

# WEEKLY WEATHER AND CROP BULLETIN

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

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

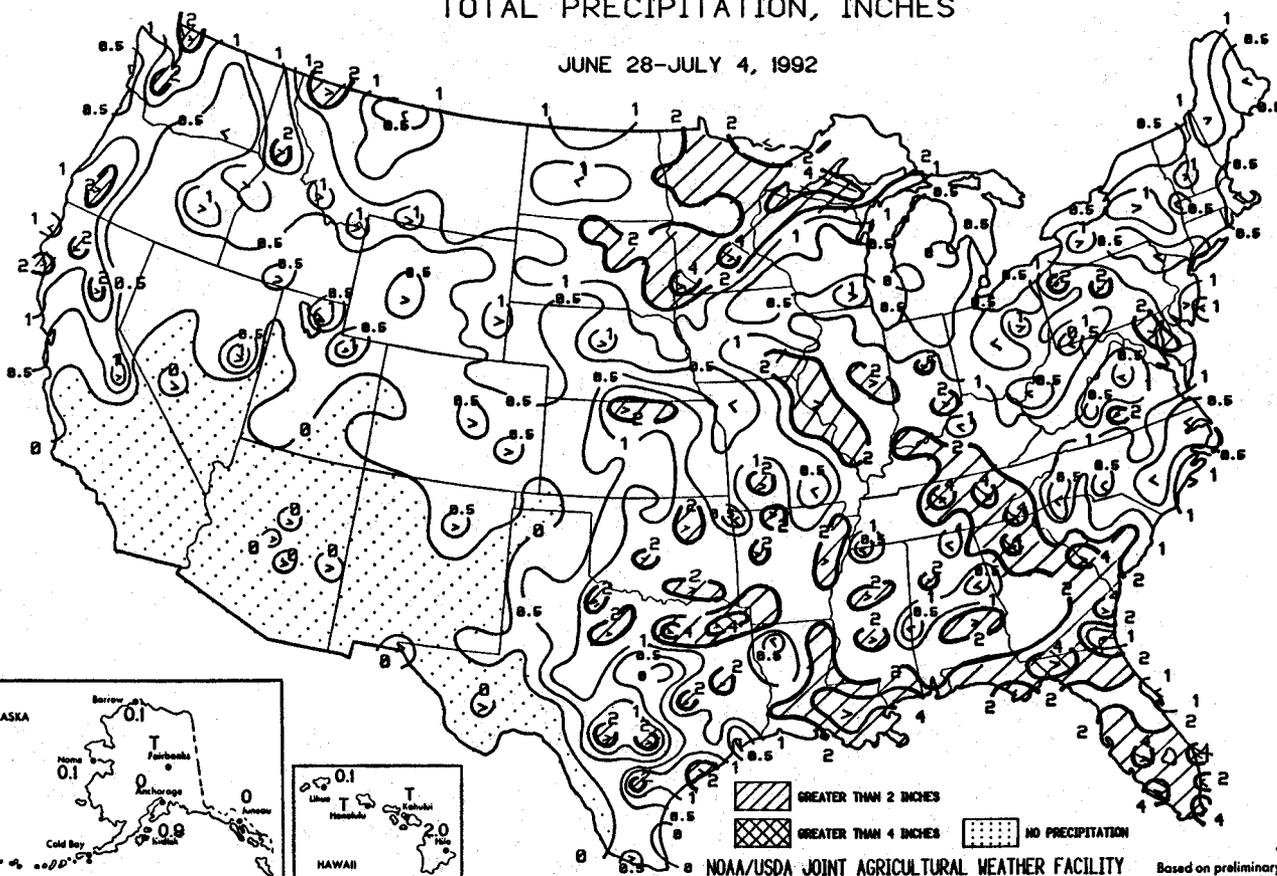
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July 7, 1992

## TOTAL PRECIPITATION, INCHES

JUNE 28-JULY 4, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

## HIGHLIGHTS

June 28 - July 4, 1992

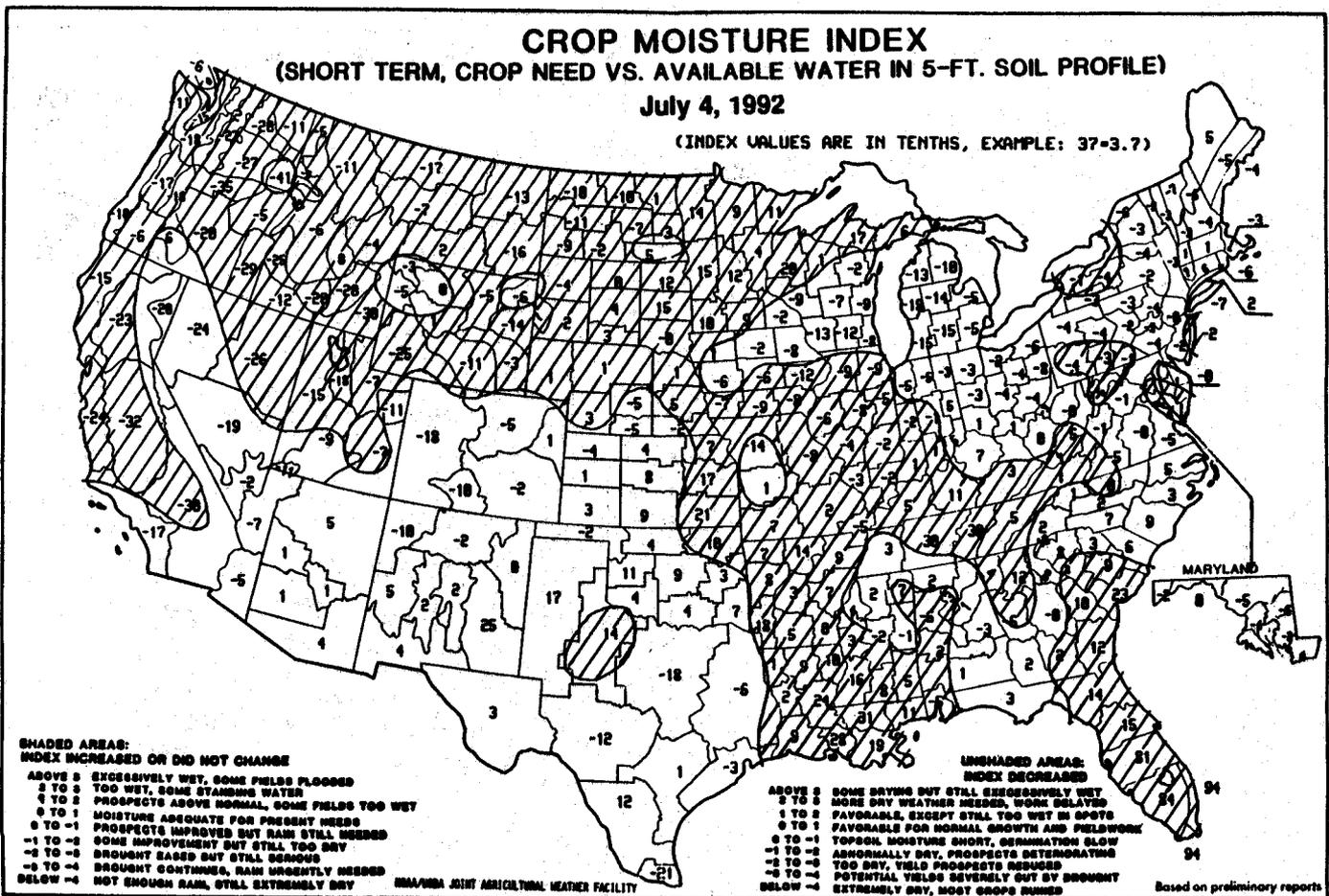
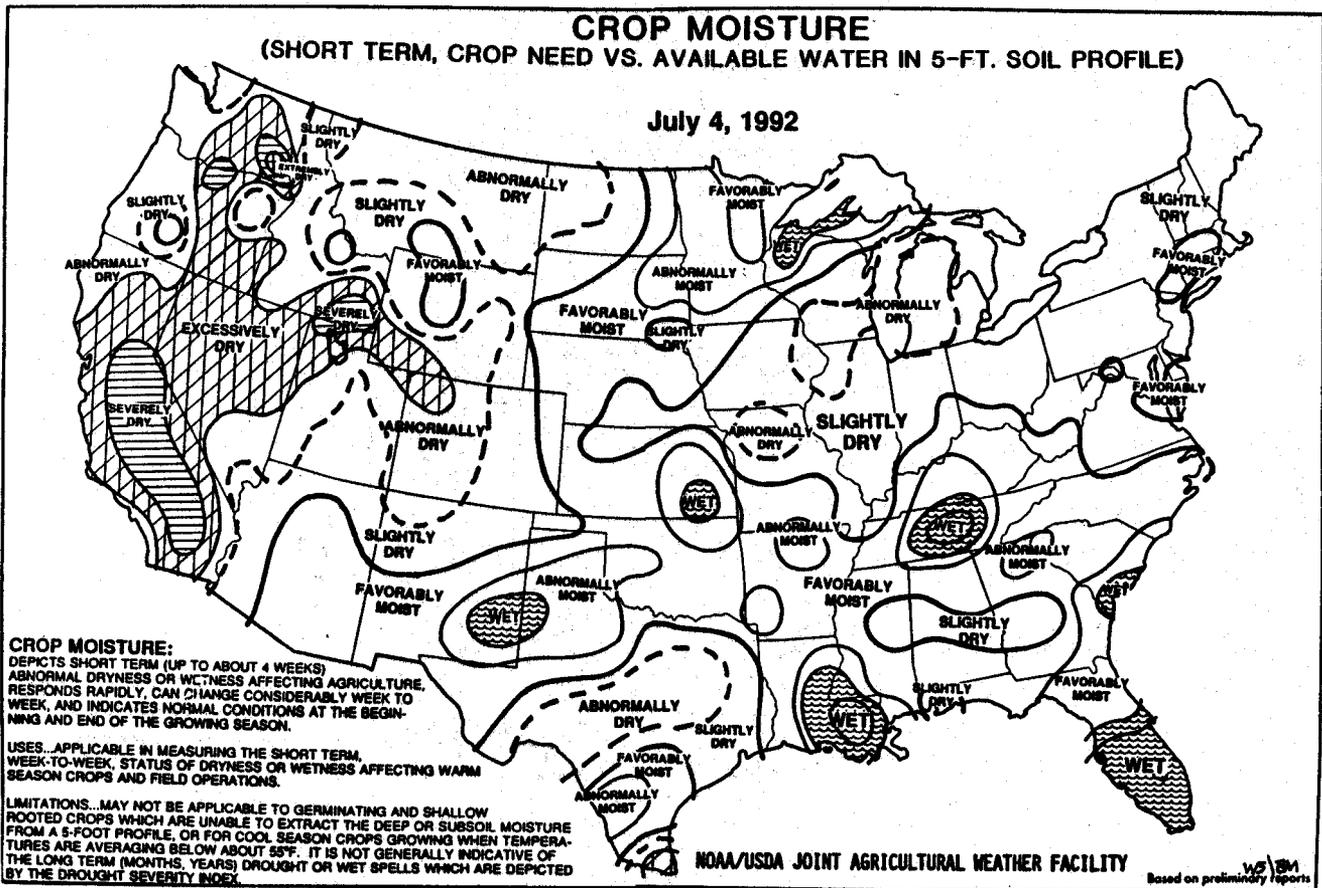
An unusually strong summer cold front spread significant rain from the **Pacific Northwest** and **northern Plains** to the **Corn Belt**, providing crucial crop moisture. Scattered thunderstorms developed throughout the remainder of the **Plains** and in the **Southeast**. Early in the week, local downpours aggravated river flooding between **Tampa** and **Ft. Myers, FL**. The **Myakka River** near **Sarasota** crested above the previous record level set in September 1962. Farther north, an unseasonable chill persisted, as readings dropped to 40°F in **Duluth, MN**, and **Muskegon, MI**. At midweek, more than 1 inch of rain dampened the **Cascades**, and snow whitened the highest **Sierra Nevada** peaks as the strong front advanced eastward. Rainfall topped 1 inch from **Montana** to **Upper Michigan**, and generally exceeded 4 inches from **Sioux Falls, SD**, to **Marquette, MI**. In the **Southeast**, rains

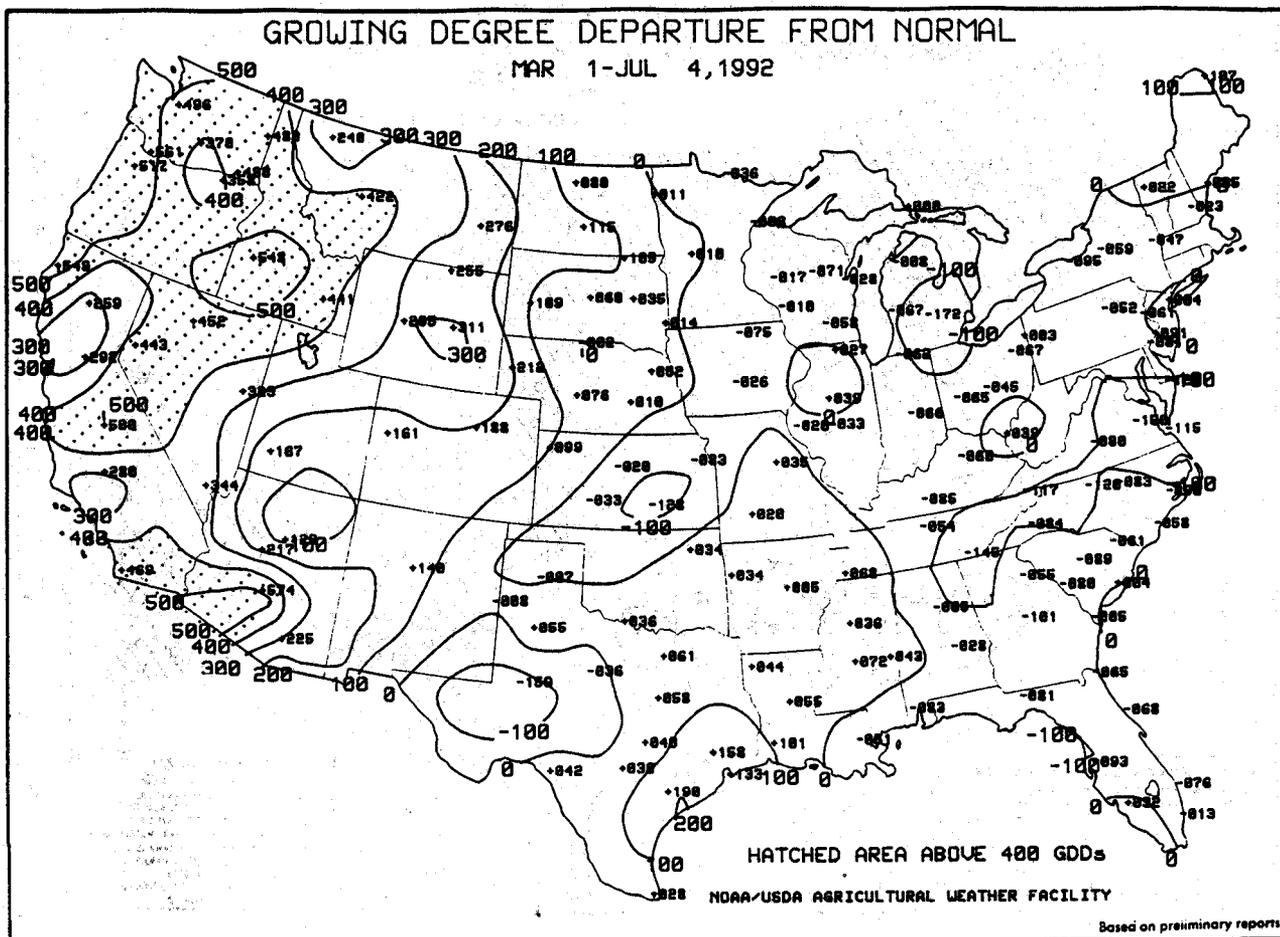
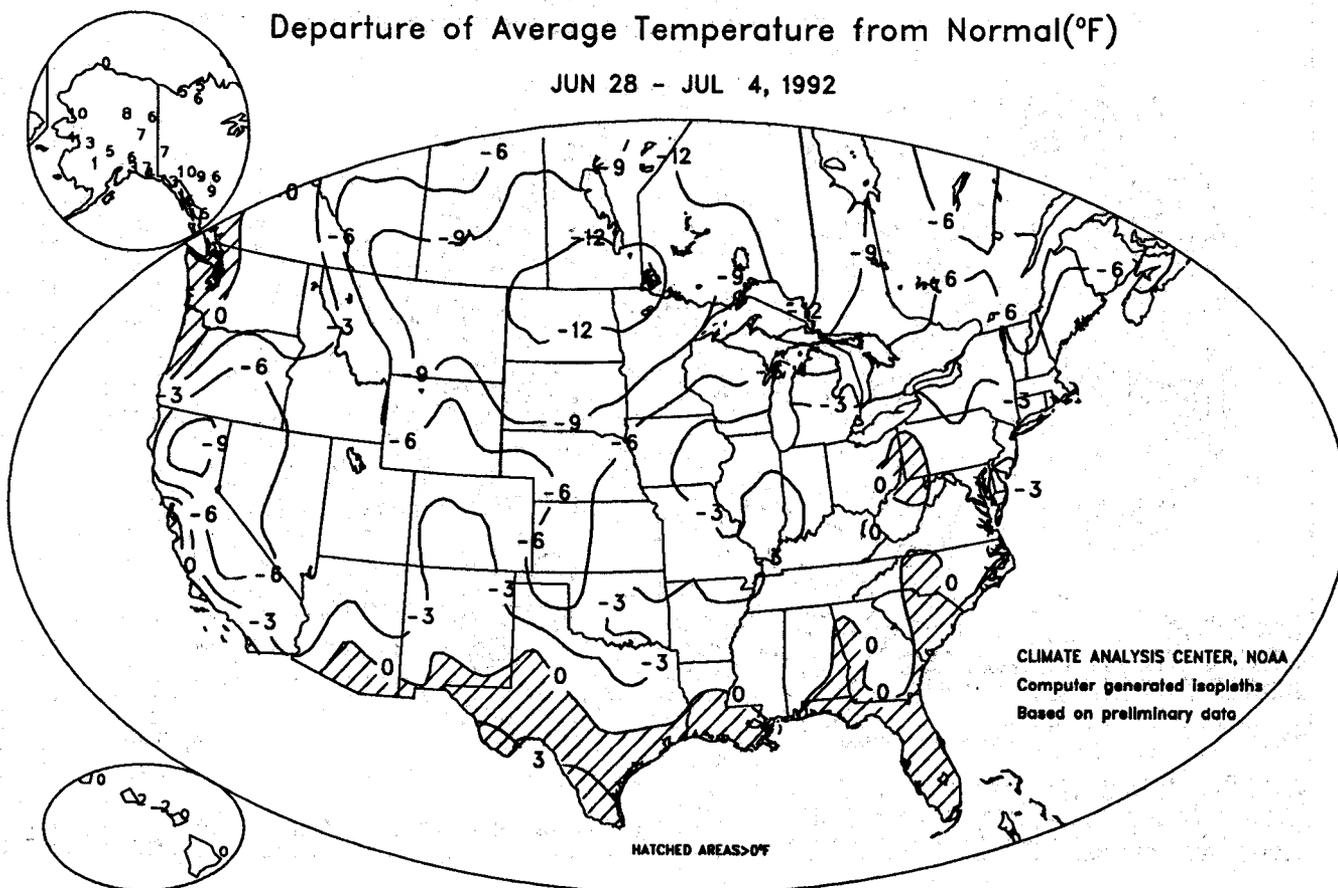
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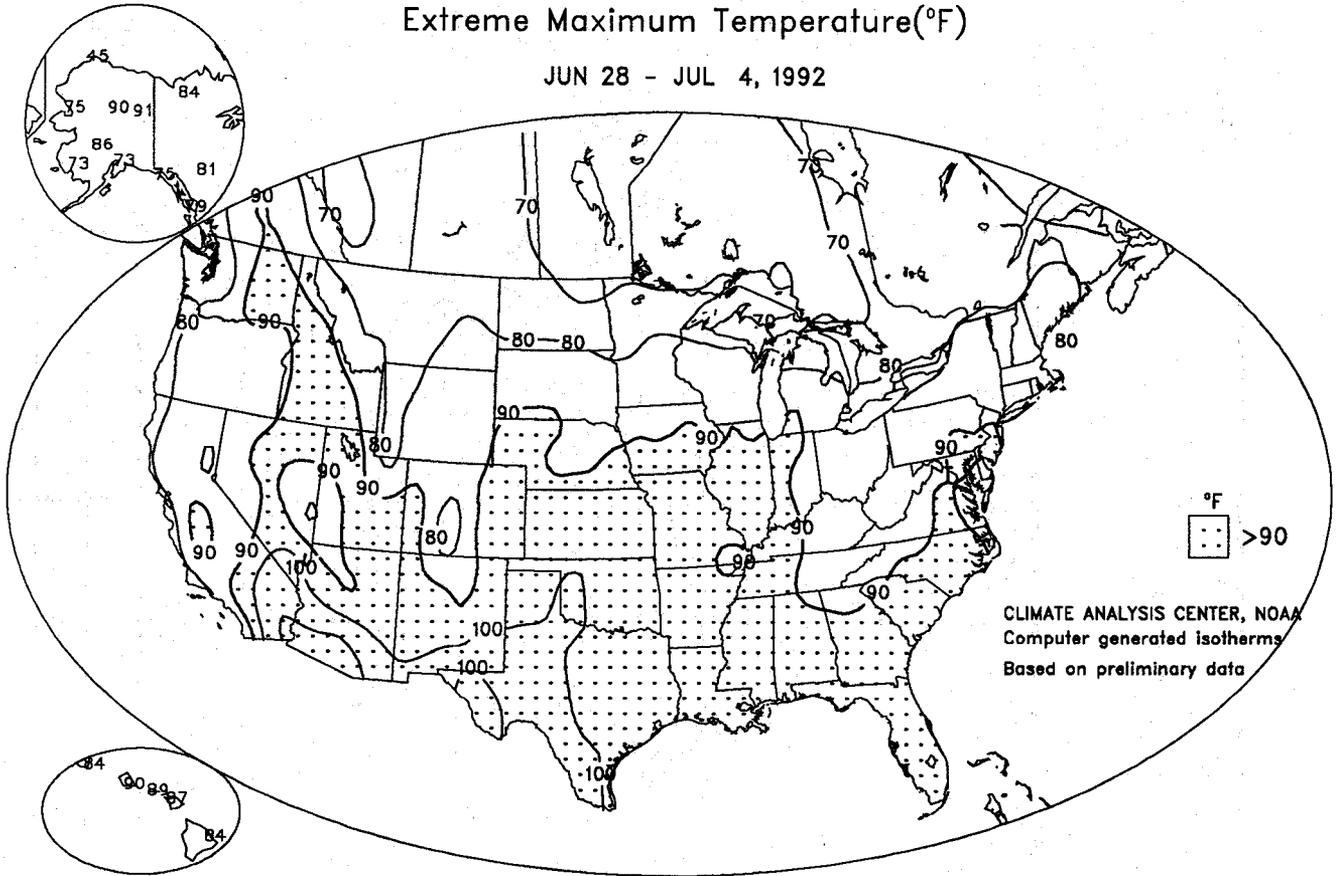
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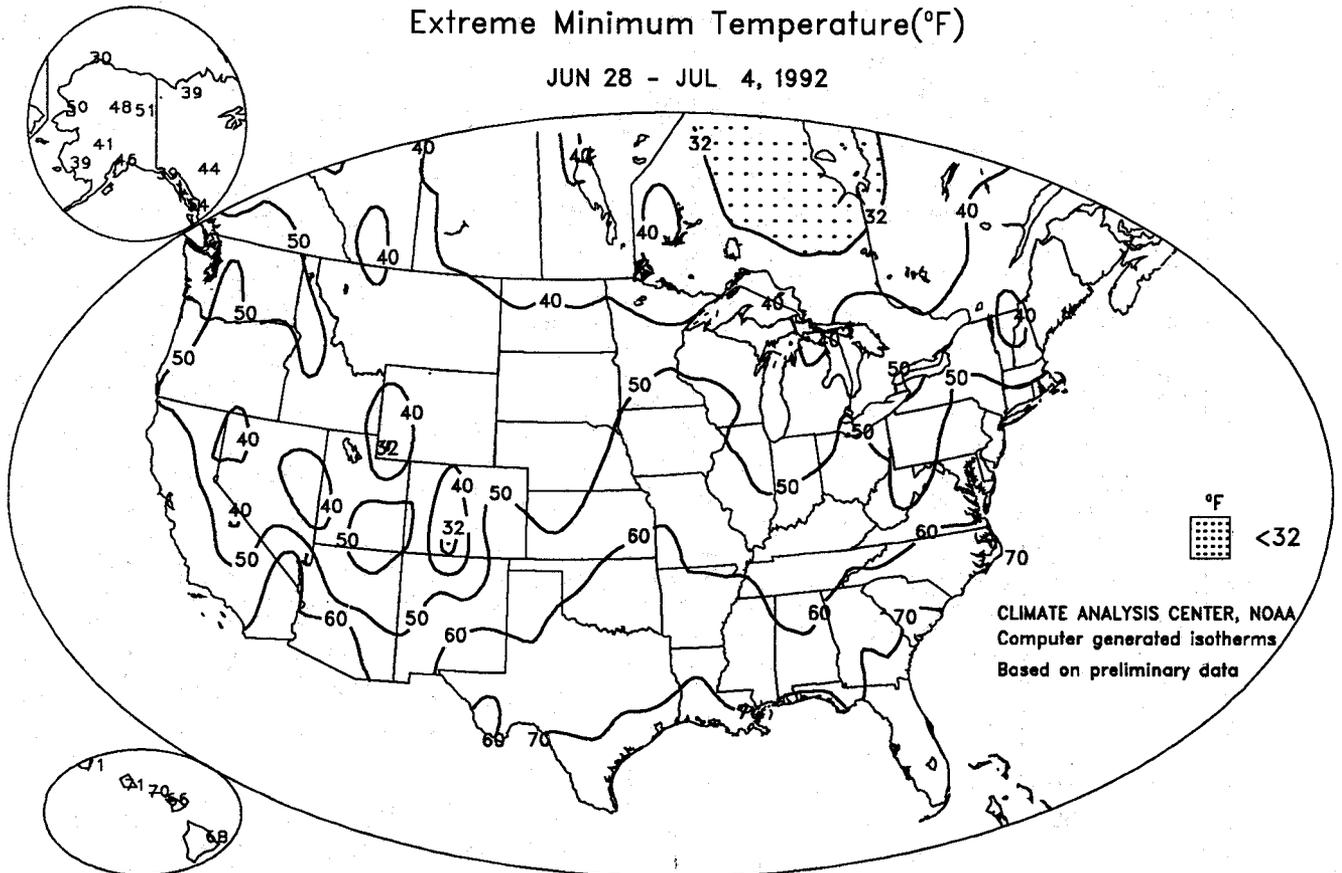
### Extreme Maximum Temperature(°F)

JUN 28 - JUL 4, 1992



### Extreme Minimum Temperature(°F)

JUN 28 - JUL 4, 1992



# National Weather Data for Selected Cities

Weather Data for the Week Ending July 4, 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	AVERAGE MINIMUM	90 AND ABOVE		32 AND BELOW		.01 INCH OR MORE		.50 INCH OR MORE	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE				
AL BIRMINGHAM	89	68	92	57	78	-1	1.3	-.2	1.1	7.1	164	22.0	72	93	49	3	0	3	1	4	1		
MOBILE	90	75	94	69	82	0	1.5	-.2	1.2	5.5	92	32.5	95	96	57	0	0	0	0	0	0		
MONTGOMERY	90	69	94	60	79	0	2.3	1.3	1.8	9.3	229	33.4	123	97	55	0	0	0	0	0	0		
AK ANCHORAGE	69	52	74	47	61	0	0	-.4	0	1.2	90	4.4	91	88	50	0	0	0	0	0	0		
BARROW	41	33	45	31	37	-1	0	-.1	0	0	48	0.7	54	97	77	0	0	0	0	0	0		
FAIRBANKS	84	55	91	46	69	0	0	-.4	0	2.2	140	5.5	145	79	29	0	0	0	0	0	0		
JUNEAU	75	54	80	49	65	10	0	-.8	0	3.0	87	37.8	184	84	44	0	0	0	0	0	0		
KODIAK	62	48	71	42	55	0	0	-.1	0	5.6	126	32.1	113	94	68	0	0	0	0	0	0		
NOME	62	46	77	40	54	0	0	-.1	0	0	34	2.8	64	96	54	0	0	0	0	0	0		
AZ PHOENIX	105	79	110	73	92	-1	0	-.1	0	0	17	6.6	244	30	14	0	0	0	0	0	0		
FRESNCO	87	55	95	47	71	-2	0	-.4	0	0	27	7.7	181	44	13	0	0	0	0	0	0		
TUCSON	106	69	111	59	87	-1	0	-.4	0	0	12	6.5	211	29	8	0	0	0	0	0	0		
YUMA	103	74	109	69	89	-3	0	0	0	0	0	0	0	3.2	354	0	0	0	0	0	0		
AR FORT SMITH	87	69	93	67	78	-3	1.3	-.5	1.0	9.4	232	24.0	113	96	62	2	0	0	0	0	0		
LITTLE ROCK	87	71	92	67	79	-3	1.6	-.8	1.2	5.9	142	23.1	85	89	64	3	0	0	0	0	0		
CA BAKERSFIELD	87	61	90	57	74	-9	0	0	0	0	0	5.6	146	73	30	1	0	0	0	0	0		
EUREKA	69	57	76	54	63	7	0	0	0	1.5	275	15.2	69	94	75	0	0	0	0	0	0		
FRESNO	87	62	95	59	74	-5	0	0	0	0	0	9.0	129	73	29	0	0	0	0	0	0		
LOS ANGELES	74	61	79	60	68	0	0	0	0	0	0	11.6	140	89	57	0	0	0	0	0	0		
REDDING	81	59	91	56	70	-12	0	-.5	0	1.7	195	20.2	82	91	38	2	0	0	0	0	0		
SACRAMENTO	81	58	89	54	69	-5	0	-.1	0	1.1	108	9.9	93	91	37	0	0	0	0	0	0		
SAN DIEGO	74	63	77	61	69	0	0	0	0	1.0	9.9	162	86	56	0	0	0	0	0	0	0		
SAN FRANCISCO	71	59	75	58	65	4	0	-.4	0	3.5	13.3	107	91	57	0	0	0	0	0	0	0		
CO DENVER	83	55	94	50	69	-3	0	-.1	0	2.2	125	8.7	103	87	30	2	0	0	0	0	0		
GRAND JUNCTION	89	60	96	52	75	-3	0	-.1	0	0	37	4.4	116	41	12	4	0	0	0	0	0		
PUEBLO	90	55	96	51	73	-3	0	-.4	0	3.2	234	5.5	111	78	21	3	0	0	0	0	0		
CT BRIDGEPORT	77	62	86	58	69	-3	0	-.2	0	5.6	170	18.0	87	88	53	0	0	0	0	0	0		
HARTFORD	79	57	87	52	68	-4	0	-.2	0	6.3	168	21.4	97	92	46	0	0	0	0	0	0		
DC WASHINGTON	84	68	90	61	76	-2	1.5	-.7	1.0	3.5	93	18.0	94	91	52	1	0	0	0	0	0		
FL APALACHICOLA	91	75	98	72	83	2	1.3	-.1	0	6.1	107	24.5	105	98	57	6	0	0	0	0	0		
DAYTONA BEACH	91	74	95	73	83	2	1.0	-.4	0	10.6	149	23.0	107	98	57	4	0	0	0	0	0		
JACKSONVILLE	92	73	95	72	83	1	0	-.5	0	7.3	111	31.1	130	96	52	6	0	0	0	0	0		
KEY WEST	90	80	91	73	85	1	1.0	-.1	0	12.1	218	19.4	126	87	67	4	0	0	0	0	0		
MIAMI	92	77	97	73	84	2	1.9	-.2	0	13.4	135	22.4	86	94	56	6	0	0	0	0	0		
ORLANDO	91	75	97	72	83	1	1.1	-.7	0	8.7	106	26.4	115	100	59	5	0	0	0	0	0		
TALLAHASSEE	92	71	95	68	81	0	6.2	4.3	3.8	15.1	197	37.6	116	100	57	5	0	0	0	0	0		
TAMPA	90	76	94	74	83	1	2.5	1.0	1.8	7.0	113	15.4	76	96	63	5	0	0	0	0	0		
WEST PALM BEACH	92	74	95	71	83	1	4.1	2.5	2.0	16.1	184	27.9	106	98	55	6	0	0	0	0	0		
GA ATLANTA	87	70	89	67	78	1	3.6	2.6	2.1	7.7	192	21.8	78	99	59	0	0	0	0	0	0		
AUGUSTA	90	69	93	67	79	0	4.2	3.2	2.0	8.5	192	25.2	103	100	61	5	0	0	0	0	0		
MACON	92	71	93	70	82	1	1.2	-.2	0	6.6	154	23.8	93	97	52	7	0	0	0	0	0		
SAVANNAH	91	72	94	70	81	1	2.6	1.1	1.2	14.1	213	31.1	126	98	60	4	0	0	0	0	0		
HI HILO	83	69	84	68	76	1	2.0	-.4	0	10.4	147	26.5	40	94	63	0	0	0	0	0	0		
HONOLULU	89	73	90	71	81	2	0	-.1	0	0	23	3.8	29	77	42	2	0	0	0	0	0		
KAHULUI	87	70	87	66	78	1	0	-.1	0	0	3	6.5	56	85	52	0	0	0	0	0	0		
LIHUE	84	73	85	71	79	1	0	-.3	0	1.2	62	12.7	56	84	59	0	0	0	0	0	0		
ID BOISE	80	55	92	49	67	-5	0	-.8	0	2.1	221	4.2	60	85	31	1	0	0	0	0	0		
LEWISTON	81	59	94	53	70	-1	0	-.1	0	0	53	4.9	66	74	31	1	0	0	0	0	0		
POCATELLO	77	48	91	41	63	-6	0	-.2	0	1.4	131	3.7	59	88	30	1	0	0	0	0	0		
IL CHICAGO	84	56	91	44	70	-2	0	-.7	0	2.1	44	9.5	55	91	44	1	0	0	0	0	0		
MOLINE	85	59	90	49	72	-2	1.0	-.1	0	6	3.1	62	10.4	55	94	46	2	0	0	0	0		
PEORIA	85	60	91	55	73	-2	1.3	-.4	1.3	2.1	48	9.7	54	89	45	1	0	0	0	0	0		
QUINCY	85	63	92	55	74	-2	2.4	1.4	2.4	3.9	85	14.1	75	92	44	1	0	0	0	0	0		
ROCKFORD	84	57	91	45	71	-2	0	-.8	0	2.0	38	10.4	57	82	44	2	0	0	0	0	0		
SPRINGFIELD	85	60	93	53	73	-3	1.0	-.2	1.0	3.3	84	11.7	66	95	51	1	0	0	0	0	0		
IN EVANSVILLE	87	64	94	55	75	-2	3.2	2.3	2.9	4.6	115	16.1	69	93	48	1	0	0	0	0	0		
FORT WAYNE	83	58	90	46	71	-2	0	-.3	0	3	6	16.5	91	92	44	2	0	0	0	0	0		
INDIANAPOLIS	83	60	88	51	72	-3	1.3	-.4	1.2	5.4	119	16.3	79	92	50	0	0	0	0	0	0		
SOUTH BEND	84	57	91	42	71	-1	0	-.5	0	2.2	50	11.9	63	92	42	2	0	0	0	0	0		
IA DES MOINES	85	62	92	56	73	-2	1.0	-.2	0	9	42	12.6	78	89	46	1	0	0	0	0	0		
SIOUX CITY	79	58	86	51	69	-7	0	-.7	0	3	68	12.5	93	91	57	0	0	0	0	0	0		
WATERLOO	82	59	90	55	71	-1	0	-.9	0	0	42	12.2	73	89	48	1	0	0	0	0	0		
KS CONCORDIA	84	61	94	52	73	-5	2.6	1.8	2.6	8.9	191	18.7	130	97	51	1	0	0	0	0	0		
DODGE CITY	82	60	93	51	71	-8	0	-.1	0	6	7.0	206	12.4	114	98	54	2	0	0	0	0		
GOODLAND	83	56	96	48	70	-5	0	-.6	0	0	6.7	222	10.7	120	95	40	2	0	0	0	0		
TOPEKA	85	62	91	57	73	-4	1.4	-.4	1.4	4.7	83	17.1	100	95	57	2	0	0	0	0	0		
RICHITA	86	65	97	56	75	-5	0	-.4	0	5	7.3	162	16.8	117	95	52	2	0	0	0	0		
KY BOWLING GREEN	84	64	92	55	74	-3	1.4	-.4	1.4	5.0	97	22.1	80	95	49	1	0	0	0	0	0		
LEXINGTON	84	63	87	53	73	-2	1.1	0	0	8.5	172	25.4	102	95	55	0	0	0	0	0	0		
LOUISVILLE	87	65	91	57	76	0	0	-.9	0	6	4.0	97	19.7	83	90	48	1	0	0	0	0		
LA ALEXANDRIA	90	76	94	71	83	1	1.0	0	0	9	5.5	125	31.0	106	89	57	4	0	0	0	0		
BATON ROUGE	91	74	94	70	82	0	4.1	2.9	4.1	14.5	363	40.7	142	94	58	6	0	0	0	0	0		
LAKE CHARLES	91	74	92	70	83	1	1.2	-.2	0	8.5	181	37.4	147	99	68	6	0	0	0	0	0		
NEW ORLEANS	91	74	95	70	82	1	2.5	1.1	2.1	9.8	179	38.8	129	97	62	6	0	0	0	0	0		

Based on 1951-80 normals.

Weather Data for the Week Ending July 4, 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	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	
																			.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	92	72	95	69	82	0	.2	-.6	.2	4.0	101	27.0	109	95	54	6	0	1	0	
ME CARIBOU	68	50	78	46	59	-.5	.7	-.2	.3	4.8	132	17.6	110	90	52	0	0	4	0	
PORTLAND	75	54	82	49	64	-.2	.7	-.0	.7	4.7	137	20.4	93	90	47	0	0	1	0	
MD BALTIMORE	85	63	93	55	74	-1.1	2.8	2.0	2.0	4.0	96	17.0	82	96	47	0	0	2	0	
SALISBURY	83	60	87	55	72	-1.3	2.0	1.1	1.0	4.9	122	19.2	89	99	55	0	0	2	0	
MA BOSTON	74	60	87	55	67	-.5	.3	-.3	.3	4.9	153	17.6	79	84	50	0	0	2	0	
CHATHAM	70	58	76	53	64	-.2	.3	-.3	.3	4.5	146	15.6	67	90	71	0	0	2	0	
MI ALPENA	69	46	80	38	58	-.7	.3	-.4	.2	2.0	55	10.6	76	96	48	0	0	2	0	
DETROIT	81	57	83	51	69	-.2	.7	-.1	.5	3.0	79	15.3	97	96	48	0	0	3	1	
FLINT	81	55	84	46	68	-.1	.7	-.7	.7	2.3	63	13.0	89	96	48	0	0	2	0	
GRAND RAPIDS	83	56	91	43	70	-.1	.0	-.7	.0	1.6	40	13.1	79	92	45	0	0	0	0	
HOUGHTON LAKE	71	51	77	39	61	-.5	.3	-.4	.2	2.0	57	10.1	75	92	52	0	0	4	0	
LANSING	83	55	88	42	69	-.1	.7	-.7	.7	2.1	49	14.2	95	92	46	0	0	1	0	
MARQUETTE	62	45	79	38	54	-1.0	3.4	2.6	2.0	4.0	93	14.4	77	90	65	0	0	4	0	
MUSKOGON	78	57	89	40	68	-.1	.7	-.5	.6	1.5	54	10.1	67	90	46	0	0	0	2	
SAULT ST. MARIE	60	44	68	36	52	-1.0	2.0	1.3	.7	3.0	82	12.4	84	94	67	0	0	5	2	
MN ALEXANDRIA	67	52	78	48	59	-1.0	1.2	.4	.7	3.0	96	11.7	94	90	55	0	0	3	1	
DULUTH	62	46	77	40	54	-.9	3.2	2.3	1.6	7.7	174	15.5	114	90	60	0	0	4	2	
INT'L FALLS	61	45	68	35	53	-1.2	1.7	.8	.8	3.7	89	10.2	93	96	62	0	0	5	3	
MINNEAPOLIS	75	57	88	53	66	-.6	2.6	1.8	2.2	6.3	139	12.3	93	84	50	0	0	2	1	
ROCHESTER	76	55	85	51	66	-.4	.5	-.4	.5	2.0	48	11.0	81	89	53	0	0	1	0	
MS GREENWOOD	90	71	93	66	81	-.1	3.9	3.0	3.7	8.1	205	22.8	75	94	56	6	0	3	1	
JACKSON	90	69	94	61	80	-.2	2.1	1.2	.8	5.5	149	18.4	63	100	57	6	0	4	3	
MERIDIAN	91	69	94	62	80	-.1	.3	-.8	.2	7.5	179	30.0	100	89	47	6	0	4	2	
MO CAPE GIRARDEAU	85	67	88	58	76	-.1	1.8	1.0	1.0	4.7	119	18.1	75	95	53	0	0	3	2	
COLUMBIA	87	62	95	55	74	-.3	1.4	.6	1.4	3.0	74	12.7	65	93	48	1	0	2	1	
KANSAS CITY	86	63	91	56	74	-.4	.3	-.7	.3	4.1	79	17.1	94	95	52	2	0	1	0	
SAINT LOUIS	87	67	97	62	77	-.1	2.3	1.4	2.1	3.4	82	13.8	74	85	43	1	0	2	1	
SPRINGFIELD	84	65	92	63	74	-.2	3.1	2.1	2.1	8.5	165	18.3	88	93	57	1	0	3	2	
MT BILLINGS	69	52	79	49	60	-1.0	.8	.5	.5	2.9	133	7.8	84	89	50	0	0	4	0	
GLASGOW	66	49	78	45	57	-1.1	1.1	.6	.5	3.4	124	5.1	85	89	54	0	0	6	1	
GREAT FALLS	67	48	76	40	57	-1.0	.8	.4	.6	3.5	120	8.1	85	97	51	0	0	4	1	
HAVRE	65	49	78	44	57	-1.1	.3	-.1	.1	2.0	86	3.3	48	97	56	0	0	4	0	
HELENA	69	51	81	47	60	-.5	.9	.6	.5	2.6	120	4.8	70	90	47	0	0	5	1	
KALISPELL	69	50	82	45	60	-.3	2.2	1.9	1.6	4.2	182	9.4	107	95	52	0	0	5	1	
MILES CITY	71	52	85	46	61	-1.1	1.9	1.4	.9	2.6	88	6.8	80	90	51	0	0	4	2	
MISSOULA	73	51	88	48	62	-.3	1.1	.8	.3	2.9	148	7.0	92	94	45	0	0	7	0	
NE GRAND ISLAND	82	58	89	48	70	-.5	.3	-.4	.1	5.6	138	15.6	118	91	52	0	0	3	0	
LINCOLN	88	61	93	53	74	-.2	.1	-.7	.1	2.6	60	10.6	72	91	44	4	0	1	0	
NORFOLK	80	56	88	49	68	-.6	.6	-.3	.5	4.6	96	12.0	88	92	52	0	0	4	0	
NORTH PLATTE	81	53	88	41	67	-.6	.1	-.7	.1	2.7	66	11.4	100	97	52	0	0	1	0	
OMAHA	82	62	90	53	72	-.4	1.4	.6	1.3	2.8	60	14.1	91	86	55	1	0	3	1	
SCOTTSBLUFF	81	54	94	48	67	-.5	.6	.0	.5	3.5	109	8.8	95	94	41	2	0	5	0	
VALENTINE	78	52	91	42	65	-.8	.6	.0	.3	6.0	184	9.8	101	94	50	1	0	4	0	
NV ELY	77	44	89	34	60	-.4	1.1	1.0	1.0	1.8	207	5.0	97	67	22	0	0	3	1	
LAS VEGAS	96	72	103	66	84	-.5	.0	-.1	.0	.1	82	6.7	368	62	12	6	0	0	0	
RENO	78	50	86	43	64	-.3	.7	.0	.7	1.1	320	2.5	58	35	21	0	0	1	0	
WINNEMUCCA	80	48	90	41	64	-.6	.7	-.1	.7	.4	46	1.9	40	66	20	1	0	1	0	
NH CONCORD	78	50	88	40	64	-.4	.6	-.1	.4	3.9	116	14.0	80	94	41	0	0	2	0	
NJ ATLANTIC CITY	82	57	91	50	70	-.3	.9	-.2	.5	4.5	140	14.4	71	93	45	1	0	2	0	
NM ALBUQUERQUE	93	61	97	57	77	-.2	.7	-.2	.7	.7	105	4.1	149	45	12	5	0	0	0	
CLOVIS	90	61	97	58	76	-.1	.7	-.7	.7	3.4	112	12.7	172	78	28	4	0	0	0	
ROSWELL	96	65	102	63	80	0	.0	-.3	.0	2.2	186	9.3	265	73	22	6	0	0	0	
NY ALBANY	80	55	89	50	68	-.3	.5	-.2	.3	2.4	67	13.6	78	81	41	0	0	2	0	
BINGHAMTON	76	55	84	51	66	-.2	.4	-.4	.4	1.7	43	18.5	102	92	38	0	0	2	0	
BUFFALO	77	59	81	54	68	-.2	1.0	.4	1.0	3.2	105	18.7	108	86	41	0	0	1	0	
NEW YORK	82	66	88	62	74	-.1	.6	-.2	.5	3.8	107	15.1	72	78	42	0	0	2	0	
ROCHESTER	76	57	84	51	67	-.4	.5	-.1	.5	2.5	80	15.6	101	90	41	0	0	2	1	
SYRACUSE	77	56	85	51	66	-.3	1.5	.6	1.4	3.2	79	20.9	110	90	42	0	0	2	1	
NC ASHEVILLE	80	64	83	59	72	0	.2	-.7	.2	6.8	163	27.2	118	96	60	0	0	1	0	
CHARLOTTE	89	71	93	65	80	2	.4	-.4	.4	6.8	168	25.5	109	88	48	2	0	2	0	
GREENSBORO	86	67	88	61	77	0	.8	-.2	.7	3.7	83	21.2	97	91	53	0	0	2	1	
HATTERAS	85	71	87	70	78	1	.1	-1.0	.1	1.1	22	22.3	89	92	59	0	0	3	0	
NEW BERN	88	70	93	66	79	1	1.0	-.4	.9	5.2	86	22.4	89	94	50	2	0	2	1	
RALEIGH	86	66	89	62	76	0	1.2	.2	.9	6.1	147	19.6	91	98	55	0	0	2	1	
WILMINGTON	87	71	92	68	79	0	1.8	.3	1.7	8.8	133	34.4	137	97	57	2	0	3	1	
ND BISMARCK	68	48	79	42	58	-1.1	.8	.2	.8	3.6	111	6.3	72	96	52	0	0	4	1	
FARGO	65	49	77	42	57	-1.2	1.6	.8	1.6	6.5	185	12.2	129	96	62	0	0	4	1	
GRAND FORKS	64	48	70	43	56	-1.2	1.1	.4	.6	4.4	135	10.5	121	96	62	0	0	4	1	
WILLISTON	67	45	75	41	56	-1.2	1.3	.8	1.1	2.1	77	7.0	92	93	51	0	0	5	1	
OH AKRON-CANTON	82	59	86	50	71	0	.5	-.4	.5	2.1	55	16.6	89	92	48	0	0	2	0	
CINCINNATI	83	60	87	53	72	-.3	1.4	.4	.7	5.1	109	18.8	86	96	53	0	0	3	2	
CLEVELAND	83	59	87	50	71	0	.7	-.8	.7	2.7	68	18.5	101	89	43	0	0	1	0	
COLUMBUS	84	61	89	51	72	-.1	.5	-.4	.4	2.8	63	15.1	76	97	48	0	0	3	0	

Based on 1951-80 normals.

Weather Data for the Week Ending July 4, 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	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
DAYTON	85	61	90	53	73	-1	.8	.0	.8	4.0	95	19.6	102	93	49	0	0	1	1	1	1	
TOLEDO	84	56	89	48	70	-1	.6	-2	.6	1.9	48	14.9	92	92	42	0	0	2	2	1	0	
YOUNGSTOWN	84	55	89	45	70	0	.1	-8	.1	1.1	27	14.5	76	92	41	0	0	1	1	0	0	
OK OKLAHOMA CITY	89	69	98	63	79	-2	1.7	.9	1.6	6.4	152	18.4	108	93	51	3	0	2	2	1	1	
TULSA	88	70	94	66	79	-3	3.4	2.5	2.0	8.8	176	22.4	109	91	54	3	0	3	3	2	0	
OR ASTORIA	66	54	71	52	60	1	.4	.1	.3	.7	28	25.0	69	94	71	0	0	4	4	2	0	
BURNS	71	47	81	43	59	-7	1.2	1.1	.9	3.1	508	5.4	98	89	36	0	0	0	3	1	2	
MEDFORD	78	56	89	53	67	-3	2.1	2.0	1.0	2.8	413	7.0	69	97	42	0	0	5	5	2	0	
FENDLETON	81	57	93	52	69	-2	.2	.1	.1	1.0	141	4.0	60	77	28	1	0	3	0	0	0	
PORTLAND	75	58	82	55	67	1	.6	.4	.4	.3	21	14.6	75	91	48	0	0	2	2	0	0	
SALEM	76	55	83	50	66	1	.9	.8	.6	1.3	103	15.8	74	90	42	0	0	3	1	1	0	
PA ALLENTOWN	81	62	88	56	72	-1	.6	-3	.5	3.9	100	16.2	75	90	43	0	0	2	2	1	1	
ERIE	78	61	82	51	69	1	1.2	.4	.8	3.2	73	15.6	85	86	42	0	0	2	2	1	1	
HARRISBURG	81	63	88	56	72	-2	1.7	.9	1.6	2.0	48	13.7	68	87	45	0	0	2	2	1	1	
PHILADELPHIA	84	65	92	61	75	-1	1.0	.1	.9	2.8	63	12.2	58	86	43	2	0	2	2	1	1	
PITTSBURGH	84	60	88	49	72	1	1.0	.2	.8	1.7	42	13.7	69	93	41	0	0	2	2	1	1	
SCRANTON	81	59	87	54	70	-1	.2	-.6	.1	1.6	40	12.7	75	90	43	0	0	3	0	0	0	
RI PROVIDENCE	78	58	87	53	68	-3	.4	-.2	.2	5.0	162	19.7	87	92	46	0	0	2	2	0	0	
SC CHARLESTON	89	72	92	71	80	1	1.2	-.5	.6	6.9	92	25.6	100	98	63	3	0	5	1	1	1	
COLUMBIA	91	70	95	69	81	1	.9	-.3	.8	6.4	126	22.2	85	98	53	4	0	3	3	1	1	
FLORENCE	91	71	95	68	81	1	.1	-1.1	.1	4.2	77	16.6	73	96	53	5	0	3	0	0	0	
GREENVILLE	86	68	90	65	77	-1	.4	-.7	.2	5.0	100	28.9	103	96	57	1	0	3	0	0	0	
SD ABERDEEN	69	51	80	47	60	-10	1.7	1.1	1.6	5.8	162	8.6	84	92	53	0	0	2	1	1	1	
HURON	75	53	87	47	64	-8	1.9	1.3	1.6	5.7	159	10.9	101	92	55	0	0	3	1	1	1	
RAPID CITY	72	50	87	44	61	-9	1.0	.4	.4	3.1	86	8.6	84	95	53	0	0	6	0	0	0	
SIQUO FALLS	76	57	88	50	67	-6	3.9	3.2	3.4	5.8	145	14.5	115	89	52	0	0	4	4	1	1	
TN CHATTANOOGA	83	67	87	58	75	-3	2.0	1.1	1.5	9.4	240	27.3	95	100	62	0	0	4	4	2	1	
KNOXVILLE	84	67	88	61	76	-1	2.2	1.2	1.0	5.3	116	21.8	82	98	63	0	0	4	4	2	1	
MEMPHIS	88	72	93	63	80	0	.2	-.6	.1	7.6	186	23.7	81	92	57	3	0	3	0	0	0	
NASHVILLE	86	67	91	56	76	-2	4.8	4.0	3.2	9.0	216	22.9	84	95	54	1	0	4	4	2	1	
TX ABILENE	93	70	99	65	81	-2	1.4	-.9	1.0	5.3	191	17.1	149	90	41	6	0	2	1	1	0	
AMARILLO	87	61	94	57	74	-4	T	-.6	T	7.6	198	14.2	147	89	35	3	0	1	0	0	0	
AUSTIN	93	74	95	69	84	0	.1	-.4	.1	5.0	152	32.8	200	92	50	7	0	1	1	0	0	
BEAUMONT	91	75	92	73	83	0	1.6	-.3	1.5	10.8	193	39.3	150	100	67	5	0	3	3	1	0	
BROWNSVILLE	95	78	96	73	87	3	.1	-.3	.1	1.8	56	16.9	171	94	51	7	0	2	2	0	0	
CORPUS CHRISTI	93	76	94	73	84	1	.3	-.4	.3	1.8	44	26.7	139	95	60	7	0	2	2	0	0	
DEL RIO	100	75	105	71	87	2	.0	-.4	.0	1.8	94	15.5	197	68	32	7	0	0	0	0	0	
EL PASO	102	70	104	63	86	3	T	-.3	T	.3	39	6.6	291	35	12	7	0	1	1	0	0	
FORT WORTH	91	72	96	67	82	-3	1.7	1.2	1.0	5.2	203	23.6	139	93	54	5	0	2	2	0	0	
GALVESTON	91	79	91	76	85	2	.2	-.6	.1	2.6	65	31.6	180	90	67	5	0	3	0	0	0	
HOUSTON	93	75	96	71	84	2	.3	-.6	.1	3.5	72	34.3	149	95	55	6	0	2	2	0	0	
LUBBOCK	94	66	102	57	80	1	.7	-.2	.6	4.4	142	15.6	182	91	29	5	0	2	1	1	0	
MIDLAND	95	69	103	64	82	1	.0	-.4	.0	2.1	131	15.5	260	88	32	7	0	0	0	0	0	
SAN ANGELO	98	70	106	64	84	1	1.2	-.9	1.2	5.9	298	15.1	178	86	34	7	0	1	1	1	0	
SAN ANTONIO	95	74	97	70	85	1	.6	.1	.5	5.7	175	35.0	243	89	45	7	0	2	1	1	0	
VICTORIA	96	77	99	72	86	3	.5	-.3	.5	1.8	38	37.2	212	93	51	7	0	1	1	1	0	
WACO	95	73	98	69	84	-1	T	-.4	T	2.7	96	24.7	145	92	49	7	0	0	0	0	0	
WICHITA FALLS	92	70	101	66	81	-3	1.8	1.3	1.4	8.4	273	17.1	121	95	50	4	0	3	1	1	0	
UT CEDAR CITY	82	52	89	40	67	-5	T	-.2	T	.3	59	5.2	107	53	19	0	0	1	0	0	0	
SALT LAKE CITY	83	56	97	49	70	-5	.2	.0	.1	.5	51	6.5	72	71	24	4	0	2	0	0	0	
VT BURLINGTON	76	50	86	40	63	-5	.2	-.6	.2	1.9	47	12.2	79	97	42	0	0	3	0	0	0	
VA NORFOLK	84	67	89	63	76	-2	.4	-.6	.4	2.7	65	16.6	77	94	51	0	0	2	0	0	0	
RICHMOND	86	65	90	59	75	-1	1.3	-.2	.6	3.5	84	21.2	103	99	54	1	0	3	1	1	0	
ROANOKE	84	62	87	53	73	-2	.3	-.4	.3	7.0	186	26.7	133	94	56	0	0	2	0	0	0	
WA QUILLAYUTE	66	52	71	47	59	1	1.0	.4	.9	1.7	55	49.9	92	98	67	0	0	3	1	1	0	
SEATTLE-TACOMA	73	57	79	53	65	2	1.3	1.1	.8	1.7	119	18.6	97	93	52	0	0	4	2	0	0	
SPOKANE	77	57	92	51	67	0	.6	.4	.3	1.9	150	7.2	79	86	38	1	0	6	0	0	0	
YAKIMA	81	55	91	48	68	-1	.7	.6	.4	1.3	229	3.4	79	88	34	1	0	3	0	0	0	
WV BECKLEY	80	62	85	49	71	3	1.2	-.2	.7	4.7	101	20.8	93	95	55	0	0	4	1	1	0	
CHARLESTON	84	63	89	52	73	0	.4	-.7	.3	3.4	85	20.4	94	98	54	0	0	3	0	0	0	
HUNTINGTON	85	63	89	53	74	-1	.3	-.7	.2	3.4	86	19.0	88	95	52	0	0	3	0	0	0	
PARKERSBURG	85	63	88	52	74	0	.8	-.2	.8	3.8	88	16.8	83	96	51	0	0	1	1	1	0	
WI GREEN BAY	74	52	81	45	63	-5	.5	-.2	.4	2.0	56	10.3	76	92	50	0	0	3	0	0	0	
LACROSSE	79	59	89	55	69	-3	T	-.9	T	2.3	51	12.4	83	84	45	0	0	1	0	0	0	
MADISON	80	57	90	51	69	-1	1.0	.1	.9	2.5	57	10.8	72	81	46	1	0	2	1	1	0	
MILWAUKEE	77	57	82	52	67	-2	.6	-.2	.6	3.8	92	12.0	77	81	50	0	0	2	1	1	0	
WAUSAU	72	53	81	48	62	-6	.4	-.5	.3	1.8	40	12.6	84	93	54	0	0	3	0	0	0	
WY CASPER	77	50	83	44	64	-5	.6	-.4	.3	1.3	96	5.2	75	90	33	0	0	4	0	0	0	
CHEYENNE	74	49	85	45	62	-5	.5	-.1	.3	2.3	103	6.7	87	90	35	0	0	3	0	0	0	
LANDER	76	50	88	44	63	-5	.9	-.7	.5	2.3	152	8.4	97	87	34	0	0	3	0	0	0	
SHERIDAN	72	52	82	42	62	-6	1.3	1.0	.5	4.3	181	8.9	94	93	50	0	0	5	0	0	0	

Based on 1951-80 normals.

# June Weather and Crop Summary

## Weather

June 1992 showed two faces. During the first half of the month, storms crept across the southern Plains and into the Southeast. The 2-week spate of rainfall pushed monthly rainfall to more than twice normal from New Mexico to Alabama, and held temperatures to May-like levels. During a mid-month transitional period, a powerful storm brought needed moisture to the Northwest and northern Plains. For the second half of the month, cool, mainly dry weather covered the East, allowing drought to retain its grip on the Corn Belt. Meanwhile, oppressive heat developed in the Southern and Western States. Late in the month, a tropical depression brought copious rainfall to west-central Florida.

The early-month rainfall brought mixed returns. In the southern Plains, excessive moisture delayed the winter wheat harvest and adversely affected young cotton plants. But in the Southeast, rains eased concerns of incipient drought. One early-month storm turned northeastward and caused flooding from the Middle Atlantic region to New England between June 4 and 6. Up to 8 inches of rain soaked the central Appalachian foothills, and similar amounts pounded Connecticut.

A few cold airmasses skirted the Northern Tier States during the first half of the month, bringing scattered frost. Havre, MT, reached 29°F on the 6th, and Bismarck, ND, dipped to 33°F on the 7th. But the mid-month storm generated the coldest weather of the month, piling 1 foot of snow on Yellowstone National Park and sending the mercury to 22°F in Ely, NV. The storm also brought the first significant rainfall in 6 weeks to the Northwest, and eased drought in the northern Plains and the Corn Belt. But the accompanying outbreak of more than 150 tornadoes was nature's most prodigious 3-day output since 1984, according to press reports. Despite the rain on the 17th in the northern Corn Belt, dry, cool weather predominated during June. Eastern Iowa, northern Illinois, and northeastern Missouri remained critically dry through the end of June, having received less than 2 inches of rain since May 1.

The second half of the month was marked by a sharp northeast-to-southwest temperature contrast and scattered thunderstorms in the Southern States. Very cool weather blanketed the Northeast, with temperatures dropping to 32°F in Muskegon and Marquette, MI, on the 22nd. More than 120 daily record lows were set during the cold snap, including 67 on the 22nd. A concurrent heat wave in the West set numerous records, including an all-time June record of 101°F in Seattle, WA. The collision of contrasting airmasses produced scattered daily thunderstorms from the Plains into the Southeast. In the eastern Gulf of Mexico, a cluster of thunderstorms developed into a tropical depression on the 25th and lasted 1 day before making landfall in west-central Florida. Up to 26 inches of rain deluged areas north of Ft. Myers, FL, and record flooding occurred on the Myakka River. At month's end, a significant storm punched into the Northwest and northern Plains, following a track similar to that of the mid-month storm.

## Fieldwork

Extensive rains across the southern half of the Nation from Colorado to Florida slowed late crop planting and early crop harvests. Beneficial rains visited the Pacific Northwest and several thunderstorms traversed the northern States. Rainfall was limited, however, in the Corn Belt and concerns over soil moisture heightened.

**Winter wheat** harvest was under way in the Southeast and far West entering June, with 1 percent (%) of the Nation's crop harvested. Heading of the winter wheat crop was ahead of normal at 85% headed in the 19 major producing States. Rains in the southern Plains and Southeast delayed extensive harvest until after the middle of the month. Harvest progressed rapidly during the second half of the month, but remained behind normal due to the early delays. Harvest was 46% complete in the 19 major producing States as of July 5, 23 percentage points behind last year and 16 points behind the 5-year average.

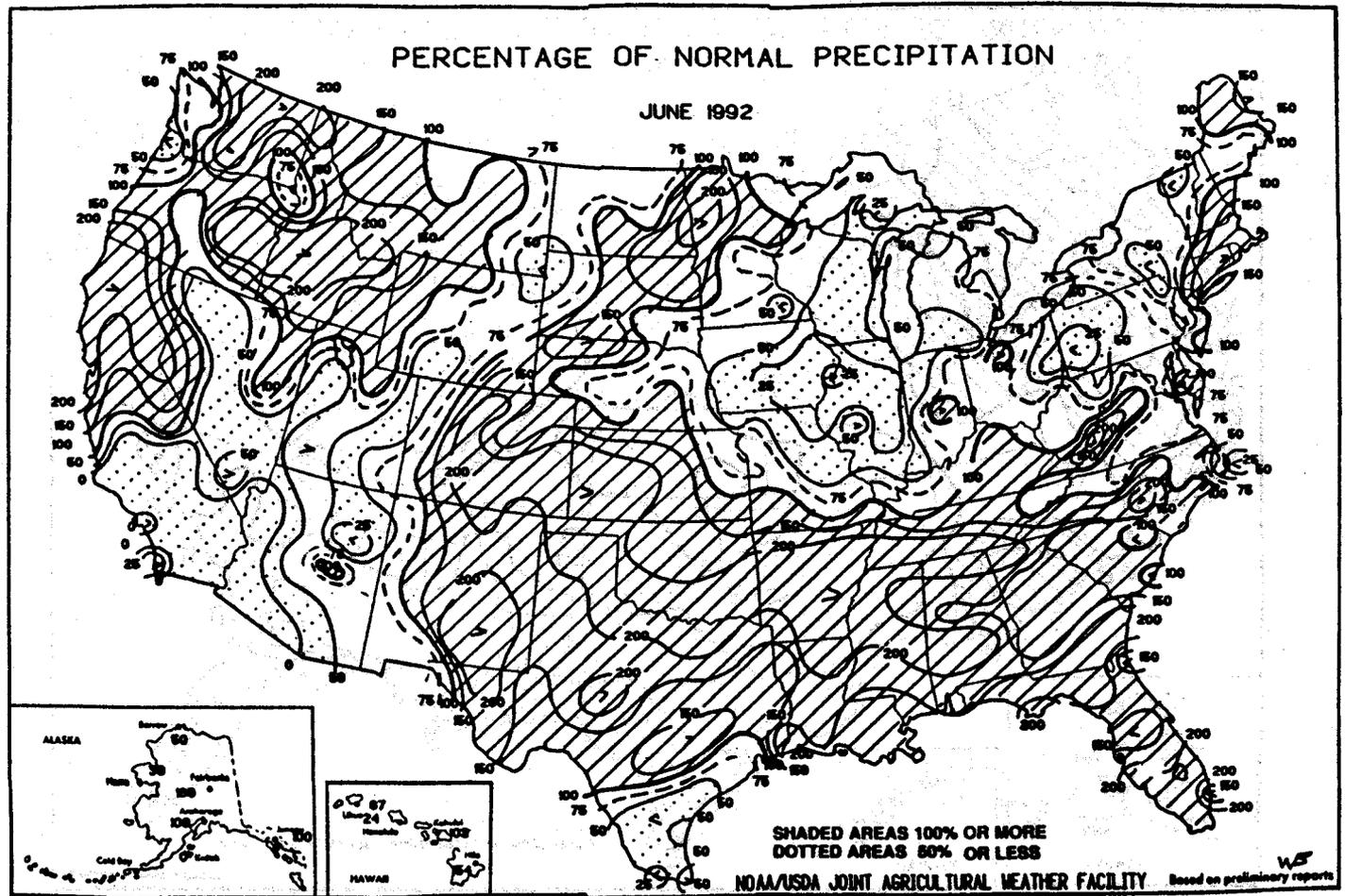
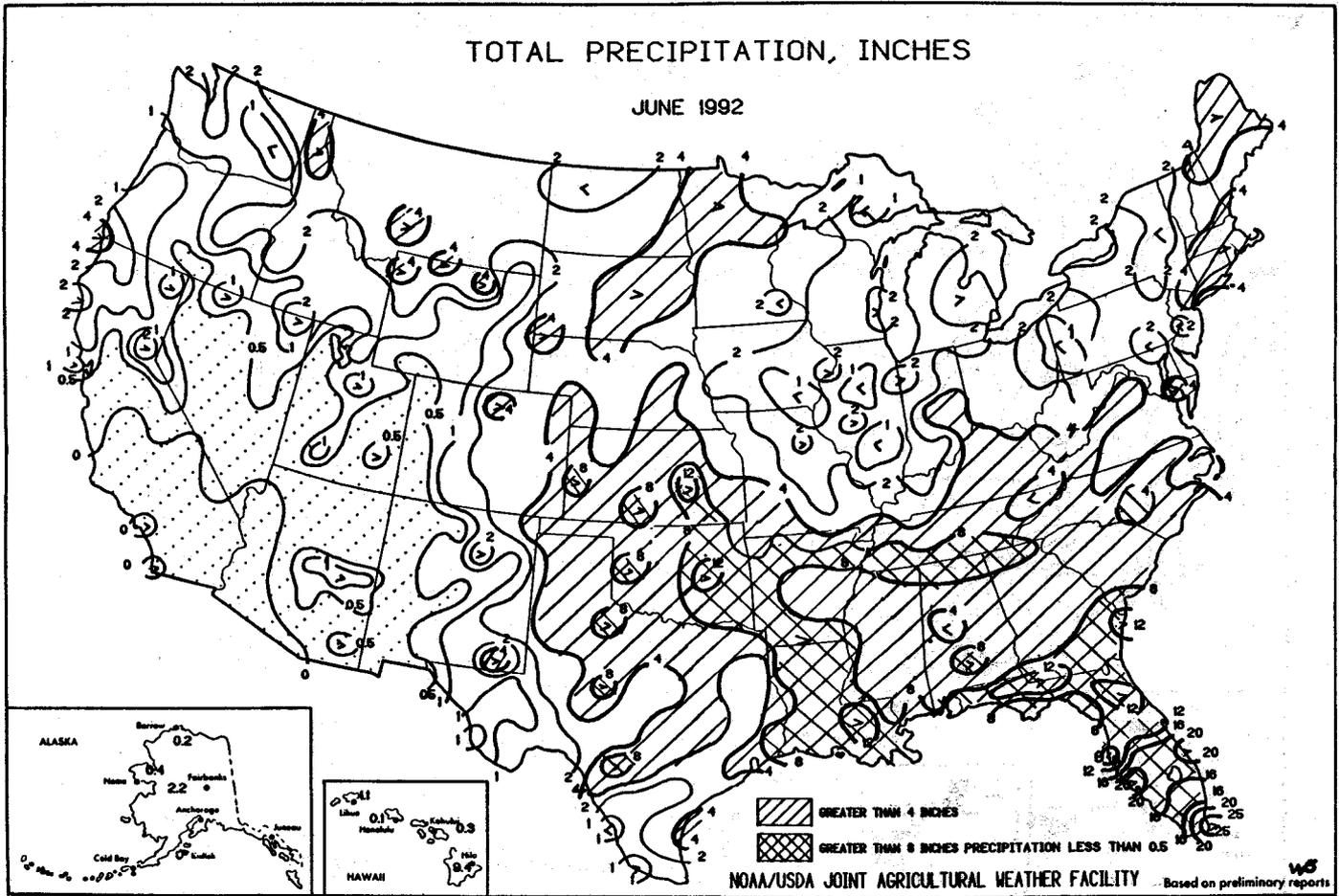
Nearly all of the **spring wheat** had emerged by June and heading advanced during the month. Sixty-seven percent of the spring wheat acreage was showing grain heads by July 5, compared with 81% last year and 78% average. Spring wheat condition deteriorated due to dry weather in the north-central States during the first half of June, but rebounded well in most of the major States with rains later in the month. Drought conditions in Montana, however, remained, and much of the spring wheat acreage was suffering.

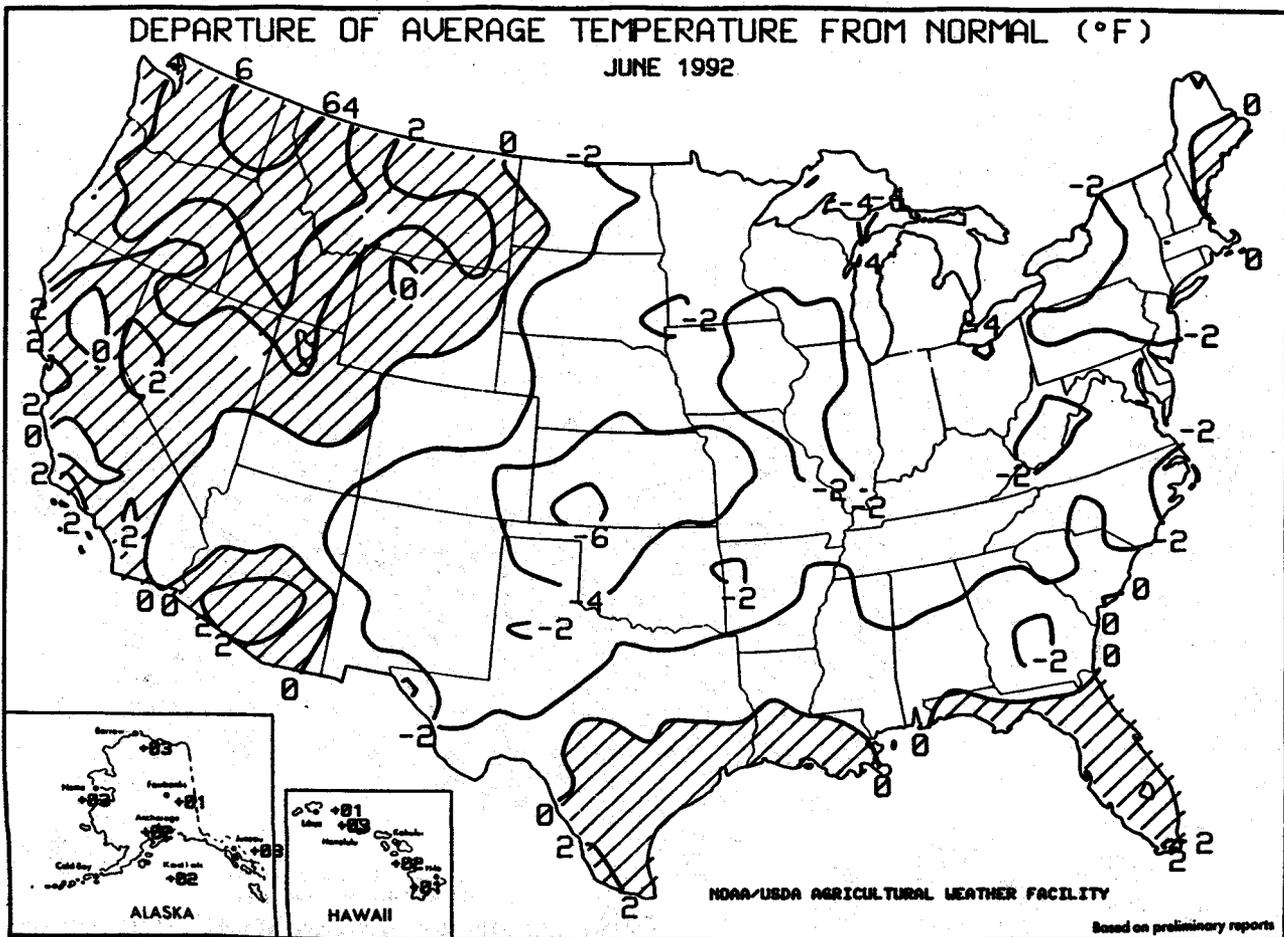
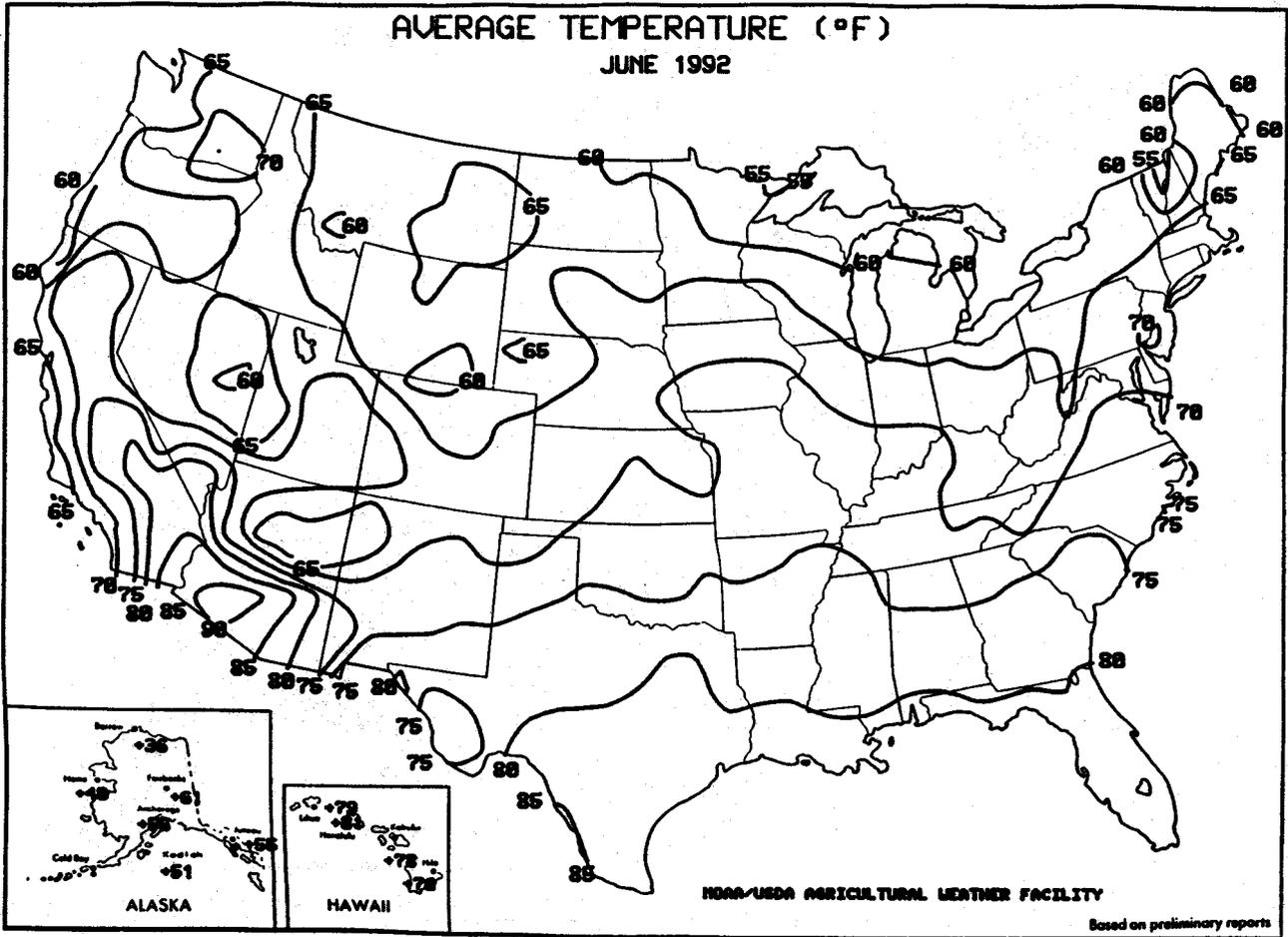
**Corn** planting was nearly complete in the northern Corn Belt and well along in the Northeast entering June, and silking was increasing in the Southeast. Crop condition improved in response to rains during the month in many regions, but soil moisture remained short in much of the central and eastern Corn Belt. Low temperatures the week beginning June 22 caused freeze damage to some acreage in the Great Lakes and eastern Corn Belt, with the most damage occurring in Wisconsin. Corn silking was slower than usual during June, despite early planting of the crop. Five percent of the corn acreage was silking in the 17 major producing States by July 5, compared with 20% last year and 11% average.

**Soybean** planting was well along in the northern producing States on June 1 and active between rains in the South. Planting was completed in the northern producing States during the month, but continued in the southern States where planting of second-crop acreage awaited completion of earlier crop harvests. Blooming of soybeans was slowed by the relatively cool June weather in the major producing States. Blooms were evident on just 11% of the acreage by July 5, 16 points behind last year and 8 points behind the historic average.

**Cotton** planting was in full swing in Oklahoma and Texas entering June, and complete, or mostly complete, in the other major producing States. Hail, high winds, and excessive moisture during the month damaged some fields in the Texas Plains, eastern Arizona, southern New Mexico, and southeastern Arkansas. Boll weevil emergence was

(Continued to back cover)





# TEMPERATURE AND PRECIPITATION SUMMARY

## June 1992

STATES AND STATIONS		Temp. °F		Precip.		STATES AND STATIONS		Temp. °F		Precip.		STATES AND STATIONS		Temp. °F		Precip.	
		AVERAGE	DEPARTURE	TOTAL	DEPARTURE			AVERAGE	DEPARTURE	TOTAL	DEPARTURE			AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL	BIRMINGHAM	75	-2	5.8	2.2	LA	ALEXANDRIA	80	0	5.4	1.5	TOLEDO	65	-3	1.3	-2.2	
	HUNTSVILLE	74	-1	10.6	6.9		BATON ROUGE	80	0	14.4	11.3		YOUNGSTOWN	63	-3	1.0	-2.5
	MOBILE	79	-1	5.2	0.2		LAKE CHARLES	82	1	8.2	4.1	OK	OKLAHOMA CITY	74	-3	6.4	2.5
	MONTGOMERY	76	-3	7.3	3.9		NEW ORLEANS	81	0	9.5	4.9		TULSA	75	-3	8.4	3.8
AK	ANCHORAGE	56	2	1.2	0.1		SHREVEPORT	78	-1	4.0	0.5	OR	ASTORIA	59	2	0.6	-2.0
	BARROW	36	3	0.2	-0.2	ME	CARIBOU	60	0	4.6	1.4		BURNS	62	2	3.0	2.5
	FAIRBANKS	60	1	2.2	0.8		PORTLAND	63	1	4.0	1.0		MEDFORD	70	5	2.6	2.0
	JUNEAU	55	3	3.0	0.0	MD	BALTIMORE	70	-2	1.9	-1.8		PENDLETON	70	4	0.9	0.3
	KODIAK	51	2	5.6	1.6		SALTSBURY	69	-3	2.9	-0.6		PORTLAND	67	5	0.6	-0.9
	NOME	48	3	0.4	-0.8	MA	BOSTON	68	0	4.6	1.7		SALEM	66	5	1.1	-0.1
AZ	FLAGSTAFF	59	-2	0.3	-0.3		CHATHAM	62	1	4.2	1.4	PA	ALLENTOWN	69	-1	3.4	-0.1
	PHOENIX	90	4	T	-0.1	MI	ALPENA	58	-3	1.7	-1.4		ERIE	64	-1	2.0	-2.0
	PRESOTT	68	-1	0.2	-0.2		DETROIT	65	-3	2.4	-1.1		HARRISBURG	69	-2	1.9	-1.7
	TUCSON	85	2	0.1	-0.1		FLINT	64	-2	2.3	-1.0		PHILADELPHIA	71	0	1.8	-2.1
	WINSLOW	88	-5	0.1	-0.3		GRAND RAPIDS	64	-3	1.6	-2.0		PITTSBURGH	66	-2	0.6	-2.9
	YUMA	89	1	T	0.0		HOUGHTON LAKE	60	-2	1.9	-1.2		SCRANTON	66	-1	1.4	-2.0
AR	FORT SMITH	76	-2	8.3	4.7		LANSING	63	-3	2.1	-1.8		WILLIAMSPORT	67	-2	2.9	-1.0
	LITTLE ROCK	76	-3	5.6	1.9		MARQUETTE	56	-3	0.6	-3.3	RI	PROVIDENCE	67	0	4.6	1.8
CA	BAKERSFIELD	78	-1	0.0	-0.1		MUSKOGEE	62	-4	1.5	-1.0	SC	CHARLESTON	78	0	6.2	-0.3
	BISHOP	69	-2	0.3	0.2	MN	SAULT ST. MARIE	56	-2	1.6	-1.7		COLUMBIA	76	0	6.4	1.9
	EUREKA	58	4	1.3	0.7		ALEXANDRIA	63	-2	3.9	-0.2		FLORENCE	75	-2	4.1	-0.6
	FRESNO	77	2	T	-0.1		DULUTH	56	-3	5.0	1.1	SD	GREENVILLE	72	-3	5.0	0.6
	LOS ANGELES	66	0	T	0.0		INT'L FALLS	58	-3	2.2	-1.5		ABERDEEN	64	-2	5.6	2.4
	REDDING	76	-1	1.7	0.8		MINNEAPOLIS	66	-2	3.7	-0.4		HURON	65	-2	5.4	2.1
	SACRAMENTO	71	0	0.2	0.1		ROCHESTER	65	-2	1.6	-2.2		RAPID CITY	63	-3	2.2	-1.1
	SAN DIEGO	68	2	T	0.0	MS	ST. CLOUD	62	-3	3.0	-1.5		SIoux FALLS	67	-1	2.4	-1.2
	SAN FRANCISCO	64	3	0.4	0.3		GREENWOOD	78	-2	7.9	4.6	TN	BRISTOL	69	-3	3.4	-0.1
	STOCKTON	--	--	0.4	0.3		JACKSON	78	-2	4.8	1.6		CHATTANOOGA	71	-4	8.9	5.5
CO	ALAMOSA	59	0	1.2	0.6		MERIDIAN	78	-1	7.5	4.0		KNOXVILLE	72	-2	3.1	-0.9
	CO. SPRINGS	63	1	3.9	1.9	MO	TUPELO	75	-1	7.1	3.4		MEMPHIS	77	-2	7.5	3.9
	DENVER	66	-1	2.0	0.5		CAPE GIRARDEAU	--	--	3.7	0.2		NASHVILLE	72	-3	4.3	0.6
	GRAND JUNCTION	71	-1	0.2	-0.3		COLUMBIA	70	-3	1.6	-2.1	TX	ABILENE	78	-2	4.8	2.3
	PUEBLO	67	-4	3.2	2.0		KANSAS CITY	70	-5	3.8	-0.8		AMARILLO	71	-4	7.6	4.1
CT	BRIDGEPORT	67	-1	5.1	2.3		SAINT LOUIS	74	-1	1.2	-2.5		AUSTIN	82	0	5.0	1.9
	HARTFORD	66	-2	5.8	2.4	MT	SPRINGFIELD	71	-3	6.0	1.4		BEAUMONT	81	0	10.7	5.8
DC	WASHINGTON	72	-3	2.4	-1.0		BILLINGS	66	2	2.7	0.6		BROWNSVILLE	84	1	1.5	-1.2
FL	APALACHICOLA	80	1	6.1	1.3		GLASGOW	65	1	3.2	0.7		CORPUS CHRISTI	82	0	1.5	-2.3
	DAYTONA BEACH	80	1	10.6	4.2		GREAT FALLS	63	1	3.2	0.5		DEL RIO	83	-1	1.8	0.1
	FT. MYERS	82	0	18.5	9.8		HAVRE	65	1	2.0	-0.2		EL PASO	82	0	0.3	-0.3
	JACKSONVILLE	81	1	7.0	1.3		HELENA	65	5	2.4	0.4		FORT WORTH	79	-2	5.2	2.9
	KEY WEST	83	1	11.8	6.7		KALISPELL	63	5	3.6	1.4		GALVESTON	81	1	2.6	-1.0
	MIAMI	82	1	13.2	4.0		MILES CITY	69	3	2.5	-0.3		HOUSTON	82	1	3.4	-1.0
	ORLANDO	81	0	8.7	1.6	NE	GRAND ISLAND	67	-4	5.3	1.6		LAREDO	87	1	0.9	-1.8
	TALLAHASSEE	80	0	15.0	8.4		LINCOLN	69	-3	2.4	-1.4		LUBBOCK	76	-2	4.4	1.6
	TAMPA	82	1	7.0	1.8		NORFOLK	68	-3	4.0	-0.3		MIDLAND	77	-3	2.1	0.7
	WEST PALM BEACH	81	0	16.1	8.2		NORTH PLATTE	66	-3	2.6	-1.1		SAN ANGELO	79	-2	4.7	2.9
GA	ATHENS	75	-2	4.4	0.4		OMAHA	70	-3	1.5	-2.7		SAN ANTONIO	83	1	5.7	2.6
	ATLANTA	74	-1	4.1	0.8		SCOTTSBLUFF	66	-1	3.0	0.1		VICTORIA	84	2	1.3	-3.2
	AUGUSTA	76	-2	4.8	1.0		VALENTINE	64	-4	5.4	2.4		WACO	81	-1	2.7	0.1
	MACON	78	-2	5.5	1.8	NV	ELKO	61	-1	0.7	-0.2	UT	WICHITA FALLS	78	-3	7.9	5.1
	SAVANNAH	79	0	13.0	7.3		ELY	58	0	0.8	0.0		BLANDING	--	--	0.3	-0.1
HI	HILO	76	1	9.4	3.3		LAS VEGAS	83	0	0.1	0.0		CEDAR CITY	66	0	0.3	-0.2
	HONOLULU	81	3	0.1	-0.4		RENO	67	4	1.1	0.8		SALT LAKE CITY	70	2	0.4	-0.5
	KAHULUI	78	1	0.3	0.0	NH	WINNEMUCCA	66	2	0.4	-0.5	VT	BURLINGTON	64	-1	1.7	-1.9
	LIHUE	79	1	1.1	-0.6		CONCORD	64	-1	3.3	0.4		LYNCHBURG	71	-3	1.9	-1.6
ID	BOISE	70	4	2.1	1.1		ATLANTIC CITY	67	-3	3.6	0.8		NORFOLK	72	-2	2.2	-1.3
	LEWISTON	71	5	0.6	-0.8	NM	ALBUQUERQUE	72	-3	0.7	0.2		RICHMOND	71	-3	2.3	-1.3
	POCATELLO	64	2	1.3	0.3		CLOVIS	72	-3	3.4	0.8	WA	ROANOK	68	-4	6.9	3.6
IL	CAIRO	--	--	2.6	-1.8		ROSWELL	76	-3	2.2	1.2		COLVILLE	65	4	3.1	1.6
	CHICAGO	65	-3	1.4	-2.9	NY	ALBANY	65	-2	2.0	-1.3		QUILLAYUTE	58	3	1.7	-1.1
	MOLINE	69	-2	2.1	-2.2		BINGHAMTON	63	-2	1.3	-2.2		SEATTLE-TACOMA	65	5	1.1	-0.3
	PEORIA	70	-2	0.8	-3.1		BUFFALO	63	-3	2.2	-0.5		SPOKANE	68	7	1.5	0.3
	QUINCY	70	-3	1.5	-2.5		NEW YORK	71	0	3.2	0.1		WALLA WALLA	73	5	1.4	0.5
	ROCKFORD	67	-1	1.2	-3.4		ROCHESTER	64	-3	2.0	-0.8	WV	YAKIMA	70	6	1.2	0.7
	SPRINGFIELD	70	-3	2.3	-1.2		SYRACUSE	64	-3	1.8	-1.8		BECKLEY	66	0	3.7	-0.3
IN	EVANSVILLE	72	-3	1.4	-2.1		ASHVILLE	68	-2	6.6	2.9		CHARLESTON	69	-2	3.2	-0.1
	FORT WAYNE	66	-4	3.3	-0.3	NC	CHARLOTTE	74	-1	6.8	3.3		ELKINS	64	-3	2.0	-2.4
	INDIANAPOLIS	68	-4	4.1	0.1		GREENSBORO	71	-2	2.9	-1.0		HUNTINGTON	69	-3	3.2	-0.2
	SOUTH BEND	65	-4	1.7	-2.2		HATTERAS	74	-1	0.9	-3.1		PARKERSBURG	68	-3	3.1	-0.8
IA	DES MOINES	70	-1	1.0	-3.1		NEW BERN	74	-1	4.1	-1.0	WI	GREEN BAY	62	-2	1.6	-1.5
	DUBUQUE	67	0	1.0	-3.2		RALEIGH	72	-2	5.1	1.5		LACROSSE	67	-2	2.3	-1.8
	SIoux CITY	68	-3	2.7	-1.2		WILMINGTON	74	-2	7.0	1.4		MADISON	65	-2	1.5	-2.3
	WATERLOO	68	-1	1.9	-2.4	ND	BISMARCK	63	-2	3.6	0.6		MILWAUKEE	63	-2	3.1	-0.4
KS	CONCORDIA	69	-5	6.3	2.1		FARGO	62	-3	6.5	3.4		WAUSAU	62	-3	1.7	-2.2
	DODGE CITY	68	-7	7.0	4.0		GRAND FORKS	62	-2	4.0	1.1	WY	CASPER	64	1	0.8	-0.4
	GOODLAND	67	-3	6.7	4.0		WILLISTON	63	-1	1.9	-0.7		CHEYENNE	61	-1	2.1	0.1
	TOPEKA	69	-5	3.4	-1.8	OH	AKRON-CANTON	65	-3	1.6	-1.7		LANDER	63	1	1.4	0.0
	WICHITA	71	-5	7.3	3.3		CINCINNATI	68	-4	3.6	-0.4		SHERIDAN	64	2	3.5	1.3
KY	BOWLING GREEN	71	-3	3.6	-1.0		CLEVELAND	64	-4	2.7	-0.8	PR	SAN JUAN	83	2	5.6	0.7
	JACKSON	70	-1	4.1	0.3		COLUMBUS	67	-3	2.3	-1.7						
	LEXINGTON	69	-3	7.7	3.5		DAYTON	68	-3	3.2	-0.6						
	LOUISVILLE	72	-2	3.0	-0.5		MANSFIELD	64	-4	3.1	-0.4						
	PADUCAH	74	-2	3.6	-0.9												

Based on 1951-80 normals.

## National Agricultural Summary

June 29 - July 5, 1992

**HIGHLIGHTS:** Rainfall was common in the eastern United States, but soil moisture supplies remain short in parts of the eastern Corn Belt. Rains slowed harvests from eastern Kansas through the Southeast.

**SMALL GRAINS:** Winter wheat harvest advanced to 46 percent (%) complete in the 19 major producing States, 23 percentage points behind last year and 16 points behind the 5-year average. Harvest was nearly complete in Georgia and Arkansas, progressing in the central States, and beginning in the Pacific Northwest. Heavy rains from eastern Kansas and Oklahoma through the Southeast slowed harvest, but good progress was made in the middle Mississippi and Ohio Valleys. Condition of the crop remaining to be harvested improved in response to rains in the Pacific Northwest, but dropped further in the northern Great Plains and Rocky Mountains. Progress of spring wheat heading continued to lag behind last year and the historic average, despite advanced development in Idaho. Sixty-seven percent of the spring wheat acreage was showing grain heads, compared with 81% last year and 78% average. Spring wheat condition continued to diminish in drought-stricken Montana, but improved in Idaho, Minnesota, and the Dakotas. Heading of spring-seeded barley and oats was well along in the central Rocky Mountains, and advancing in Montana. Harvest of spring-seeded grains continued in the southern and central Atlantic Coast States, and began in Oregon.

**CORN:** Cooler-than-normal weather resulted in corn silking later than usual, despite early planting. Five percent of the corn acreage was silking in the 17 major producing States, compared with 20% last year and 11% average. Crop condition declined somewhat in the central and eastern Corn Belt, while scattered rains improved conditions in the western Corn Belt.

**SOYBEANS:** Blooming of soybeans was also slowed by the relatively cool weather. Blooms were evident on just 11% of the acreage in the major States, 16 points behind last year and 8 points behind the historic average. Crop condition showed little change from the previous week, rating mostly good to fair in the 19 major producing States.

**COTTON:** Cotton was squaring on 55% of the acreage, 2 points behind last year, and 7 points behind the historic average. Bolls were setting on 12% of the acreage, matching last year's progress, but lagging the average by 3 points. Crop condition improved in most of the major States, averaging good to fair. Fifty percent of New Mexico's acreage and 40% of Texas', however, rated very poor or poor. Cotton planting and replanting neared completion on the Texas Plains.

**GRAIN SORGHUM:** Grain sorghum planting reached 95% complete in the 12 major States, 3 points behind last year and 1 point behind the 5-year average. Planting remained active in the southern Plains and Rocky Mountains. Heading of the crop was 19% complete, matching last year and exceeding the average by 1 point. Rains improved crop condition in most States, with the crop rating predominantly good.

**RICE:** Rice heading was 15% complete in the 5 major States, 2 points ahead of last year and 4 points ahead of the average. Heading progress was ahead of normal in the southern Delta, but well behind in Texas, where rainy weather has dominated. Crop condition remained generally good. Some problems with rice water weevil occurred in southeast Arkansas, and blast and sheath blight problems were evident in southwest Louisiana.

**OTHER FIELD CROPS:** The second cutting of alfalfa and other hay was increasing in the Midwest, while first cutting progressed in the northernmost States. Summer potato digging was active across the southern United States, and fall potatoes were in good condition in the northern States. Dry bean planting was nearing completion in New York. Sugar beet harvest was under way in California, and thinning was nearly complete in Wyoming. Tobacco harvest was slowed by rains in Florida and Georgia. Sweetpotato planting continued in the southern Delta. Sunflower and flax were in good condition in the Dakotas, with flax beginning to bloom. Mint harvest began in Idaho.

**FRUIT AND NUTS:** Peach picking was under way in the Carolinas, the Delta, and the West. Apricot picking was active in Washington, while winding down in California. California's table grape harvest expanded into the San Joaquin Valley, while mildew problems were encountered in wine grape orchards due to damp weather. Valencia orange picking continued in California. New England cranberries were in full bloom. New York tree fruits were in good to excellent condition, with apple thinning and sweet cherry harvest underway. Raspberry picking was finished in Oregon but continued in Washington. Blueberry, Marionberry, and Boysenberry picking was also active in the Northwest.

**VEGETABLES:** Melon, onion, and cabbage harvests continued in Arizona. California summer vegetable harvests progressed, and harvest of processing tomatoes began in the San Joaquin Valley. Summer rains fell over Florida's northern vegetable-producing areas, with harvests of tomatoes, melons, sweet corn, and peppers under way. Thrips were a major problem on bell peppers in south-central Georgia. Cucumber and snap bean harvests were increasing in Maryland, while harvest of green peas was nearing completion. New Jersey summer vegetable picking increased, while supplies of early-season vegetables declined. Green pea harvest was nearing completion in Oregon. Melon, tomato, pepper, and onion picking was active in Texas.

**PASTURES AND LIVESTOCK:** Rains across the eastern half of the Nation improved pasture condition, and northwest ranges received some relief from dry conditions. Heavy grasshopper infestations appeared in parts of Texas.

### Crop Progress

for the Week Ending July 5, 1992

#### COTTON (Percent Squaring)

	Current	Last Wk	1991	Avg.
AL	85	69	81	86
AZ	93	88	90	96
AR	91	76	87	86
CA	80	65	75	78
GA	85	45	85	89
LA	96	89	68	74
MS	89	80	70	83
MO	75	48	70	82
NM	62	51	74	71
NC	35	27	78	60
OK	21	19	27	22
SC	67	32	85	67
TN	66	44	50	70
TX	28	23	40	44
14 States	55	45	57	62

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

#### COTTON (Percent Setting Bolls)

	Current	Last Wk	1991	Avg.
AL	8	4	17	19
AZ	47	25	39	62
AR	5	2	0	4
CA	5	1	0	8
GA	16	5	33	34
LA	21	15	5	18
MS	26	9	20	24
MO	3	0	3	14
NM	7	0	17	6
NC	4	2	19	23
OK	0	0	2	1
SC	1	0	35	16
TN	2	0	5	8
TX	10	8	13	12
14 States	12	7	12	15

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

#### SPRING WHEAT (Percent Headed)

	Current	Last Wk	1991	Avg.
ID	83	66	44	66
MN	72	57	98	91
MT	52	44	61	64
ND	62	45	80	76
SD	99	91	100	97
5 States	67	53	81	78

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

#### GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1991	Avg.
AR	100	100	99	99
CO	99	90	93	95
IL	100	99	100	99
KS	90	85	98	96
LA	100	100	97	99
MS	100	100	96	100
MO	100	100	100	99
NE	100	100	100	100
NM	94	86	98	NA
OK	94	89	97	96
SD	100	96	98	99
TX	96	93	98	98
12 States	95	92	98	96

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

#### GRAIN SORGHUM (Percent Headed)

	Current	Last Wk	1991	Avg.
AR	26	NA	17	14
CO	0	NA	0	0
IL	2	NA	13	9
KS	0	NA	2	1
LA	54	NA	49	34
MS	44	NA	16	23
MO	3	NA	0	2
NE	0	NA	0	0
NM	0	NA	0	0
OK	3	NA	1	3
SD	0	NA	0	0
TX	56	NA	56	54
12 States	19	NA	19	18

NA - not available.

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

#### RICE (Percent Headed)

	Current	Last Wk	1991	Avg.
AR	0	NA	0	0
CA	0	NA	0	0
LA	54	NA	32	27
MS	11	NA	4	7
TX	26	NA	51	36
5 States	15	NA	13	11

These 5 States produced 97% of the 1991 rice crop.

#### SOYBEANS (Percent Blooming)

	Current	Last Wk	1991	Avg.
AL	3	2	4	10
AR	5	4	0	4
GA	10	6	11	12
IL	19	7	62	37
IN	7	1	41	20
IA	15	2	14	22
KS	5	5	20	10
KY	7	2	8	9
LA	6	3	1	5
MI	3	0	30	10
MN	10	0	12	21
MS	9	3	9	8
MO	12	2	14	18
NE	3	1	20	14
NC	4	0	8	1
OH	11	9	70	24
SC	1	0	4	3
SD	14	4	29	20
TN	6	5	2	4
19 States	11	3	27	19

These 19 States produced 95% of the 1991 soybean crop.

#### CORN (Percent Silking)

	Current	Last Wk	1991	Avg.
CO	0	0	0	0
GA	94	88	95	95
IL	3	1	53	24
IN	4	0	32	13
IA	0	0	2	2
KS	20	5	35	20
KY	19	5	50	27
MI	0	0	15	4
MN	0	0	0	0
MO	13	6	36	25
NE	0	0	6	6
NC	39	24	76	53
OH	0	0	0	0
PA	0	0	3	1
SD	0	0	0	1
TX	62	56	70	67
WI	0	0	1	1
17 States	5	3	20	11

These 17 States produced 94% of the 1991 corn crop.

#### WINTER WHEAT (Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	99	92	99	97
CA	75	60	75	71
CO	6	1	0	0
GA	98	91	99	99
ID	0	0	0	0
IL	45	15	95	84
IN	25	9	83	59
KS	60	40	97	85
MI	0	0	20	6
MO	45	26	97	85
MT	0	0	0	0
NE	6	0	46	40
NC	66	54	99	88
OH	2	1	91	43
OK	85	80	97	97
OR	3	2	0	1
SD	0	0	11	9
TX	75	54	91	87
WA	5	1	0	0
19 States	46	34	69	62

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

**Crop Condition  
(Percent)**

for the Week Ending July 5, 1992

**WINTER WHEAT**

State	VP	P	F	G	EX
AR	0	0	2	81	17
CA	0	0	10	75	15
CO	12	16	33	38	1
GA	10	6	38	44	2
ID	4	8	30	53	5
IL	9	4	27	52	8
IN	3	14	54	28	1
KS	11	22	41	19	7
MI	1	9	30	50	10
MO	4	8	55	25	8
MT	25	26	29	16	4
NE	14	28	40	18	0
NC	0	0	26	70	4
OH	3	9	34	47	7
OK	0	5	54	41	0
OR	5	20	48	27	0
SD	16	27	42	15	0
TX	0	2	22	72	4
WA	0	53	35	12	0
19 State	7	15	38	36	4
Prev Week	6	16	40	33	5
Prev Year	6	13	41	34	6

**SOYBEANS**

State	VP	P	F	G	EX
AL	0	0	10	80	10
AR	0	0	25	75	0
GA	0	1	13	82	4
IL	0	9	65	26	0
IN	0	4	50	45	1
IA	0	6	44	47	3
KS	0	2	22	56	20
KY	0	0	29	64	7
LA	0	3	73	24	0
MI	2	8	35	45	10
MN	1	13	46	37	3
MS	0	4	22	70	4
MO	4	15	48	31	2
NE	0	1	11	79	9
NC	0	2	11	85	2
OH	1	7	30	53	9
SC	0	0	40	60	0
SD	1	3	23	62	11
TN	0	2	19	73	6
19 State	1	6	41	48	4
Prev Week	1	5	41	49	4
Prev Year	1	5	33	53	8

**CORN**

State	VP	P	F	G	EX
CO	1	7	22	57	13
GA	0	0	13	66	21
IL	0	8	65	27	0
IN	0	8	42	46	4
IA	0	14	37	42	7
KS	7	1	24	56	12
KY	0	1	16	61	22
MI	2	13	30	45	10
MN	1	9	41	44	5
MO	3	16	44	35	2
NE	0	5	26	60	9
NC	0	2	13	69	16
OH	1	6	27	52	14
PA	1	6	22	50	21
SD	2	3	31	50	14
TX	0	0	11	67	22
WI	6	18	46	30	0
17 State	1	9	38	45	7
Prev Week	2	6	37	48	7
Prev Year	2	4	26	54	14

**COTTON**

State	VP	P	F	G	EX
AL	0	0	13	48	39
AZ	0	0	30	60	10
AR	0	0	13	87	0
CA	0	0	5	85	10
GA	0	0	27	71	2
LA	0	2	32	56	10
MS	0	0	28	68	4
MO	0	0	50	50	0
NM	8	42	25	25	0
NC	4	4	40	48	4
OK	0	26	46	28	0
SC	0	1	63	32	4
TN	0	0	68	32	0
TX	18	22	46	12	2
14 State	8	11	37	40	4
Prev Week	8	14	42	32	4
Prev Year	2	3	43	47	5

**GRAIN SORGHUM**

State	VP	P	F	G	EX
AR	0	0	28	72	0
CO	0	0	22	70	8
IL	0	0	30	70	0
KS	1	2	32	52	13
LA	0	0	48	52	0
MS	0	0	35	65	0
MO	1	14	52	33	0
NE	0	2	24	72	2
NM	0	0	13	76	11
OK	0	1	22	77	0
SD	0	3	47	41	9
TX	0	1	28	51	20
12 State	0	2	31	56	11
Prev Week	0	5	35	52	8
Prev Year	0	4	28	58	10

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

**SPRING WHEAT**

State	VP	P	F	G	EX
ID	4	9	25	57	5
MN	1	2	27	61	9
MT	18	25	28	25	4
ND	0	3	30	54	13
SD	1	6	41	50	2
5 State	4	8	30	49	9
Prev Week	3	11	33	46	7
Prev Year	0	3	13	67	17

**RICE**

State	VP	P	F	G	EX
AR	0	0	37	63	0
CA	0	0	15	80	5
LA	0	0	54	46	0
MS	0	0	29	71	0
TX	0	0	18	59	23
5 State	0	0	35	62	3
Prev Week	0	2	31	64	3
Prev Year	1	0	33	60	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 3.00 in. north; 1.00 to 2.00 in. south. Temperatures 1 to 2° below normal west; near normal elsewhere. Lows 60s. Highs low 90s; mid 90s extreme south. Days suitable for fieldwork 4.5. Soil moisture 22% short, 61% adequate, 17% surplus. Rains benefitted crops, pastures except in west central part of State. Corn 76% silked, 75% 1991, 79% avg.; 21% dented, 21% 1991, 25% avg.; 5% mature, 4% 1991, 4% avg.; 14% fair, 49% good, 37% excellent. Sorghum 98% planted, 96% 1991, 92% avg.; 28% fair, 54% good, 18% excellent. Peanuts 57% pegging, 46% 1991, 56% avg.; 92% good, 8% excellent. Winter wheat 89% harvested, 97% 1991, 91% avg. Pasture 6% poor, 22% fair, 64% good, 8% excellent. Livestock 3% poor, 11% fair, 75% good, 11% excellent. Primary activities: Harvesting small grains, potatoes, fruits, vegetables; planting soybeans, sorghum; cultivating row crops; scouting fields for insects, diseases; general care of livestock, poultry, catfish.

**ALASKA:** Seasonal warm temperatures combined with sunshine, little precipitation boosted crop maturity. Highs 3 to 12° above normal. Lows 1 to 7° above normal. Seasonal precipitation 1.31 in. wetter than normal at Fairbanks to 1.26 in. drier than normal at Homer.

Days suitable for fieldwork 5.0. Topsoil 43% short, 57% adequate. Subsoil 31% short, 69% adequate. Small grain was in pre boot stage, heights averaged 12 in. First cutting hay active, nearly 30% complete comparable with progress 1991. Commercial potato heights avg. 9 in. versus 8 in. 1991. Crop growth; 15% slow, 65% moderate, 20% rapid.

**ARIZONA:** Sunny 29th to 5th. Temperatures 6° below normal to 1° above. Extremes 35°; 102° higher elevations, 54°; 111° deserts.

Cotton squaring 93%, 90% 1991, 96% avg.; setting bolls 47%, 39% 1991, 62% avg.; 30% fair, 60% good, 10% excellent; weeds moderate; insects mostly light to moderate. Alfalfa good to excellent; insects, weeds mostly light statewide; harvest, moderate to active. Small grains harvested, 97%, 94% 1991, 96% avg. Cantaloupe, watermelon, honeydews, grapes, oranges, grapefruit harvested west, central. Potatoes, mixed vegetables harvested, central. Dry onions, cabbage harvested central. Pasture, range 87% of normal. Cattle, calves, good north, central, good to excellent southeast. Stockwater, soil moisture, mostly adequate, statewide. Range feed supplies mostly average north, average to above average central, southeast. Insect damage light.

**ARKANSAS:** Temperatures little below normal, scattered showers, thunderstorms statewide. Temperatures 59°; 95°. Rainfall 1.05 to 5.19.

Days suitable for fieldwork 5. Soil moisture supplies 78% adequate, 22% surplus. Main farming activities: Planting soybeans, applying herbicide, fertilizer to rice, harvesting wheat, oats, scouting, cultivating cotton, weevil treatment, pasture weed control, hay harvesting, harvesting fescue seed, working cattle, harvesting peaches. Beneficial rains

contributed to excellent crop growth, development during week. Rice mostly fair to good. Mid-season nitrogen being applied. Some problems with rice water weevil in southeast. Wheat mostly good. Wheat harvest almost complete. Yields, quality good to excellent statewide. Cotton mostly fair to good. Worm pressure increasing in southeast. Soybeans emerged 82%, 84% 1991, 83% avg.; plantings progressed as wheat harvested. Corn 13% fair, 74% good, 13% excellent. Oat harvested nearing end, 97% harvested, 100% 1991, 99% avg. Peach harvest continued in west central. Peach fair to good. Watermelon harvest underway in southwest, mostly good. Tomatoes good. Blueberries, grapes good. Blueberry harvest nearly complete. Livestock good. Producers continue seasonal spraying for ticks, flies. Pastures mostly good. Hay harvesting continued.

**CALIFORNIA:** Upper level low pressure brought rain to northern half of State with below normal temperatures. High pressure replaced cool weather with warmth late in the week.

Field activities north half slowed, rainfall Monday. Good progress elsewhere. Small grains harvested. Straw baling, discing followed. Rain damage wheat, hay, some areas. Cotton irrigated, treated lygus, mites, weeds. Rice sprayed water weevils. Alfalfa, Sudan grass cut hay, green chopped. Alfalfa treated worms. Safflower, seed alfalfa drying for harvest. Garbanzo beans, sugar beets harvested. Stone fruit growers continued harvest, pack. Orchard cultural activities continued. Freestone peach crop half picked. 45% nectarines picked. Plum harvest neared 40%. Apricot harvest virtually complete. Persimmons experiencing June drop. Desert table grape harvesting continued. Harvest table grapes began, San Joaquin Valley. Due to damp weather, wine grapes mildew problem. Almond orchards treated Navel Orange Worm. Valencia oranges almost one third picked. Strawberry harvest continued moderate to light demand, variable quality central coast. Broccoli moderate good quality Salinas Watsonville, Santa Maria. Cauliflower moderate Salinas Watsonville, light Santa Maria variable quality. Carrot harvest continued Westside area, Kern district. Planting active Coachella Valley, early fields progressing well. Celery moderate, good quality Salinas Watsonville, variable quality Santa Maria. Harvest continued steady Oxnard. Sweet corn harvest progressed statewide, good quality. Iceberg lettuce moderate Salinas Watsonville, fairly light in Santa Maria variable quality. Leaf, Romaine lettuce moderate, variable quality Salinas Watsonville. Cantaloupe, honeydew, watermelon, mixed melon movement continued Westside, desert areas good quality. Spring onion harvest continued central valley, desert growing areas. Summer potato volume increased Perris-Hemet district good quality. Fresh market tomato picking active central valley. Processing tomato harvest San Joaquin Valley started good quality. Other vegetables harvested: beans, cucumbers, peppers, various oriental vegetables. Range, pasture poor to good, poor northeast. Mountain rains helped. Fire hazard increasing. Stockwater supplies adequate overall, critical

some areas. Supplemental feeding active. Livestock movement increasing. Bee activity slowed.

**COLORADO:** Few, locally heavy showers reported in the north, east on 27th through 30th. Rest of week warmer, drier. Arkansas, South Platte River basins 0.10 to 0.20 in. of moisture. Tornados, 1-inch diameter hail were reported near Palmer Lake. Temperatures 2 to 3° below normal.

Days suitable for fieldwork 4.8. Soil moisture 4% very short, 27% short, 62% adequate, 7% surplus. Alfalfa 1st cutting 86%, 72% 1991, 82% avg.; second cutting 13% complete, 7% 1991, 4% avg. Barley headed 87%, 52% 1991, 75% avg. Oats headed 90%, 73% 1991, 67% avg. Spring wheat headed 81%, 26% 1991, 56% avg. Dry beans emerged 83%, 88% 1991, 94% avg. Summer, fall potatoes progressing mostly good to excellent. Sorghum planted 90%, 86% 1991, 91% avg.; emerged 80%. Winter wheat turning color 85%, 81% 1991, 82% avg.; ripe 56%. Winter wheat 12% very poor, 16% poor, 33% fair, 38% good, 1% excellent. Harvest just underway in south eastern area. Corn 1% very poor, 7% poor, 22% fair, 51% good, 13% excellent. Livestock mostly good. Pasture, range feed improved to good to excellent.

**FLORIDA:** Temperatures near normal to 3° above normal north, 2 to 5° above normal south. Highs; mid, upper 90s. Lows; upper 60s north, mid 70s south. Rain across State early in week; 0.50 to 2.00 in. south, 1.00 to 3.00 in. elsewhere except Lake Iamonia 5.04 in., Chipley 4.14 in.

Soil moisture mostly adequate to surplus. Flooding in scattered areas. Tobacco growers started second priming of leaves. Early cotton blooming. Soybean planting winding down. Haying active. Corn, peanuts, sugarcane making good progress. Groves still recovering from late June heavy rainfall. No significant tree damage. Most all excessive water removed. Valencia harvest all but over for season. Caretakers cutting cover crops, spot spraying, fertilizing, removing dead trees, burning debris. Summer rains fell over major north vegetable producing areas. North; tomato, watermelon harvesting continues. Sweet corn, watermelon supplies decreasing. Pepper harvest finishes this week. Central; season virtually complete except for local sales. State's pastures good to excellent. Pasture ratings, 60% good, 40% excellent. Moisture levels mostly adequate to surplus. State's cattle herds good to excellent.

**GEORGIA:** Wet week. North received between 2.00 to 5.00 in. South received between 1.00 to 3.00 in. Morning lows upper 50s low 60s mountains, upper 60s low 70s elsewhere. Highs upper 80s north, mid 90s south. Temperatures within 1° of normal. Precipitation 3.00 in. above normal north, 0.50 in. below to 1.00 in. above normal south.

Days suitable for fieldwork 3.8. Soil moisture 1% very short, 7% short, 63% adequate, 29% surplus. Corn 65% dough, 86% 1991, 78% avg.; 27% dent, 62% 1991, 47% avg.; 3% mature, 17% 1991, 8% avg.; Lodging from high winds local areas. Cotton continued improvement, development slow. Sorghum 18% fair, 82% good; 95% planted, 98% 1991, 96% avg.; Local damage to stands, lesser cornstalk borers. Peanuts 23% fair, 71% good, 6% excellent; 89% blooming, 91% 1991, 92% avg.; 46% pegging, 65% 1991, 67% avg.; Some weed problems. Soybeans 95% planted, 97% 1991, 95% avg.; 1% setting pods, 2% 1991, 2% avg. Tobacco 13% fair, 80% good, 7% excellent;

14% harvested, 35% 1991, 24% avg.; showers slowing harvest. Other small grains 8% very poor, 2% poor, 42% fair, 48% good. Watermelons 17% poor, 65% fair, 18% good; 46% harvested, 71% 1991, 63% avg. Other vegetables 12% poor, 46% fair, 42% good; thrips major problem on bell peppers south central. Apples 1% poor, 7% fair, 92% good; 0% harvested, 3% 1991, 1% avg. Peaches 8% very poor, 27% fair, 65% good; 67% harvested, 82% 1991, 80% avg. Hay fair to mostly good, pastures good. Cattle, hogs good.

**HAWAII:** Warm, sunny weather prevailed in the State. Trade winds brought showers to higher elevations, windward areas across the islands, benefiting agriculture. High temperatures of 90° were recorded in Honolulu on two consecutive days. Farmers stepped up spraying programs as insect, disease activity increased with dry summer weather. Rainfall none to 2.90 in.

Days suitable for fieldwork 7.0. Cavendish banana production increased. Sweet corn harvesting continued active with moderate to heavy picking. Papaya harvesting at seasonally high levels. Watermelon crop fair. Orchard, nursery crops benefitted from rainfall.

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

Days suitable for fieldwork 5. Soil moisture 19% very short, 33% short, 48% adequate. Spring barley headed 79%, 42% 1991, 67% avg. Potatoes 86% over twelve inches, 47% closing middles. Potato good. First cutting alfalfa 93%, 83% 1991, 87% avg.; second cutting 16%, 3% 1991, 3% avg. Dry beans emerged 100%, 100% 1991, 99% avg. Cherries harvested 87%, 20% 1991, 71% avg. Mint 1st cutting 5%, 0% 1991, 0% avg. Irrigation water supplies 19% very poor, 24% poor, 29% fair, 28% good. Activities: Cultivating, 2nd cutting alfalfa, irrigation, preparation of harvest machinery. Pasture, range 64% of normal. Livestock good.

**ILLINOIS:** Summer like heat, humidity was followed by a vigorous storm system, with numerous thunderstorms last week. Temperatures low 60s to the low 80s across the State. Precipitation 1.00 to 1.50 in. throughout State.

Days suitable for fieldwork 6.0. Soil moisture 94% short, 6% adequate. Corn average height 40 in., 63 in. 1991, 55 in. avg. Height advanced 56 in., 80 in. 1991, 73 in. avg. Soybeans setting pods 2%, 22% 1991, 8% avg. Winter wheat ripe 97%, 100%, 1991, 97% avg. Alfalfa second cutting 45%, 66% 1991, 51% avg.; 21% good, 57% fair, 18% poor, 4% very poor. Red clover cut 94%, 93% 1991, 90% avg. Oats filled 93%, 100% 1991, 94% avg.; turning yellow 49%, 86% 1991, 66% avg.; ripe 7%, 53% 1991, 33% avg.; 3% excellent, 37% good, 54% fair, 6% poor. Pasture 63% of normal.

**INDIANA:** Temperatures around normal. Highs low 80s to 95°. Lows upper 40s to low 60s. Precipitation 0.10 to 2.00 in. northeast was driest.

Days suitable for fieldwork 6.2 days. Topsoil 64% short, 36% adequate. Subsoil 60% short, 40% adequate. Corn height 39 in., 61 in. 1991, 47 in. avg. Soybean height 12 in., 17 in. 1991, 11 in. avg. Wheat turned color 92%, 100% 1991, 100% avg.; ripe 50%, 100% 1991, 100% avg. Oats headed 97%, 100% 1991, 92% avg.; harvested 5%, 26% 1991, 18% avg. Pasture 75%, 81% last week, 63% 1991. Frost damage assessment continues.

**IOWA:** Temperatures 1 to 6° below normal. Extremes 49°; 92°. Precipitation 0.10 to 2.84 in.; average 0.93 in.

Days suitable for fieldwork 5.8. Topsoil 67% short, 32% adequate, 1% short. Subsoil 49% short, 51% adequate. Winter wheat 17% very poor, 31% poor, 37% fair, 15% good. Hay 7% very poor, 31% poor, 37% fair, 21% good, 1% excellent. Oats 19% poor, 42% fair, 36% good, 4% excellent. Pasture 22% very poor, 38% poor, 23% fair, 17% good. Corn cultivated first time 98%, 93% 1991, 95% avg. Soybeans cultivated first time 84%, 73% 1991, 83% avg. Oats headed 96%, 100% 1991, 100% avg.; turning color 40%, 81% 1991, 70% avg. First cutting alfalfa 100% harvested 100% 1991, 99% avg. First cutting clover 92% harvested, 91% 1991, 88% avg. Livestock mostly good.

**KANSAS:** Temperatures 3 to 8° below normal over State; 8° below normal southwest, 3° below normal southeast. Remainder of State 4 to 6° below normal. Precipitation received most districts. Ranged none northeast to 1.40 in. south central through 3rd. Heavy rain received 4th over most of eastern half of State.

Days suitable for fieldwork 4.5. Surface moisture 8% short, 68% adequate, 24% surplus. Subsurface moisture 21% short, 73% adequate, 6% surplus. Wheat harvest progressed considerably, hampered by soft fields. Heavy rain 4th halted harvest eastern areas. Flooding, hail in some localities. Weeds becoming problem. Sorghum, soybean planting progress slowed by wet fields, wheat harvest. Pasture good. Pastures fair northwest, good elsewhere. Stockwater adequate over State. Forty percent alfalfa cut second time. Only trace cut third time.

**KENTUCKY:** Widespread, moderate to heavy rain. Rainfall 2.00 to 2.50 in. west, east 1.50 to 2.00 in. Temperatures a few degrees below normal. Highs 80s, lows 60s.

Days suitable fieldwork 4.2. Soil moisture 2% very short, 18% short, 61% adequate, 19% surplus. Warmer temperatures, ample moisture prompted good crop growth. Tobacco 4% poor, 51% fair, 42% good, 3% excellent. Blue mold, angular leaf spot, black shank still a problem on tobacco. Wheat harvest 83% complete. Pasture mostly good to excellent.

**LOUISIANA:** Temperatures 1.3° below normal to normal. Extremes 64°; 96°. Rainfall 0.88 in. west central to 4.34 in. central.

Days suitable for fieldwork 3.2. Soil moisture 50% adequate, 50% surplus. Corn 17% fair, 78% good, 5% excellent; 100% silked, 99% 1991, 95% avg.; 77% dough stage, 70% 1991, 64% avg. 5% mature, 8% 1991, 6% avg. Hay 90% first cutting, 62% 1991, 81% avg. Peaches 67% harvested, 52% 1991, 52% avg. Rice 0% ripe, 1% 1991, 0% avg. Blast, sheath blight problems, southwest. Sorghum 100% emerged, 94% 1991, 98% avg. Soybeans 97% planted, 91% 1991, 91% avg.; 95% emerged, 80% 1991, 84% avg. Weed control active. Sugarcane 1% fair, 69% good, 30% excellent. Sweet potatoes 17% fair, 83% good; 85% planted, 89% 1991, 90% avg. Wheat 100% harvested, 98% 1991, 98% avg. Livestock 20% fair, 72% good, 8% excellent. Pastures 5% fair, 94% good, 1% excellent. Vegetables 6% poor, 41% fair, 50% good, 3% excellent. Scouting for insects, weeds active in cotton.

**MARYLAND & DELAWARE:** MARYLAND: Precipitation 0.95 in. Temperature 73.8°, normal 74.8°. Extremes 41°; 93°.

Days suitable for fieldwork 5.4. Topsoil 9% very short, 26% short, 61% adequate, 4% surplus. Subsoil 10% very short, 19% short, 71% adequate.

Soybeans 78% planted, 90% 1991, 84% avg.; balance awaiting small grain harvest. Sorghum planting virtually complete. Small grains good, remain 10 to 14 days late; barley 77% harvested, 98% 1991, 92% avg. wheat harvest 30%, 84% 1991, 64% avg. Pastures mostly excellent. Farmers dodging showers to cut, bale hay. Alfalfa second cutting 38%, other hay 14%. Tobacco transplanting virtually complete. Apples, peaches good, fruit near normal. Cucumber, snap bean harvest early stages. Harvest of green peas nearing completion. Most crops could use more warm temperatures. Japanese beetle sightings.

DELAWARE: Precipitation 0.37 in. Temperature 72.2°, normal 75.3°. Extremes 55°; 90°.

Days suitable for fieldwork 5.3. Topsoil 40% short, 60% adequate. Subsoil 60% short, 40% adequate. Soybeans 85% planted, 95% 1991, 86% avg. Small grains good, barley harvest virtually complete, wheat harvest 57%, 87% 1991, 67% avg. Green pea harvest nearing completion, some fields not being picked. Alfalfa second cutting 37%, very little other hay cut second time due to slow regrowth. Soils drying, need rain; most melons, vegetables nearing harvest.

**MICHIGAN:** Temperatures 0 to 11° below normal. Extremes 36°; 93°. Precipitation none to 3.39 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 75% short, 25% adequate. Corn 0% silked, 15% 1991, 4% avg.; 2% very poor, 13% poor, 30% fair, 45% good, 10% excellent. Soybeans 3% blooming, 30% 1991, 10% avg.; 2% very poor, 8% poor, 35% fair, 45% good, 10% excellent. Winter wheat 30% turning, 96% 1991, 80% avg.; 0% harvested, 20% 1991, 6% avg.; 1% very poor, 9% poor, 30% fair, 50% good, 10% excellent. Pasture 60% of normal. Major activities: Repairing equipment, haying, fertilizing, spraying for weed control, hoping for rain.

**MINNESOTA:** Temperatures 6 to 13° below normal. Precipitation 1.07 to 2.38 in. State, 0.13 to 1.58 in. above normal.

Days suitable for fieldwork 3.5. Topsoil 2% very short, 5% short, 60% adequate, 33% surplus. Spring wheat 72% heading, 98% 1991, 91% avg. Oats 92% heading, 94% 1991, 92% avg. Barley 73% heading, 99% 1991, 92% avg. Corn 33 in. avg. height, 38 in. 1991, 39 in. avg.; 2% tasseling, 3% 1991, 3% avg. Soybean 11 in. height, 11 in. 1991, 13 in. avg.; 10% blooming, 12% 1991, 21% avg. Spring wheat 1% very poor, 2% poor, 27% fair, 61% good, 9% excellent. Oat 1% very poor, 5% poor, 28% fair, 58% good, 10% excellent. Barley 1% very poor, 3% poor, 24% fair, 61% good, 11% excellent. Corn 1% very poor, 9% poor, 41% fair, 44% good, 5% excellent. Soybean 1% very poor, 13% poor, 46% fair, 37% good, 3% excellent.

**MISSISSIPPI:** Temperatures 79°, 2.1 below normal. Extremes 52°; 95°. Most of State received near average rainfall, while the central region received heavy rainfall. Rainfall 1.69, 0.68 above normal. Soil temperatures 82°.

Days suitable for fieldwork 3.7, 4.4 1991, 4.5 avg. Soil moisture 10% short, 60% adequate, 30% surplus. Corn 74% silking, 63% 1991, 71% avg.; dough 27%, 24% 1991, 33% avg.; silage harvested 4%, 5% 1991, NA avg.; 27% fair, 63% good, 10% excellent. Cotton 89% squaring, 70% 1991, 83% avg.; 26% setting bolls, 20% 1991, 24% avg.; 28% fair, 68% good, 4% excellent. Peanuts 98% planted, 97% 1991, 99% avg. Rice 11% heading, 4% 1991, 7% avg.; 29% fair, 71% good. Sorghum 44% heading, 16% 1991, 23% avg.; 35% fair, 65% good. Soybeans 94% planted, 89% 1991, 88% avg.; 87% emerged, 76% 1991, 77% avg.; 9% blooming, 9%

1991, 8% avg.; 4% poor, 22% fair, 70% good. Sweet potatoes 95% planted, 95% 1991, 96% avg. Watermelons 8% harvested, 13% 1991, NA avg. Wheat 97% harvested, 97% 1991, 97% avg.; 45% fair, 50% good, 5% excellent. Hay harvested 60%, 50% 1991, 48% avg. Peaches 66% harvested, 61% 1991, 67% avg.; 23% poor, 38% fair, 39% good. Pecans 7% very poor, 40% poor, 40% fair, 13% good. Livestock 7% fair, 85% good, 8% excellent. Pasture 91% of normal. Activities: Cultivating cotton, harvesting wheat.

**MISSOURI:** Rainfall 1.35 in.; varied from less than 0.50 in. northwest, north central to well over 1.00 central, southern districts, over 3.00 in. southwest. Temperatures 2° below normal.

Days suitable for fieldwork 5.9. Topsoil 69% short, 30% adequate, 1% surplus, predominately short northern districts. Subsoil moisture 60% short, 40% adequate. Corn silking varies from little or none northern districts to 65% southeast. Many northern counties need more moisture for normal corn pollination. Condition of most crops improved east central, southeast, southwest, but held steady or deteriorated north central, northeast. Double crop soybean planting 60%, 90% 1991, 74% avg. Wheat harvest less than 25% northern districts, about 40% central districts, complete southeast. Oat harvest 16%, 54% 1991, 54% avg. Alfalfa hay second cutting 42%, 58% 1991, 59% avg. Other hay cut 77%, 82% 1991, 80% avg. Pasture 18% very poor, 20% poor, 47% fair, 13% good, 2% excellent. Hay feeding becoming necessary several northern counties. Livestock water supply 1% critically short, 21% short, 78% adequate.

**MONTANA:** Temperatures normal west, 1 to 9° below normal east. Shower, thunderstorm activity spotty. Precipitation least 0.50 in. statewide.

Days suitable for fieldwork 3.0. Topsoil 17% short, 77% adequate, 6% surplus. Subsoil 50% short, 47% adequate, 3% surplus. Winter Wheat 98% headed, 94% 1991, 91% avg. Barley 64% headed, 59% 1991, 67% avg. Oats 47% headed, 61% 1991, 65% avg. Pasture, range feed 63%, down 3 points from last week. Alfalfa hay 55% harvested, 55% 1991, 69% avg.

**NEBRASKA:** Temperatures 2 to 8° below normal. Scattered precipitation varied from 0.15 in. southwest to 1.83 in. east central.

Days suitable for fieldwork 4.5. Topsoil 20% short, 73% adequate, 7% surplus. Subsoil 14% short, 86% adequate. Wheat 14% very poor, 28% poor, 40% fair, 18% good; 50% ripe, 69% 1991, 67% avg.; 6% harvested, 46% 1991, 40% avg. Corn 5% poor, 26% fair, 60% good, 9% excellent. Soybean 1% poor, 11% fair, 79% good, 9% excellent; 3% blooming, 20% 1991, 14% avg. Sorghum 2% poor, 24% fair, 72% good, 2% excellent. Alfalfa 2% poor, 28% fair, 56% good, 14% excellent; second cutting 23%, 18% 1991, 26% avg. Pasture, range 90% of normal.

**NEVADA:** Low pressure systems brought relatively cool weather, a few showers. Temperatures generally below normal. Extremes 31°; 107°. Light precipitation fell over northern two thirds of State.

Irrigation water supplies mostly very short. All winter wheat, about 85% barley and 80% spring wheat headed. Over half potato crop in bloom. Alfalfa hay harvest interrupted by showers; some hay damaged by rain. Range feed generally poor. Some early removal of cattle from traditional range to supplemental range. Stockwater very short many areas.

**NEW ENGLAND:** Precipitation 0.15 to 0.90 in. throughout region. Temperatures high 50s to low 70s; 2° to 6° below normal. Maximum temperatures high 70s to high 80s; minimum temperatures mid 30s to mid 50s.

Days suitable for fieldwork 5. Soil moisture 5% very short, 31% short, 51% adequate, 13% surplus. Available grazing 3% very short, 35% short, 55% adequate, 7% surplus. Fieldwork progress 3 days behind schedule. Maine potatoes good. Rhode Island potatoes good. Connecticut River Valley potatoes good. Maine oats good. Field corn 100% emerged, 100% 1991, 100% avg.; good. Sweet corn 100% planted, 100% 1991, 100% avg.; 98% emerged, 100% 1991, 100% avg.; good. First cut hay 85% harvested, 90% 1991, 79% avg.; fair to good. Second cut hay 13% harvested, 10% 1991, 7% avg.; fair to good. Shade tobacco 100% transplanted; good. Outdoor tobacco 100% transplanted; good. Apple set, fruit drop average, scab infection light. Pear, peach set average. Cranberries in full bloom stage. Strawberries set average, 65% harvested. Blueberry set average. Major farm activities: Irrigating, spraying for pests, weed control, mowing, harvesting vegetables, strawberries, haying.

**NEW JERSEY:** Temperatures slightly below normal. Extremes 49°; 92°. Rainfall 0.86 in. north, 0.83 in. central, 0.96 in. south. Heaviest 24 hour total 1.23 in. on 3rd, 4th. Estimated soil moisture, in percent of field capacity, averaged 77% north, 66% central, 51% south. Four inch soil temperatures 68° north, 70° central, 71° south.

Soil moisture content is short to adequate depending on area. Tomatoes, sweet corn, Cuban, yellow hot peppers, in light, increasing volume. Lettuce, leafy greens, endive, escarole, peas in light, decreasing volume. Beets, Chinese cabbage, green onions, turnips, parsley in moderate supply. Green beans, blueberries in moderate, increasing volume. Squash, cabbage, cucumbers in good volume. Light wheat harvest in extreme south. Potatoes sizing well. Pastures, field crops need more rain.

**NEW MEXICO:** In spite of a hot weekend, temperatures within 1 to 2° of normal in most areas. Precipitation rather spotty, light with only a few areas reporting any rain at all.

Days suitable for fieldwork 6.4. Soil moisture 38% short, 62% adequate. Crop conditions: Alfalfa, 14% fair, 68% good, 18% excellent. Corn 12% fair, 76% good, 12% excellent. Irrigated wheat, 5% fair, 95% good. Dryland wheat 22% fair, 78% good. Wheat crop is 81% harvested. Onions 29% fair, 71% good with harvest progressing. Chile 8% poor, 25% fair, 67% good. Apples 25% fair, 75% good with fruit set mostly average to heavy. Pecans 20% fair, 80% good with an average nut set. Cattle, sheep good. Range, pasture 97% of normal.

**NEW YORK:** Seasonable, dry weather dominated as week began. A cold front on 29th brought scattered rainfall, markedly cooler air. A storm moved into the State on the 3rd bringing rainfall. Western, central regions received the most. Extremes 37°; 89°. Rainfall 0.26 in. in eastern areas to 1.49 in. central, western areas.

Days suitable for fieldwork 6.3. Soil moisture short to mostly adequate. Pastures 87% of normal. Hay, wheat mostly good. Alfalfa first cutting 83% finished, 94% 1991, 78% avg. Second cutting underway. Dry beans 89% planted. Tree fruits good to excellent. Apple thinning continued active. Sweet cherry harvest underway. Strawberry harvest continued. Onion crop in good

to very good. Lettuce harvest active in Orange County. Sweet corn harvest nearing. Snap bean planting continued. Cool temperatures aided spinach crop.

**NORTH CAROLINA:** Temperatures 1 to 2° above normal. Precipitation 7.00 in. at one location in southern Wayne county to no rainfall at a number of locations.

Days suitable for fieldwork 5.1. Soil moisture 10% short, 82% adequate, 8% surplus. Crop condition: Wheat 26% fair, 70% good, 4% excellent; Pasture 6% fair, 85% good, 9% excellent; Tobacco 5% poor, 20% fair, 68% good, 7% excellent; Corn 2% poor; 13% fair, 69% good, 16% excellent; cotton 4% very poor; 4% poor, 40% fair, 48% good, 4% excellent; peanuts 17% fair, 83% good; soybeans 2% poor, 11% fair, 85% good, 2% excellent; hay 20% fair, 78% good, 2% excellent; irish potatoes 22% fair, 78% good; Sweet potatoes 12% fair 88% good; apples 7% poor, 33% fair, 60% good; peaches 19% very poor, 19% poor, 31% fair, 25% good, 6% excellent; truck crops 35% fair, 62% good, 3% excellent. Sorghum planted 86%, 88% 1991, 89% avg.; soybeans planted 85%, 98% 1991, 91% avg.; cotton squaring 35%, 78% 1991, 60% avg.; cotton setting bolls 4%, 19% 1991, 23% avg.; corn silking 39%, 76% 1991, 53% avg.; soybeans flowering 4%, 8% 1991, 1% avg.; Winter wheat harvested 66%, 99% 1991, 88% avg.; oats harvested 78%, 98% 1991, 91% avg.; barley harvested 63%, 98% 1991, 92% avg.; rye harvested 78%, 98% 1991, 87% avg.; peaches harvested 66%, 44% 1991, 44% avg. Hay, roughage supplies 86% adequate, 14% surplus. Hay first cutting 93%, second cutting 28% Major activities: Planting soybeans, topping tobacco, harvesting small grains, vegetables. Other activities: Harvesting hay; spraying tobacco for insect, sucker control; tending livestock; equipment repair; general farm maintenance.

**NORTH DAKOTA:** Cool with showers. Statewide temperatures 12° below normal west central to 10° below normal central. Extremes 35° northeast; 91° north central. Precipitation 0.78 in. central to 1.44 in. east central.

Days suitable for fieldwork 4.2. Topsoil 2% very short, 15% short, 79% adequate, 4% surplus. Subsoil 14% very short, 37% short, 49% adequate. Small grain development behind 1991 and average. Spring wheat 3% poor, 30% fair, 54% good, 13% excellent; 14% milk to dough and beyond, 36% 1991, 33% avg. Durum 5% poor, 21% fair, 63% good, 11% excellent; 5% milk to dough and beyond, 17% 1991, 21% avg. Barley 4% poor, 17% fair, 63% good, 16% excellent; 16% milk to dough and beyond, 51% 1991, 45% avg. Oats 5% poor, 50% fair, 42% good, 3% excellent; 14% milk to dough and beyond, 36% 1991, 37% avg. Winter wheat 9% poor, 31% fair, 60% good; 10% turning and beyond, 38% 1991, 44% avg. Sugarbeets 100% good; 12 in. avg height, 13 in. 1991. Corn 1% poor, 38% fair, 61% good; 16 in. avg. height, 37 in. 1991, 28 in. avg. Sunflower 1% poor, 13% fair, 83% good, 3% excellent; 11 in. avg. height, 20 in. 1991, 17 in. avg. Flax 24% fair, 76% good; 8% bloom, 31% 1991, 21% avg. Potatoes 100% good; 6% bloom, 64% 1991, 39% avg. Soybeans 2% fair, 98% good; 1% bloom, 22% 1991, 13% avg. Dry beans 19% fair, 81% good; 1% bloom, 20% 1991, 12% avg. Post emerged herbicide applications for broadleaf control 97% complete, wild oats 99%. Range, pasture 66% of normal. Hay 50% of normal. Alfalfa hay first cutting 81% complete, other hay 31%. Stockwater supplies 4% very short, 30% short, 65% adequate, 1% surplus.

**OHIO:** Several weather fronts crossed State in the past week causing scattered thunderstorms, some of which were severe. High winds were generated which knocked down trees and power lines. Temperatures within a degree or two of normal for the week. Highs low to mid 80s with average lows in the upper 50s to mid 60s. Extremes 40s Monday morning to 90s on July 2 afternoon. Most of State received some moisture although many areas received 0.10 in. or less.

Days suitable for fieldwork 6.2. Soil moisture 26% short, 70% adequate, 4% surplus. Pasture 1% very poor, 6% poor, 33% fair, 49% good, 11% excellent. Hay 2% very poor, 6% poor, 30% fair, 52% good, 10% excellent. Oats 1% very poor, 7% poor, 31% fair, 54% good, 7% excellent. Strawberry harvest is 95% complete, 100% 1991, average not available. Crop development continues to be approximately 2 weeks behind last year, somewhat behind normal.

**OKLAHOMA:** Temperatures 2° below normal Panhandle to 1° above normal northeast. Precipitation none Panhandle, west central to 2.62 in. northeast.

Days suitable for fieldwork 4.0. Topsoil 5% short, 34% adequate, 61% surplus. Subsoil 3% short, 97% adequate. Wheat 5% poor, 54% fair, 41% good; 85% harvested, 97% 1991, 97% avg.; 35% plowed, 69% 1991, 56% avg. Corn 45% tasseling, 38% 1991, 42% avg.; 9% milk to soft, 10% 1991, 14% avg. Crop insect activity light. Livestock insect activity mostly moderate. Cattle good; marketings mostly average; prices steady to higher.

**OREGON:** Heavy thunderstorms, statewide; Willamette Valley 0.60 to 1.70 in., southwestern portions 0.80 to 3.00 in., eastern areas 0.20 to 1.00 in. Some hail, flash flood, wind damage, due to 28th, 3rd through 4th storms.

Soil moisture 83% short, 17% adequate. Winter wheat 5% very poor, 20% poor, 48% fair, 27% good; 3% harvested. Barley 8% harvested. Grass seed harvesting continued, Willamette Valley, southwest; delayed due to moisture. Raspberry, strawberry picking finished; Blueberry, Marionberry, Boysenberry picking continued; strawberry field renovations underway, Willamette Valley. Sweet cherry harvest complete, tart cherry harvest underway. Cranberry development continues excellent, so. coast; red blush in some berries. With irrigation, vegetables good, west; green pea harvest nearing completion. Other vegetables harvests continue or starting. Producers in Klamath Basin, Malheur Co. fear early irrigation shut off. Livestock continued good; rains have helped some range, pastures. Stock water continues to be short. Non irrigated pastures dormant in west; supplementary feeding expected to be early. Some early calf weaning expected in Polk County. Range, pasture condition 62% of normal.

**PENNSYLVANIA:** Temperature 75°, 7° above normal. Extremes 42°; 92°. Precipitation 0.72 in., 0.21 in. below normal.

Days suitable for fieldwork 6. Soil moisture 60% short, 36% adequate, 4% surplus. Corn 0% silk, 3% 1991, 1% avg.; height 20 in., 32 in. 1991, 24 in. avg.; 21% very poor, 50% poor, 22% fair, 6% good, 1% excellent. Tobacco 100% transplanted, 100% 1991, 96% avg. Soybeans 95% planted, 97% 1991, 92% avg.; 13% very poor, 54% poor, 24% fair, 6% good, 3% excellent. Barley 16% heading process or headed, 1% 1991, 32% turning yellow, 10% 1991, 22% ripe, 17% 1991, 30% harvested, 72% 1991. Wheat 27% heading process

or headed, 4% 1991, 66% turning yellow, 19% 1991; 7% ripe, 35% 1991, 0% harvested, 42% 1991; 14% very poor, 63% poor, 18% fair, 3% good, 2% excellent. Oats 87% heading process or headed, 40% 1991; 9% turning yellow, 45% 1991; 4% ripe, 13% 1991; 0% harvested, 2% 1991; 1% very poor, 4% poor, 18% fair, 59% good, 18% excellent. Alfalfa first cutting 96% complete, 100% 1991. Second cutting alfalfa 20% complete, 48% 1991. Quality of hay made 9% poor, 37% fair, 54% good. Feed from pastures 8% very poor, 26% poor, 47% fair, 19% good. Peach 22% below avg., 65% avg., 13% above avg. Apple 16% below avg., 68% avg., 16% above avg. Activities: Spraying; hauling manure; spreading fertilizer; maintaining machinery; planting; cutting, baling hay; combining; caring for livestock.

**PUERTO RICO:** No Weather Data Available.

**SOUTH CAROLINA:** Temperatures 2 to 3° below normal statewide. Rainfall averaged 1.80 in.

Days suitable for fieldwork 4.7. Soil moisture 33% short, 65% adequate, 2% surplus. Tobacco fair to good; 64% topped, 80% 1991, 63% avg; 7% harvested, 16% 1991, 7% avg. Corn fair to good; 85% silked, 92% 1991, 78% avg.; 34% dough stage, 64% 1991, 35% avg. Cotton fair to good; 67% squaring, 85% 1991, 67% avg.; 1% setting bolls, 35% 1991, 16% avg. Soybeans fair to good; 87% planted, 95% 1991, 93% avg.; 1% blooming, 4% 1991, 3% avg. Peaches fair; 34% harvested, 36% 1991, 38% avg. Watermelons fair to good; 47% harvested, 66% 1991, 46% avg. Cantaloupes fair to good; 50% harvested, 65% 1991, 48% avg. Tomatoes fair to good; 67% harvested, 87% 1991, 71% avg. Cucumbers fair to good; 74% harvested, 75% 1991. Snap beans fair to good; 93% planted, 94% 1991, 99% avg. Oats fair to good; 95% ripe, 100% 1991, 100% avg.; 86% harvested, 96% 1991, 93% avg. Wheat fair to good; 88% harvested, 99% 1991, 95% avg. Rye fair to good; 87% ripe, 99% 1991, 98% avg.; 72% harvested, 91% 1991, 90% avg. Barley fair to good; 91% ripe, 99% 1991, 97% avg.; 82% harvested, 91% 1991, 87% avg. Grain hay fair to good; 91% harvested, 96% 1991, 97% avg. Peanuts fair to good. Sorghum fair to good; 67% planted, 82% 1991, 78% avg. Pastures fair to good. Rain last week slowed fieldwork.

**SOUTH DAKOTA:** Temperatures 5 to 14° below normal. Extremes 31°; 90°. Precipitation widespread, 0.50 in. west to 3.00 in. east.

Days suitable for fieldwork 3.0. Topsoil 1% very short, 16% short, 64% adequate, 19% surplus. Subsoil 11% very short, 39% short, 42% adequate, 8% surplus. Rye 7% very poor, 15% poor, 42% fair, 36% good. Barley 1% very poor, 7% poor, 38% fair, 52% good, 2% excellent. Oats 8% poor, 32% fair, 54% good, 6% excellent. Flax 3% very poor, 7% poor, 25% fair, 65% good. Sunflowers 1% poor, 40% fair, 54% good, 5% excellent. Crop conditions continue to improve due to the rain, cool temperatures. Livestock 3% fair, 81% good, 16% excellent. Pasture 81% of normal. The first cutting of alfalfa is 80% complete.

**TENNESSEE:** Cold front moved through the State early in the week. Atmosphere became moist, unstable. Temperatures near normal west; below normal for all other sections. Precipitation averaged above normal West, Middle, East.

Days suitable for fieldwork 3.0. Soil moisture 1% very short, 5% short, 60% adequate, 34% surplus. Cotton 66% squaring, 50% 1991, 70% avg.; 2% setting bolls, 5% 1991, 8 avg.; 68% fair, 32% good. Corn 48% tasseling, 44% 1991,

40% avg.; 6% dough, 4% 1991, 5% avg.; 10% fair, 66% good, 24% excellent. Sorghum 15% fair, 85% good. Soybeans 94% planted, 88% 1991, 90% avg.; 6% blooming, 2% 1991, 4% avg.; 2% poor, 19% fair, 73% good, 6% excellent. Tobacco 1% poor, 46% fair, 53% good. Wheat 91% harvested, 97% 1991, 91% avg.; 2% poor, 18% fair, 61% good, 19% excellent. Alfalfa 68% 2nd cutting, 66% 1991, 70% avg. Hay 8% poor, 33% fair, 53% good, 6% excellent. Pastures 8% fair, 76% good, 16% excellent.

**TEXAS:** Rainfall below normal across almost all reporting districts. Dryness due mainly to capping high pressure aloft, lack of significant weather systems except along the Coast which had above normal precipitation amounts. Afternoon, evening thunderstorms on the coast boosted by a tropical system. Temperatures near or slightly above normal over most of the region. Cool front pushed into northern portions of State late in week, not lasting for long.

**Crops:** Corn fields made excellent progress as producers irrigated, fertilized in the High Plains. Some fields showed signs of stress from lack of moisture in Central Texas where most fields reached the hard dough stage. Cotton planting, replanting neared completion on the Plains. Herbicide damage in some replanted fields. In the Low Plains producers sprayed for boll weevils, fleahoppers in some fields that were squaring. Some fields in South Central Texas were irrigated where facilities available. Rice fields showed good progress although behind schedule. Disease problems affecting some fields. Many fields have headed. Grain sorghum planting, replanting active in High Plains. Producers in the Blacklands sprayed for midge control. Some areas high infestation in late blooming fields caused some problems. Harvest operations began in Rio Grande Valley. Small grain harvest in full swing throughout State with good yields reported. Harvest winding down in Low Plains. Peanut planting gained momentum. In Low Plains disease problems increased. Many fields recovered from wet weather, stands average. Soybean planting winding down last week. In some fields weeds remained a problem. Early planted fields in the Blacklands setting pods.

**Commercial Vegetables:** In the Rio Grande Valley, melon harvest winding down. Preplanting activities for fall vegetables. In East Texas, harvest of tomatoes and peppers continued with few delays. Some melons harvested. Disease, insect problems increased. On the High Plains, potato harvest continued with favorable conditions while onion harvest preparations continued. In the Trans-Pecos, onion harvest continued, chile peppers recovered from some hail damage. Pecan trees sprayed for second generation casebearers. In many areas insect problems concern with the warm temperatures. Some trees sustained minor damages from high winds in East Texas.

**Range and Livestock:** Range, pasture good although some areas showing signs of heat stress. Livestock good due to abundant grazing. Heat stress slowed weight gains in some cattle. Heavy grasshopper infestation appeared in some parts of State.

**UTAH:** Temperature maximums 5° less than normal, minimums approximated normal. Moderate precipitation occurred along the Wasatch Front, light precipitation elsewhere, except the Dixie region, where none was reported.

Days suitable for fieldwork 5.7. Soil moisture 82% short, 18% adequate. Winter wheat: turning

or better 97%, 36% 1991, 67% avg.; ripe 45%, 6% 1991. Spring wheat: turning or better 70%, 15% 1991, 41% avg.; ripe 30%, 2% 1991. Barley: turning or better 80%, 19% 1991, 49% avg.; ripe 39%, 4% 1991. Harvesting of winter wheat, spring wheat, barley has begun in several counties. Oats: booted or better 97%, 73% 1991; headed or better 82%, 46% 1991, 68% avg. turning or better 22%, 5% 1991. Corn height 36 in., 18 in. 1991, 29 in. avg. Alfalfa 2nd cutting 20% complete, 4% 1991. Other hay cut 49%, 36% 1991. Tart cherries 20% picked. Apricots 45% picked. Pasture, range poor to fair.

**VIRGINIA:** Temperatures, precipitation near normal. Extremes 42°; 94°.

Days suitable for fieldwork 5.3. Topsoil 22% short, 78% adequate. Pasture 20% fair, 67% good, 13% excellent. Alfalfa 18% fair, 75% good, 7% excellent. Apples 86% good, 14% excellent. Other hay 5% poor, 23% fair, 57% good, 15% excellent. Corn silked 8%, 25% 1991, 18% avg.; dough stage 1%, 3% 1991, 3% avg.; 29% fair, 65% good, 6% excellent. Soybeans 80% planted, 90% 1991, 87% avg.; 13% fair, 76% good, 11% excellent. Peanut 80% fair, 20% good. Tobacco 21% fair, 79% good. Wheat 30% harvested, 91% 1991, 76% avg. Barley 90% harvested, 100% 1991, 93% avg. Oats 60% harvested, 85% 1991, 74% avg. Potatoes 10% harvested. Cutting hay, spraying fruit, harvesting snap beans, topping tobacco, planting double crop soybeans.

**WASHINGTON:** Temperatures 1 to 8° above normal, west; 2° below to 3° above normal, east. Rainfall, none to 1.36 in. west; 0.15 to 1.48 in. east.

Days suitable for fieldwork 5.6. Soil moisture 61% short, 39% adequate. Hay, other roughage 3% very short, 24% short, 47% adequate, 26% surplus. Range, pasture 14% very poor, 32% poor, 54% fair. Winter wheat 5% harvested, 0% 1991, 0% avg. Barley 5% harvested, 0% 1991, 3% avg. Alfalfa hay first cut 99% complete, 98% 1991, 98% avg. Second cut 63% complete, 17% 1991, 22% avg. Though rain fell statewide, conditions remain dry. Cooler temperatures welcomed. Rain beneficial to most crops; rain damage to alfalfa, lodged corn reported. Cherry harvest nearly complete; peach, apricots harvested. Raspberry, blueberry harvest peaking. Peas blooming, sweet corn in sixth leaf stage. Seed turnips swathed. Pastures improve due to rainfall.

**WEST VIRGINIA:** Temperature 72°. Extremes 47°; 95°. Precipitation 1.22 in.

Days suitable for fieldwork 3.8. Soil moisture, 9% short, 91% adequate. Tobacco 42% fair, 58% good. Gardens good; 100% emerged. Barley good; 65% harvested. Oats good; 100% headed. Wheat mostly good to excellent; 100% jointed, 100% headed, 43% ripe. Hay 35% fair, 65% good; 78% first cut, 21% second cut.

Apples good. Peaches good. Corn good; 100% planted, 100% emerged. Pastures 31% fair, 67% good, 2% excellent; 86% of normal. Cattle good. Sheep, good. Soybeans good; 89% planted, 87% emerged. Farm activities: General maintenance, cutting hay, planting soybeans, shearing sheep.

**WISCONSIN:** Temperature 63°; 5° below normal. Extremes 36°; 95°. Rainfall 0.20 to 3.20 in.

Days suitable for fieldwork 5.4. Soil moisture 59% short, 38% adequate, 3% surplus. Pasture 55% of normal, 78% 1991, 66% avg. General condition of crops 3% very poor, 17% poor, 56% fair, 24% good. Oats 70% headed, 81% 1991, 85% avg.; 6% very poor, 18% poor, 43% fair, 30% good, 3% excellent, height 22 in., 48 in. 1991, 37 in. avg.; 6% very poor, 18% poor, 46% fair and 30% good. First crop hay 92% harvested, 91% 1991, 91% avg.; second crop 8% harvested, 10% 1991, 8% avg. Soybean 2% very poor, 15% poor, 44% fair, 39% good. Percent of corn acres lost due to June 20th frost: 8.4. Percent of soybean acres lost due to June 20th frost: 3.0.

**WYOMING:** Cool, wet weather prevailed across most of State last week. Temperatures generally 1 to 4° below normal. Precipitation was above normal in much of the State. Only sections of the northwest, northeast had below normal precipitation.

Day suitable for fieldwork 4.9. Topsoil 37% short, 42% adequate, 21% surplus. Subsoil 55% short, 45% adequate. Spring wheat 8% jointed not in boot, 8% 1991, 5% avg.; 25% boot, 32% 1991, 28% avg.; 57% headed, 56% 1991, 55% avg.; 10% turning color, 4% 1991, 10% avg. Oats 14% jointed not in boot, 9% 1991, 11% avg.; 32% boot, 38% 1991, 35% avg.; 47% headed, 49% 1991, 46% avg.; 6% turning color, 4% 1991, 5% avg.; 1% mature. Barley 6% jointed not in boot, 11% 1991, 7% avg.; 21% boot, 21% 1991, 20% avg.; 58% headed, 66% 1991, 55% avg.; 15% turning color, 2% 1991, 15% avg. Winter wheat 2% jointed not in boot; 2% boot, 3% 1991, 3% avg.; 51% headed, 67% 1991, 52% avg.; 44% turning color, 29% 1991, 40% avg.; 1% mature, 1% 1991, 5% avg. Potatoes in bloom 3%, 13% 1991, 36% avg. Dry beans in bloom 6%, 5% 1991, 6% avg. Sugarbeet acreage thinned 96%. Winter wheat 20% poor; 70% fair; 10% good. Oats 3% poor; 41% fair; 56% good. Barley 1% poor; 30% fair; 68% good; 1% excellent. Spring wheat 53% fair; 47% good. Potatoes 50% fair; 50% good. Corn 34% fair; 60% good; 6% excellent. Sugarbeets 48% fair; 38% good; 14% excellent. Dry beans 18% poor; 45% fair; 37% good. Alfalfa 5% very poor; 16% poor; 47% fair; 32% good. Alfalfa: percent of first cutting completed 55%, 64% 1991, 70% avg. Other hay: percent of acreage harvested 16%, 23% 1991, 27% avg. Cattle 8% fair; 80% good; 12% excellent. Calves 8% fair; 80% good; 12% excellent. Sheep 8% fair; 80% good; 12% excellent. Lambs 9% fair; 79% good; 12% excellent. Range, pasture poor to fair.

June 1992

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

International Weather and Crop Summary  
HIGHLIGHTS

June 28 - July 4, 1992

**FSU:** In western areas, light rain continues to ease dryness in Black Soils Region and middle Volga, while moderate to heavy rain covers crops in the North Caucasus. In the New Lands, dry weather continues over spring grains in the west while wet weather covers the east.

**EUROPE:** Rain favors reproductive spring grains in the northwest. Mostly dry weather persists in northeast.

**EASTERN ASIA:** Dryness stresses dryland summer crops in the North China Plain. Widespread rain continues to favor rice across southern China.

**SOUTHEAST ASIA:** Persistent warm, dry weather stresses Thai corn and rice.

**SOUTH ASIA:** Rainfall is highly variable, with dry, warm weather returning to primary rainfed oilseed areas.

**SOUTH AMERICA:** Dry weather favors late wheat planting and soybean harvesting in Argentina. Heavy rain causes flooding in southern Brazil.

**AUSTRALIA:** Rain benefits eastern winter grains, but more is needed for adequate establishment. Favorable moisture exists elsewhere for winter grain development.

**CANADA:** Cool, wet weather replenishes soil moisture across the southern Prairies but enhances the risk of disease and quality reduction.

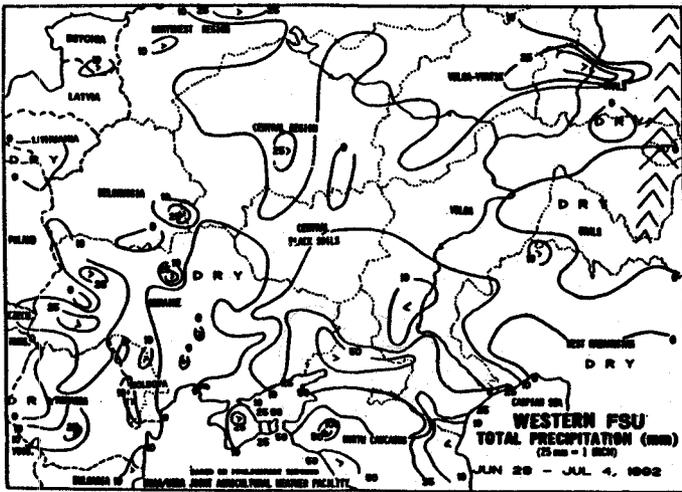
**MEXICO:** Rain returns to central Mexico, benefiting vegetative corn.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	23	10	28	5	16	2.4	12	-62
SWEDEN	STOCKHOLM	23	12	29	8	18	1.9	11	-35
FINLAND	HELSINKI	22	10	27	3	16	0.5	28	-15
U KING	GLASGOW	20	10	25	6	15	0.9	27	-39
	EDINBURGH	19	11	25	7	15	1.5	18	-28
	BIRMINGHAM	21	11	29	7	16	1.8	60	7
	LONDON	22	10	29	7	16	1.6	31	-28
IRELAND	DUBLIN	19	12	23	8	15	1.7	16	-37
ICELND	REYKJAVIK	10	6	15	4	8	-1.4	81	33
DENMRK	COPENHAGEN	23	13	28	10	18	2.4	1	-47
LUXEMB	LUXEMBOURG	21	13	29	6	17	1.1	84	22
SWITZL	ZURICH	21	12	28	8	16	0.8	118	-16
	GENEVA	21	13	28	8	17	0.1	101	11
FRANCE	PARIS/ORLY	22	13	31	10	18	***	51	**
	STRASBOURG	23	13	29	11	18	1.2	85	10
	BOURGES	22	12	29	7	17	0.2	94	33
	BORDEAUX	22	14	30	9	18	0.3	170	106
	TOULOUSE	21	13	30	9	17	-1.1	222	158
	MARSEILLE	24	16	29	11	20	-1.0	86	55
SPAIN	VALLADOLID	21	10	32	5	16	-2.0	44	5
	MADRID	23	12	30	6	18	-3.0	48	22
	HAMBURG	24	13	32	7	19	3.0	10	-60
	BERLIN	26	15	32	11	20	2.6	10	-66
	DUSSELDORF	23	13	32	8	18	0.9	60	-6
	STUTTGART	21	12	28	8	16	0.2	141	47
	NURNBERG	23	12	30	7	18	1.1	80	6
AUSTRI	VIENNA	24	14	28	10	19	0.7	72	10
	INNSBRUCK	22	12	29	7	17	0.6	76	-36
CZECH	PRAGUE	23	12	28	6	18	1.3	94	15
POLAND	WARSAW	24	12	29	7	18	1.0	41	-24
	LODZ	24	12	30	4	18	2.3	27	-42
	KATOWICE	24	12	28	7	18	2.1	32	-56
HUNGAR	BUDAPEST	26	16	31	12	21	1.1	72	4
ROMANI	BUCHAREST	26	14	34	9	20	-0.5	51	-37
BULGAR	SOPIA	24	13	31	1	18	0.7	104	27
ITALY	MILAN	25	16	29	11	20	-0.5	127	39
	VERONA	25	15	29	9	20	-0.6	73	-6
	VENICE	25	17	28	14	21	0.0	100	23
	GENOA	23	18	31	14	20	-1.3	109	60
	ROME	25	16	30	7	20	-0.9	109	87
	NAPLES	26	17	35	14	22	1.1	125	91
GREECE	THESSALONIKA	29	18	35	15	23	-1.4	115	86
	LARISSA	30	16	38	13	23	-2.1	78	52
	ATHENS	28	20	31	18	24	-1.7	20	11
TURKEY	ISTANBUL	26	18	32	14	22	1.6	54	30
	ANKARA	24	10	30	4	17	-3.3	50	12
CYPRUS	LARNACA	29	19	33	17	24	-0.9	22	17
FSU	TALLINN	20	10	29	5	15	0.4	18	-28
	LENINGRAD	21	12	29	7	17	1.1	33	-18
	KAUNAS	23	11	27	6	17	0.9	9	-80
	MINSK	22	12	28	7	17	0.4	37	-30
	KAZAN	22	10	30	1	16	-1.0	8	-54
	MOSCOW	22	12	28	7	17	0.0	37	-31
	SVERDLOVSK	19	8	28	-1	13	-1.7	51	-18
	OMSK	18	8	30	1	13	-4.5	76	20
	KUSTANAY	22	11	29	1	16	-2.4	81	44
	KRASNOYARSK	21	8	34	-4	14	-1.9	50	-7
	NOVOSIBIRSK	19	9	31	-2	14	-2.2	58	4
	BARNAUL	20	11	32	2	16	-2.4	66	19
	KHABAROVSK	24	12	32	4	18	0.8	57	-21
	VLADIVOSTOK	16	11	24	8	13	0.5	238	135
	KIEV	24	15	28	11	19	0.8	28	-35
	LVOV	23	13	28	7	18	1.4	83	-6
	KIROVOGRAD	24	14	29	8	19	-0.6	64	13
FSU	ODESSA	23	16	30	11	19	-0.1	68	27
	YALTA	24	17	28	12	20	-0.5	69	27
	VORONEZH	24	12	31	4	18	-0.5	52	3
	SARATOV	25	15	34	6	20	0.6	30	-6
	KHARKOV	24	14	31	9	19	-0.3	45	-5
	VOLGOGRAD	26	15	34	7	21	-0.7	30	3

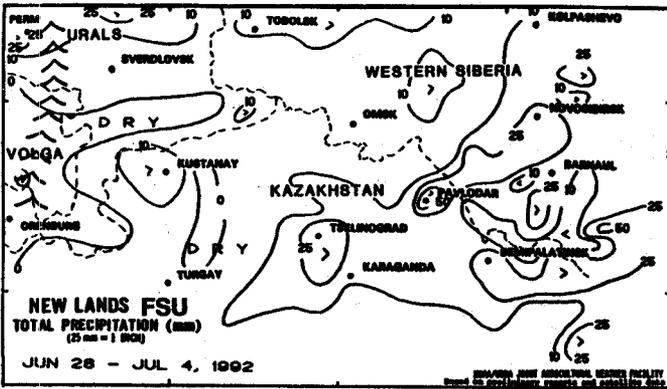
Based on Preliminary Reports

June 1992

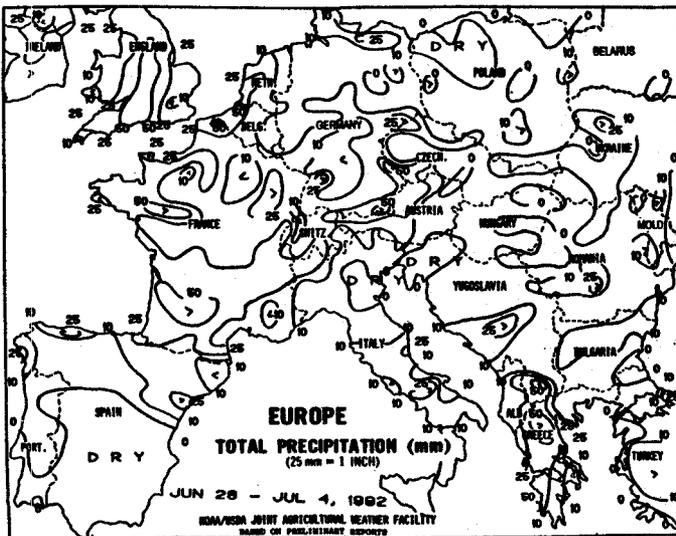
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			
		AVG MAX	AVG MIN	HI	LO	DPART	F/NRM	TOTAL	DPART			F/NRM	AVG MAX	AVG MIN	HI	LO	DPART	F/NRM	TOTAL	DPART
FSU	ROSTOV	24	16	31	8	20	-1.0	84	24	MOZAMB	MAPUTO	27	15	36	11	21	2.4	16	0	
	ASTRAKHAN	28	17	35	8	23	-0.5	79	59		ZAMBIA	KABWE	23	9	28	7	16	0.6	5	5
	KRASNODAR	26	16	32	9	21	-0.3	129	52		ZIMBAB	HARARE	22	9	27	7	16	2.3	17	13
	ORENBURG	25	12	32	2	18	-1.1	22	-20		S AFRI	PRETORIA	21	6	26	1	13	2.4	3	-3
	TSELINOGRA	22	11	33	-1	16	-1.8	83	51			KROONSTAD	19	-1	25	-8	9	0.0	5	-1
	KARAGANDA	22	10	35	-1	16	-2.5	37	-3			JOHANNESBURG	18	3	24	-7	11	1.4	5	-1
	TBILISI	26	16	31	10	21	-0.2	139	72			BETHAL	19	-1	24	-9	9	0.8	0	-7
	TASHKENT	32	17	36	12	24	-0.7	28	18			DURBAN	25	10	30	5	18	1.2	3	-23
	ASHKHABAD	34	21	40	14	27	-0.8	37	32			CAPE TOWN	18	8	27	2	13	0.0	148	57
	SYRIA	DAMASCUS	33	14	38	10	23	-1.9	2		2	CANADA	TORONTO	23	10	32	4	16	-1.3	37
ISRAEL	JERUSALEM	27	16	34	11	21	-1.0	28	28		MONTREAL	23	13	29	8	18	-0.4	113	30	
PAKIST	KARACHI	35	29	39	26	32	0.6	0	-8		WINNIPEG	21	9	32	1	15	-1.8	59	-21	
INDIA	AMRITSAR	39	25	44	18	32	-1.0	18	-39		REGINA	23	9	33	2	16	0.1	28	-52	
	NEW DELHI	40	29	45	22	35	1.0	11	-45		SASKATOON	22	9	30	1	15	-0.6	15	-44	
	AHMEDABAD	41	28	44	25	35	1.7	40	-65		LETHBRIDGE	23	11	33	3	17	1.4	105	27	
	INDORE	38	25	45	20	31	1.3	116	-18		CALGARY	21	9	30	1	15	1.4	178	88	
	CALCUTTA	34	26	39	23	30	0.0	325	74		EDMONTON	22	11	31	6	17	1.6	29	-48	
	VERAVAL	32	28	34	23	30	0.7	21	-139		VANCOUVER	21	13	29	10	17	2.2	97	51	
	BOMBAY	33	28	34	24	30	1.3	130	-517	MEXICO	GUADALAJARA	29	18	36	12	23	0.9	115	-37	
	POONA	33	23	39	20	28	0.8	86	-32		MEXICO CITY	26	14	29	12	20	2.0	41	-63	
	BEGAMPET	35	25	41	20	30	0.9	140	40		ACAPULCO	34	26	35	11	30	1.4	124	-155	
	MADRAS	37	28	40	20	33	0.4	10	-52		BERMUD	ST. GEORGES	27	24	29	21	25	0.6	219	82
	MANGALORE	30	24	33	23	27	0.4	874	-108		BAHAMA	NASSAU	31	24	33	20	27	0.7	116	-109
H KONG	HONG KONG	30	26	33	23	28	-0.1	502	70		CUBA	HAVANA	31	24	33	22	27	0.9	88	-74
N KREA	PYONGYANG	23	13	29	7	18	-0.7	108	-49		JAMAIC	KINGSTON	33	26	39	20	30	1.7	36	-42
S KREA	SEOUL	26	17	30	11	21	0.5	99	-70		P RICO	SAN JUAN	32	25	33	24	29	1.2	141	18
JAPAN	SAPORO	21	13	28	9	17	1.1	27	-49		GUADEL	RAIZET	32	25	32	23	28	1.2	63	-17
	NAGOYA	26	18	30	15	22	0.6	158	-52		MARTIQ	LAMENTIN	30	25	31	22	27	1.5	174	8
	TOKYO	24	18	28	14	21	-0.6	223	42		BARBAD	BRIDGETOWN	30	25	31	22	27	-0.1	115	24
	YOKOHAMA	23	18	27	14	21	-0.5	264	48		TRINID	PORT OF SPAIN	30	24	33	22	27	0.9	159	-95
	KYOTO	27	18	32	13	23	0.9	165	-68		COLOMB	BOGOTA	19	9	22	6	14	1.1	24	-43
	OSAKA	27	19	30	16	23	0.4	164	-49		VENEZU	CARACAS	32	25	34	22	28	1.8	39	-14
THAILN	PHETCHABUN	34	25	39	24	30	1.1	46	-104		F GUIA	CAYENNE	30	23	31	22	26	1.0	172	-292
	BANGKOK	35	26	38	23	31	1.4	143	-15		BRAZIL	FORTALEZA	28	23	29	22	26	-0.8	126	-27
MALAYS	KUALA LUMPUR	33	25	34	24	29	1.7	85	-47			RECIFE	27	22	28	20	24	-0.3	415	62
VIETNM	HANOI	33	27	37	24	30	0.3	268	29			BELO HORIZONTE	24	16	28	13	20	1.3	0	-11
CHINA	HARBIN	24	13	31	5	18	-1.4	87	9			CAMPO GRANDE	28	18	31	12	23	3.6	28	-22
	HAMI	32	16	39	8	24	-0.9	26	21			FRANCA	24	15	27	10	20	2.2	0	-22
	LANCHOW	26	15	33	10	21	0.2	29	-3			LONDRINA	24	14	28	10	19	2.1	20	-71
	BEIJING	29	18	35	12	24	-0.5	68	-10			SANTA MARIA	21	13	29	3	17	2.7	125	-39
	TIENTISIN	28	19	36	11	23	-0.8	56	-14		PERU	LIMA	22	17	25	15	19	2.2	1	-1
	LHASA	23	11	29	5	17	1.0	46	-24		BOLIVI	LA PAZ	14	-2	15	-6	6	-1.2	1	-2
	KUNMING	25	17	29	14	21	1.7	109	-72		CHILE	SANTIAGO	13	4	19	-2	8	0.0	104	33
	CHENGCHOW	30	19	37	14	24	-2.0	41	-28		ARGENT	IGUAZU	24	14	30	5	19	***	120	**
	YEHCHANG	29	21	37	17	25	-0.8	145	-14			FORMOSA	24	17	29	9	21	3.1	99	22
	HANKOW	29	22	35	17	25	-0.2	336	126			CERES	19	11	28	1	15	2.5	37	11
	CHIHKIANG	28	21	33	16	24	-0.2	309	127			CORDOBA	18	8	25	-3	13	2.3	1	-12
	SHANGHAI	26	20	33	17	23	***	64	**			RIO CUARTO	16	7	20	-1	11	1.9	2	-22
	NANCHANG	29	22	34	16	26	0.1	281	-11			ROSARIO	18	9	26	-1	14	3.1	47	2
	TAIPEI	30	25	34	19	27	0.8	286	-30			BUENOS AIRES	17	9	26	-2	13	2.7	104	44
	CANYON	31	25	36	19	28	0.8	200	-88			SANTA ROSA	14	5	18	-4	9	1.6	22	-3
	NANNING	32	25	35	21	28	1.0	333	101		N CALD	NOUMEA	24	19	26	14	21	0.5	154	39
CNRY I	LAS PALMAS	25	19	27	16	22	0.4	6	6		FIJI	NAUSORI	27	22	29	20	25	1.2	84	-82
MOROCC	CASABLANCA	22	17	24	14	19	-0.7	30	24		SAMOA	PAGO PAGO	29	26	31	21	28	1.2	50	-167
	MARRAKECH	28	15	34	13	22	-1.5	2	-4		TAHITI	PAPEETE	29	22	32	19	26	0.8	64	3
ALGERI	ALGER	27	15	38	10	21	-0.7	19	-4		N ZEAL	AUCKLAND	14	8	19	1	11	-0.8	59	-73
	BATNA	28	12	33	5	20	-0.9	16	-7		PA N G	PORT MORESBY	29	23	32	21	26	0.0	32	-16
TUNISI	TUNIS	29	17	36	14	23	0.3	1	-14		AUSTRL	DARWIN	30	21	33	17	25	0.1	0	-2
NIGER	NIAMEY	36	27	40	23	32	0.5	49	-24			MOREE	18	5	22	0	11	-0.7	18	-9
MALI	TIMBUKTU	43	30	47	26	36	2.5	0	-18			BRISBANE	20	10	23	5	15	-1.3	30	-44
	BAMAKO	34	24	38	21	29	0.4	162	25			PERTH	18	11	21	7	15	0.5	175	-2
MAURIT	NOUAKCHOTT	37	23	45	20	30	2.3	0	-1			CEDUNA	18	7	24	1	12	0.0	24	-13
SENEGL	DAKAR	28	23	31	21	26	-0.1	0	-13			ADELAIDE	15	8	18	3	12	-0.5	58	4
CHAG A	DIEGO GARCIA	29	25	31	23	27	0.6	110	-48			MELBOURNE	13	7	16	4	10	-0.1	29	-10
LIBYA	TRIPOLI	34	19	45	12	27	0.9	0	-2			WAGGA	13	4	18	0	9	0.2	37	-4
	BENHAZI	31	20	42	12	26	-0.3	0	0			CANBERRA	11	1	15	-4	6	-0.4	23	-16
EGYPT	CAIRO	35	21	45	17	28	1.0	0	0		PHILIP	MANILA	34	25	37	24	29	0.9	78	-175
	ASWAN	42	27	46	21	34	1.1	0	0											
ETHIOP	ADDIS ABABA	24	10	27	8	17	-0.1	55	-63											
KENYA	NAIROBI	24	13	28	8	18	0.7	13	-18											
TANZAN	DAR ES SALAAM	29	20	31	18	25	0.6	85	52											
GABON	LIBREVILLE	27																		



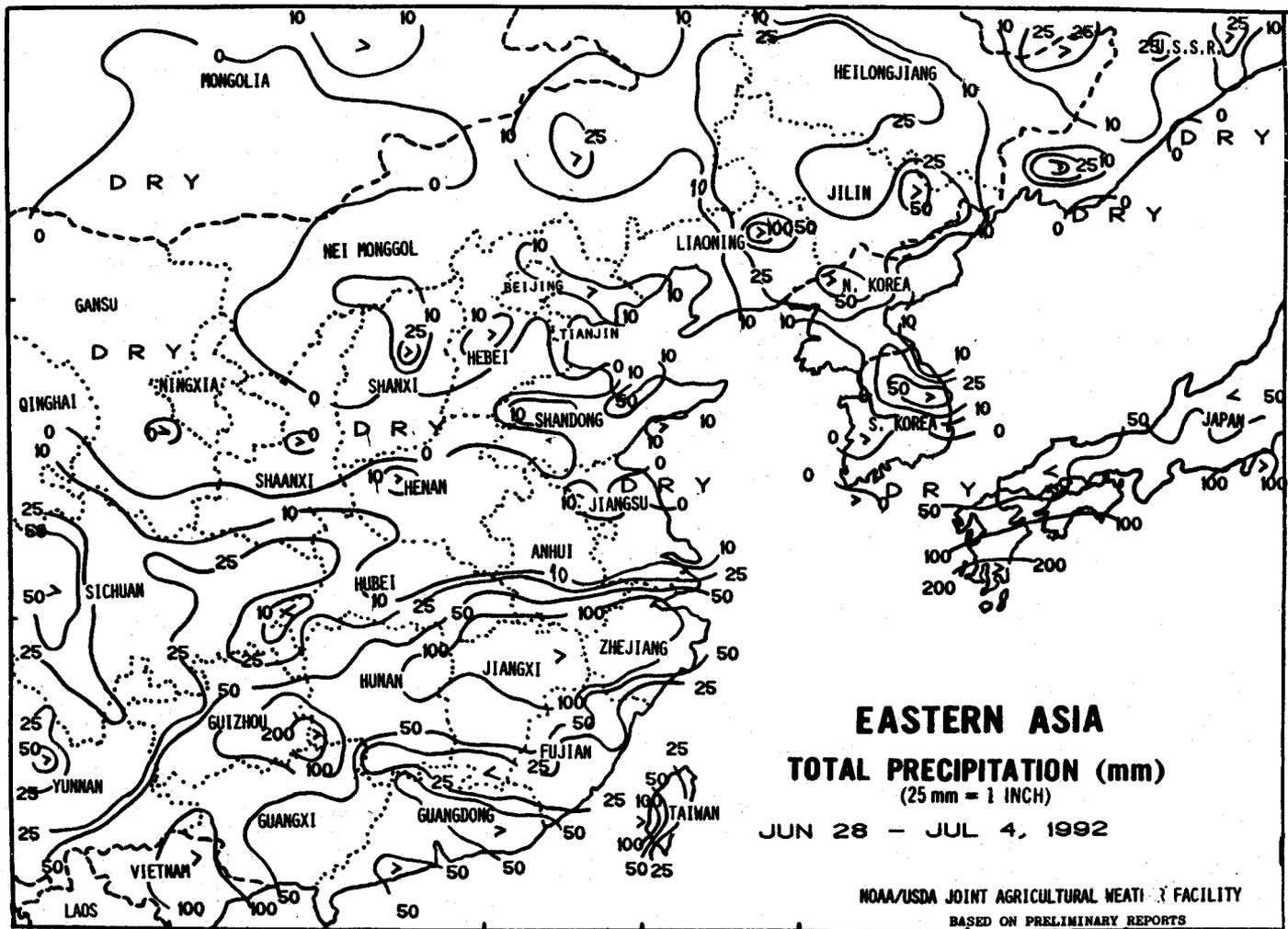
**FSU:** In western areas of the former Soviet Union, light rain (10-24 mm) continued to ease dryness in Black Soils Region and middle Volga Valley, stabilizing conditions for spring grains and summer crops, but bringing little relief to maturing winter grains. Minimal precipitation over the Baltic States, northern Belarus, and parts of Central Region continued a drying trend that began in May, increasing stress on crops. Farther south, variable amounts of rain covered Ukraine. While rainfall in the western and eastern Ukraine ranged from 10 to 53 mm, little, if any, fell over central crop areas. In the North Caucasus, numerous showers and thunderstorms produced moderate to heavy rain, accompanied by gusty winds. Rainfall in central and western areas ranged from 50-100 mm, with localized amounts in excess of 100 mm. The heavy rainfall in these areas exacerbated earlier wetness, slowing wheat maturation and causing some local flooding and crop lodging. Weekly average temperatures were 1-2 degrees Celsius (C) above normal in the west and 2-4 degrees C below normal over remaining crop areas.



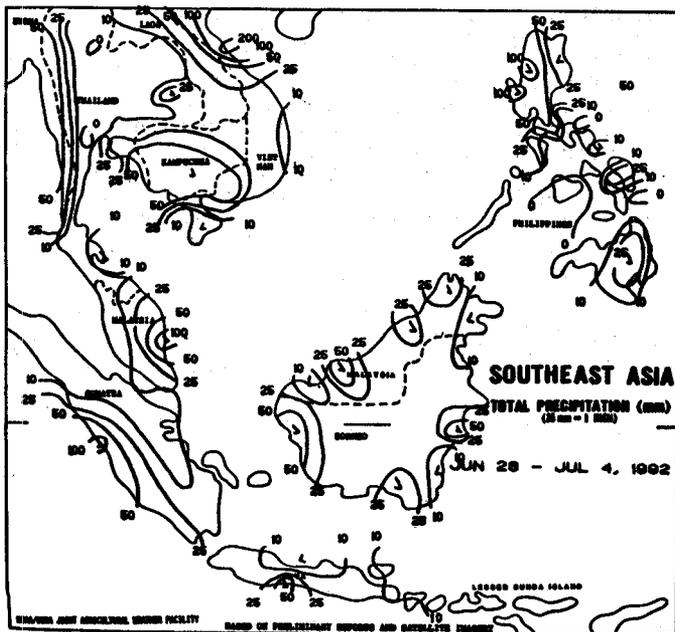
In the **New Lands**, mostly dry weather covered spring grains in the eastern portion of upper Volga Valley, and most of the Urals. Light rain (5-10 mm, with local amounts in excess of 10 mm) fell over crop areas in central Kazakhstan and the central portion of western Siberia. Widespread rain (8-48 mm, with localized amounts in excess of 50 mm) covered eastern Kazakhstan, benefiting spring grains in or nearing the heading stage. Weekly average temperatures were near to slightly below normal over the region.



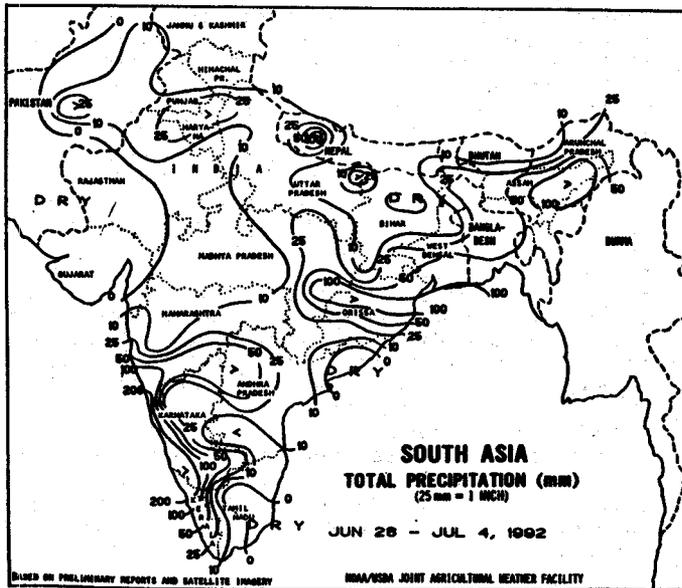
**EUROPE:** Widespread rain (15-74 mm) fell over the United Kingdom, Belgium, and France, providing favorable moisture for reproductive phases of spring-sown crops and benefiting immature winter grains in the north. Winter grains harvesting spreads into northern crop areas during July. Seasonable dryness returned this past week to the Iberian peninsula. Variable showers (5-35 mm) covered much of central Europe. Mostly light rain (1-9 mm, with scattered 10-17 mm amounts) fell in northern Germany, where a drying trend since May reduced soil moisture for developing crops. The dryness extended into the Nordic countries, where moisture has been limited for barley, oats, and rye development, and across northern Poland as well. Dry weather prevailed in Hungary, where winter wheat and corn were stressed by dryness earlier in the season. Scattered showers covered southeastern Europe. Temperatures generally averaged above normal in the dry northeast and below normal in the southeast.



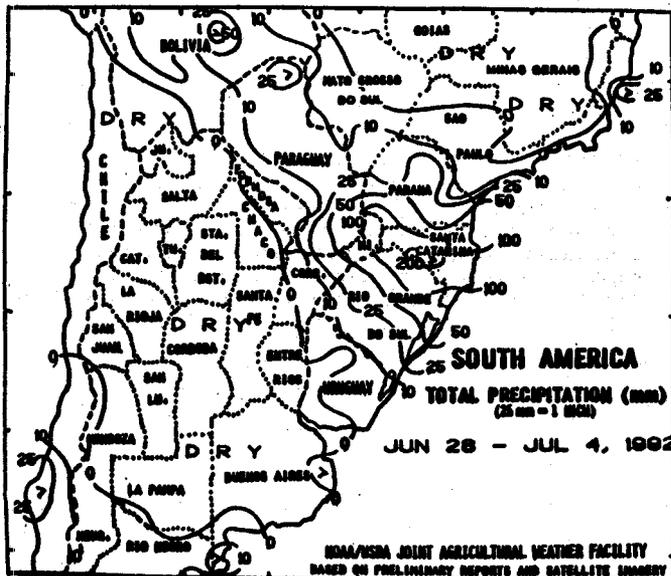
**EASTERN ASIA:** Most of the North China Plain received little or no rainfall, with only isolated moderate to heavy showers (14-104 mm) reported throughout the area. Low soil moisture coupled with seasonal temperatures stressed dryland vegetative corn, soybeans, and cotton. Significant moisture is needed within the next couple of weeks to prevent deteriorating prospects in crop yield potentials. Manchuria continued to receive light to moderate rain (10-40 mm) benefiting reproductive to grain filling spring wheat and vegetative corn and soybeans. Widespread moderate rain (17-77 mm) covered southern China favoring rice irrigation supplies. However, southwest Guizhou, northern Jiangxi and most of Zhejiang received heavy rains (105-211 mm), causing possible flooding and delaying early double-crop rice harvesting. Early in the week, minimal Typhoon Chuck hit Hainan Island (off southern China) with sustained winds of 70-75 mph. Rainfall ranged from 22-179 mm with isolated heavier amounts, causing possible flooding. Weekly temperatures averaged 2-4 degrees C below normal across Yangtze Valley and near normal across the rest of the country.



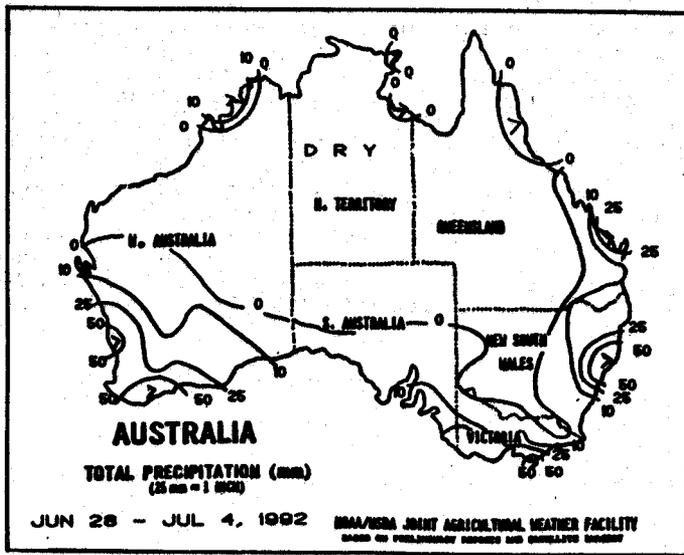
**SOUTHEAST ASIA:** Warm, dry weather returned to primary grain areas of Thailand, with most areas receiving less than 10 mm. Corn and rice, at varying stages of development, are experiencing higher than normal temperatures with limited moisture. These crops need rain soon to prevent further losses in yield potential. Typhoon Chuck hit northern Vietnam, bringing heavy showers (100-149 mm) and coastal wind damage. In contrast, drier than normal conditions persisted over most Philippine crop areas, despite increased typhoon activity in the western Pacific, which did result in beneficial rain (50-159 mm) over western Luzon.



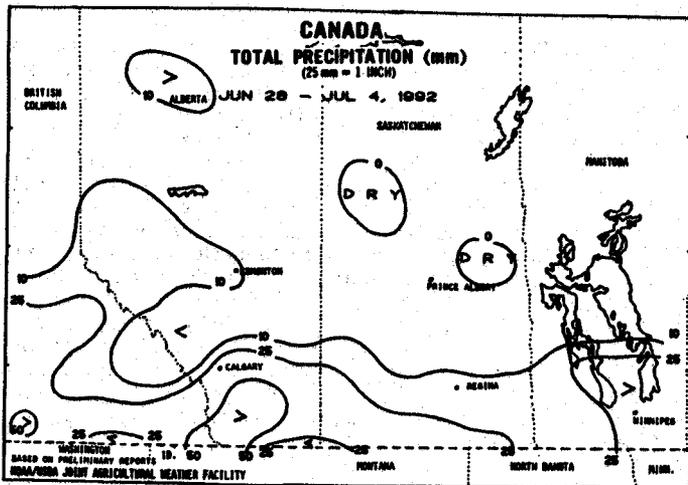
**SOUTH ASIA:** The southwest monsoon continued behind schedule in its northward trek and was generally weak over central India. As a result, rainfall was highly variable across the region, with moderate to heavy amounts (25-113 mm) scattered throughout the southern interior and primary eastern rice areas. Seasonably heavy rain (100-279 mm) fell along the southwest coast but, farther north, primary rainfed oilseed areas of Gujarat, Madhya Pradesh, and Maharashtra were dry, with temperatures averaging 1-3 degrees C above normal. The beneficial rain received last week in these areas likely spurred planting, so more rain and milder weather are needed to support germination and establishment. In contrast, showers (5-36 mm) fell across northern Pakistan and north-central India, reducing irrigation demands of cotton.



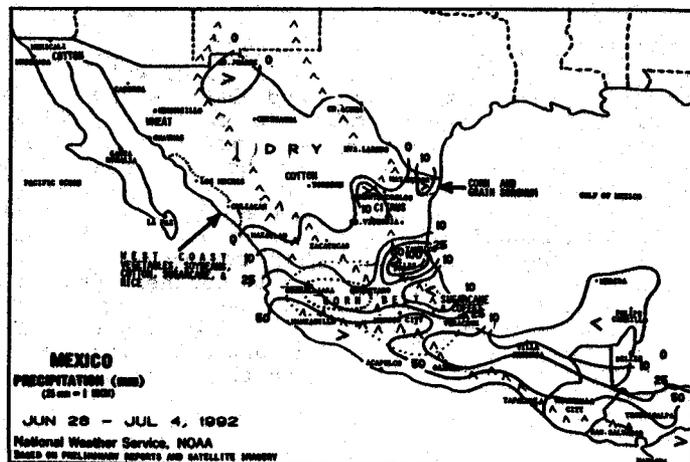
**SOUTH AMERICA:** Dry weather prevailed across Argentina aiding soybean harvesting, which should be nearing completion, and late winter wheat planting. Adequate moisture exists for winter wheat germination, except for central Buenos Aires, where topsoils are becoming dry. In southern Brazil, moderate to heavy rain (62-220 mm) fell across Parana and Santa Catarina causing flooding and possible damage to vegetative winter wheat. Dry weather continued to favor citrus and coffee harvesting in northern Sao Paulo and western Minas Gerais. Weekly temperatures averaged 2-4 degrees below normal across Argentina and extreme southern Brazil, and 2-5 degrees above normal across the rest of southern Brazil.



**AUSTRALIA:** Light rain (3-12 mm) fell across the wheat areas of New South Wales, but dry weather continued in southern Queensland. The rain benefited germinating winter grains, but additional moisture is needed to ensure adequate establishment. Light to moderate rain (11-45 mm) continues to favor germinating winter wheat in the west and south. Weekly temperatures averaged near normal across the western winter grain areas and 2-3 degrees C above normal in the east.



**CANADA:** Cool, wet weather returned to the southwestern Prairies, with rainfall totaling 15-59 mm over much of southern Alberta and Saskatchewan. Rain also continued over most of Manitoba's crop areas. In contrast, showers were mostly light (10 mm or less) over the northern spring crop areas of Alberta and Saskatchewan, continuing a trend that began in late May. While the recent rainfall from southern Alberta to Manitoba has been timely for planting and establishment, especially following a drier than normal winter, persistent cool weather has slowed crop development and increased the threat of disease and pest damage. In fact, temperatures for the week ending July 4 averaged 4-7 degrees C below normal in southern growing areas and minimum temperatures approached 0 degrees C in Saskatchewan and Manitoba. Cool weather has also slowed development in the northern grain and oilseed areas, where conditions have been mostly drier than normal. Rain is needed for normal crop development. In Ontario, cool, dry weather covered primary crop areas but no frosts were reported.



**MEXICO:** Widespread rain (14-45 mm) returned to the Southern Plateau corn belt, after a 2-week lull, aiding vegetative corn. The seasonal tropical showers have been slow in starting, but unusually abundant winter and spring rainfall has kept soil moisture levels adequate to abundant. Weekly temperatures averaged 2-4 degrees C above normal across the corn belt.

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#### U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration  
National Weather Service/Climate Analysis Center  
Managing Editor . . . . . **Douglas Le Conte**  
Meteorologists . . . . . **Brad Rippey** (202) 720-1444  
**Vilhelm Bjerknes, David Secora, Wes Byrd, and Brian Morris.**

Subscriptions . . . . . **Joyce Houston** (202) 720-7917

#### U.S. DEPARTMENT OF AGRICULTURE

Economics Management Staff  
Editor . . . . . **Sharon Lee**  
National Agricultural Statistics Service  
Agricultural Statistician . . . **Martin Owens** (202) 720-2157  
World Agricultural Outlook Board  
Agricultural Weather Analysts . **Ray Motha** (202) 720-9805  
**Tom Puterbaugh, Mark Brusberg, and Bob Stefanski.**

(Continued from front cover)  
were beneficial to agriculture, although local flooding occurred in **Louisiana** and the **central Appalachians**. By Thursday, cool air invaded the **Northern Tier and Western States**, and contrasted with excessive heat across the **South (Presidio, TX, reached 107°F)**. Between airmasses, severe weather exploded across the **Midwest**. **Illinois** and **Indiana** took hits from 25 tornadoes, but soils benefited from the accompanying heavy rainfall. Amounts topped 2 inches in **Evansville, IN**, and **Quincy, IL**. Behind the cold front, temperatures dropped to 34°F in **Alamosa, CO**, and to 41°F in **North Platte, NE**, on Friday morning. The front weakened as it crossed the **East** at week's end, and a new storm began to organize in the **Northwest**. Elsewhere, a cluster of heavy thunderstorms developed in the **east-central Plains**.

(Continued from p. 8)  
heavy in Arkansas. The crop advanced well ahead of schedule in the Delta, but was behind in the southern Atlantic Coast States. By July 5, cotton was squaring on 55% of the acreage in the 14 major States, 2 points behind last year, and 7 points behind the historic average. Bolls were setting on 12% of the acreage, matching last year's progress, but lagging the average by 3 points. Replanting of lost acreage was nearly complete on the Texas Plains, but much of the Texas and New Mexico acreage remained in poor or very poor condition.

**Grain sorghum** planting was over half complete and ahead of schedule entering June, but rains held progress in check during the first half of the month. Planting intensified later in the month and additional acreage was seeded on the Texas Plains to replace failed cotton acreage. Grain sorghum planting was 95% complete in the 12 major States on July 5, 3 points behind last year and 1 point behind the 5-year average. The crop was in generally good condition.

**Rice** planting was virtually complete by June 1, and most of the crop had emerged. Water weevils plagued southwestern Louisiana growers early in the month, and were becoming a problem in southeastern Arkansas by month's end. Problems with blast and sheath blight were becoming more common in southwestern Louisiana. By July 5, rice heading was 15% complete in the 5 major States, 2 points ahead of last year and 4 points ahead of the average. Heading progress was ahead of normal in the southern Delta, but well behind in Texas, where rainy weather had dominated.

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