7	0	0	0																													
YUMA	91	69	95	63	80	0	2.9	2.1	1.9	7.9	313	22.5	114	96	52	5	0	0	0																													
AR FORT SMITH	90	70	94	64	80	0	.6	-3	.4	4.2	168	21.4	83	90	57	4	0	2	2																													
LITTLE ROCK	87	58	98	53	73	0	.0	.0	.0	.0	0	5.6	146	65	24	4	0	0	0																													
CA BAKERSFIELD	62	54	64	52	58	3	T	-1	T	.7	165	14.5	65	89	69	4	0	1	0																													
EUREKA	87	59	98	53	73	0	.0	.0	.0	.0	0	9.0	129	80	30	4	0	0	0																													
FRESNO	71	58	73	57	65	-1	.0	.0	.0	.0	0	11.6	140	89	57	0	0	0	0																													
LOS ANGELES	90	58	106	53	74	-3	.2	.0	.0	.3	56	18.9	77	83	23	4	0	1	0																													
REDDING	86	55	101	50	70	-1	.0	.0	.0	.1	88	9.9	93	85	29	2	0	0	0																													
SACRAMENTO	71	62	72	61	66	0	.0	.0	.0	.0	0	9.9	162	82	60	0	0	0	0																													
SAN DIEGO	79	54	74	53	62	0	.0	.0	.0	.0	0	12.9	104	89	55	0	0	0	0																													
CO DENVER	79	53	85	48	66	-2	.6	-3	.6	1.7	157	8.1	105	81	28	0	1	1	0																													
GRAND JUNCTION	85	53	95	46	69	-4	.0	-1	.0	.2	57	4.4	122	38	12	3	0	0	0																													
PUEBLO	86	52	88	44	69	-3	.2	-1	.1	1.9	268	4.3	98	53	26	0	0	2	0																													
CT BRIDGEPORT	78	61	82	55	69	1	.5	-2	.5	3.8	196	16.2	84	86	48	0	0	1	0																													
HARTFORD	80	55	88	46	67	-2	T	-8	T	4.4	193	19.5	95	88	45	0	0	1	0																													
DC WASHINGTON	82	65	89	62	73	-2	.6	-2	.6	1.3	57	15.7	90	87	52	0	0	1	1																													
FL APALACHICOLA	88	73	92	70	81	0	2.0	.9	2.0	3.3	111	21.7	106	97	62	2	0	1	1																													
DAYTONA BEACH	88	72	93	70	80	0	.9	-7	.5	4.9	117	17.3	93	97	62	2	0	3	1																													
JACKSONVILLE	90	72	94	70	81	1	.2	-1.2	.1	4.0	105	27.8	132	96	56	4	0	2	0																													
KEY WEST	89	77	91	75	83	0	1.1	-1	.5	3.2	94	10.6	79	87	61	3	0	5	1																													
MIAMI	89	74	93	72	82	1	2.6	.4	2.3	6.4	103	15.3	69	94	58	3	0	5	1																													
ORLANDO	90	72	92	70	81	0	1.4	-3	.8	6.2	137	23.9	124	98	55	4	0	5	1																													
TALLAHASSEE	91	69	95	67	80	0	.4	-1.2	.3	7.3	175	29.7	103	98	50	5	0	3	0																													
WEST PALM BEACH	91	73	94	71	82	1	.3	-1.0	.2	2.9	87	11.2	65	94	54	6	0	4	0																													
GA ATLANTA	87	72	91	71	80	-1	.7	-1.2	.4	2.6	49	14.4	63	95	59	2	0	4	0																													
AUGUSTA	86	68	89	65	77	0	.1	-6	.1	3.9	181	18.0	70	96	54	0	0	1	0																													
MACON	88	66	92	61	77	-1	.9	.0	.8	4.0	158	20.7	92	98	53	3	0	2	1																													
SAVANNAH	89	68	92	65	79	-1	T	-8	T	5.1	210	22.3	94	96	46	4	0	1	0																													
HI HILO	88	70	93	68	79	0	1.6	.3	.9	7.7	212	24.7	114	98	55	3	0	4	1																													
HONOLULU	82	69	84	67	76	1	2.6	1.3	.7	7.0	173	23.1	37	96	67	0	0	7	2																													
KAHULUI	88	74	89	73	81	2	T	-1	T	.2	12	3.8	29	80	47	0	0	0	0																													
KARULUI	87	71	88	63	79	2	T	-1	T	.2	138	6.5	57	92	59	0	0	0	0																													
LIHUE	84	73	85	72	79	1	.1	-3	.0	.2	19	11.7	54	85	64	0	0	2	0																													
ID BOISE	76	51	90	40	63	-3	.3	-1	.1	1.1	164	3.2	47	88	39	1	0	3	0																													
LEWISTON	79	54	93	46	67	0	T	-3	T	.1	14	4.3	62	71	31	2	0	1	0																													
POCATELLO	72	47	88	39	60	-3	1.1	.9	.5	1.1	151	3.4	57	89	35	0	0	4	1																													
IL CHICAGO	79	59	91	43	69	0	1.2	.2	1.2	1.4	47	8.8	57	84	47	1	0	2	1																													
MOLINE	84	61	93	46	72	0	1.6	.6	.7	1.6	58	9.0	54	90	47	1	0	3	2																													
PEORIA	83	64	89	51	74	1	.2	-7	.1	.7	25	8.3	51	93	53	0	0	3	0																													
QUINCY	83	64	88	53	74	0	.4	-5	.3	1.5	55	11.7	69	90	46	0	0	3	0																													
ROCKFORD	81	59	91	46	70	0	.5	-6	.3	1.1	38	9.6	59	83	43	1	0	3	0																													
SPRINGFIELD	83	63	89	51	73	-1	1.0	.1	.9	2.3	98	10.6	66	97	54	0	0	2	1																													
IN EVANSVILLE	88	66	94	56	77	1	.2	-7	.2	.6	27	12.1	56	86	46	3	0	1	0																													
FORT WAYNE	78	58	93	50	68	-3	2.5	1.7	1.9	3.1	129	16.0	97	85	47	1	0	3	2																													
INDIANAPOLIS	81	63	91	46	72	-1	2.3	1.4	1.2	3.7	140	14.6	78	87	52	1	0	4	2																													
SOUTH BEND	79	58	95	43	69	-1	.9	-1	.5	1.5	59	11.2	66	86	42	1	0	2	1																													
IA DES MOINES	83	63	88	52	73	1	.3	-7	.2	.8	28	11.5	80	86	42	0	0	3	0																													
SIoux CITY	81	59	88	53	70	-2	1.7	.8	1.2	2.3	85	11.8	100	92	49	0	0	4	1																													
WATERLOO	82	60	92	47	71	1	1.4	.4	.7	1.4	49	11.5	79	86	44	1	0	2	2																													
KS CONCORDIA	84	60	93	57	72	-3	2.2	1.2	1.8	6.4	220	16.1	128	90	45	1	0	5	1																													
DODGE CITY	86	60	93	53	73	-3	1.4	.8	.9	4.0	201	9.5	99	92	39	2	0	3	1																													
GOODLAND	85	54	91	49	70	-1	2.0	1.3	2.0	5.2	282	9.1	118	90	35	2	0	1	1																													
TOPEKA	83	63	90	57	73	-2	.1	-1.1	.0	2.4	69	14.7	99	93	52	2	0	4	0																													
WICHITA	85	64	94	58	75	-2	2.4	1.4	1.7	5.9	219	15.5	122	90	49	3	0	2	2																													
KY BOWLING GREEN	87	65	93	59	76	1	.5	-6	.4	2.0	65	19.1	74	94	50	3	0	2	0																													
LEXINGTON	82	63	87	56	72	0	5.2	4.2	5.0	7.3	261	24.3	106	95	58	0	0	2	1																													
LOUISVILLE	86	66	91	59	76	1	1.8	.9	1.4	2.8	119	18.6	84	89	50	2	0	3	1																													
LA ALEXANDRIA	93	74	95	72	84	3	.0	-.9	.0	4.0	153	29.5	107	95	50	7	0	0	0																													
BATON ROUGE	94	73	96	68	84	3	.8	-1	.7	9.5	515	35.7	135	94	50	7	0	2	1																													
LAKE CHARLES	92	77	95	74	84	4	T	-9	T	5.1	188	34.0	145	99	62	6	0	0	0																													
NEW ORLEANS	94	73	95	68	83	2	.1	-1.0	.1	7.4	249	36.4	132	98	53	7	0	1	0																													

Based on 1951-80 normals.

Weather Data for the Week Ending June 20, 1992

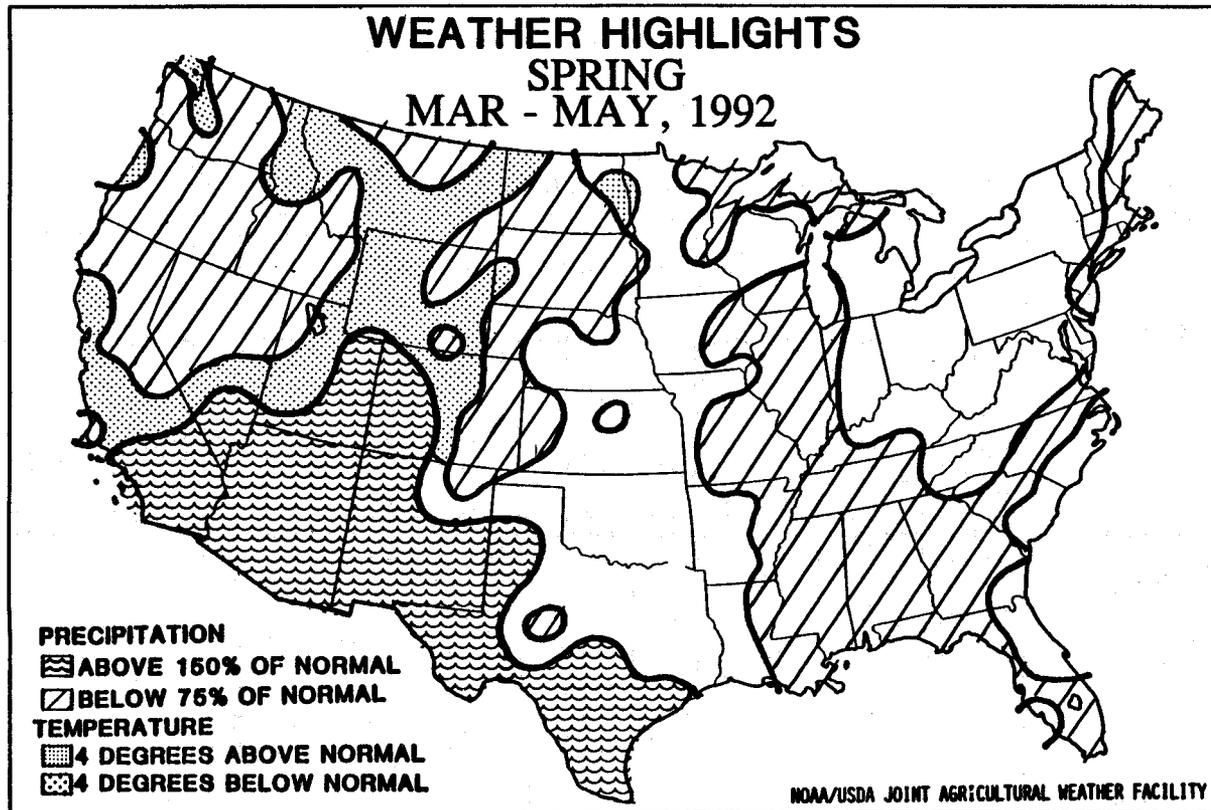
STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE		MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE
															.50 INCH OR MORE					.50 INCH OR MORE
SHREVEPORT	92	70	95	67	81	1	.1	.7	.2	2.3	100	25.4	110	96	53	6	0	2	0	
ME CARIBOU	76	50	84	37	63	2	.2	.7	.2	1.2	58	14.0	97	82	39	0	0	1	0	
PORTLAND	76	53	88	48	65	2	T	.7	T	3.4	167	19.2	93	92	48	0	0	0	0	
MD BALTIMORE	82	60	88	56	71	-2	T	.9	T	.8	33	13.8	73	94	51	0	0	0	0	
SALISBURY	81	57	89	49	69	-3	.1	.7	.1	2.2	94	16.4	83	97	53	0	0	1	0	
MA BOSTON	78	59	87	54	69	0	.1	.6	.1	3.5	175	16.2	77	87	48	0	0	2	0	
CHATHAM	70	56	73	51	63	1	.1	.5	.1	4.1	220	15.3	69	91	73	0	0	1	0	
MI ALPENA	67	43	85	34	55	-7	1.1	.4	.9	1.5	70	10.1	81	95	48	0	0	2	1	
DETROIT	76	56	92	44	66	-3	1.2	.4	1.2	1.8	82	14.1	99	80	42	1	0	2	1	
FLINT	75	55	93	43	65	-2	1.2	.4	.7	1.6	73	12.3	94	82	44	1	0	2	1	
GRAND RAPIDS	77	56	95	47	67	-2	1.2	.4	1.2	1.6	63	13.1	87	87	43	1	0	1	1	
HOUGHTON LAKE	70	51	86	43	61	-3	1.7	.9	1.5	1.7	81	9.8	81	85	46	0	0	3	1	
LANSING	76	53	94	41	64	-3	.9	.0	.9	1.9	70	14.0	105	90	46	1	0	2	1	
MARQUETTE	62	43	74	36	52	-8	.5	.4	.4	.6	23	11.0	65	83	54	0	0	3	0	
MUSKEGON	76	54	88	43	65	-1	1.1	.1	.9	1.3	81	10.0	72	80	35	0	0	2	1	
SAULT ST. MARIE	67	45	73	38	56	-3	1.8	.1	.8	1.0	46	10.5	78	81	45	0	0	1	1	
MN ALEXANDRIA	70	55	80	42	63	-3	1.9	.9	1.1	2.7	99	10.1	94	94	58	0	0	4	2	
DULUTH	60	45	68	31	52	-8	2.5	1.6	1.4	3.1	120	10.9	92	93	58	0	1	4	2	
INT'L FALLS	66	48	73	36	57	-5	.7	.2	.5	.9	39	7.4	81	84	49	0	0	3	3	
MINNEAPOLIS	74	56	85	41	65	-4	2.6	1.6	1.2	3.4	126	9.4	82	88	53	0	0	2	1	
ROCHESTER	75	55	86	38	65	-2	1.4	.6	.8	1.5	60	10.5	89	91	53	0	0	3	2	
MS GREENWOOD	92	72	96	67	82	2	.2	.5	.1	5.9	269	20.6	72	94	51	5	0	1	0	
JACKSON	92	70	96	65	81	2	.8	.2	.6	3.6	177	16.6	60	100	54	5	0	3	1	
MERIDIAN	92	70	94	67	81	2	.4	.4	.4	7.3	329	29.8	106	93	47	6	4	0	0	
MO CAPE GIRARDEAU	89	69	95	63	79	0	.0	.8	.0	2.1	87	15.5	68	87	46	4	0	0	0	
COLUMBIA	84	64	90	52	74	0	T	.8	T	1.5	60	11.2	62	92	53	1	0	2	0	
KANSAS CITY	82	63	89	57	73	-3	.1	-1.0	.1	2.8	89	15.8	98	91	50	0	0	2	0	
SAINT LOUIS	87	69	94	57	78	2	.4	.5	.2	.7	28	11.0	66	87	45	3	0	0	0	
SPRINGFIELD	85	63	89	56	74	0	.2	.9	.1	4.6	147	14.4	77	95	53	0	0	4	0	
MT BILLINGS	72	53	86	49	63	-2	1.9	1.4	1.1	2.0	140	7.0	82	87	45	0	0	4	2	
GLASGOW	72	53	82	50	63	-3	.7	.1	.2	2.0	122	3.8	76	91	49	0	0	4	0	
GREAT FALLS	69	49	86	44	59	-3	1.3	.6	.6	2.6	136	7.3	84	94	54	0	0	3	1	
HAVRE	73	51	89	48	62	0	T	.5	T	.5	34	1.7	29	96	51	0	0	1	0	
HELENA	72	50	88	47	61	0	.9	.4	.4	1.6	116	3.8	63	88	42	0	0	4	0	
KALISPELL	73	48	84	38	60	2	-1	-1.5	-1	1.7	110	6.8	86	96	47	0	0	2	0	
MILES CITY	77	56	87	53	67	-1	.5	-1	.3	.7	38	4.9	66	89	41	0	0	4	0	
MISSOULA	73	50	89	41	61	1	.2	-2	.1	1.8	137	5.9	85	88	43	0	0	4	0	
NE GRAND ISLAND	81	57	90	53	69	-3	1.5	.6	.7	5.1	203	15.2	129	91	50	1	0	4	2	
LINCOLN	83	61	93	51	72	-1	.9	.0	.6	2.3	89	10.3	79	89	49	1	0	2	1	
NORFOLK	82	57	91	50	70	-2	2.6	1.6	1.5	3.9	132	11.3	96	87	44	1	0	3	2	
NORTH PLATTE	78	54	86	47	66	-3	1.7	.8	1.2	2.0	80	10.7	109	92	50	0	0	2	1	
OMAHA	80	61	89	54	71	-3	.8	-2	.7	1.3	46	12.6	92	88	53	0	0	4	1	
SCOTTSBLUFF	78	52	86	44	65	-3	.3	-.4	.2	1.8	87	7.0	87	90	40	0	0	3	0	
VALENTINE	74	52	85	48	63	-6	2.6	1.9	1.7	3.5	171	7.2	86	96	54	0	0	5	1	
NV RLY	71	35	82	32	53	-7	.3	.2	.2	.5	85	3.7	76	69	20	0	2	2	0	
LAS VEGAS	91	63	99	56	77	-7	.0	.0	.0	.1	450	6.7	387	32	12	4	0	0	0	
RENO	75	45	87	39	60	-3	.7	.6	.3	.8	312	2.2	50	79	23	0	0	3	0	
WINNEMUCCA	77	40	90	30	59	-6	T	.2	T	.1	12	1.5	34	81	21	1	1	0	0	
NH CONCORD	81	51	90	40	66	0	.3	-.4	.3	2.8	142	13.0	80	91	36	1	0	1	0	
NJ ATLANTIC CITY	79	55	86	45	67	-3	.3	-.4	.2	3.5	197	13.4	71	95	49	0	0	2	0	
NM ALBUQUERQUE	90	58	94	50	74	-2	.0	-1.1	.0	.6	221	4.1	170	38	11	4	0	0	0	
CLOVIS	90	59	94	51	74	0	.5	-1.1	.5	2.0	115	11.3	185	76	25	5	0	1	1	
ROSWELL	96	60	102	55	78	-1	1.0	.8	1.0	1.8	292	8.8	302	63	21	6	0	1	1	
NY ALBANY	78	54	88	44	66	-1	.1	-.7	.1	1.4	64	12.6	78	90	48	0	0	1	0	
BINGHAMTON	73	54	82	45	64	-2	.3	-.6	.2	1.2	49	18.0	109	87	51	0	0	3	0	
BUFFALO	75	53	90	46	64	-3	1.0	.4	.6	1.3	71	16.8	104	86	42	1	0	3	1	
NEW YORK	80	64	86	61	72	0	.5	-.2	.3	2.7	129	14.0	71	82	44	0	0	2	0	
ROCHESTER	75	53	88	45	64	-4	.3	-.4	.3	1.1	60	14.3	100	89	48	0	0	2	0	
SYRACUSE	76	55	85	46	66	-2	.1	-.8	.1	.8	32	18.4	107	87	48	0	0	1	0	
NC ASHVILLE	79	62	84	59	70	0	1.1	.3	1.1	5.9	240	26.3	124	97	58	0	0	2	1	
CHARLOTTE	85	67	89	64	76	0	.9	.1	.6	5.7	243	24.4	112	92	52	0	0	4	1	
GREENSBORO	81	64	86	61	73	-1	.2	-.8	.1	2.3	91	19.8	99	94	56	0	0	3	0	
HATTERAS	82	66	85	60	74	-1	.1	-1.0	.0	.6	21	21.9	95	94	56	0	0	2	0	
NEW BERN	83	65	89	59	74	-2	.3	-1.0	.2	3.9	119	21.1	94	95	53	0	0	3	0	
RALEIGH	82	63	87	60	73	-2	1.6	.7	.7	3.7	156	17.2	88	99	58	0	0	4	2	
WILMINGTON	83	65	86	60	74	-3	.4	-1.0	.4	5.9	165	31.4	142	96	58	0	0	1	0	
ND BISMARCK	71	52	81	39	62	-3	2.5	1.8	1.4	2.7	135	5.4	72	98	55	0	0	5	2	
FARGO	70	52	84	40	61	-5	4.1	3.4	1.7	4.6	232	10.3	130	94	58	0	0	5	3	
GRAND FORKS	67	52	78	40	60	-5	2.3	1.6	1.5	2.8	148	8.9	122	93	62	0	0	3	1	
WILLISTON	73	51	81	42	62	-3	.7	.0	.3	.8	42	5.6	87	96	45	0	0	4	0	
OR AKRON-CANTON	77	55	86	46	66	-2	1.0	.2	.7	1.0	49	15.6	91	92	54	0	0	3	1	
CINCINNATI	79	61	87	52	70	-2	2.4	1.4	2.3	3.2	118	16.8	84	95	63	0	0	2	1	
CLEVELAND	74	57	89	47	65	-4	1.4	.5	1.0	2.3	98	18.1	109	88	53	0	0	4	1	
COLUMBUS	79	60	88	52	70	-1	1.5	.6	1.5	2.0	76	14.3	79	90	55	0	0	2	1	

Based on 1951-80 normals.

Weather Data for the Week Ending June 20, 1992

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 Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																			TEMP. °F	PRECIP.		
DAYTON	80	61	91	52	71	-1	1.7	.8	1.7	3.2	125	18.8	108	92	54	1	0	1	1	1	1	
TOLKDO	76	57	92	45	66	-3	.8	-1	.8	1.2	51	14.2	91	80	46	1	0	1	1	1	1	
YOUNGSTOWN	77	55	88	45	66	-1	.3	-5	.3	.6	28	14.1	81	89	49	0	0	0	0	0	0	
OK OKLAHOMA CITY	90	70	95	64	80	2	1.5	.6	1.4	3.7	139	15.7	102	90	54	4	0	1	1	1	1	
TULSA	88	70	93	63	79	0	2.7	1.7	1.7	5.3	169	18.9	101	91	56	4	0	4	4	2	2	
OR ASTORIA	65	50	69	45	57	0	.2	-4	.2	.3	16	24.5	70	95	63	0	0	0	0	0	0	
BURNS	72	43	88	35	57	-4	.1	.0	.1	.4	100	2.8	52	92	34	0	0	0	0	0	0	
MEDFORD	83	53	95	45	68	2	T	-1	T	.7	147	5.0	50	89	33	3	0	0	0	0	0	
PENDLETON	79	53	92	44	66	-1	.1	-1	.1	.8	158	3.8	59	75	31	2	0	0	0	0	0	
PORTLAND	77	54	86	51	66	3	T	-3	T	.2	17	14.4	75	88	43	0	0	0	0	0	0	
SALEM	78	50	89	44	64	2	T	-2	T	.4	39	14.9	70	87	37	0	0	0	0	0	0	
PA ALLENTOWN	80	60	86	57	70	0	1.4	.6	1.4	3.0	133	15.3	76	92	49	0	0	0	0	0	0	
ERIE	74	57	90	47	66	0	.7	-2	.7	1.1	42	13.5	81	84	47	1	0	0	0	0	0	
HARRISBURG	77	62	85	60	70	-2	.8	-1	.8	2.0	82	13.8	74	83	50	0	0	0	0	0	0	
PHILADELPHIA	82	62	88	58	72	-1	.6	-4	.6	1.8	70	11.2	59	88	43	0	0	0	0	0	0	
PITTSBURGH	79	58	88	49	69	0	.3	-5	.2	.4	17	12.4	69	87	46	0	0	0	0	0	0	
SCRANTON	79	57	87	51	68	0	.1	-7	.1	.5	23	11.7	76	84	49	0	0	0	0	0	0	
RI PROVIDENCE	79	57	84	51	68	0	.2	-5	.1	3.3	175	17.9	84	93	46	0	0	0	0	0	0	
SC CHARLESTON	86	69	92	66	78	0	.2	-1.4	.1	5.7	134	24.3	109	97	59	1	0	0	0	0	0	
COLUMBIA	88	67	91	62	77	-1	1.3	.2	.9	5.6	192	21.3	89	98	51	2	0	0	0	0	0	
FLORENCE	85	67	91	63	76	-2	1.7	.6	.8	4.0	134	16.4	81	96	57	1	0	0	0	0	0	
GREENVILLE	83	64	88	62	74	-2	1.0	.0	.9	4.5	155	28.3	109	96	55	1	0	0	0	0	0	
SD ABERDEEN	76	57	88	49	67	-1	2.1	1.4	.8	3.3	150	6.1	69	95	50	0	0	0	0	0	0	
BURON	78	57	88	50	67	-1	2.9	2.1	1.4	3.7	166	8.9	95	94	48	0	0	0	0	0	0	
RAPID CITY	71	51	78	44	61	-5	1.3	.5	.9	1.9	84	7.4	84	93	54	0	0	0	0	0	0	
SIoux FALLS	79	58	87	48	68	-1	1.4	.6	.9	1.9	77	10.6	95	94	46	0	0	0	0	0	0	
TN CHATTANOOGA	85	64	89	61	74	-1	1.7	1.0	1.5	6.8	314	24.7	91	99	55	0	0	0	0	0	0	
KNOXVILLE	85	65	88	60	75	0	.4	-5	.4	3.0	115	19.5	79	100	62	0	0	0	0	0	0	
MEMPHIS	92	73	94	67	83	3	T	.8	T	5.8	240	21.9	79	88	48	6	0	0	0	0	0	
NASHVILLE	87	67	91	63	77	1	1.0	-1	.7	3.6	146	17.6	69	95	54	2	0	0	0	0	0	
TX ABILENE	93	73	94	70	83	2	.0	-6	.0	1.8	105	13.6	130	88	43	7	0	0	0	0	0	
AMARILLO	90	61	94	51	75	0	.5	-4	.4	5.8	232	12.1	148	88	31	6	0	0	0	0	0	
AUSTIN	93	76	94	75	84	2	.0	-7	.0	3.3	151	31.1	203	92	52	7	0	0	0	0	0	
BEAUMONT	92	75	94	74	83	2	.1	-1.1	.1	8.2	259	36.7	154	99	59	6	0	0	0	0	0	
BROWNSVILLE	92	77	93	74	85	2	.0	-6	.0	1.5	80	16.8	189	95	58	7	0	0	0	0	0	
CORPUS CHRISTI	91	76	92	74	83	1	.0	-9	.0	1.5	80	16.8	189	95	58	7	0	0	0	0	0	
DEL RIO	95	75	96	74	85	1	.0	-4	.0	2.5	57	26.4	222	96	63	7	0	0	0	0	0	
EL PASO	101	70	107	60	86	3	.0	.0	.0	1.5	215	16.2	228	81	39	7	0	0	0	0	0	
FORT WORTH	94	75	96	68	85	2	.1	-1	.0	1.1	43	6.4	360	31	9	7	0	0	0	0	0	
GALVESTON	90	79	91	79	84	3	.0	-4	.1	1.6	97	19.9	124	87	46	6	0	0	0	0	0	
HOUSTON	93	75	95	72	84	3	.0	-8	.0	2.7	114	31.7	199	90	65	4	0	0	0	0	0	
LUBBOCK	95	68	98	65	82	4	T	-1.0	.0	3.1	102	33.9	160	97	50	7	0	0	0	0	0	
MIDLAND	93	67	95	63	80	0	T	.7	T	3.2	171	14.5	195	91	28	7	0	0	0	0	0	
SAN ANGELO	92	71	92	67	82	-1	.3	.0	.3	2.0	206	15.4	290	97	35	7	0	0	0	0	0	
SAN ANTONIO	94	77	94	75	85	3	.0	-4	.0	4.6	350	13.8	176	92	42	7	0	0	0	0	0	
VICTORIA	94	77	96	75	85	3	T	-7	T	5.1	238	34.4	259	90	49	7	0	0	0	0	0	
WACO	96	76	99	74	86	3	.0	-1.1	.0	1.3	42	36.7	232	96	53	7	0	0	0	0	0	
WICHITA FALLS	93	75	96	66	84	2	.8	-5	.0	1.4	76	23.4	145	91	47	7	0	0	0	0	0	
UT CEDAR CITY	79	43	87	37	61	-7	T	.2	.8	6.3	314	15.1	115	87	49	6	0	0	0	0	0	
SALT LAKE CITY	78	52	89	47	65	-4	.3	-1	T	.2	88	5.1	111	56	14	0	0	0	0	0	0	
VT BURLINGTON	78	54	85	40	66	0	T	.0	.2	.3	39	6.2	72	81	29	0	0	0	0	0	0	
VA NORFOLK	80	63	87	57	72	-3	.1	-7	.1	2.1	92	16.0	81	94	53	0	0	0	0	0	0	
RICHMOND	84	61	89	58	72	-2	1.3	.5	1.3	1.8	80	19.5	104	98	50	0	0	0	0	0	0	
ROANOKE	79	62	84	59	70	-2	T	.7	T	5.4	243	25.2	135	96	60	0	0	0	0	0	0	
WA QUILLAYUTE	66	50	73	45	58	2	.1	-5	.1	.8	39	49.0	92	95	61	0	0	0	0	0	0	
SEATTLE-TACOMA	75	53	81	50	64	4	T	-3	T	.4	40	17.3	92	88	44	0	0	0	0	0	0	
SPOKANE	77	51	89	42	64	2	.1	-1	.1	1.2	134	6.4	74	87	37	0	0	0	0	0	0	
YAKIMA	83	53	94	44	68	3	.0	-1	.0	T	10	2.1	51	71	27	2	0	0	0	0	0	
WV BECKLEY	77	61	78	57	69	3	.4	-5	.3	2.9	114	19.0	94	91	58	0	0	0	0	0	0	
CHARLESTON	81	63	87	58	72	1	.7	-1	.3	1.7	83	18.7	94	92	57	0	0	0	0	0	0	
HUNTINGTON	81	63	88	56	72	-1	1.7	.9	1.0	3.1	139	18.6	94	96	59	0	0	0	0	0	0	
PARKERSBURG	79	61	85	53	70	-2	1.6	.7	1.2	3.1	121	16.1	87	93	58	0	0	0	0	0	0	
WI GREEN BAY	71	54	85	41	62	-3	.9	.1	.8	.9	42	9.2	76	83	47	0	0	0	0	0	0	
LACROSSE	76	58	88	42	67	-2	.6	-4	.6	.7	25	10.8	82	81	48	0	0	0	0	0	0	
MADISON	75	57	87	42	66	-1	1.4	.5	.8	1.4	56	9.8	73	87	49	0	0	0	0	0	0	
MILWAUKEE	70	57	87	47	63	-3	1.8	.9	1.7	3.1	130	11.3	81	84	55	0	0	0	0	0	0	
MAUSAU	68	50	81	37	59	-6	1.0	.1	.5	1.1	43	11.9	91	89	52	0	0	0	0	0	0	
WY CASPER	75	47	85	40	61	-2	.2	-1	.2	.3	40	4.3	66	84	29	0	0	0	0	0	0	
CHEYENNE	73	48	79	44	61	-2	.8	.4	.4	1.1	82	5.5	81	84	32	0	0	0	0	0	0	
LANDER	70	46	77	38	58	-5	.6	.3	.4	.7	70	6.8	83	87	37	0	0	0	0	0	0	
SHERIDAN	73	50	83	42	62	-1	2.6	2.1	2.0	3.1	192	7.6	88	94	43	0	0	0	0	0	0	

Based on 1951-80 normals.



## Spring Weather Review

**HIGHLIGHTS:** Drought intensified in the Northwestern States, compounded by near-record warmth. Farther east, dry, cool weather hindered spring crop development from the central Corn Belt to the Southeast. And in the South-Central and Southwestern States, the wet pattern that evolved in December 1991 broke temporarily, only to return in earnest by mid-May.

Spring precipitation was less than 75 percent of normal in the Northwest, the northern and west-central Plains, and from the central Corn Belt southeastward to Florida. In contrast, the Southwest and southern Texas recorded more than twice the normal spring rainfall.

Temperatures generally averaged below normal east of the Mississippi River, with departures reaching  $-3^{\circ}\text{F}$  in the Southeast. But in the Northwest, consistent warmth pushed the 3-month departures as high as  $+9^{\circ}\text{F}$  in Nevada and Idaho.

**MARCH:** Cold air repeatedly invaded the Plains and the Southeast after the 8th. On the 10th, Dalhart, TX, reported  $13^{\circ}\text{F}$ . Sub-freezing cold cloaked the Ohio Valley and the Southeast on the mornings of the 11th and 12th. Another cold outbreak on the 23rd brought a reading of  $17^{\circ}\text{F}$  to Gage, OK, then induced widespread frost in the Southeast during the next two mornings. The cold outbreaks overshadowed warmth in the Northwest, where monthly temperature departures reached  $+12^{\circ}\text{F}$  in Montana.

A dry March virtually assured the Northwest of a sixth consecutive year of drought. Elsewhere, precipitation was fairly close to normal except in the Southwest, where Las Vegas, NV, received more than its normal annual allotment in 1 month's time.

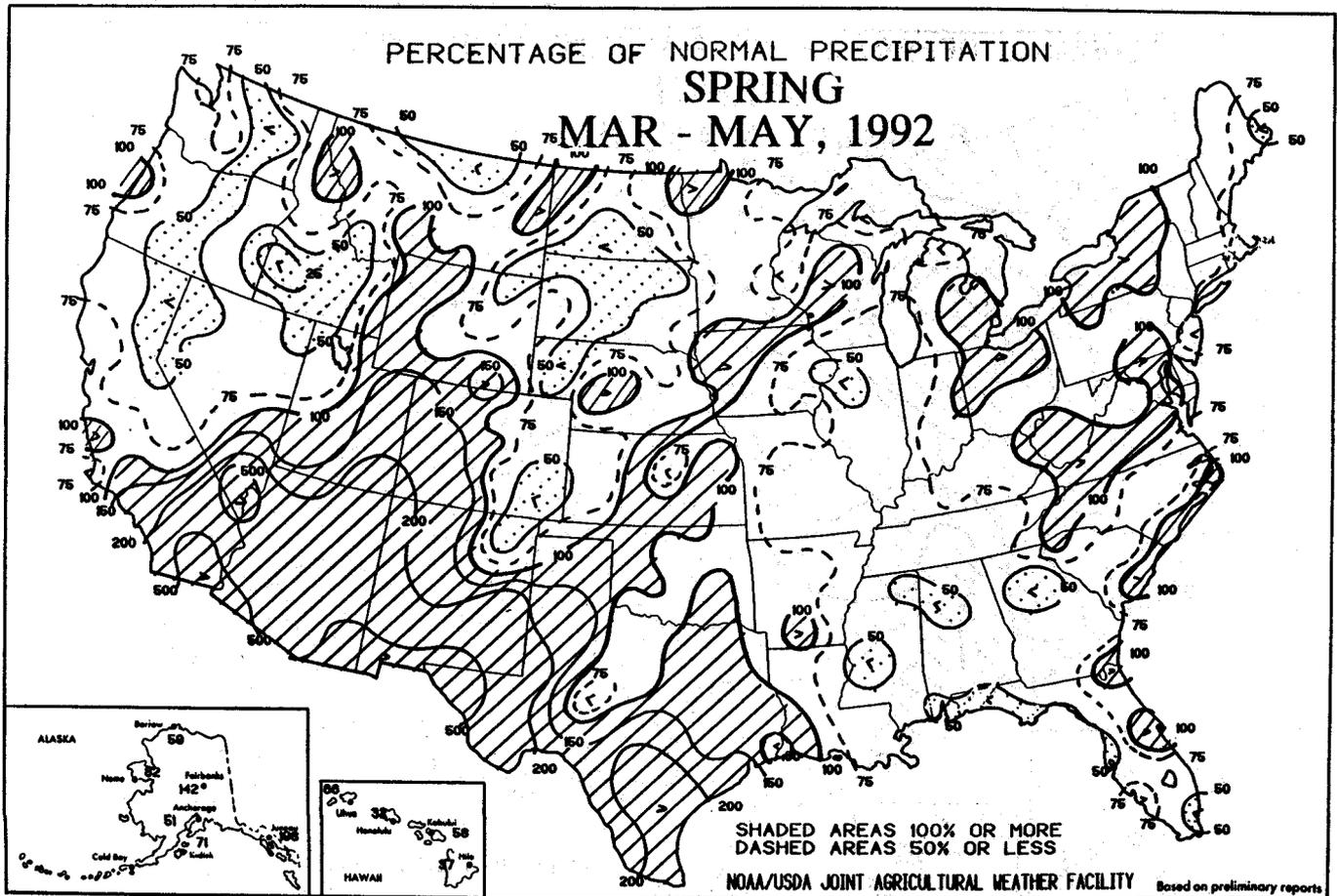
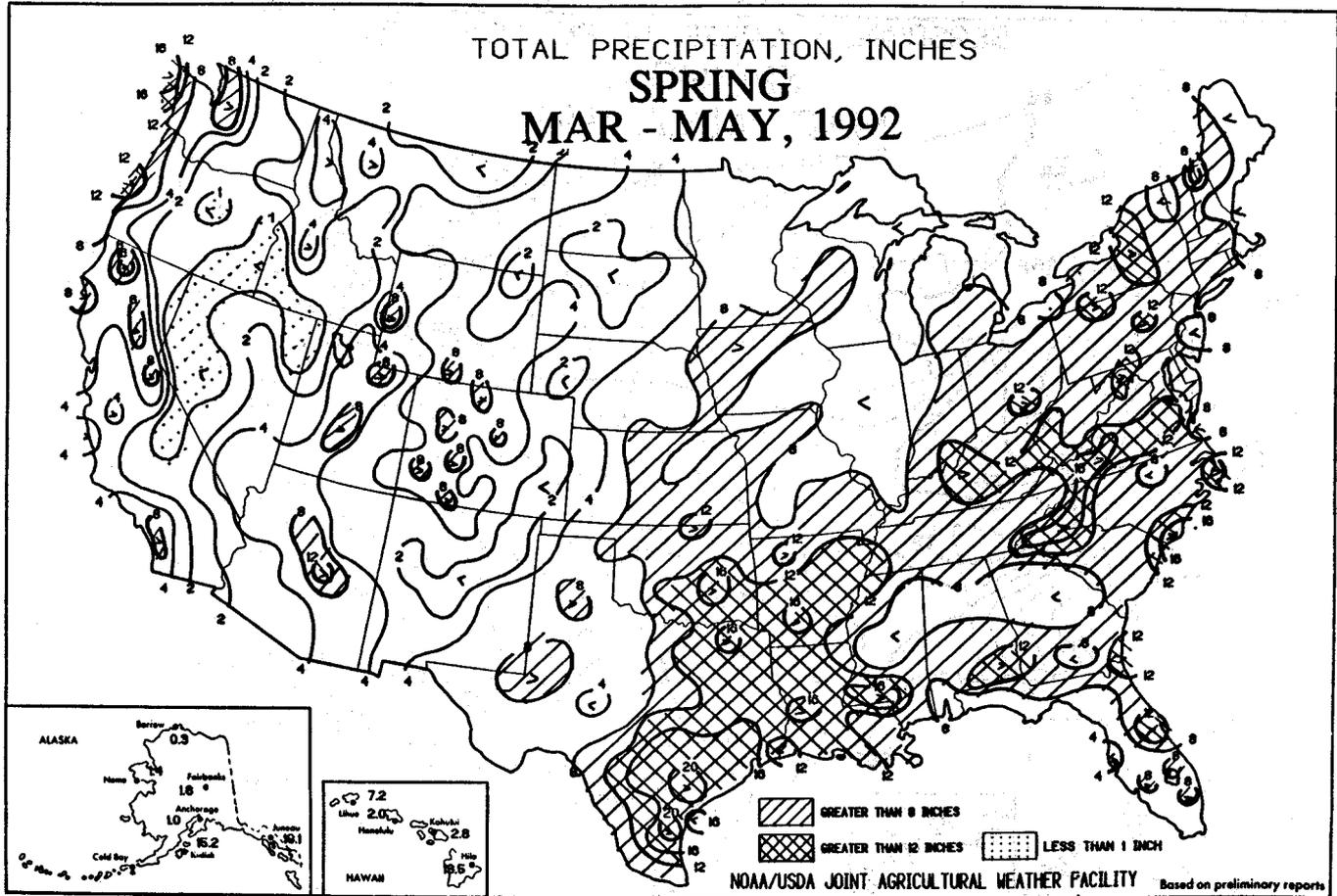
**APRIL:** Cold weather continued in the Southeast early in the month, with widespread frost on

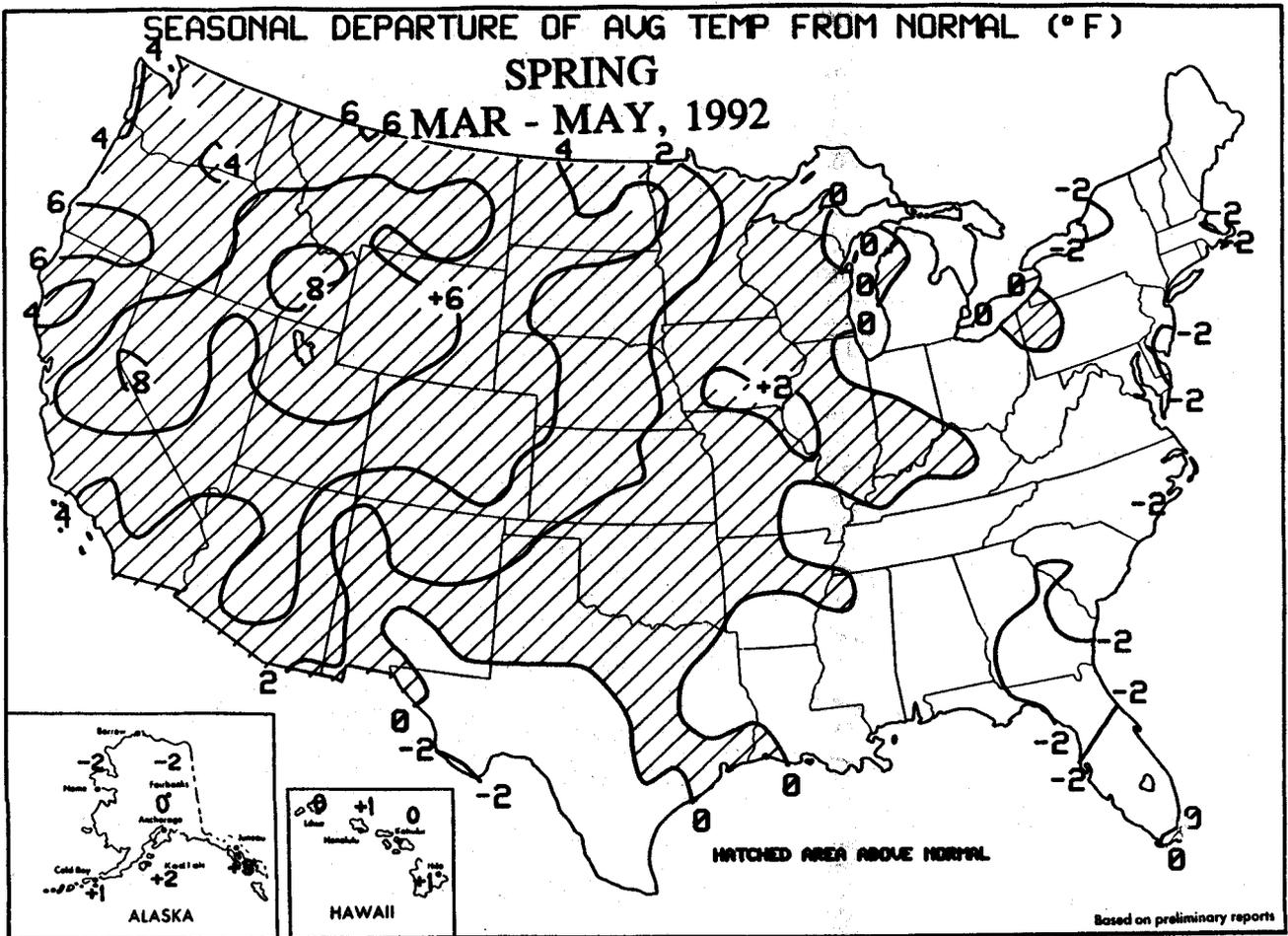
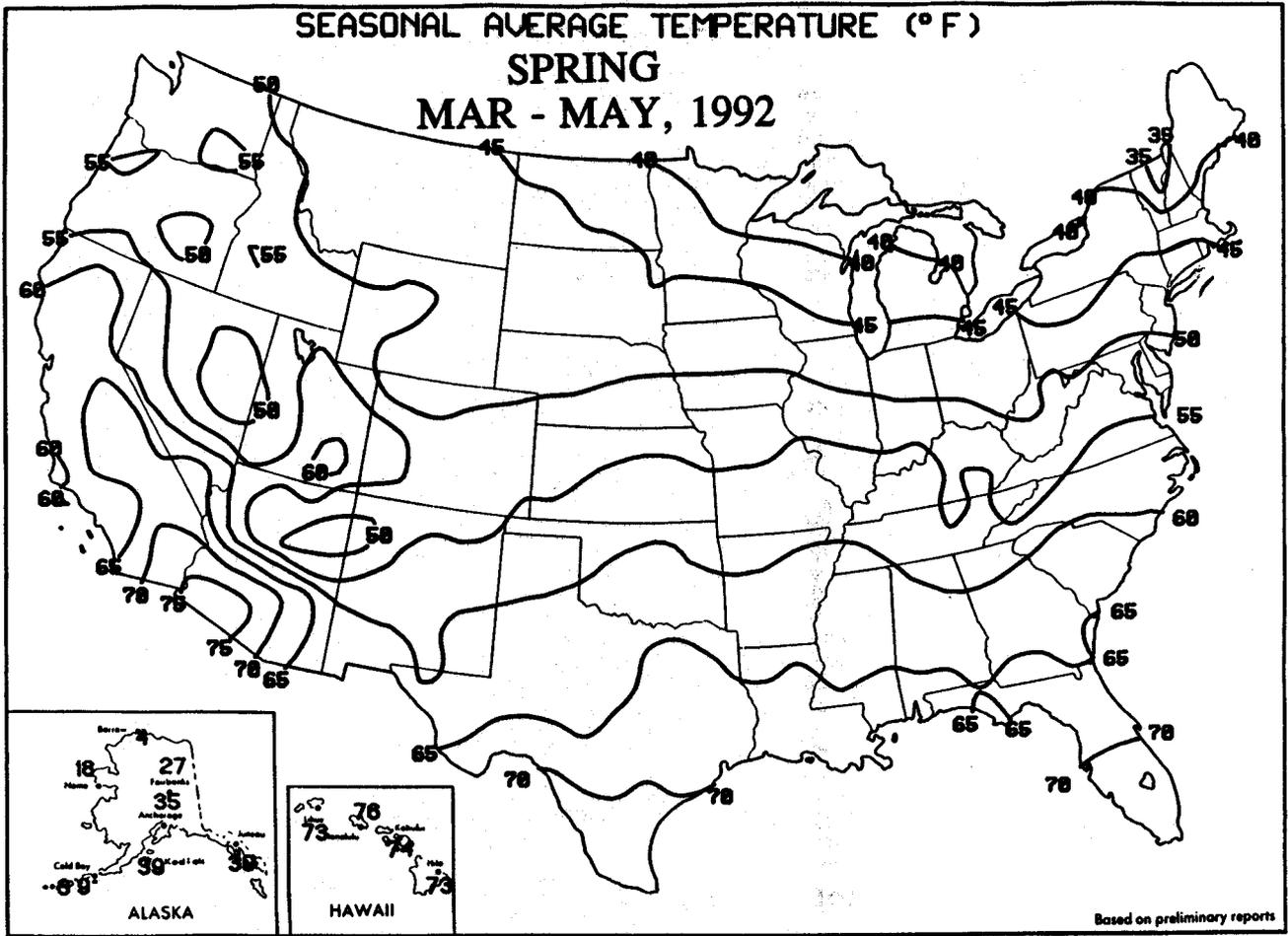
April 3. In the Northwest, frost covered interior valleys on April 5 and 23. But by late in the month, the year's first wave baked the West and the Great Plains. Valentine, NE, had its earliest ever  $100^{\circ}\text{F}$  reading at month's end. Monthly temperatures averaged up to  $9^{\circ}\text{F}$  above normal in the Great Basin, but continued to run below normal in the Eastern States.

Only one major storm interrupted an otherwise dry month. The storm brought rain to the Pacific Northwest and heavy, wet snow to the east-central Plains. Later, it produced the best soaking of the month in the Southeast. But areas not affected by the storm ended the month with significant precipitation shortfalls. One area extended from central California to the west-central Plains, and the other stretched from the Ohio Valley southward to the Mississippi Delta.

**MAY:** Cold outbreaks in the Central and Eastern States again contrasted with consistent warmth in the West. Sub-freezing readings edged into the northern and western Corn Belt on May 5 and 6. Farther east, the mid-Atlantic coastal lowlands reported frost on May 20 and 21. The most significant freeze struck the Great Lakes States on May 25 (Chicago, IL,  $32^{\circ}\text{F}$ ), and the west-central Plains on the May 26 (Goodland, KS,  $27^{\circ}\text{F}$ ).

Dryness intensified in three areas. In the Northwest, virtually no rain fell and average temperatures soared to 4 to  $10^{\circ}\text{F}$  above normal, assuring the region of summer water shortages. Dryness also expanded eastward through the northern Plains. And from the central Corn Belt to the Southeast, cool, dry weather hindered the establishment and growth of newly planted crops. In contrast, inundating rains returned to the southern Plains and Texas at mid-month, just in time to delay the winter wheat harvest. Parts of the Desert Southwest noted more than 10 times their normal May rainfall.





## National Agricultural Summary

June 15 - 21, 1992

**HIGHLIGHTS:** Severe storms traversed the Central States, bringing damaging winds, hail, and tornadoes to several areas. Attendant precipitation was welcomed in the Rocky Mountains, northern Great Plains, and Corn Belt. Warmer, drier weather in the southern Plains and Southeast allowed earlier delayed fieldwork to progress.

**SMALL GRAINS:** Winter wheat condition ratings improved slightly for the 19 major producing States, as rains were welcomed in the northern Plains and Mississippi Valley. Harvest advanced sharply with drier weather from the southern Plains through the Southeast, raising nationwide harvest progress to 17 percent (%) complete. Harvest progress remains, however, 25 percentage points behind last year and 13 points behind the 5-year average due to earlier rain delays. Sprouting was becoming a problem in Georgia, where winter wheat harvest is running 2 weeks behind normal. Spring wheat condition rebounded well with beneficial rains from the northern Rocky Mountains to the Great Lakes. Crop condition ratings improved in each of the five major producing States. Spring wheat heading advanced to 30% in the five major States, 4 points behind last year and 1 point behind the average. Heading of spring-seeded barley and oats continued to advance in the Rocky Mountains, while harvest progressed in the southern Atlantic Coast States.

**CORN:** Crop condition improved for the 17 major producing States, rating mostly good to fair, but remained well below last year's composite rating. Significant rainfall was received in much of the Corn Belt, but remained limited in southern Iowa and southern and eastern Illinois. Corn silking was advancing in the Southeast.

**SOYBEANS:** The soybean crop was rated in good to fair condition, but it too was rated lower than last year's at this time. Conditions improved following rains in most of the major producing States, although lower ratings were recorded for some central and southern producing States. Planting was 92% complete in the 19 major producing States, 1 point ahead of both last year and the historic average. Planting remained in full swing from the central Mississippi Valley through the Southeast, while only limited acreage remained to be planted in the northern producing States. Double-crop soybean planting was increasing in the Southern States, as drier weather allowed more winter wheat to be harvested.

**COTTON:** Cotton condition improved with drier, warmer weather in the southern Plains, Southwest, and Delta. Much of the acreage in New Mexico and Texas, however, remained in poor or very poor condition due to earlier rain damage. Cotton planting was 96% in the 14 major producing States, with acreage remaining to be planted only in Oklahoma and Texas. Squaring was evident on 34% of the cotton acreage, 6 points ahead of last year and 3 points ahead of the historic average. Hail and high winds again damaged some cotton fields in the Texas Plains and many producers replanted fields lost from earlier weather conditions. Boll weevil emergence continued heavy in Arkansas.

**GRAIN SORGHUM:** Grain sorghum condition improved for the 12 major producing States, with rainfall alleviating immediate shortages of soil moisture in the Great Plains. Mostly dry weather from Colorado through New Mexico, however, resulted in lower ratings. Planting advanced to 83% complete in the 12 major States, compared with 89% for both last year and the average. Planting continued to be slowed by rains in Kansas, was slightly behind schedule in Texas, but was ahead of normal in the other major States.

**RICE:** Rice condition continued to show improvement in the five major producing States, with ratings of mostly good to fair. Crop condition continued to rate fair in Arkansas and Mississippi, and mostly good in California, Louisiana, and Texas. Some zinc deficiency was reported in east-central Arkansas.

**OTHER FIELD CROPS:** Hay harvesting accelerated with drying conditions in the southern Plains and Southeast. First cut haying was well along throughout the Midwest and second cutting was becoming increasingly common. Sugar beet thinning was nearing completion in the Rocky Mountains. Tobacco harvest was starting in Florida and Georgia. Sweetpotato planting continued in the southern Delta. Peanut planting progressed rapidly as good weather allowed Texas producers to get into the fields. Early red potatoes were being harvested in Washington.

**FRUIT AND NUTS:** Arizona's orange, grapefruit, and grape harvests continued. Stonefruit picking was active in California, Valencia oranges were one-fourth harvested, and South Coast lemon picking was active. Florida citrus groves were in very good to excellent condition, with new crop fruit progressing well. Florida's Valencia harvest was almost over and grapefruit harvest was complete. Georgia peaches were in good condition, with harvest in full swing. Cherry harvest was active in the Pacific Northwest and Utah.

**VEGETABLES:** Melon, onion, and cabbage harvests continued in Arizona. California's asparagus season was drawing to a close, while carrot, celery, and sweet corn picking was increasing. Broccoli, cauliflower, and lettuce picking remained active. Florida's vegetable harvests were near completion in the central areas, but active in the north. Florida volume leaders were watermelons, tomatoes, and sweet corn. Harvest of green peas was winding down in Maryland, and cucumber and snap bean harvest was beginning. New Jersey vegetable crops were developing 2 weeks behind normal due to cool weather. Land preparation began for summer vegetables in Texas.

(Continued to back cover)

## Crop Progress

For Week Ending June 21, 1992

Cotton  
% Squaring

	Current	Last Wk	1991	Avg.
AL	54	30	48	53
AZ	78	59	63	82
AR	45	24	39	42
CA	45	25	40	38
GA	33	20	51	62
LA	86	55	33	47
MS	61	38	35	51
MO	14	4	27	31
NM	48	30	51	45
NC	5	2	41	2
OK	10	6	3	4
SC	16	6	51	34
TN	20	4	17	29
TX	20	16	18	19
14 States	34	22	28	31

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

Cotton  
% Planted

	Current	Last Wk	1991	Avg.
AL	100	99	100	100
AZ	100	100	100	100
AR	100	100	100	100
CA	100	100	100	100
GA	100	97	100	100
LA	100	100	100	100
MS	100	100	99	100
MO	100	100	100	100
NM	100	99	100	100
NC	100	100	100	100
OK	66	58	86	81
SC	100	100	100	100
TN	100	100	100	100
TX	93	85	90	93
14 States	96	92	95	96

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

Spring Wheat  
% Headed

	Current	Last Wk	1991	Avg.
ID	54	39	7	24
MN	26	6	52	44
MT	25	2	6	19
ND	21	3	31	25
SD	74	40	69	62
5 States	30	9	34	31

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

Grain Sorghum  
% Planted

	Current	Last Wk	1991	Avg.
AR	100	99	98	97
CO	81	44	68	75
IL	98	90	100	88
KS	65	55	85	85
LA	99	97	82	95
MS	100	96	86	96
MO	95	93	90	90
NE	100	100	100	99
NM	79	52	75	NA
OK	80	66	89	75
SD	90	82	85	87
TX	88	84	91	92
12 States	83	76	89	NA
Excl. States with NA	83	76	89	89

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

NA - not available.

Winter Wheat  
% Harvested

	Current	Last Wk	1991	Avg.
AR	55	12	88	79
CA	45	20	40	43
CO	0	0	0	0
GA	64	37	95	94
ID	0	0	0	0
IL	2	0	46	27
IN	2	0	29	11
KS	10	1	60	30
MI	0	0	0	0
MO	15	1	57	38
MT	0	0	0	0
NE	0	0	0	2
NC	25	8	87	60
OH	0	0	12	2
OK	45	7	70	68
OR	0	0	0	0
SD	0	0	0	0
TX	38	16	62	51
WA	0	0	0	0
19 States	17	4	42	30

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

Soybeans  
% Planted

	Current	Last Wk	1991	Avg.
AL	84	74	70	78
AR	71	56	73	75
GA	77	60	81	84
IL	99	98	100	97
IN	99	99	98	94
IA	100	100	95	98
KS	75	65	90	85
KY	68	60	80	76
LA	87	80	51	75
MI	100	96	96	96
MN	99	99	99	99
MS	81	75	67	74
MO	85	79	82	80
NE	100	100	100	99
NC	70	62	82	74
OH	99	98	100	90
SC	61	52	78	78
SD	100	100	96	98
TN	70	64	58	74
19 States	92	89	91	91

These 19 states produced 95%  
of the 1991 soybeans crop.

### Crop Condition

Percent  
For Week Ending June 21, 1992

Rice					
State	VP	P	F	G	EX
AR	0	0	51	49	0
CA	0	0	10	85	5
LA	0	0	32	59	9
MS	0	0	56	44	0
TX	0	0	21	56	23
5 State	0	0	39	56	5
Prev Week	0	0	49	48	3
Prev Year	0	3	40	52	5

Spring Wheat					
State	VP	P	F	G	EX
ID	3	12	27	52	6
MN	2	6	35	55	2
MT	6	24	30	33	7
ND	0	1	34	55	10
SD	1	23	38	38	0
5 State	2	9	34	48	7
Prev Week	5	17	35	42	1
Prev Year	1	1	11	67	20

Sorghum					
State	VP	P	F	G	EX
AR	0	0	51	45	4
CO	0	5	38	43	14
IL	0	0	34	66	0
KS	3	7	30	52	8
LA	0	2	41	57	0
MS	0	0	18	82	0
MO	1	8	59	32	0
NE	0	4	28	64	4
NM	0	0	32	68	0
OK	0	1	13	86	0
SD	0	17	32	49	2
TX	0	4	34	48	14
12 State	1	5	33	53	8
Prev Week	2	6	38	47	7
Prev Year	0	2	24	60	14

Cotton					
State	VP	P	F	G	EX
AL	0	0	12	88	0
AZ	0	0	12	63	25
AR	0	0	68	32	0
CA	0	0	5	80	15
GA	0	2	41	57	0
LA	0	2	30	58	10
MS	0	0	41	59	0
MO	0	0	78	22	0
NM	27	37	18	18	0
NC	4	10	39	47	0
OK	1	20	64	15	0
SC	0	0	57	43	0
TN	0	4	70	26	0
TX	22	24	40	12	2
14 State	10	13	41	33	3
Prev Week	11	17	40	29	3
Prev Year	0	9	43	45	3

Corn					
State	VP	P	F	G	EX
CO	1	9	29	53	8
GA	0	0	10	61	29
IL	0	7	56	36	1
IN	0	4	37	55	4
IA	0	5	33	53	9
KS	7	9	27	42	15
KY	1	3	20	67	9
MI	0	10	30	45	15
MN	0	4	26	63	7
MO	1	7	58	33	1
NE	0	6	29	63	2
NC	0	1	17	69	13
OH	1	5	29	52	13
PA	1	4	20	54	21
SD	1	9	22	60	8
TX	0	0	14	56	30
WI	2	7	42	46	3
17 State	0	6	35	52	7
Prev Week	1	6	41	47	5
Prev Year	0	2	19	60	19

Soybeans					
State	VP	P	F	G	EX
AL	0	0	26	61	13
AR	0	4	37	59	0
GA	0	0	32	67	1
IL	0	7	62	29	2
IN	0	4	37	56	3
IA	1	2	37	56	4
KS	0	5	27	56	12
KY	0	4	25	64	7
LA	0	1	68	31	0
MI	0	5	30	50	15
MN	1	3	28	61	7
MS	0	0	39	44	17
MO	2	6	60	32	0
NE	0	1	22	72	5
NC	0	1	27	71	1
OH	1	5	33	48	13
SC	0	0	39	61	0
SD	3	2	21	67	7
TN	0	2	36	62	0
19 State	1	4	40	50	5
Prev Week	0	5	44	48	3
Prev Year	0	4	26	62	8

Winter Wheat					
State	VP	P	F	G	EX
AR	0	0	9	75	16
CA	0	0	5	75	20
CO	13	12	38	34	3
GA	0	7	35	58	0
ID	5	11	31	49	4
IL	12	8	46	34	0
IN	3	18	53	25	1
KS	10	19	42	23	6
MI	1	9	30	50	10
MO	2	16	59	14	9
MT	17	29	25	25	4
NE	22	22	43	13	0
NC	0	5	29	62	4
OH	2	11	34	45	8
OK	0	5	62	33	0
OR	5	20	60	15	0
SD	17	34	32	16	1
TX	0	5	37	51	7
WA	4	58	26	12	0
19 State	7	16	41	32	4
Prev Week	7	14	44	32	3
Prev Year	6	13	42	33	6

## 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 mostly 1.00 to 2.00 in. north, east; light to none central, southwest. Temperatures near normal.

Days suitable for fieldwork 4.0. Soil moisture 4% short, 83% adequate, 13% surplus. Weed problems escalated due to recent wet conditions; spray programs implemented. Corn 47% silked, 66% 1991, 67% avg.; corn condition 16% fair, 66% good, 18% excellent. Sorghum 81% planted, 76% 1991, 82% avg.; sorghum condition 14% fair, 79% good, 7% excellent. Peanuts 22% pegging, 15% 1991, 23% avg.; peanut condition 41% fair, 59% good. Cotton 100% planted, 100% 1991, 100% avg.; 54% squaring, 48% 1991, 53% avg.; 1% setting bolls, 1% 1991, 5% avg.; 12% fair, 88% good. Soybeans 84% planted, 70% 1991, 78% avg.; 26% fair, 61% good, 13% excellent. Winter wheat 63% harvested, 84% 1991, 78% avg.; 16% fair, 66% good, 18% excellent. First hay 90% harvested, 85% 1991, 88% avg. Pasture 3% poor, 26% fair, 64% good, 7% excellent. Livestock 15% fair, 80% good, 5% excellent. Primary activities: Spraying, cultivating row crops; scouting fields for insects; planting sorghum, soybeans; harvesting small grains, hay, fruits, vegetables; repairing equipment; general care of livestock, poultry, catfish.

**ALASKA:** Railbelt temperatures near or in excess of 70°, all areas had some very welcome showers. Highs 5° below normal to 1° above normal. Lows 5° below normal to 3° above normal. Seasonal precipitation 1.38 in. wetter than normal at Fairbanks to 1.05 in. drier than normal at Kenai.

Days suitable for fieldwork 5.0. Topsoil 45% short, 52% adequate, 3% surplus. Subsoil 28% short, 69% adequate, 3% surplus. Small grain pre-boot stage, heights 2.00 to 10.0 in. First cutting hay underway on a few farms versus nearly 25% complete, a year ago. Commercial potato heights: just emerging to 6 in. Crop growth; 25% slow, 35% moderate, 40% rapid.

**ARIZONA:** Sunny, warm 14th to 20th. Temperature normal to 7° below normal. Extremes 33°; 101°, higher elevations, 48°; 107° deserts.

Cotton squaring 78%, 63% 1991, 82% avg.; setting bolls 12%, 7% 1991, 40% avg.; 12% fair, 63% good, 25% excellent; weeds, light to moderate, insects light. Alfalfa good to excellent; weeds, insects mostly light statewide; harvest, active. Small grains harvested, 84%, 71% 1991, 84% avg. Oranges, grapefruit, cantaloupe, watermelon, honeydews, grapes harvested west, central. Potatoes, mixed vegetables harvested, central. Dry onions, cabbage harvested central, east. Cherries harvested, east.

**ARKANSAS:** Temperatures near normal statewide, scattered showers statewide. Temperatures 50°; 90°. Rainfall none to 3.00 in.

Days suitable for fieldwork 5. Soil moisture 80% adequate, 20% surplus. Main farming activities: Planting, applying herbicide, fertilizer to rice, harvesting wheat, oats, scouting, cultivating cotton, weevil treatment,

pasture weed control, hay harvesting, working cattle. Rice mostly fair to good. Some zinc deficiency in east central. Wheat mostly good. Wheat being harvested at frantic pace as fields. Cotton emerged 100%, 99% 1991, 99% avg. Boll weevil emergence reported heavy in producing regions. Soybeans emerged 63%, 56% 1991, 60% avg. Plantings progressing as wheat is harvested. Grain sorghum emerged 98%, 83% 1991, 89% avg. Corn 8% fair, 82% good, 10% excellent. Tasseling reported statewide. Peach harvest continuing west central. Livestock good. Producers continue seasonal spraying for ticks, flies. Fly populations increasing in southwest. Pastures mostly good. Hay harvesting accelerating with drying conditions.

**CALIFORNIA:** Cold low pressure dropped temperatures, weak systems brought thunderstorms clouds light rain early in week. High pressure rebuilt. By weekend, temperatures above normal.

Good progress field activities, despite isolated showers. Small grain harvest active, followed by straw baling, stubble burning, ground preparation second crop plantings. Cool temperatures slowed growth corn, cotton, rice, safflower. Cotton treated lygus, mites, stinkbugs, weeds. Rice sprayed weeds, water weevils. Planting still underway, few areas. Alfalfa cut hay, green chopped. Some fields treated weevils. Herbicide applications, grain corn, silage corn. New crop sugarbeets irrigated, weeded, sprayed mildew. Garbanzo beans, over-wintered sugar beets harvested. Stonefruit picking active. Nectarines, Freestone peaches one third harvested. Plums one fourth picked. Apricot harvest near end. Fresh grape harvest active in desert area. Irrigation, mildew control active in San Joaquin Valley vineyards. Valencia oranges one fourth harvested. South Coast lemon picking active with good quality. Spraying active in nut crops for codling moth, Navel orange worm. Strawberry harvest continued good to very good demand, variable quality Salinas-Watsonville, Santa Maria. Asparagus season drawing to a close light shipments Salinas Valley. Broccoli moderate, good quality Salinas-Watsonville, Santa Maria. Cauliflower fairly light Salinas-Watsonville, Santa Maria variable quality. Carrot fairly heavy Kern district. Celery moderate, seasonally increasing Salinas-Watsonville, moderate Santa Maria variable quality. Harvest continued steady Oxnard. Sweet corn harvest began Clovis district, continued Coachella Valley, in full swing Kern-Tulare area good quality. Iceberg lettuce moderate Salinas-Watsonville, fairly heavy Santa Maria variable quality. Leaf, Romaine lettuce moderate, variable quality Salinas-Watsonville. Cantaloupe, honeydew, watermelon, mixed melons Westside, desert areas good quality. Cool afternoon temperatures slowed melon growth Sacramento Valley. Spring onion packing continued central valley, desert growing areas. Desert acreage having problems with thrips. Spring potato digging progressed Kern-Tulare district. Fall potatoes growing normally Tulelake-Butte Valley. Fresh market tomato harvest increased central valley areas.

Processing tomato volume continued desert, central valley fields showing color, sizing well. Cool afternoon weather slowed tomato development Sacramento Valley. Other vegetables harvested: beans, cucumbers, garlic, peppers, various oriental vegetables. Range, pasture poor to good, poor in northeast. Fire hazard remains. Water supplies adequate, critical some areas. Supplemental feeding light to moderate. Cattle, sheep good condition. Bees active in seed alfalfa, melon fields.

**COLORADO:** Dry, windy weather dominated the eastern plains on June 15th through 17th. Severe thunderstorms with large hail, damaging winds affected the eastern plains on June 19 through the weekend. Temperatures 1 to 2° below normal.

Days suitable for fieldwork 5.9. Soil moisture 2% very short, 27% short, 68% adequate, 13% surplus. Alfalfa 1st cutting 57%, 32% 1991, 55% avg. Barley headed 35%, 45% 1991, 30% avg. Oats headed 61%, 42% 1991, 33% avg. Spring wheat headed 28%, 12% 1991, 18% avg. Dry beans planted 73%, 68% 1991, 80% avg.; emerged 45%. Sorghum planted 81%, 68% 1991, 75% avg.; emerged 60%. Fall potatoes emerged 85%, 35% 1991, 61% avg. Winter wheat turning color 69%, 29% 1991, 38% avg.; ripe 4%. Sugarbeets thinned 92%, 82% 1991, 88% avg. Winter wheat 13% very poor, 12% poor, 38% fair, 34% good, 3% excellent. Corn 1% very poor, 9% poor, 29% fair, 53% good, 8% excellent. Livestock mostly good. Pasture, range feed improved to good to excellent.

**FLORIDA:** Temperatures; 1 to 2° above normal Panhandle, Big Bend, around normal central, south. Lows; middle 60s north, around 70s south. Highs; low, middle 90s over State. Rained on 1 to 4 days across State, amount varied over wide range. Rainfall; north, central Peninsula under 0.25 in., local areas over 1.00 in. south, 0.50 to 1.00 in., over 2.00 in. isolated locations.

Soil moisture adequate to surplus Panhandle, northern Peninsula; short to adequate central, southern Peninsula. Soybean planting active. Tobacco harvest starting. Cotton, peanut planting complete. Haying active. Corn, tobacco, sugarcane making good progress. Citrus groves very good to excellent. Rain spotty, more needed. A lot of new foliage. New crop fruit making good progress. Valencia harvest almost over, grapefruit harvest complete. Caretakers cutting cover crops, spraying, fertilizing, pushing dead trees, planting young trees. Hot days, warm nights, frequent shower activity continued over the major vegetable producing areas. Harvest near complete central areas, active northern areas. Volume leaders: watermelons, tomatoes, potatoes, sweet corn. Also available: carrots, celery, cucumbers, eggplant, peppers, squash, cherry tomatoes. Radish harvest complete. States pastures fair to excellent. Pasture ratings, 20% fair, 65% good, 15% excellent. Moisture levels mostly adequate. States cattle herds fair to good.

**GEORGIA:** Some rain nearly all locations. Central less than 0.25 in., north 0.33 to 1.50 in., south 0.25 in. to nearly 3.00 in. Highs 80s north, low to mid 90s south. Lows low 50s north, mid 60s south.

Days suitable for fieldwork 3.9. Soil moisture 1% short, 74% adequate, 25% surplus. Corn 76% silked, 94% 1991, 86% avg.; 27% dough, 63% 1991, 47% avg.; 5% dent, 22% 1991, 14% avg.; some improved. Cotton 2% setting bolls, 7% 1991, 9% avg.; improved, development over week

behind normal. Sorghum 21% poor, 78% fair, 1% excellent; 87% planted, 92% 1991, 90% avg. Peanuts 30% fair, 69% good, 1% excellent; 60% blooming, 72% 1991, 75% avg.; 16% pegging, 35% 1991, 34% avg.; some improved, development slow. Soybeans 2% blooming, 5% 1991, 3% avg.; decline, planting week behind average. Tobacco 14% fair, 73% good, 13% excellent; 2% harvested, 13% 1991, 8% avg. Wheat harvest 2 plus weeks behind average, sprouting problems some areas. Other small grains harvest delays. Watermelons 12% poor, 40% fair, 48% good; 3% harvested, 24% 1991, 17% avg. Other vegetables 2% poor, 51% fair, 45% good, 2% excellent; rains causing delays in spray schedules. Apples 1% poor, 4% fair, 95% good. Peaches 1% very poor, 3% poor, 18% fair, 78% good; 42% harvested, 65% 1991, 61% avg. Hay, pastures mostly good, rain delayed hay harvest. Cattle, hogs good. Activities: Other activities included mowing pastures, spraying for pest control, cultivating row crops, routine farm chores.

**HAWAII:** High pressure system brought gusty trade winds, rainfall. Many crop areas benefitted from rainfall, others depended on irrigation to maintain adequate crop development. Farming activities on schedule during the week. Temperatures high 60s to high 80s with warm days, cool nights. Rainfall none to 2.50 in.

Banana production steady, papaya output increased. Sweet corn harvesting active, moderate to heavy picking. Watermelon crop made good progress. Sugarcane benefitted from rain.

**IDAHO:** Temperatures above normal throughout State. Precipitation fell across State, with the north recording the greatest amounts.

Days suitable for fieldwork 5. Soil moisture 21% very short, 47% short, 32% adequate. Spring barley headed 52%, 10% 1991, 25% avg. Sugarbeets thinned 96%, 91% 1991, 94% avg. Potatoes emerged 99%, 83% 1991, 91% avg.; 46% over twelve inches, 8% closing middles. Potatoes good. First cutting alfalfa 81%, 53% 1991, 57% avg. Field corn emerged 99%, 96% 1991, 98% avg. Dry beans planted 98%, 99% 1991, 95% avg.; emerged 80%, 74% 1991, 81% avg. Cherries harvested 21%, 0% 1991, 23% avg. Irrigation water supplies 17% very poor, 36% poor, 28% fair, 19% good, 0% excellent. Activities: cultivating, thinning sugarbeets, cutting alfalfa, irrigation, weed, insect control. Pasture, range 56% of normal. Livestock good.

**ILLINOIS:** Strange week going from unseasonable heat to unseasonable cold, with showers, thunderstorms. Temperatures high 50s to the high 70s across State. Precipitation across State below 0.25 to over 1.00 in.

Days suitable for fieldwork 6.0. Soil moisture 85% short, 15% adequate. Corn average height 22 in., 40 in. 1991, 31 in. avg.; average height advanced 35 in., 60 in. 1991, 46 in. avg. Soybeans blooming 2%, 17% 1991, 9% avg.; turning yellow 96%, 99% 1991, 94% avg. Winter wheat ripe 25%, 93%, 1991, 64% avg. Alfalfa first cutting 98%, 100% 1991, 88% avg.; second cutting 7%, 22% 1991, 18% avg.; 1% excellent, 27% good, 53% fair, 17% poor, 2% very poor. Red clover cut 89%, 86% 1991, 78% avg. Oats headed 88%, 93% 1991, 87% avg.; filled 35%, 75% 1991, 58% avg.; turning yellow 3%, 37% 1991, 21% avg.; 2% excellent, 34% good, 53% fair, 11% poor. Pasture 70% of normal.

**INDIANA:** Temperatures 1 to 7° below normal. Highs mid 70s to mid 80s. Lows, low 50s to low 60s. Precipitation 0.70 to 4.00 in. Some flash flooding in central areas.

Days suitable for fieldwork 5.0. Topsoil 28%

short, 53% adequate, 19% surplus. Subsoil 44% short, 51% adequate, 5% surplus. Corn height 22 in., 38 in. 1991, 27 in. avg. Soybean height 6 in., 11 in. 1991, 7 in. avg. Wheat in milk 87%; turned color 51%, 89% 1991, 87% avg.; ripe 10%, 70% 1991, 39% avg. Oats headed 73%, 99% 1991, 75% avg.; 21 in. high. Tobacco set 99%. Alfalfa hay 1st cutting 94%, 98% 1991, 89% avg. Pasture 82%, 83% last week, 84% last year. Potential frost damage in some areas of north. Growers concerned with spread of wheat diseases.

**IOWA:** Temperatures 0 to 3° below normal. Extremes 37°; 92°. Moderate to heavy rain north, west; only light rain in very dry east central, southeast. Precipitation 0.10 to 4.61 in.; average 1.27 in., normal 1.08 in. Record low temperature 21st.

Days suitable for fieldwork 5.3. Topsoil 57% short, 39% adequate, 4% surplus. Subsoil 29% short, 69% adequate, 2% surplus. Winter wheat 14% very poor, 17% poor, 48% fair, 21% good. Hay 5% very poor, 16% poor, 50% fair, 25% good, 4% excellent. Oats 1% very poor, 10% poor, 42% fair, 42% good, 5% excellent. Pasture 8% very poor, 29% poor, 38% fair, 20% good, 5% excellent. Corn cultivated first time 81%, 63% 1991, 76% avg. Soybean 99% emerged, 84% 1991, 94% avg.; cultivated first time 44%, 29% 1991, 48% avg. Oats headed 81%, 75% 1991, 85% avg. First cutting alfalfa 93% harvested, 81% 1991, 85% avg. First cutting clover 70% harvested, 55% 1991, 58% avg. Livestock mostly good. However, the higher temperatures early in the week caused some stress on confined livestock.

**KANSAS:** Temperatures near normal over State; 3° above normal northeast, 1° above normal central, 2° below normal northwest, southwest, south central, 1° below normal north central, normal remainder State. Precipitation received all districts. Rainfall 0.10 in. west central to 1.95 in. south central.

Days suitable for fieldwork 4.0. Surface moisture 6% short, 79% adequate, 15% surplus. Subsurface moisture 21% short, 69% adequate, 10% surplus. Wheat mostly fair to poor; harvest begun in south. Sunshine, warm temperatures dried wheat fields, machines can operate some areas. Scattered storms delay planting, harvest some areas. Very severe storm south central area last 26th. Wind, large hail. Much damage. In some areas crops destroyed. Sorghum, soybean planting progressed; slowed by wet fields. Pastures fair southwest, good elsewhere. Stockwater adequate over State. Approximately 95% alfalfa cut first time. Ten percent cut second time.

**KENTUCKY:** High temperatures around 80° northeast, upper 80s west; 3 to 5° below normal northeast, near normal west. Low temperatures around 60° east, mid 60s west; 2° to 5° above normal. Extremes 46°; 95°. Rainfall very heavy central, east, 1.00 to 3.00 in. amounts common. West mostly less than 0.25 in.

Days suitable for fieldwork 3.7. Soil moisture 35% surplus, 57% adequate, 7% short, 1% very short. Flooding in river bottoms, lowlands damaged crops. Good growth on corn, some yellowing due to excess moisture. Single crop soybean planting active, double crop will gain as wheat harvest progresses. Tobacco mostly good to fair. Tobacco resetting necessary in lowlands, availability of additional plants may be limited. Second cutting alfalfa underway. Hay baling delayed by showers, quality low due to rain, over maturity. Pastures mostly good to excellent.

**LOUISIANA:** Temperatures 1.0 to 2.3° above normal. Extremes 58°; 97°. Rainfall 0.03 in. west central, south central to 2.00 in. northeast.

Days suitable for fieldwork 4.4. Soil moisture 7% short, 72% adequate, 21% surplus. Corn 24% fair, 73% good, 3% excellent; 94% silked, 92% 1991, 77% avg.; 35% dough stage, 46% 1991, 28% avg. Cotton 1% setting bolls, 0% 1991, 4% avg. Weed control active. Hay 83% first cutting, 50% 1991, 73% avg. Peaches 2% poor, 80% fair, 17% good, 1% excellent; 40% harvested, 31% 1991, 30% avg. Rice 100% emerged, 95% 1991, 99% avg.; 21% headed, 14% 1991, 8% avg. Water weevil problems continued, fungi problems beginning, southwest. Sorghum 95% emerged, 76% 1991, 91% avg.; 16% headed, 19% 1991, 7% avg. Soybeans 84% emerged, 41% 1991, 65% avg. Weed control active. Sugarcane 2% fair, 59% good, 39% excellent. Sweet potatoes 20% fair, 80% good; 71% planted, 71% 1991, 76% avg. Wheat 91% harvested, 92% 1991, 93% avg. Livestock 19% fair, 72% good, 9% excellent. Pastures 1% very poor, 1% poor, 5% fair, 90% good, 3% excellent. Vegetables 5% poor, 37% fair, 55% good, 3% excellent. Scouting for insects active in cotton.

**MARYLAND & DELAWARE:** MARYLAND: Precipitation 0.27 in. Temperature 71.0°, normal 72.3°. Extremes 46°; 89°.

Days suitable for fieldwork 5.5. Topsoil 45% short, 55% adequate. Subsoil 41% short, 59% adequate. Sweet corn 96% planted, 90% 1991, 92% avg. Soybeans 69% planted, 76% 1991, 69% avg.; balance awaiting small grain harvest. Sorghum 87% seeded, 95% 1991. Small grains good, remain 10 to 14 days late; barley 34% harvested, 91% 1991, 55% avg. Wheat 66% turned, 99% 1991, 85% avg.; harvest just beginning. Pastures in mostly excellent. Active cutting, baling hay. Alfalfa second cutting 10%. Light to moderate disease, insect pressure on vegetables, wheat. Tobacco 87% transplanted, 94% 1991, 86% avg. Harvest of green peas winding down, most strawberry fields providing current harvest. Apples, peaches good, fruit near normal. Cucumber, snap bean harvest beginning. Most crops need warmer temperatures.

DELAWARE: Precipitation 0.26 in. Temperature 69.7°, normal 72.8°. Extremes 50°; 87°.

Days suitable for fieldwork 6.0. Topsoil 33% short, 67% adequate. Subsoil moisture 14% short, 86% adequate. Soybeans 67% planted, 75% 1991, 75% avg. Small grains good, barley 57% harvested, 88% 1991, 46% avg. Rye 64% turned, wheat 92%, oats 57%. Active planting lima, snap beans, harvesting green peas. Almost all hay fields have been cut once, second cutting beginning. Light to moderate disease, insect pressure on small grains, some spraying.

**MICHIGAN:** Temperatures 1 to 7° below normal. Extremes 34°; 95°. Precipitation 0.40 to 2.03 in. across State.

Days suitable for fieldwork 5.5. Soil moisture 60% short, 40% adequate. Corn 10% poor, 30% fair, 45% good, 15% excellent. Soybeans 100% planted, 96% 1991, 96% avg.; 5% poor, 30% fair, 50% good, 15% excellent. Dry beans 85% planted, 85% 1991, 65% avg. Pasture 60% of normal. Major activities: Equipment cleaning, pruning, spraying, surveying storm damage.

**MINNESOTA:** Temperatures 4 to 7° below normal. Extremes 31°; 92°. Precipitation 2.00 to 3.50 in. State, 1.00 to 2.50 in. above normal. Greatest weekly total 6.96 in.

Days suitable for fieldwork 2.4. Topsoil 1% very short, 7% short, 71% adequate, 21% surplus.

Spring wheat 71% jointing, 94% 1991, 87% avg.; 26% heading, 52% 1991, 44% avg. Oats 90% jointing, 92% 1991, 91% avg.; 45% heading, 49% 1991, 58% avg. Barley 66% jointing, 95% 1991, 85% avg.; 21% heading, 64% 1991, 47% avg. Corn 68% cultivated once, 50% 1991 72% avg.; 18 in. avg. height, 18 in. 1991, 19 in. avg. Soybean 44% cultivated once, 28% 1991, 52% avg.; 7 in. avg. height, 5 in. 1991, 7 in. avg. Alfalfa hay 85% first cutting, 77% 1991, 75% avg.

**MISSISSIPPI:** Temperatures 80°, 1.4 above normal. Extremes 52°, 98°. Rainfall above average across State. Rainfall 0.08 to 0.90 above normal. Soil temperatures 83°.

Days suitable for fieldwork 4.6, 5.1 1991, 4.1 avg. Soil moisture 83% adequate, 13% surplus, 4% excessive. Corn 45% silking, 51% 1991, 42% avg.; dough 12%, 12% avg.; 21% fair, 75% good, 4% excellent. Cotton 61% squaring, 35% 1991, 51% avg.; 41% fair, 59% good. Peanuts 90% planted, 86% 1991, 94% avg. Rice 56% good, 44% excellent. Sorghum 96% emerged, 81% 1991, 93% avg.; 8%. 18% fair, 82% good. Soybeans 81% planted, 67% 1991, 74% avg.; 74% emerged, 49% 1991, 62% avg.; 39% fair, 58% good, 3% excellent. Sweet potatoes 65% planted, 85% 1991, 89% avg. Wheat 96% mature, 100% 1991, 99% avg.; 60% harvested, 86% 1991, 82% avg.; 39% fair, 44% good, 17% excellent. Hay 50% harvested, 41% 1991, 40% avg. Peaches 46% harvested, 33% 1991, 40% avg.; 7% very poor, 8% poor, 54% fair, 23% good, 8% excellent. Pecans 16% very poor, 21% poor, 42% fair, 16% good, 5% excellent. Livestock 88% good, 12% excellent. Pasture 91% of normal. Activities: Weed, insect control, planting soybeans.

**MISSOURI:** Temperatures about normal except northeast slightly above normal. Rainfall 0.28 in., none southeast district to less than 0.50 in. all other districts. Parts of Worth, Mercer, Monroe Counties received over 2.00 in.

Days suitable for fieldwork 5.5. Topsoil 52% short, 46% adequate, 2% surplus. Subsoil 45% short, 54% adequate, 1% surplus. Moisture mostly adequate southern third, most northern counties becoming dry, especially northeast. Sorghum, single crop soybean planting near completion all districts except southwest where excess moisture delayed fieldwork. Double crop soybean planting 23% southeastern district, not yet begun northern districts. Wheat harvest 68% southeastern district, getting started east central, southwest, south central. Oat harvest 2%, 10% 1991, 8% avg. Alfalfa first cutting 92%, 93% 1991, 92% avg.; 2nd cutting 7%, 17% 1991, 21% avg. Other hay cut 56%, 66% 1991, 64% avg. Pasture 6% very poor, 20% poor, 48% fair, 22% good, 4% excellent.

**MONTANA:** Temperatures near to slightly above normal. Major spring storm hit the State early last week. Precipitation statewide with heavy amounts in southern portion east of divide.

Days suitable for fieldwork 3.0. Topsoil 24% short, 71% adequate, 5% surplus. Subsoil 41% short, 57% adequate, 2% surplus. Winter Wheat 71% headed, 62% 1991, 69% avg. Barley 28% headed, 8% 1991, 18% avg. Oats 20% headed, 8% 1991, 22% avg. Pasture, range feed 64%, increased 12 points from last week. Alfalfa hay 18% harvested, 22% 1991, 32% avg.

**NEBRASKA:** Temperatures 2 to 5° below normals. Precipitation occurred first half of the week varying from 0.10 in. to over 2.60 in.

Days suitable for fieldwork 3.6. Topsoil 6% short, 87% adequate, 7% surplus. Subsoil 21%

short, 78% adequate, 1% surplus. Wheat 22% very poor, 22% poor, 43% fair, 13% good; 74% turning color, 72% 1991, 71% avg. Corn 6% poor, 29% fair, 63% good, 2% excellent. Soybean 1% poor, 22% fair, 72% good, 5% excellent. Sorghum 4% poor, 28% fair, 64% good, 4% excellent. Alfalfa 6% poor, 24% fair, 56% good, 14% excellent; first cutting 99%, 85% 1991, 90% avg.; second cutting 2%, 0% 1991, 2% avg. Pasture, range 86% of normal.

**NEVADA:** Strong cold front moved through the State at the end of the previous week, bringing unseasonable cold air along with precipitation across the northern, central areas of the State. Mountain areas received light dusting of snow. Temperatures 3 to 9° below normal. Extremes 29°; 104°. Precipitation 0.65 northwest, 0.40 northeast, 0.19 central to none in south. Largest precipitation 1.16 in. northwest.

Alfalfa harvest hampered by scattered thundershowers, gusty winds some areas. Current prices for Alfalfa up for new crop, good quality. Irrigation, hay harvest, weed control, caring for livestock, maintenance major activities.

**NEW ENGLAND:** Precipitation none to 1.05 in. throughout region. Temperatures low to high 60s throughout the region; 2° below normal to 3° above normal. Maximum temperatures low 80s to low 90s; minimum temperatures low 30s north to high 30s south.

Days suitable for fieldwork 6. Soil moisture 3% very short, 62% short, 32% adequate, 3% surplus. Available grazing 6% very short, 34% short, 57% adequate, 3% surplus. Fieldwork progress 2 days behind schedule. Maine potatoes 88% emerged, 88% 1991, 87% avg.; fair to good. Rhode Island potatoes 100% emerged, 100% 1991, 99% avg.; good. Connecticut River Valley potatoes 100% emerged, 99% 1991, 96% avg.; good. Maine oats 100% emerged; good. Field corn 99% planted, 99% 1991, 95% avg.; 92% emerged, 95% 1991, 87% avg.; good. Sweet corn 96% planted, 95% 1991, 91% avg.; 89% emerged, 88% 1991, 83% avg.; good. First cut hay 70% harvested, 71% 1991, 56% avg.; fair. Shade tobacco 97% transplanted; good. Outdoor tobacco 83% transplanted; good. Apple set, fruit drop average, scab infection light. Pear, peach set average. Cranberries in scattered bloom stage. Strawberries set average, 27% harvested. Blueberries set average. Major farm activities: Nitrate testing, pesticide spraying, fertilizing, harvesting of vegetables, strawberries, haying.

**NEW JERSEY:** Temperatures below normal. Extremes 41°; 88°. Rainfall 0.90 in. north, 2.56 in. central, 0.47 in. south. Heaviest 24 hour total 5.16 in. on 19th, 20th. Estimated soil moisture, in percent field capacity, averaged 77% north, 74% central, 49% south. Four inch soil temperatures 65° north, 67° central, south.

Soil moisture content is short to adequate depending on area. Potatoes being irrigated. Asparagus in light, declining volume. Cucumbers in light, increasing volume. Fava beans, beets, Chinese cabbage, endive, escarole in moderate supply. Squash, cabbage, lettuce, leeks, parsley in good supply. Crop development two weeks behind due to cool weather. Blueberry harvest delayed. Strawberry harvest almost complete in central, south Jersey. Barley cutting underway in south Jersey. Cutting alfalfa. Pastures in some areas could use more rain.

**NEW MEXICO:** Hot days, cool nights across State, with average temperatures near or slightly below normal. Light precipitation was recorded in the

southwest, southeast areas with a few heavier amounts in the northern mountains.

Days suitable for fieldwork 6.4. Soil moisture 20% short, 77% adequate, 3% surplus. Crop conditions: Alfalfa, 10% poor, 24% fair, 66% good. Corn 17% fair, 83% good. Irrigated wheat, 21% fair, 74% good, 5% excellent. Dryland wheat 11% poor, 22% fair, 56% good, 11% excellent. Winter wheat 41% harvested. Onions good with harvest active. Chile 11% poor, 45% fair, 44% good. Pecans good, average nut set reported. Apples 10% very poor, 20% fair, 70% good. Cattle, sheep fair to excellent. Range, pasture 98% of normal.

**NEW YORK:** Warm at start of week, again at mid week, near normal rest of week. Temperatures 60s to low 70s. Extremes 31°; 90°. Near normal precipitation most locations. Some isolated locations were above normal due to scattered thunderstorms.

Days suitable for fieldwork 6.7. Soil moisture mostly adequate. Pasture 87% of normal. Hay, wheat good. Corn planting 97% finished, 99% 1991, 94% avg. Early planted corn up, good. Oat seeding finished. Early planted fields starting to head. Wheat heading. Potato planting near complete. First cutting hay in full swing, excellent curing conditions. Regrowth good. Apple thinning near completion in Lake Ontario region. Excellent prospects for peach crop. Pear crop appears good. Thinning active on peaches, pears. Strawberry harvest well underway. Orange County onions in good. Sweet corn planting continued. Spinach planting on schedule in upstate areas. Cabbage transplanting active in central, western areas.

**NORTH CAROLINA:** Temperatures 4° below normal to near normal. The largest negative departures occurred in the south central areas. Precipitation 4.43 in. at Swann to no rainfall at a number of locations.

Days suitable for fieldwork 3.6. Soil moisture 6% short, 46% adequate, 48% surplus. Crop condition: Wheat 5% poor, 29% fair, 62% good, 4% excellent. Pasture 11% fair, 81% good, 8% excellent. Tobacco 3% very poor 3% poor, 22% fair, 65% good, 7% excellent. Corn 1% poor, 17% fair, 69% good, 13% excellent. Cotton 4% very poor, 10% poor, 39% fair, 47% good. Peanuts 28% fair, 69% good, 3% excellent. Soybeans 1% poor, 27% fair, 71% good, 1% excellent. Hay 6% poor, 26% fair, 66% good, 2% excellent. Irish potatoes 4% poor, 28% fair, 68% good. Sweet potatoes 3% poor, 18% fair 79% good. Apples 7% poor, 60% fair, 33% good. Peaches 10% very poor, 19% poor, 57% fair, 14% good. Truck crops 2% very poor 10% poor, 42% fair, 46% good. Sorghum planted 71%, 73% 1991, 78% avg. Soybeans planted 70%, 82% 1991, 74% avg. Burley tobacco transplanted 88%, 99% 1991, 74% avg. Sweet potatoes 88%, 93% 1991, 82% avg. Winter wheat harvested 25%, 87% 1991, 60% avg. Oats harvested 27%, 87% 1991, 67% avg. Barley harvested 20%, 88% 1991, 73% avg. Rye harvested 35%, 81% 1991, 58% avg. Hay, roughage supplies 1% short, 92% adequate, 7% surplus. Hay first cutting 77%; second cutting 24%. Major activities: Planting soybeans, sweet potatoes; cultivating tobacco. Other activities: Harvesting hay, small grains, Irish potatoes; tending livestock; cultivating, spraying field crops; equipment repair; general farm maintenance.

**NORTH DAKOTA:** Cool, wet. Temperatures 4° below normal east central, southwest to 2° below normal northwest. Extremes 35° central, south

central; 86° north central, central. Precipitation through 20th, 0.75 in. north central to 3.33 in. southeast.

Days suitable for fieldwork 3.5. Topsoil 6% very short, 30% short, 59% adequate, 5% surplus. Subsoil 16% very short, 32% short, 52% adequate. Spring wheat 1% poor, 34% fair, 55% good, 10% excellent; 21% heading and beyond, 31% 1991, 25% avg. Durum 2% poor, 24% fair, 66% good, 8% excellent; 6% heading and beyond, 12% 1991, 13% avg. Barley 1% poor, 21% fair, 66% good, 12% excellent; 23% heading and beyond, 41% 1991, 32% avg. Oats 8% poor, 57% fair, 33% good, 2% excellent; 22% heading and beyond, 22% 1991, 25% avg. Winter wheat 5% poor, 44% fair, 51% good; 10% milk to dough and beyond, 34% 1991, 36% avg. Sugarbeets 100% good; 6 in. avg. height; 8 in. 1991. Corn 3% poor, 25% fair, 72% good; 8 in. avg. height; 18 in. 1991; 12 in. avg. Flax 2% poor, 25% fair, 68% good; 5 in. avg. height; 7 in. 1991; 5 in. avg. Potatoes 100% good; 5 in. avg. height; 8 in. 1991; 8 in. avg. Soybeans 1% fair, 99% good; 6 in. avg. height; 8 in. 1991; 7 in. avg. Dry beans 8% fair, 92% good; 5 in. avg. height; 7 in. 1991; 6 in. avg. Sunflower 1% poor, 11% fair, 88% good; 5 in. avg. height; 8 in. 1991; 6 in. avg. Post emerged herbicide applications for broadleaf control 82% complete, wild oats 94%. Range, pasture 64% of normal. Hay crop 49% of normal. Alfalfa hay first cutting 51% complete, other hay 13%. Stockwater supplies 11% very short, 40% short, 49% adequate.

**OHIO:** Unseasonably hot, then unseasonably cold weather with thunderstorms striking in between. Despite locally heavy rains, State remains in long term drought according to the palmer drought severity index. Thermometers soared into the upper 80s to lower 90s as southerly winds ahead of the arriving storm system pumped heat, humidity into the State. Cold air followed, however, with lows in the 30s in some places 15th. Much of State received over an inch of rain during the week, most of which came with storms 17th night, 18th. Northeast State had the least amount of rain. Precipitation 0.50 in. to several inches.

Days suitable for fieldwork 4.7. Soil moisture 18% short, 68% adequate, 14% surplus. Pasture 1% very poor, 6% poor, 33% fair, 48% good, 12% excellent. Hay 1% very poor, 7% poor, 36% fair, 46% good, 10% excellent. Oats 1% very poor, 8% poor, 35% fair, 50% good, 6% excellent. Strawberry harvest is 54% complete, 95% 1991, 59% avg. Winds downed wheat in a few areas.

**OKLAHOMA:** Temperatures 3° below normal Panhandle to 2° above normal east central. Precipitation 0.24 in. Panhandle to 1.20 in. west central.

Days suitable for fieldwork 4.2. Topsoil 44% adequate, 56% surplus. Subsoil 3% short, 97% adequate. Wheat 5% poor, 62% fair, 33% good; 45% harvested, 70% 1991, 68% avg.; 7% plowed, 28% 1991, 27% avg. Corn 15% tasseling, 13% 1991, 15% avg.; 1% milk to soft, 3% 1991, 1% avg. Crop insect activity mostly light. Livestock insect activity light to moderate. Cattle good; marketings light to average; prices steady to higher.

**OREGON:** Temperatures 1 to 3° above normal, statewide. Precipitation many areas; Willamette Valley, Coastal up to 0.75 in., northeastern portions 0.60 to 0.70 in.

Soil moisture, 85% short, 15% adequate. Winter wheat 5% very poor, 20% poor, 60% fair, 15% good. Barley harvest 1% complete. Winter wheat headed 100%, none harvested. Wheat, barley continue to suffer, dry conditions. Rain received too late

for fall cereals, may aid spring, high elevation field crops. The first cutting of hay complete some second cutting started, some rain damaged. Grass seed, crimson clover for seed harvest underway, Willamette Valley, southwestern areas. Strawberry harvest virtually complete; raspberry harvest full swing; blueberry, Marionberry, Boysenberry harvest getting started; Willamette Valley. Cherry harvest full swing, Hood River, The Dalles, Willamette Valley. Cranberry fruit set, berry size excellent, bud set much advanced; southern coast. Third cover spray applied, pears; no hail damage reported due to storm 12th; Medford. Pea harvest continued, western yields good to average. Sweet corn, green bean, table beets growing well, garlic sizing. Lettuce harvest underway, Eugene area. Some early sweet corn tasseling, Medford area. Eastern vegetable growers extremely concerned over possible cancellation of irrigation waters. Eastern ranges, pastures extremely dry. Grasshopper damage to rangeland extensive, southern areas. Recent rain slightly improved range conditions at higher elevations. Western pastures better, dryland pasture getting critical. Livestock good. Some cattle being vaccinated. Range pasture 59% of normal.

**PENNSYLVANIA:** Temperature 71°, 5° above normal. Extremes 37°; 90°. Precipitation 0.66 in., 0.24 in. below normal.

Days suitable for fieldwork 6. Soil moisture 48% short, 48% adequate, 4% surplus. Corn 98% planted, 99% 1991, 95% avg.; height 10 in., 18 in. 1991, 12 in. avg.; 1% very poor, 4% poor, 20% fair, 54% good, 21% excellent. Tobacco 90% transplanted, 95% 1991, 77% avg. Soybeans 88% planted, 92% 1991, 79% avg.; 1% very poor, 3% poor, 18% fair, 59% good, 19% excellent. Barley 44% heading or headed, 16% 1991, 36% turning yellow, 24% 1991, 18% ripe, 19% 1991, 2% harvested, 41% 1991. Wheat 83% heading or headed, 28% 1991, 16% turning yellow, 54% 1991; 1% ripe, 15% 1991, 0% harvested, 3% 1991; 1% poor, 15% fair, 57% good, 27% excellent. Oats 96% heading process or headed, 89% 1991; 2% turning yellow, 9% 1991; 2% ripe, 2% 1991; 0% harvested, 0% 1991; 4% poor, 21% fair, 55% good, 20% excellent. Alfalfa first cutting 83% complete, 94% 1991; second cutting 2% complete, 16% 1991. Quality of hay made 5% poor, 24% fair, 71% good. Feed from pastures 4% very poor, 13% poor, 48% fair, 35% good. Peach 22% below avg., 65% avg., 13% above avg. Apple 15% below avg., 70% avg., 15% above avg. Activities: Spraying corn, orchards; hauling manure; spreading fertilizer; maintaining machinery; planting; cutting, baling hay; caring for livestock.

**PUERTO RICO:** No Data Available.

**SOUTH CAROLINA:** Temperatures 3 to 4° below normal. Precipitation slightly above normal in the Upstate, normal elsewhere. Rainfall 2.10 in. statewide.

Days suitable for fieldwork 4.3. Soil moisture 13% short, 72% adequate, 15% surplus. Tobacco fair to good; 27% topped, 42% 1991, 26% avg. Corn good; 43% silked, 74% 1991, 44% avg. Cotton fair to good; 16% squaring, 51% 1991, 34% avg. Soybeans good; 61% planted, 78% 1991, 78% avg. Peaches fair; 20% harvested, 22% 1991, 24% avg. Watermelons fair to good; 6% harvested, 25% 1991, 12% avg. Cantaloupes fair to good; 17% harvested, 30% 1991, 13% avg. Tomatoes good; 19% harvested, 40% 1991, 28% avg. Cucumbers fair to good; 63% harvested, 61% 1991.

Snap beans good; 85% planted, 86% 1991, 95% avg. Oats fair to good; 93% ripe, 96% 1991, 96% avg.; 48% harvested, 88% 1991, 77% avg. Wheat fair to good; 93% ripe, 99% 1991, 99% avg.; 38% harvested, 89% 1991, 79% avg. Rye fair to good; 100% turning color, 100% 1991, 100% avg.; 84% ripe, 93% 1991, 91% avg.; 38% harvested, 75% 1991, 68% avg. Barley fair to good; 99% turning color, 99% 1991, 97% avg.; 87% ripe, 94% 1991, 92% avg.; 49% harvested, 82% 1991, 69% avg. Grain hay fair to good; 86% harvested, 88% 1991, 92% avg. Peanuts fair to good. Sorghum fair to good; 47% planted, 88% 1991, 92% avg. Pastures good. Clear weather, cooler temperatures aided small grain harvest, crop progress.

**SOUTH DAKOTA:** Temperatures 2 to 5° below normal. Extremes 29°; 89°. Precipitation, widespread due to strong storm with heavy rains statewide, several tornados central, east. Northeast, east central received 3.00 to 5.00 in. while the central, west received 1.00 to 2.00 in. Maximum 15.00 in. or more east central counties.

Days suitable for fieldwork 2.7. Topsoil 20% short, 59% adequate, 21% surplus. Subsoil 6% critical, 40% short, 38% adequate, 6% surplus. Rye 5% very poor, 9% poor, 59% fair, 26% good, 1% excellent. Barley 18% poor, 45% fair, 36% good, 1% excellent. Oats 17% poor, 40% fair, 37% good, 6% excellent. Flax 16% poor, 55% fair, 29% good. Sunflowers 1% poor, 50% fair, 47% good, 2% excellent. Livestock 12% fair, 77% good, 11% excellent. Pasture 73% of normal and very short. Water supplies 10% very short, 22% short, 57% adequate, 11% surplus. Feed supplies 2% very short, 24% short, 68% adequate, 6% surplus.

**TENNESSEE:** Typical summer weather prevailed. Hot, humid afternoons spawned scattered thundershowers. High temperatures 85° east, 95° west. Precipitation 0.25 in. west, 2.00 in. east.

Days suitable for fieldwork 4.1. Soil moisture 1% short, 83% adequate, 16% surplus. Corn 10% tasseling, 13% 1991, 12% avg.; 4% dough, 0% 1991, 0% avg.; 13% fair, 79% good, 8% excellent. Sorghum 3% poor, 24% fair, 73% good. Soybeans 70% planted, 58% 1991, 74% avg.; 4% blooming, 0% 1991, 0% avg.; 2% poor, 36% fair, 62% good. Tobacco 98% transplanted, 95% 1991, 95% avg.; 37% fair, 59% good, 4% excellent. Wheat 90% ripe, 89% 1991, 88% avg.; 34% harvested, 63% 1991, 54% avg.; 2% very poor, 1% poor, 30% fair, 49% good, 18% excellent. Alfalfa 20% 2nd cutting, 29% 1991, 38% avg. Hay 1% very poor, 7% poor, 55% fair, 35% good, 2% excellent. Pastures 1% poor, 16% fair, 75% good, 8% excellent.

**TEXAS:** Wet weather which plagued Texas most of spring shifted to a drier situation for much of the State. Higher temperatures, drier air brought relief from saturated conditions in many growing areas. Rain systems steered around the northern edge of the air mass which kept showers out of State until late week. Weekend, the air mass weakened, sagged southwest which opened the west to unstable air, disturbances. Some heavy storms occurred, few became severe. Temperatures at or slightly below normal for the week across High Plains, Rolling plains. Temperatures were a degree or two below normal in Lower Rio Grande Valley. Rest of States temperatures were a few degrees above normal. Precipitation amounts below normal in all growing areas most of the week. Weekend rains in West Texas pushed High Plains totals above normal for the week.

**Crops:** Some corn fields in High Plains suffered hail damage however some fertilizer applications applied. Disease, insect problems

minimal, stink bugs caused some damage in South Texas. Hail and high winds again damaged some cotton fields in the Plains. Many producers replanted fields lost from earlier weather conditions. Producers along Upper Coast sprayed for boll weevils. In South Texas many fields showed signs of good growth, some concern about lack of fruit development. Rice producers continued flooding early planted fields. Disease problems increased in some fields. Grain sorghum planting resumed in the Plains with few delays. Many previously planted fields recovered from excess moisture. Producers in the Blacklands sprayed for insect and disease control. Small grain harvest resumed across the State as drying conditions increased. On the Plains some wheat yields above average with quality fair. High winds in the Cross Timbers caused lodging in some fields. In the Blacklands harvest operations winding down. Peanut planting progressed rapidly as open weather allowed producers to get into the fields. Recent winds caused burning of leaves in some areas. Weeds were a problem in some fields. Soybean planting gained momentum across the State last week. In some areas acreage may increase as a result of other crops lost. In the Blacklands growth slowed by excess moisture, but recent sunshine should improve conditions. Weed control has been a problem.

**Commercial Vegetables:** In the Rio Grande Valley, land preparation began for summer vegetables. In East Texas, harvest of tomatoes, onions and peppers active. Sweet potatoes progressing well. On the High Plains, some onions damaged by weather conditions. Vegetables missed by hail damage progressed well. In Trans-Pecos, some chile pepper fields were wilting. Tomatoes continued to ripen. Most peaches in the Low Plains nearly mature. Harvest continued with good yields, qualities in the Hill Country, East Texas. However, some rot development occurred due to excess wet weather in most areas. Spraying for second generation casebearers on pecan trees in South Texas. Trees becoming stressed as temperatures increased. Some scab problems, aphids showing up in East Texas.

**Range and Livestock:** Livestock good. Ranchers weaned, shipped fall born calves to market. Some spraying for flies began. Stock tanks remained full.

**UTAH:** Temperature maximums 7° less than normal, minimums averaged 5° less than normal. Precipitation moderate in the northern third of the State, light in the central third, none in southern third.

Days suitable for fieldwork 5.6. Soil moisture 80% short, 20% adequate. Spring wheat booted or better 98%, 68% 1991; headed or better 86%, 44% 1991, 57% avg.; turning or better 27%. Barley headed or better 91%, 47% 1991, 63% avg.; turning or better 40%. Oats jointed or better 89%, 71% 1991; booted or better 77%, 45% 1991, 60% avg.; headed or better 45%, 24% 1991, 30% avg. Winter Wheat headed or better 98%, 75% 1991; turning or better 36%, 7% 1991, 28% avg. Corn height 19 inches, 8 inches 1991, 14 inches avg. Alfalfa 1st cutting complete 91%, 49% 1991, 68% avg.; 2nd cutting complete 7%. Other hay cut 39%, 22% 1991. Sweet cherries picked 81%. Apricot harvesting reported to be underway. Cattle moved to summer range 92%, 86% 1991. Sheep moved to summer range 80%, 75% 1991. Pasture, range good to excellent.

**VIRGINIA:** Temperatures near normal. Extremes 45°; 91°. Precipitation was normal in west,

below normal in east first part of week, above normal last part of week.

Days suitable for fieldwork 4.4. Topsoil moisture 10% short, 70% adequate, 20% surplus. Pasture 31% fair, 47% good, 22% excellent. Alfalfa 17% fair, 63% good, 20% excellent. Apples 35% fair, 59% good, 6% excellent. Potatoes mostly good. Other hay 4% poor, 42% fair, 43% good, 11% excellent. Corn planting completed; 42% fair, 55% good, 3% excellent. Soybean 52% fair, 48% good. Peanuts 60% fair, 40% good. Burley tobacco 90% transplanted, 100% 1991, 91% avg. Tobacco 3% poor, 54% fair, 42% good, 1% excellent. Wheat 9% harvested, 64% 1991, 27% avg. Barley 5% harvested, 95% 1991, 72% avg. Oats 28% harvested, 66% 1991, 34% avg. Cutting hay, spraying fruit, harvesting snap beans, cultivating, sidedressing tobacco. Tomato harvest delayed by cool, wet weather.

**WASHINGTON:** Temperatures 4° below to 4° above normal, west; 5° below to 2° above normal, east. Rainfall none to 0.71 in. west; none to 2.00 in. east.

Days suitable for fieldwork 5.6. Soil moisture 67% short, 33% adequate. Hay, other roughage 23% short, 60% adequate, 17% surplus. Range, pasture 18% very poor, 45% poor, 26% fair, 11% good. Winter wheat 4% very poor, 58% poor, 26% fair, 12% good; 100% headed, 97% 1991, 95% avg. Barley 86% poor, 9% fair, 5% good; 100% headed, 68% 1991, 78% avg. Potatoes 100% emerged, 99% 1991, 100% avg.; early red potatoes harvested, crop mostly good. Spring wheat 100% headed, 68% 1991, 71% avg. Corn 100% planted, 100% 1991, 100% avg. Dry beans 100% planted, 99% 1991, 100% avg. Alfalfa hay first cut 93% complete, 81% 1991, 83% avg.; second cut 20% complete, 2% 1991, 4% avg. Precipitation received during the week; not enough to alleviate drought conditions, to late for most cereal crops. Dry peas, lentils benefitted from the rains. Wheat harvest is expected to begin around the 5th of July in central areas. Rains in Skagit county was referred to as "the million dollar rain" by growers. Apricots were nearly ready for harvest in Franklin county. Rains also helped pasture, range lands.

**WEST VIRGINIA:** Temperature 68°. Extremes 45°; 89°. Precipitation 0.62 in.

Days suitable for fieldwork 3.8. Soil moisture 6% short, 63% adequate, 31% surplus. Tobacco 40% fair, 60% good. Gardens fair to good; 93% planted, 84% emerged. Wheat good to excellent; 95% jointed, 94% headed. Barley good; 35% ripe. Corn good; 93% planted, 83% emerged. Oats good; 100% planted, 100% emerged. Hay 22% fair, 78% good; 40% first cut. Apples fair. Peaches good. Soybeans good; 55% planted, 50% emerged. Pastures 31% fair, 19% good, 50% excellent; 89% of normal. Cattle good. Sheep good. Farm activities: General maintenance, cutting hay, planting corn, soybeans, shearing sheep.

**WISCONSIN:** Temperature 60°; 4° below normal. Extremes 24°; 91°. Frost in some areas of the State over the weekend. Precipitation 0.50 to 2.10 in.

Days suitable for fieldwork 2.8. Soil moisture 58% short, 41% adequate, 1% surplus. Pasture 60% of normal, 86% 1991, 72% avg. General condition of crops 2% very poor, 8% poor, 54% fair, 35% good, 1% excellent. Oats 26% headed, 41% 1991, 44% avg.; 5% very poor, 16% poor, 49% fair, 28% good, 2% excellent. Corn height 13 in., 23 in. 1991, 17 in. avg.; 2% very poor, 7% poor, 42% fair, 46% good, 3% excellent. First crop hay 76%

(Continued on back cover)

# International Weather and Crop Summary

## Highlights

June 14-20, 1992

**FSU** ... A heat wave accompanies persistent dryness in the lower and middle Volga, placing moderate stress on winter and spring crops. In the New Lands, unseasonably cold weather over the eastern two-thirds of the region slows crop development.

**EUROPE** ... Unseasonable wetness over Mediterranean areas slows winter grain harvests, but increases moisture reserves. Dry weather covers filling winter grains in the north.

**EASTERN ASIA** ... Drier weather in the North China Plain favors winter wheat harvest but maintains unfavorably low moisture for spring crops. Widespread, heavy rain covers southern China.

**SOUTHEAST ASIA** ... Showers benefit Thailand's corn but miss primary rice areas in the north.

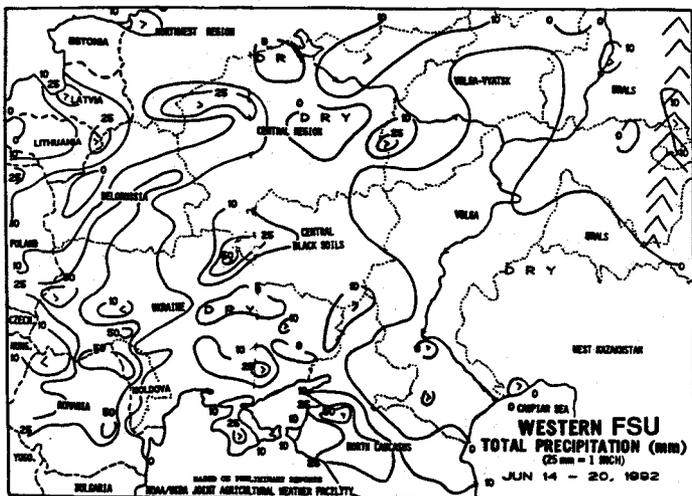
**SOUTH ASIA** ... Soaking rain improves moisture for summer crop germination. The southwest monsoon is advancing northward.

**SOUTH AMERICA** ... Scattered showers and warm weather in eastern Argentina benefit germinating winter grains but slow soybean harvests. Favorably drier weather covers southern Brazil.

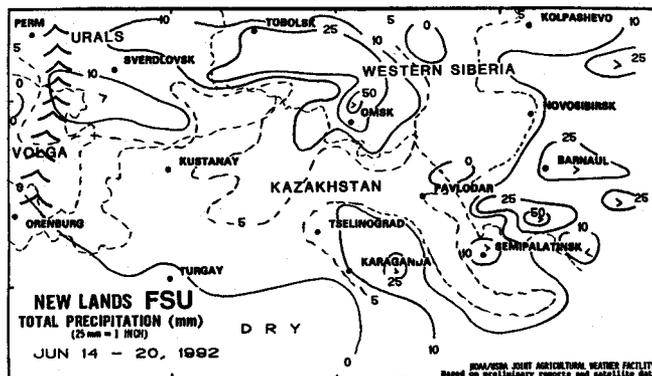
**AUSTRALIA** ... Rain benefits wheat in western Australia. Dry weather continues over Queensland and New South Wales wheat areas.

**CANADA** ... Showers benefit emerged grains and oilseeds across the southern Prairies.

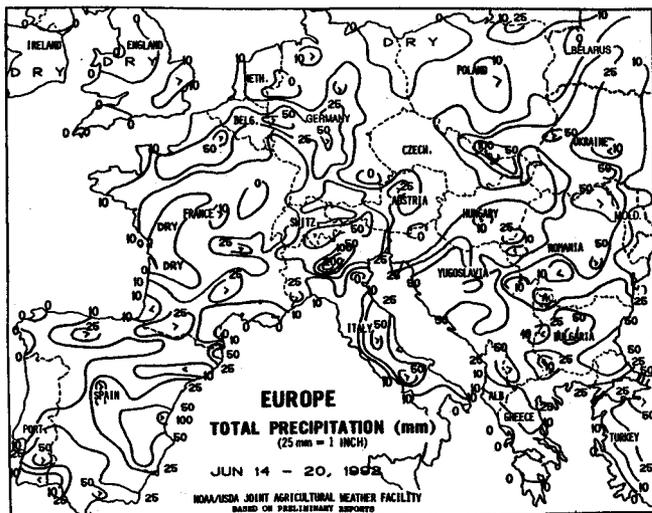
**MEXICO** ... Dry weather favors wheat and vegetable harvests.



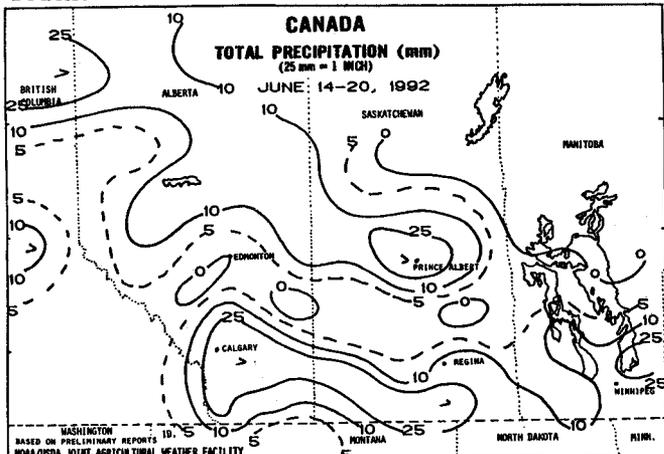
**FSU** ... In western crop areas of the former Soviet Union, showers and thunderstorm were numerous over the Baltic States, Belorussia, western Ukraine, the Crimea, and western North Caucasus. Precipitation amounts ranged from 10 to 40 mm, with local amounts in excess of 50 mm. The rain benefited winter grains in the reproductive phase of development, spring grains approaching the heading stage, and corn in the vegetative stage. Dry weather covered Volga Vyatsk Region, eastern Black Soils Region, Volga Valley, and the northern North Caucasus. The dry weather in the lower and middle Volga was accompanied by a heat wave from June 17-20. Maximum temperatures ranging from 31 to 36 degrees Celsius (C) stressed winter grains in the filling stage and spring grains in, or nearing, reproduction. About 10 percent of winter wheat and 15 percent of the spring barley crop are historically grown in these areas. Weekly average temperatures were 2-3 degrees C above normal over the entire region, fostering crop development.



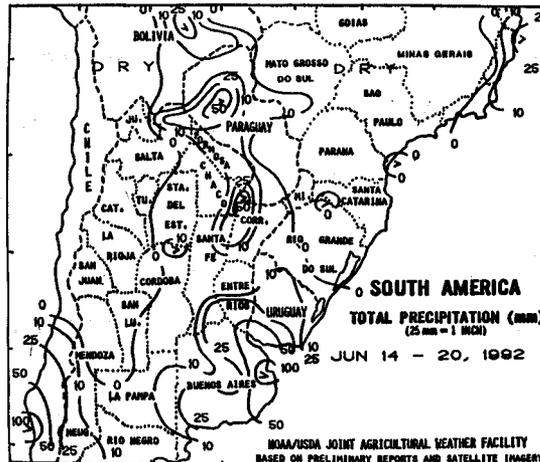
In the New Lands, spring grains were in the vegetative stage. Little, if any, precipitation fell over crop areas in the Urals, central Kazakhstan, and in areas that stretched northwestward from Pavlodar to Novosibirsk. Beneficial rain (10-25 mm, with local amounts in excess of 30 mm) covered crop areas in and around Omsk, eastern Kazakhstan, and Altay Kray. Average temperatures were near normal in the west and 6-8 degrees C below normal in the east, slowing crop development. Minimum temperatures, ranging from -1 to -2 degrees C at some locations in western Siberia, were not low enough to harm spring grains in early growth stages.



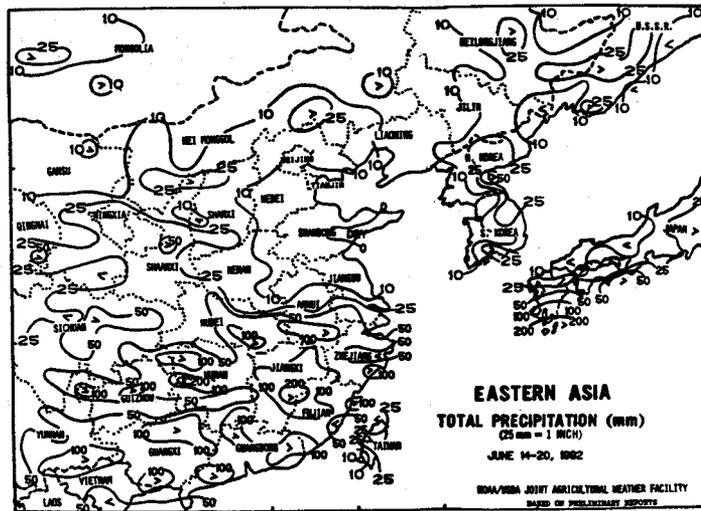
**EUROPE** ... Unseasonable wetness covered Mediterranean areas. Rainfall in southern Spain ranged from 25 to 50 mm, helping to ease a long-term moisture deficit. Peninsular Italy also received significant rain (20-50 mm), with lesser amounts falling over Greece (10-34 mm). Following 2 weeks of wet weather, drier weather covered French corn areas, promoting crop development. Little, if any, precipitation covered England, northern Germany, and Poland, where winter grains were in the filling stage. Light, scattered rain (8-25 mm) covered Hungary, benefiting crop growth. Showers and thunderstorms over Yugoslavia, Romania, and Italy's Po Valley produced moderate to heavy amounts of precipitation (25-50 mm, with local amounts in excess of 100 mm). Average temperatures were near to above normal over the north and 3-6 degrees C below normal in the south.



**CANADA** ... Beneficial rain (10-33 mm) continued over the southwestern Prairies and spread eastward along the U.S. border, bringing some relief to emerged spring wheat suffering from the recent drying trend. Rainfall was light (10 mm or less) over most northern grain and oilseed areas. Temperatures averaged near to above normal in the west and below normal in the east, with freezing temperatures lingering in northeastern crop areas of Saskatchewan. The cool weather hampered emergence of newly planted grains and oilseeds, and growth of spring wheat burned back by previous frosts. In the east, light showers (7-25 mm) covered crop areas of Ontario and Quebec, benefiting heading winter wheat. Temperatures averaged near to below normal, slowing emergence of spring planted crops.



**SOUTH AMERICA** ... In Argentina, light to moderate showers (10-48 mm) increased moisture for germinating winter wheat in southern Santa Fe and major areas of Buenos Aires. However, the rain hampered soybean harvest, which is more than 75 percent complete. Unusually warm weather (4-7 degrees C above normal) spurred early winter grain growth across Argentina. In southern Brazil, favorably dry weather benefited vegetative winter grains after an extended period of wet weather. The dryness also aided citrus and coffee harvests. Temperatures 2-6 degrees C above normal favored vegetative growth of winter wheat.



**EASTERN ASIA** ... Rainfall averaged less than 25 mm over the North China Plain, with the driest and warmest weather (rainfall 10 mm or less; highs from 34 to 37 degrees C) prevailing from southern Hebei to northern Jiangsu. While conditions favored winter wheat harvest, moisture is needed for summer crop germination and establishment. Rainfall was also light (25 mm or less) over Manchuria, but moisture is favorable for vegetative to reproductive spring crops following recent weeks of beneficial moisture. Seasonable temperatures, accompanying the drier weather, benefited crop growth. Light to moderate rain (10-52 mm) returned to spring wheat areas of northwestern China. In southern China, moderate to heavy showers (25-100 mm or more) broke a drying trend along the Yangtze River, and continued along the coast from Guangxi to Fujian, increasing irrigation reserves but causing more flooding. Especially hard hit were the higher elevations of central Jiangxi and western Fujian which received 131-255 mm.



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(Continued from p. 11)

Rio Grande Valley, and harvest of tomatoes, onions and peppers was active in east Texas.

**PASTURES AND LIVESTOCK:** Pasture and range feed condition improved following rains from the Rocky Mountains across the Great Plains. Grasshoppers were causing extensive damage to rangeland in southern Oregon.

(Continued from p. 20)

harvested, 75% 1991, 70% avg. Winter wheat 47% very poor, 18% poor, 30% fair, 5% good.

**WYOMING:** Cool, wet weather prevailed across the State. Temperatures near normal to 9° below normal. Almost the entire State had above normal precipitation last week, ranging from over 3.00 in. above normal in the north west part of the State to a quarter of an inch below normal in the south central part of the State.

Days suitable for fieldwork 5.0. Topsoil 38% short, 44% adequate, 18% surplus. Subsoil 70% short, 21% adequate, 9% surplus. Spring wheat 17% emerged not jointed, 39% 1991, 22% avg.; 18% jointed not in boot, 22% 1991, 31% avg.; 31% boot, 32% 1991, 33% avg.; 34% headed, 10% 1991, 15% avg. Oats 16% emerged not jointed, 37% 1991, 30% avg.; 20% jointed not in boot, 29% 1991, 35% avg.; 46% boot, 30% 1991, 29% avg.; 18% headed, 4% 1991, 6% avg. Barley 9% emerged not jointed, 40% 1991, 21% avg.; 13% jointed not in boot, 17% 1991, 19% avg.; 22% boot, 26% 1991,

28% avg.; 53% headed, 20% 1991, 32% avg.; 3% turning color. Winter wheat 1% emerged not jointed, 4% 1991, 3% avg.; 6% jointed not in boot, 15% 1991, 14% avg.; 12% boot, 22% 1991, 23% avg.; 69% headed, 59% 1991, 60% avg.; 12% turning color. Corn 98% emerged. Potatoes 92% emerged. Dry beans 72% emerged. Sugarbeet acreage thinned 73%, 67% 1991, 77% avg. Winter wheat 52% poor; 14% fair; 34% good. Oats 6% poor; 42% fair; 51% good; 1% excellent. Barley 2% poor; 21% fair; 77% good. Spring wheat 5% poor; 58% fair; 37% good. Potatoes 86% fair; 14% good. Corn 17% poor; 33% fair; 50% good. Sugarbeets 15% poor; 15% fair; 70% good. Dry beans 54% fair; 46% good. Alfalfa 13% very poor; 22% poor; 21% fair; 40% good; 4% excellent. Alfalfa: percent of first cutting completed 27%, 17% 1991, 24% avg. Other hay: percent of acreage harvested 5%, 2% 1991, 5% avg. All livestock 4% fair; 92% good; 4% excellent. Range, pasture good to excellent.

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