

# 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

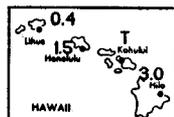
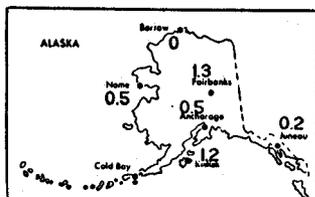
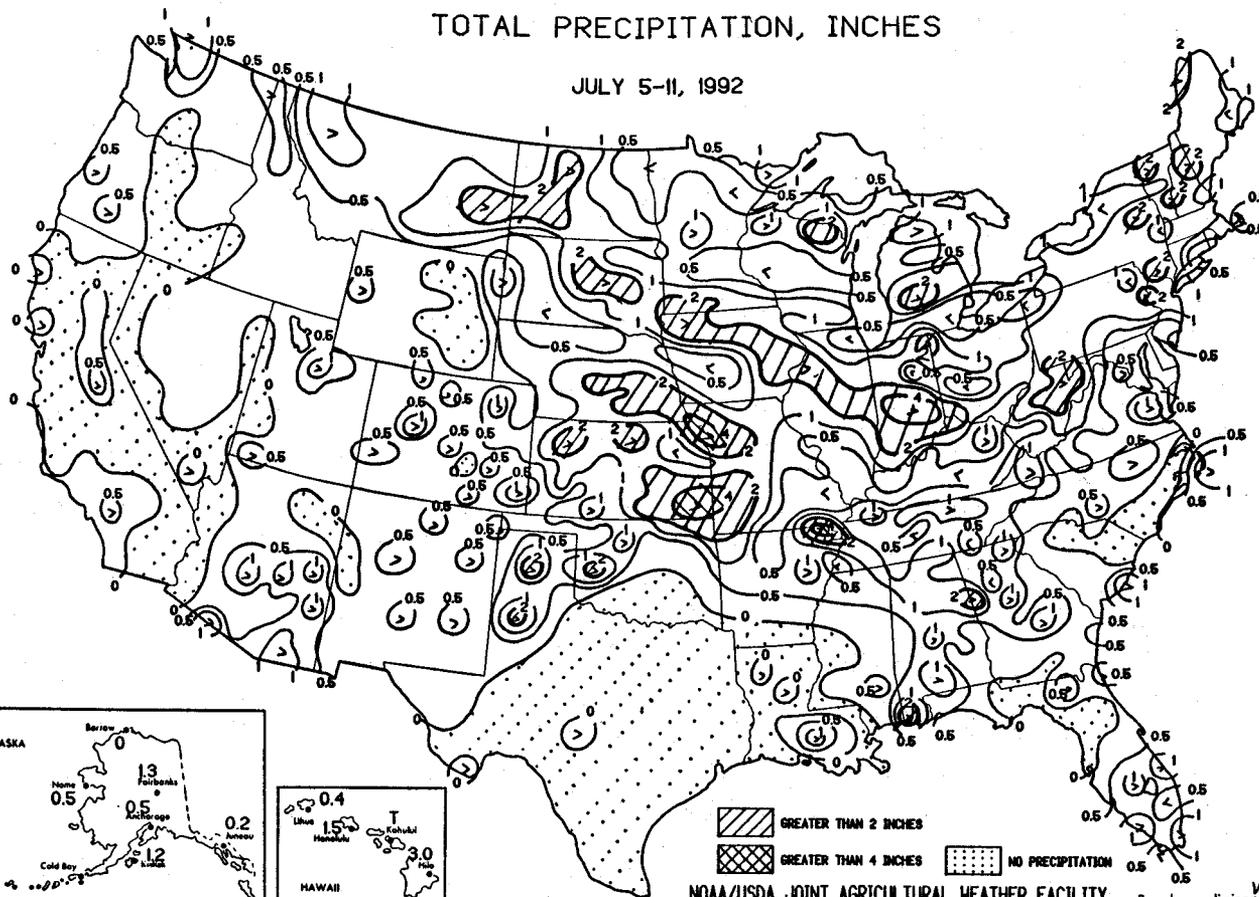
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July 14, 1992

## TOTAL PRECIPITATION, INCHES

JULY 5-11, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

## HIGHLIGHTS

July 5 - 11, 1992

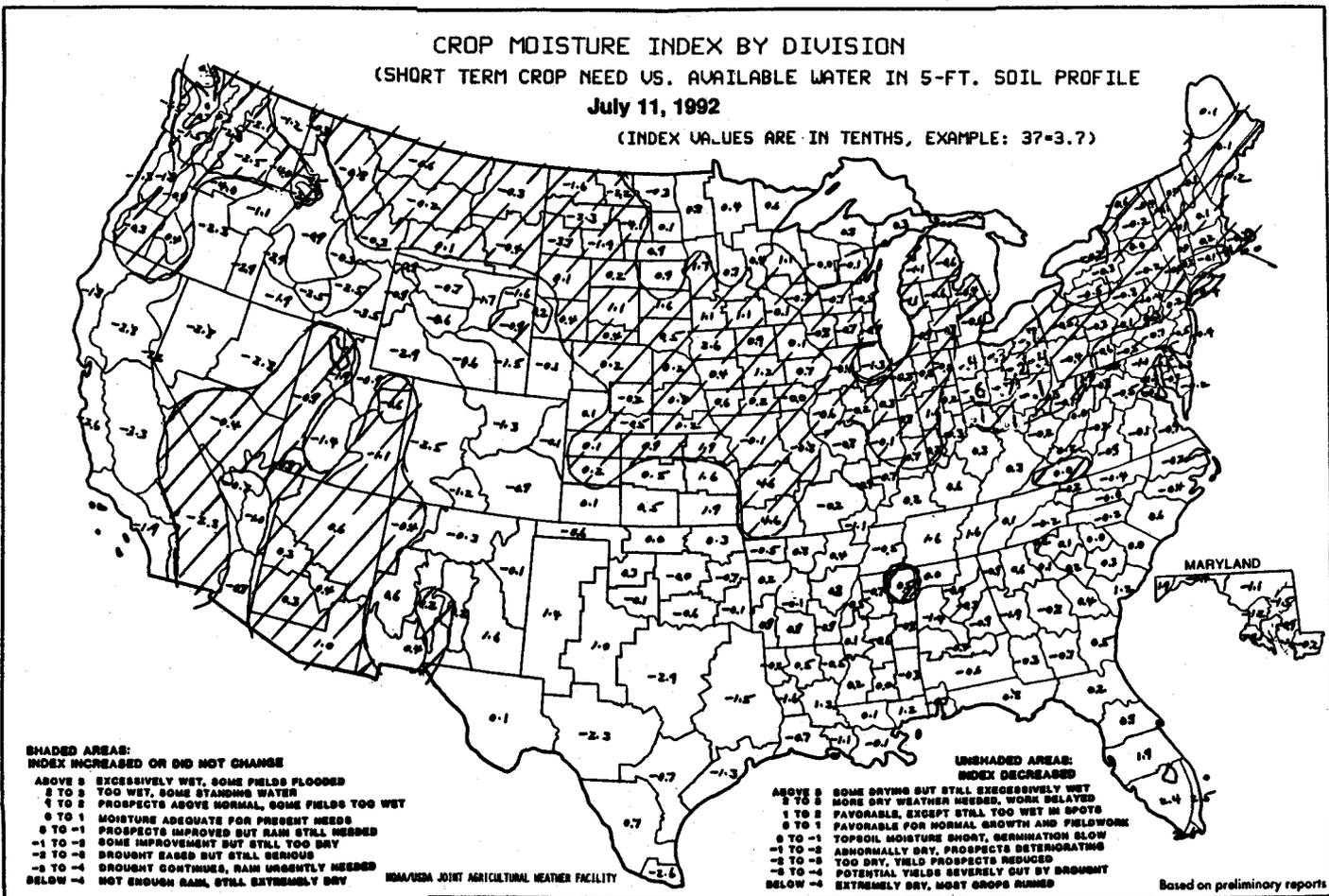
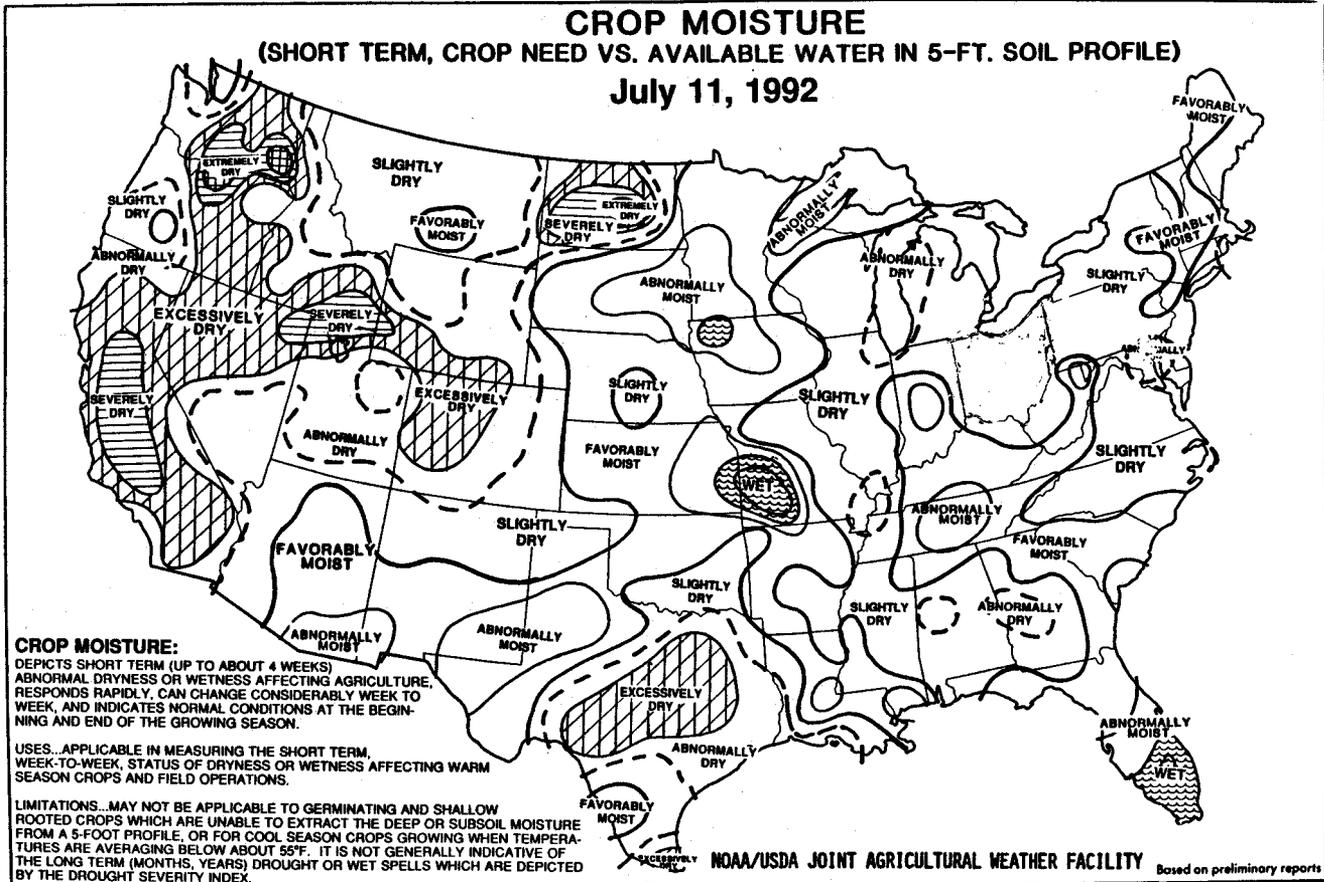
Thunderstorms developed along an oscillating frontal boundary from the northern and central Rockies eastward, aided by remnant moisture from the eastern Pacific Hurricane Darby. Corn Belt growing conditions improved again this week under a mild, moist weather regime. Early in the week, thunderstorms stretched from the northern Plains to the Southeast, and northward into New England. Rainfall topped 1 inch in locations such as Dickinson, ND, Cedar Rapids, IA, and Birmingham, AL. Cool air north of the front held Sault Ste. Marie, MI, to a high of 53°F on Sunday. But the Southern States sweltered. Highs of 99°F in Lakeland, FL, and 108°F in El Paso, TX, were among the 15 early-week daily records. At midweek, thunderstorms arced across the Northern Tier States and peppered the central Plains. Rainfall exceeded 3 inches in Grand Rapids, MI, and Kansas City, MO. In addition, moisture stripped from Darby produced rare July showers and drizzle in southern California. Thursday's 0.03-inch rainfall in Bakersfield, CA, was their largest 1-day July amount since 1965. Late in the

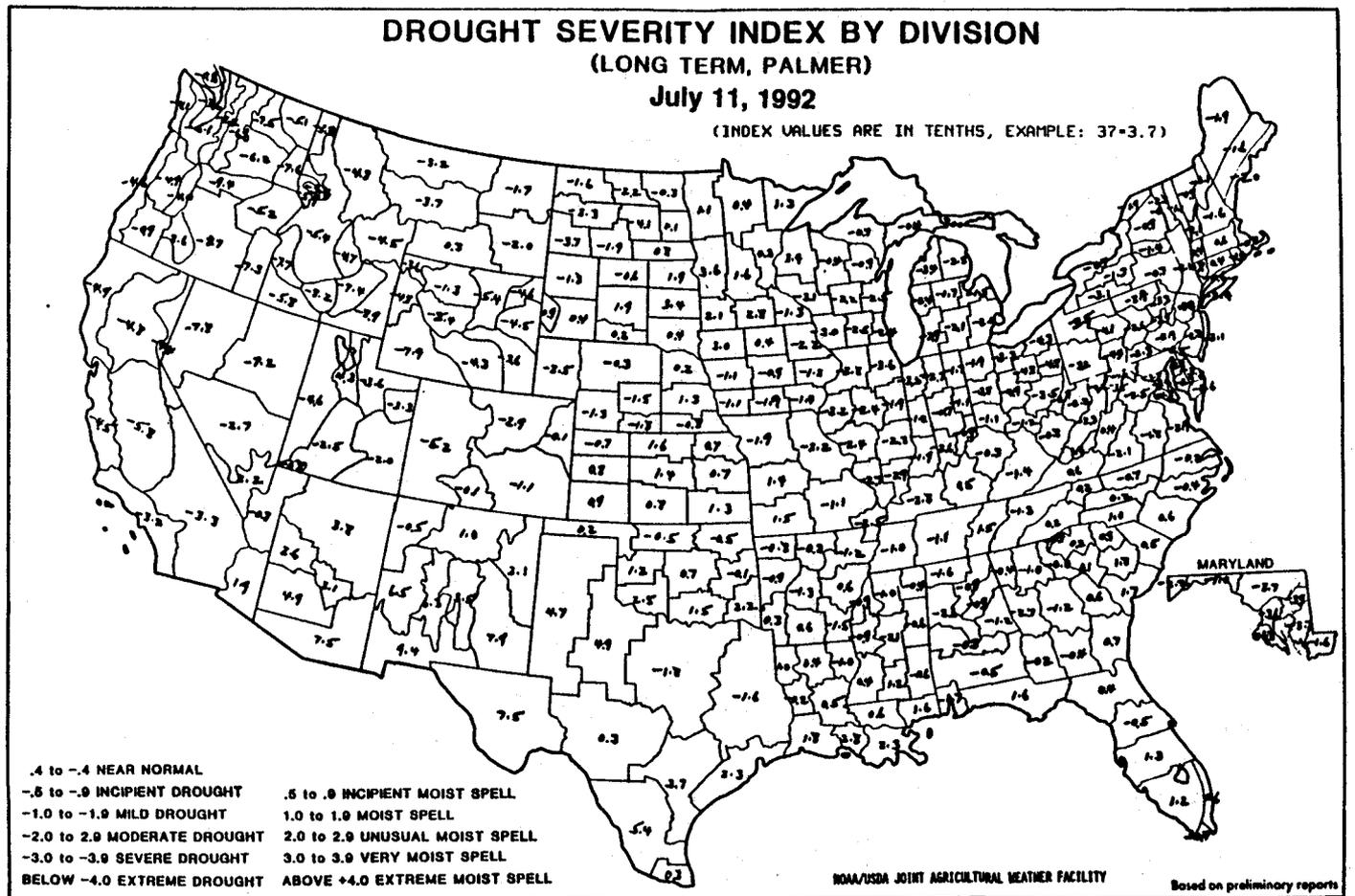
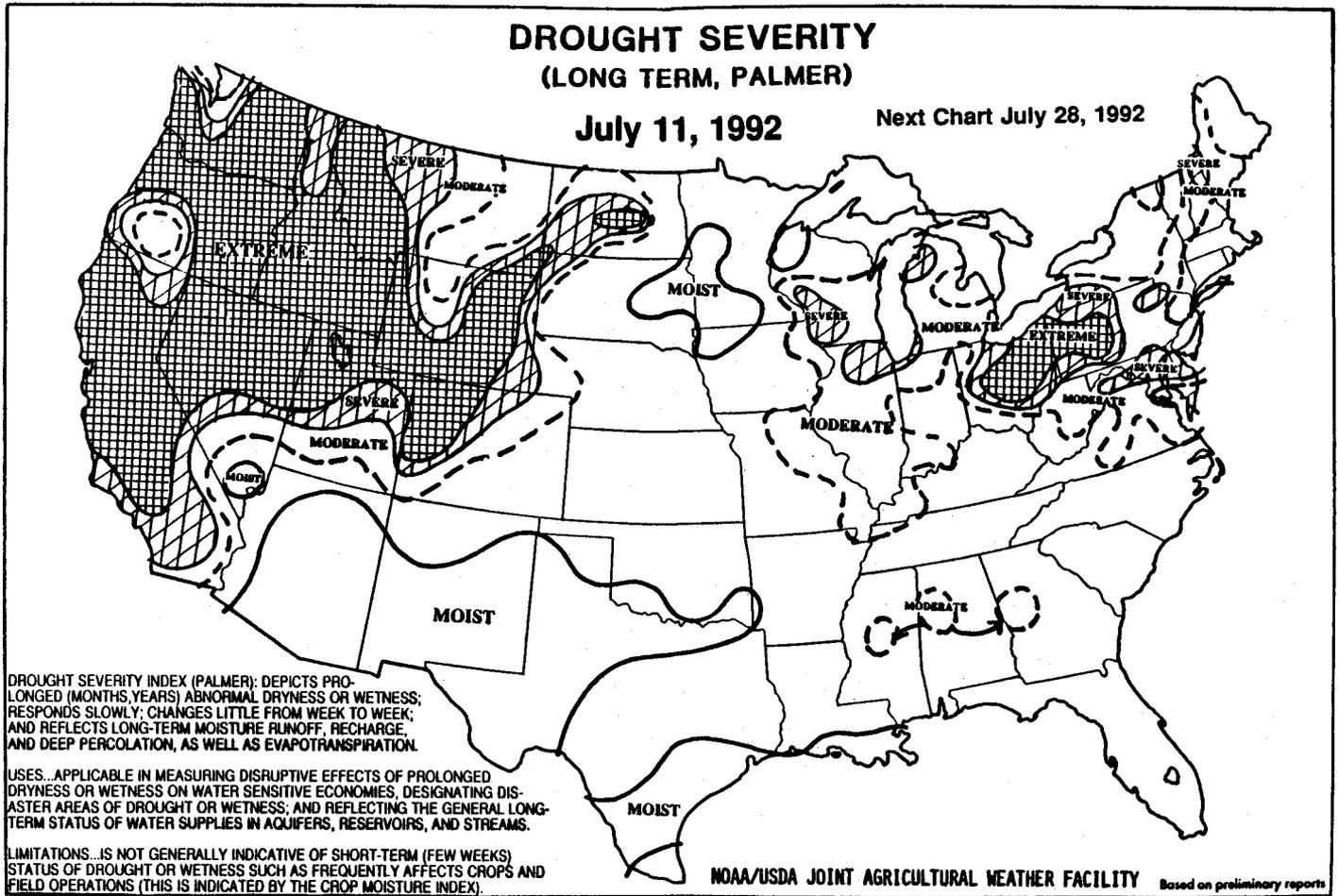
week, tropical moisture enhanced thunderstorm activity and caused local flash flooding from the Southwest to the Midwest. Coffeyville, KS, endured 7.58 inches of rain, and Cincinnati, OH, netted 2.34 inches. Hot air spread northward along the Atlantic coast, producing a high of 99°F in Wilmington, NC, on Saturday.

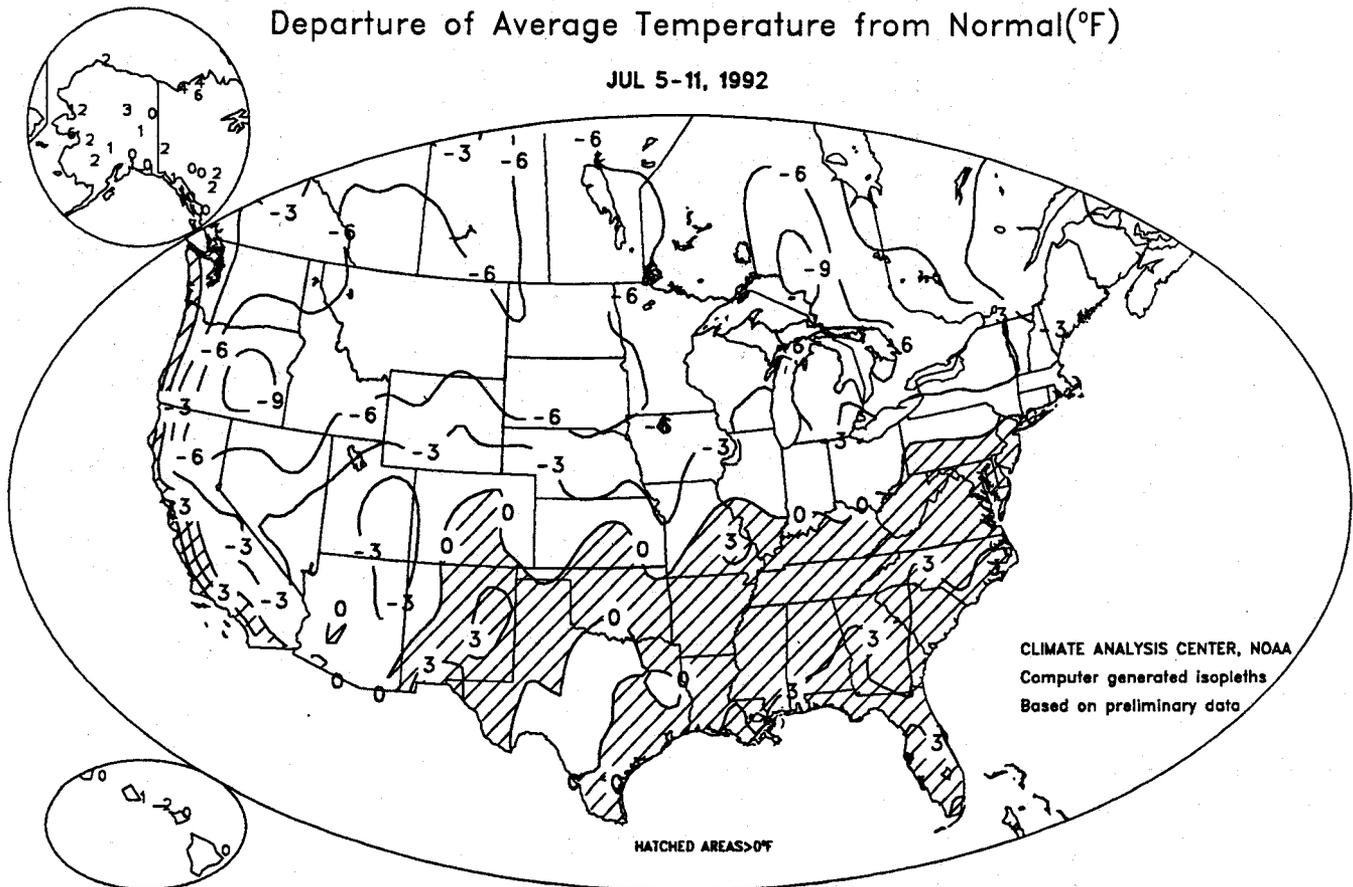
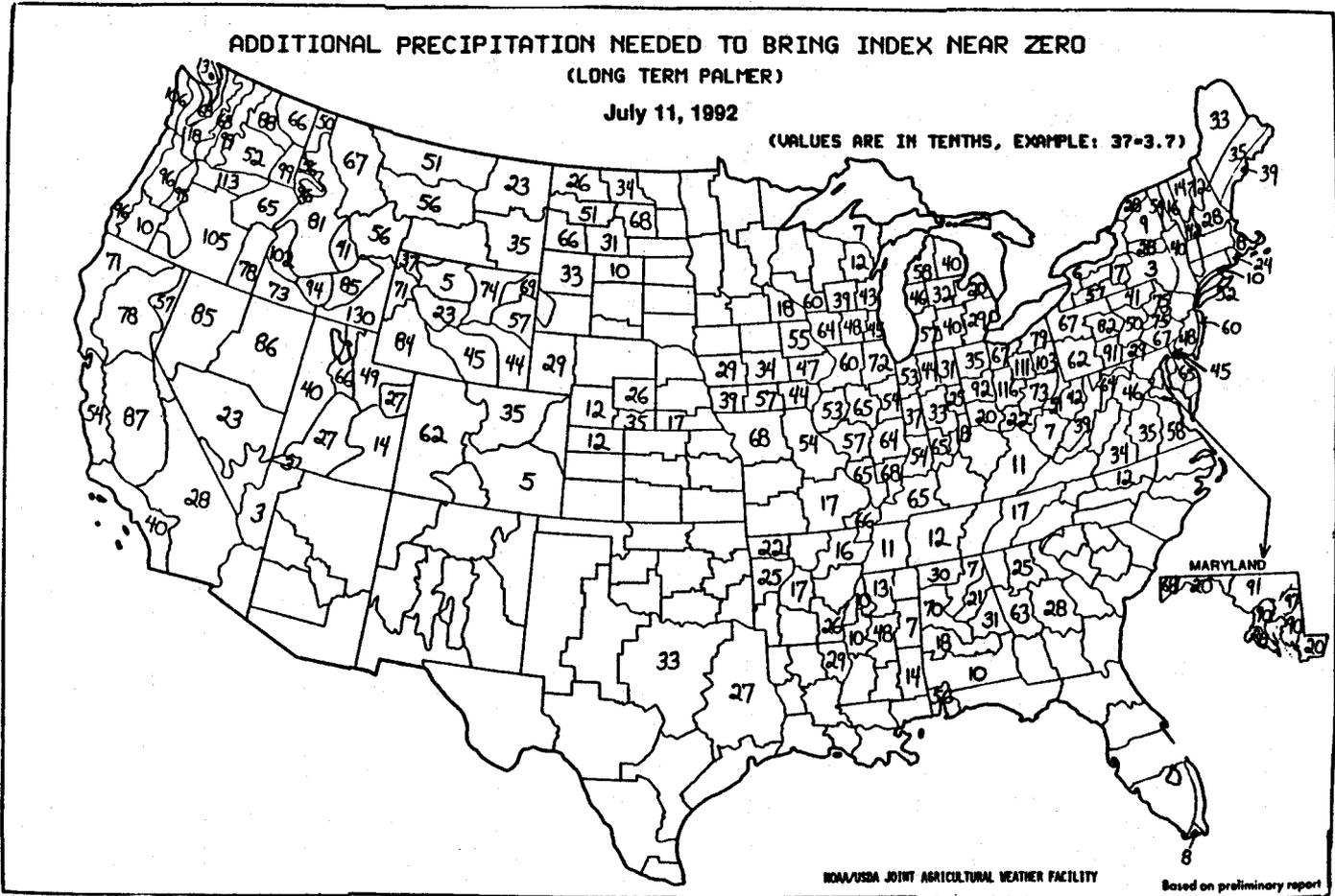
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# National Weather Data for Selected Cities

Weather Data for the Week Ending July 11, 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	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	93	69	95	67	81	1	1.8	.5	1.2	8.8	160	23.7	75	97	46	7	0	2	2			
MOBILE	96	74	99	70	85	3	2.5	.8	2.3	8.0	104	35.0	101	94	42	7	0	2	1			
MONTGOMERY	95	71	98	70	83	2	.2	-.9	.2	9.6	185	33.6	119	97	46	7	0	1	0			
AK ANCHORAGE	64	54	68	51	59	1	.5	.1	.3	1.7	98	4.9	94	91	58	0	0	4	0			
BARROW	47	35	52	34	41	3	.0	-.2	.0	.2	35	.7	48	92	71	0	0	0	0			
FAIRBANKS	73	54	78	48	64	1	1.3	.9	1.0	3.4	176	6.7	161	86	45	0	0	2	1			
JUNEAU	62	51	67	49	57	1	2.1	1.2	2.1	5.1	118	39.9	187	94	63	0	0	2	1			
KODIAK	59	51	65	49	55	1	1.2	.4	1.0	6.8	130	33.2	115	98	76	0	0	5	1			
NOME	63	50	74	43	57	7	.5	.0	.3	1.0	52	3.3	68	97	71	0	0	4	0			
AZ PHOENIX	103	81	112	73	92	0	1.1	1.0	.7	1.2	316	7.7	272	59	28	6	0	3	1			
PRESCOTT	87	62	95	60	75	0	.2	-.3	.2	.4	32	7.9	165	70	31	3	0	2	0			
TUCSON	100	71	111	68	86	-1	.8	.3	.3	.9	85	7.4	205	75	25	6	0	5	0			
YUMA	106	83	112	80	94	1	.0	.0	.0	.0	0	3.2	347	--	--	7	0	0	0			
AR FORT SMITH	93	71	94	69	82	0	.6	-.2	.6	10.0	209	24.6	112	97	48	7	0	1	1			
LITTLE ROCK	93	73	94	68	83	1	.6	-.3	.6	6.4	130	23.6	84	82	53	6	0	1	1			
CA BAKERSFIELD	93	68	98	62	80	-4	.1	-.1	-.1	.1	100	5.7	148	67	27	5	0	1	0			
EUREKA	67	55	68	53	61	5	.0	.0	.0	1.5	261	15.2	68	92	72	0	0	0	0			
FRESNO	93	68	99	61	80	0	.0	.0	.0	.0	0	9.0	129	64	27	5	0	0	0			
LOS ANGELES	82	67	92	61	74	6	T	T	T	T	>1000	11.6	140	92	55	1	0	1	0			
REDDING	92	62	98	55	77	-6	.0	-.1	.0	1.7	184	20.2	82	79	21	4	0	0	0			
SACRAMENTO	91	60	99	55	76	0	.0	.0	.0	.1	108	9.9	93	77	24	4	0	0	0			
SAN DIEGO	80	68	82	64	74	4	T	T	T	.1	150	10.0	163	90	59	0	0	1	0			
SAN FRANCISCO	79	59	87	56	69	7	.0	.0	.0	.4	355	13.3	107	88	46	0	0	0	0			
CO DENVER	88	59	99	56	74	1	.3	-.2	.2	2.5	112	8.9	101	74	23	2	0	4	0			
GRAND JUNCTION	89	63	99	58	76	-3	.5	-.4	.4	.6	115	4.9	125	53	20	4	0	2	0			
PUEBLO	94	59	104	54	76	0	T	T	T	3.2	182	5.5	103	59	19	5	0	0	0			
CT BRIDGEPORT	81	64	90	59	73	0	.4	-.3	.4	6.0	149	18.4	86	88	51	1	0	3	0			
HARTFORD	82	61	90	52	71	-2	.5	-.2	.3	6.8	155	21.9	97	93	46	1	0	4	0			
DC WASHINGTON	88	71	96	64	80	1	T	-.8	T	3.6	77	18.0	91	81	45	3	0	3	0			
FL APALACHICOLA	95	76	96	73	85	4	.2	-.4	.2	6.3	87	24.7	100	--	--	7	0	1	0			
DAYTONA BEACH	94	75	96	73	85	4	.1	-.2	.1	10.7	128	23.1	102	94	49	7	0	1	0			
JACKSONVILLE	96	75	98	73	86	4	.3	-.1	.2	7.6	95	31.4	124	92	44	7	0	2	0			
KEY WEST	91	81	91	77	86	2	T	-.8	T	12.1	190	19.4	120	83	61	7	0	0	0			
MIAMI	93	79	97	74	86	4	1.8	-.4	1.1	15.3	134	24.2	89	84	51	7	0	2	2			
ORLANDO	96	76	97	74	86	3	.1	-.8	.1	8.8	88	26.5	107	96	47	7	0	1	0			
TALLAHASSEE	98	71	99	69	84	3	T	-.2	T	15.1	157	37.6	110	98	41	7	0	0	0			
TAMPA	93	76	96	74	85	2	T	-.6	T	7.0	90	15.4	71	93	51	7	0	0	0			
WEST PALM BEACH	92	75	95	73	84	1	.1	-.4	.0	16.1	158	27.9	101	93	52	6	0	2	0			
GA ATLANTA	93	71	96	68	82	4	.5	-.6	.5	8.1	160	22.2	77	93	43	6	0	1	0			
AUGUSTA	95	70	98	64	82	2	.2	-.8	.1	8.7	160	25.3	100	98	45	6	0	2	0			
MACON	96	72	99	68	84	3	.2	-.8	.2	6.8	128	24.0	90	95	41	7	0	2	0			
SAVANNAH	97	75	100	72	86	5	T	-.6	T	14.2	171	31.2	118	90	44	7	0	1	0			
HI HILO	82	68	86	66	75	0	3.0	1.2	1.4	13.4	151	29.5	43	94	63	0	0	5	2			
HONOLULU	87	74	90	73	81	1	1.5	1.4	1.5	1.6	246	5.3	40	78	45	1	0	2	1			
KAHULUI	86	70	88	63	78	0	T	-.1	T	.4	100	6.6	57	83	50	0	0	1	0			
LIIHUE	84	73	85	71	79	0	.4	-.1	.2	1.5	65	13.0	57	85	60	0	0	3	0			
ID BOISE	81	53	86	49	67	-7	.0	-.1	.0	2.1	208	4.2	59	70	23	0	0	0	0			
LEWISTON	78	58	84	56	68	-6	T	-.1	T	.8	48	4.9	65	71	30	0	0	0	0			
POCATELLO	80	49	85	43	64	-6	.2	-.1	.2	1.6	133	3.9	60	68	20	0	0	1	0			
IL CHICAGO	82	62	90	51	72	-1	T	-.7	T	2.1	38	9.5	53	89	46	1	0	2	0			
MOLINE	81	61	87	51	71	-4	2.0	.9	1.8	5.1	84	12.4	62	98	59	0	0	3	1			
PEORIA	83	64	90	55	73	-2	2.0	1.1	1.7	4.1	77	11.7	62	98	56	1	0	3	1			
QUINCY	83	68	91	59	76	-1	.8	-.2	.6	4.7	84	14.9	75	95	63	1	0	5	1			
ROCKFORD	81	61	88	53	71	-2	.2	-.9	.1	2.2	35	10.6	55	91	47	0	0	3	0			
SPRINGFIELD	84	68	89	59	76	-1	1.3	.5	.5	4.6	97	13.0	70	99	65	0	0	3	1			
IN EVANSVILLE	89	70	94	63	80	2	1.9	1.0	1.9	6.6	133	18.0	75	88	56	4	0	1	1			
FORT WAYNE	81	61	87	52	71	-2	2.0	1.2	1.9	5.6	116	18.5	97	95	52	0	0	2	1			
INDIANAPOLIS	82	65	88	59	73	-2	5.5	4.5	2.6	10.9	197	21.8	101	96	60	0	0	5	4			
SOUTH BEND	81	60	87	52	70	-2	.2	-.6	.1	2.4	47	12.1	62	93	48	0	0	2	0			
IA DES MOINES	82	64	92	55	73	-3	.2	-.5	.2	2.2	41	12.8	76	92	56	2	0	2	0			
STOUCX CITY	81	62	88	55	71	-4	.4	-.4	.2	3.4	65	12.9	90	96	57	0	0	3	0			
WATERLOO	80	60	86	50	70	-3	2.1	1.1	1.0	4.2	70	14.4	81	96	52	0	0	6	1			
KS CONCORDIA	87	66	96	62	76	-3	2.4	1.6	1.7	11.3	207	21.1	139	97	57	2	0	3	2			
DODGE CITY	92	67	102	64	79	0	.4	-.3	.3	7.4	180	12.8	110	95	45	4	0	3	0			
GOODLAND	86	60	95	56	73	-3	1.3	.7	.7	8.0	224	12.0	127	95	46	1	0	5	1			
TOPEKA	87	69	92	62	78	0	.1	-.9	.1	4.8	73	17.2	95	95	60	2	0	3	0			
WICHITA	95	70	102	68	83	2	1.4	.6	1.4	8.7	163	18.3	119	88	40	6	0	2	1			
KY BOWLING GREEN	89	70	97	62	80	1	T	-1.0	T	5.0	81	22.1	77	96	59	4	0	1	0			
LEXINGTON	85	67	90	59	76	0	1.0	-.1	.4	9.5	157	26.5	101	93	57	1	0	5	0			
LOUISVILLE	88	69	93	61	79	1	.7	-.2	.7	4.7	93	20.4	83	88	51	4	0	2	1			
LA ALEXANDRIA	95	74	97	72	85	2	.0	-1.0	.0	5.5	102	31.0	102	94	41	6	0	0	0			
BATON ROUGE	95	76	96	74	86	4	.1	-1.4	.1	14.6	264	40.8	135	92	44	7	0	1	0			
LAKE CHARLES	92	76	93	74	84	2	.0	-1.2	.0	8.5	145	37.4	141	100	59	7	0	0	0			
NEW ORLEANS	95	74	96	70	84	3	T	-1.5	T	9.8	141	38.8	123	98	44	7	0	0	0			

Based on 1951-80 normals.

Weather Data for the Week Ending July 11, 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	TEMP. °F		PRECIP.
													90 AND ABOVE				32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	95	73	96	70	84	-1	.0	-.9	.0	3.9	82	27.0	106	96	43	7	0	0	0
ME CARIBOU	67	53	77	48	60	-5	1.0	-.1	.5	5.9	128	18.6	110	97	67	0	0	0	1
ME FORTLAND	76	58	81	52	67	-1	1.0	-.3	.5	5.6	139	21.4	95	97	54	0	0	5	1
MD BALTIMORE	87	66	95	59	77	0	1.1	-.7	.1	4.2	82	17.2	80	86	47	2	0	2	0
MD SALISBURY	88	68	94	59	78	1	.2	-.8	.2	5.1	102	19.3	86	99	54	3	0	1	0
MA BOSTON	79	62	87	57	70	-3	.9	-.3	.5	5.8	152	18.5	81	89	48	0	0	3	0
MA CHATHAM	72	59	79	55	66	-2	.4	-.2	.4	4.9	133	16.1	67	93	73	0	0	2	0
MI ALPENA	72	54	79	48	63	-3	1.9	1.2	1.5	3.9	91	12.5	86	97	60	0	0	2	1
MI DETROIT	79	61	83	53	70	-1	1.1	-.6	.1	3.1	69	15.4	93	92	50	0	0	2	0
MI FLINT	78	59	81	51	68	-2	1.5	.9	1.4	3.7	89	14.5	95	93	48	0	0	2	1
MI GRAND RAPIDS	78	59	81	50	69	-3	3.7	3.0	3.4	5.3	111	16.8	97	97	51	0	0	2	1
MI HOUGHTON LAKE	75	55	81	44	65	-5	.5	-.2	.5	2.5	59	10.6	75	96	56	0	0	2	0
MI LANSING	79	56	81	48	68	-2	.8	-.2	.8	2.9	60	15.1	97	96	50	0	0	1	1
MI MARQUETTE	69	50	78	45	60	-5	.4	-.4	.2	4.4	86	14.8	76	92	67	0	0	2	0
MI MUSKOGON	76	56	82	47	66	-4	.3	-.2	.3	1.8	56	10.5	67	98	53	0	0	2	0
MI SAULT ST. MARIE	66	48	76	44	57	-6	1.0	.4	.7	4.0	93	13.4	87	98	73	0	0	4	1
MN ALEXANDRIA	74	55	80	48	65	-6	1.4	.7	.6	5.7	111	13.1	100	93	51	0	0	4	2
MN DULUTH	73	51	77	42	62	-3	.4	-.5	.3	8.1	153	15.9	110	96	54	0	0	4	0
MN INT'L FALLS	73	49	81	41	61	-5	.6	-.3	.4	4.3	85	10.7	91	97	46	0	0	3	0
MN MINNEAPOLIS	77	58	82	50	68	-5	1.1	-.7	.1	6.4	120	12.3	88	94	50	0	0	1	0
MN ROCHESTER	76	57	81	48	67	-4	.9	.0	.4	2.9	57	11.8	82	96	51	0	0	4	0
MS GREENWOOD	94	74	97	73	84	2	T	-1.0	T	8.1	163	22.8	73	92	45	7	0	1	0
MS JACKSON	95	71	97	66	83	1	.0	-1.0	.0	5.5	117	18.4	61	100	40	7	0	0	0
MS MERIDIAN	96	70	99	68	83	2	.6	-.6	.4	8.1	150	30.6	98	90	36	7	0	2	0
MO CAPE GIRARDEAU	91	73	94	69	82	1	.1	-.8	.1	4.8	99	18.1	72	91	53	5	0	1	0
MO COLUMBIA	87	68	93	62	78	0	2.8	2.1	1.7	5.8	121	15.5	76	95	56	2	0	5	2
MO KANSAS CITY	84	67	92	62	75	-4	5.5	4.5	3.8	9.6	156	22.6	118	99	67	1	0	5	3
MO SAINT LOUIS	90	74	95	67	82	3	.1	-.7	.1	3.6	70	13.9	72	88	48	4	0	3	2
MO SPRINGFIELD	89	70	92	64	79	2	2.2	1.3	1.4	10.7	178	20.5	94	92	52	3	0	2	0
MT BILLINGS	75	53	83	50	64	-8	1.3	1.0	.8	4.1	174	9.0	96	87	40	0	0	2	1
MT GLASGOW	73	54	81	52	63	-7	.9	.4	.6	4.2	134	6.0	93	93	50	0	0	5	1
MT GREAT FALLS	68	49	75	45	58	-10	1.0	.8	.5	4.5	143	9.2	93	95	49	0	0	5	0
MT HAVRE	69	53	77	50	61	-9	.6	.3	.2	2.7	99	3.9	54	97	53	0	0	4	0
MT HELENA	71	51	78	49	61	-6	.7	.4	.3	3.2	133	5.4	77	84	39	0	0	5	0
MT KALISPELL	67	51	71	49	59	-5	1.3	1.1	.5	5.5	216	10.7	119	96	55	0	0	1	1
MT MILES CITY	76	56	90	53	66	-8	2.2	1.8	1.3	4.8	143	9.0	101	92	47	1	0	6	1
MT MISSOULA	70	49	72	44	60	-7	.5	.3	.3	3.4	158	7.5	96	94	45	0	0	6	0
NE GRAND ISLAND	81	63	88	60	72	-4	1.7	1.0	.8	7.2	155	17.3	124	96	63	0	0	5	1
NE LINCOLN	84	66	89	62	75	-2	2.0	1.3	1.0	4.6	92	12.6	82	97	61	0	0	5	2
NE NORFOLK	82	61	88	56	71	-4	1.2	.7	.7	5.8	105	13.2	92	94	56	0	0	4	1
NE NORTH PLATTE	84	59	92	56	71	-2	1.6	.8	1.1	4.3	88	13.0	107	93	50	1	0	5	1
NE OMAHA	81	66	89	59	73	-4	1.2	.4	.7	4.0	74	15.3	94	93	64	0	0	5	1
NE SCOTTSBLUFF	86	57	98	50	72	-2	.9	.4	.9	4.4	118	9.7	99	88	31	1	0	3	1
NE VALENTINE	81	56	90	48	69	-9	1.1	-.4	.1	6.2	161	9.9	97	94	54	1	0	2	0
NV BLY	82	50	88	44	66	-6	.2	-.1	.1	2.0	196	5.2	98	62	19	0	0	3	0
NV LAS VEGAS	98	79	106	71	88	-2	T	-1.1	T	.1	53	6.7	353	43	19	6	0	1	0
NV RENO	85	49	91	45	67	-5	.0	-.1	.0	1.1	273	2.5	57	61	16	1	0	0	0
NH WINNEUCCA	86	47	91	40	66	-7	.1	.0	.1	.5	52	1.9	41	48	16	2	0	1	0
NH CONCORD	80	55	86	47	67	-2	.7	-.1	.6	4.6	115	14.8	81	98	46	0	0	3	1
NJ ATLANTIC CITY	86	63	94	54	74	-3	.3	-.5	.2	4.8	119	14.8	70	96	45	2	0	4	0
NM ALBUQUERQUE	94	65	100	63	79	0	1.0	.7	.4	1.7	183	5.1	169	68	21	5	0	4	0
NM CLOVIS	96	64	103	62	80	0	.2	-.5	.1	3.5	97	12.9	160	75	22	6	0	3	0
NM ROSWELL	100	67	107	63	84	3	.5	-.2	.5	2.8	179	9.9	255	70	20	7	0	1	1
NY ALBANY	79	56	84	50	68	-3	.6	-.1	.3	3.0	70	14.2	78	100	53	0	0	4	0
NY BINGHAMTON	75	57	82	51	66	-3	1.0	-.2	.7	2.8	58	19.6	104	95	51	0	0	4	1
NY BUFFALO	74	60	78	56	67	-3	1.3	.7	1.2	4.5	123	20.1	111	93	56	0	0	2	1
NY NEW YORK	86	69	94	65	77	1	1.4	.6	.9	5.2	119	16.5	75	81	37	2	0	4	1
NY ROCHESTER	77	57	82	51	67	-4	.9	.3	.6	3.3	91	16.5	102	96	55	0	0	3	1
NY SYRACUSE	78	58	82	53	68	-3	1.0	-.2	.5	4.3	87	21.9	111	94	50	0	0	4	1
NC ASHEVILLE	88	62	92	56	75	2	.2	-.7	.1	6.9	139	27.3	115	95	43	3	0	2	0
NC CHARLOTTE	93	72	97	67	82	4	T	-.9	T	6.9	139	25.5	105	79	40	5	0	0	0
NC GREENSBORO	90	68	96	58	79	2	.4	-.6	.4	4.1	75	21.6	95	87	46	3	0	1	0
NC HATTERAS	89	74	96	66	81	3	1.1	-.1	.9	2.1	35	23.4	89	95	58	2	0	2	1
NC NEW BERN	94	72	101	66	83	4	.0	-1.5	.0	5.2	69	22.4	84	96	42	-1.5	0	0	0
NC RALEIGH	90	68	96	61	79	2	.7	-.2	.7	6.9	133	20.4	91	94	48	3	0	2	1
NC WILMINGTON	93	73	99	68	83	3	T	-1.6	T	8.9	107	34.4	129	95	46	5	0	2	0
ND BISMARCK	75	52	80	48	64	-6	1.6	1.1	.6	5.3	139	7.9	86	94	48	0	0	6	2
ND FARGO	75	55	83	47	65	-5	.2	-.6	.1	6.7	157	12.4	122	93	54	0	0	2	0
ND GRAND FORKS	74	53	85	45	63	-5	.2	-.5	.1	4.6	117	10.7	114	93	52	0	0	4	0
ND WILLISTON	76	55	82	50	65	-5	.5	-.1	.4	2.6	78	7.5	94	89	40	0	0	4	0
OH AKRON-CANTON	80	61	86	51	70	-1	.7	-.2	.6	2.8	59	17.3	88	94	55	0	0	4	1
OH CINCINNATI	83	64	90	58	74	-1	2.6	1.6	1.5	7.7	135	21.4	93	98	58	1	0	6	2
OH CLEVELAND	80	62	87	53	71	-1	.7	-.1	.5	3.4	72	19.2	101	92	53	0	0	3	1
OH COLUMBUS	83	64	89	52	74	0	.2	-.7	.1	3.0	55	15.3	74	93	52	0	0	3	0

Based on 1951-80 normals.

Weather Data for the Week Ending July 11, 1992

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY, PERCENT			NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		
																			.50 INCH OR MORE	.01 INCH OR MORE	
DAYTON	84	64	92	56	74	0	.3	-.5	.3	4.3	86	19.9	100	91	52	2	0	6	0		
TOLEDO	81	60	84	51	70	-2	.4	-.4	.3	2.2	48	15.3	90	94	50	0	0	2	0		
YOUNGSTOWN	80	58	86	49	69	-1	.4	-.5	.2	1.5	30	14.9	75	97	51	0	0	3	0		
OK OKLAHOMA CITY	92	74	95	72	83	1	.1	-.7	.1	6.4	130	18.4	104	77	42	6	0	1	0		
TULSA	93	74	95	68	84	1	.1	-.7	.1	9.0	153	22.6	105	81	44	0	0	1	0		
OR ASTORIA	67	55	69	52	61	1	.1	-.3	.1	.8	26	25.0	69	94	66	0	0	2	0		
BURNS	74	45	82	39	59	-5	.1	.0	.1	3.1	475	5.4	97	79	26	0	0	0	0		
MEDFORD	84	54	90	50	69	-3	.3	.2	.3	3.1	423	7.4	71	93	32	1	0	2	0		
FENDLETON	78	55	84	53	66	-7	.1	.0	.1	1.1	138	4.0	60	71	29	0	0	3	0		
PORTLAND	75	57	79	55	66	-1	.5	.4	.5	.8	50	15.0	77	90	49	0	0	1	0		
SALEM	77	54	81	49	65	-1	.3	.2	.3	1.6	122	16.1	75	89	42	0	0	1	0		
PA ALLENTOWN	84	63	91	57	74	0	1.8	-.9	1.3	5.7	118	18.0	80	92	42	1	0	3	0		
ERIE	76	62	84	54	69	0	.2	-.6	.1	3.3	65	15.8	82	90	55	0	0	2	0		
HARRISBURG	86	65	92	57	76	0	.3	-.5	.3	2.2	46	14.0	67	85	40	2	0	0	0		
PHILADELPHIA	87	69	93	64	78	2	.2	-.6	.2	3.0	57	12.4	57	84	40	2	0	3	0		
PITTSBURGH	82	61	88	51	72	0	1.2	.3	1.0	2.8	58	14.8	72	94	47	0	0	3	1		
SCRANTON	82	61	89	53	72	0	.8	.0	.4	2.3	50	13.5	76	93	47	0	0	3	0		
RI PROVIDENCE	82	61	89	56	72	-1	.4	-.3	.2	5.4	144	20.1	86	91	49	0	0	2	0		
SC CHARLESTON	95	75	98	72	85	5	1.6	-.1	1.6	8.5	93	27.2	99	95	46	7	0	2	1		
COLUMBIA	97	71	101	65	84	3	.1	-1.1	.1	6.5	104	22.3	81	93	35	7	0	1	0		
FLORENCE	96	73	100	68	85	4	.0	-1.3	.0	4.2	62	16.6	69	90	39	7	0	0	0		
GREENVILLE	93	65	98	60	79	1	.0	-1.0	.0	5.0	83	28.9	99	93	39	4	0	0	0		
SD ABERDEEN	74	56	78	50	65	-7	1.5	-.9	.8	7.3	176	10.1	94	97	56	0	0	4	2		
HURON	75	57	80	54	66	-7	2.2	1.7	1.3	7.9	191	13.1	116	95	59	0	0	3	2		
RAPID CITY	76	55	83	51	65	-7	.4	-.1	.3	3.5	85	9.0	84	94	51	0	0	6	0		
SIOUX FALLS	77	59	85	52	68	-6	1.8	1.2	1.1	7.6	164	16.3	123	95	56	0	0	6	1		
TN CHATTANOOGA	90	68	91	66	79	0	.3	-.8	.2	9.7	195	27.6	92	100	49	5	0	2	0		
KNOXVILLE	88	70	91	65	79	1	.6	-.4	.6	5.9	106	22.4	82	96	56	4	0	2	1		
MEMPHIS	93	76	95	71	84	2	.2	-.7	.2	7.7	156	23.9	79	87	50	6	0	1	0		
NASHVILLE	90	72	92	69	81	2	.4	-.4	.4	9.4	187	23.4	83	91	54	5	0	1	0		
TX ABILENE	93	71	94	69	82	-2	.0	-.5	.0	5.3	163	17.1	143	78	34	7	0	0	0		
AMARILLO	93	65	101	62	79	1	2.1	1.5	1.0	9.7	218	16.3	159	78	33	5	0	3	2		
AUSTIN	93	74	94	71	84	-1	.0	-.4	.0	5.0	134	32.8	195	94	43	7	0	0	0		
BEAUMONT	92	75	93	73	83	1	.0	-1.3	.0	10.8	157	39.3	143	100	59	7	0	0	0		
BROWNSVILLE	94	76	96	74	85	1	.1	-.3	.1	1.6	50	16.9	166	94	47	7	0	0	0		
CORPUS CHRISTI	91	75	92	74	83	-1	.0	-.6	.0	1.8	39	26.7	191	97	56	7	0	0	0		
DEL RIO	97	73	99	71	85	-1	.0	-.4	.0	1.8	79	15.5	188	67	26	7	0	0	0		
EL PASO	103	75	108	71	89	6	.1	-.3	.1	.4	35	6.7	257	47	17	7	0	1	0		
FORT WORTH	95	75	96	73	85	0	.0	-.5	.0	5.2	170	23.6	135	85	39	7	0	0	0		
GALVESTON	91	82	92	81	87	3	.1	-.8	.1	2.6	54	31.6	172	83	61	7	0	0	0		
HOUSTON	96	76	97	75	86	3	.0	-.8	.0	3.5	62	34.3	144	96	41	7	0	0	0		
LUBBOCK	97	69	104	64	83	3	.9	-.3	.7	5.3	145	16.5	180	77	30	7	0	2	1		
MIDLAND	94	67	98	64	80	-1	.0	-.4	.0	2.1	106	15.5	244	80	31	7	0	0	0		
SAN ANGELO	96	72	99	70	84	0	.0	-.3	.0	5.9	261	15.1	172	76	28	7	0	0	0		
SAN ANTONIO	94	76	96	73	85	1	.0	-.4	.0	5.7	154	35.0	236	88	37	7	0	0	0		
VICTORIA	95	76	96	75	86	2	.0	-.6	.0	1.8	33	37.2	205	96	44	7	0	0	0		
WACO	97	75	98	73	86	1	.0	-.4	.0	2.7	84	24.7	141	89	37	7	0	0	0		
WICHITA FALLS	94	74	95	72	84	-1	.0	-.5	.0	8.4	237	17.1	117	80	38	7	0	0	0		
UT CEDAR CITY	84	59	91	50	72	-2	.1	-.2	.1	.3	42	5.2	102	68	28	2	0	0	0		
SALT LAKE CITY	88	64	94	57	76	-1	.1	-.1	.1	.5	45	6.5	71	55	18	3	0	1	0		
VT BURLINGTON	77	59	81	55	68	-1	2.1	1.3	1.4	4.0	82	14.3	88	98	52	0	0	5	1		
VA NORFOLK	90	72	102	64	81	3	.1	-1.0	.1	2.7	52	16.6	73	91	47	3	0	1	0		
RICHMOND	89	69	97	61	79	1	1.6	-.5	1.5	5.1	96	22.7	104	97	53	3	0	3	1		
ROANOKE	88	66	92	56	77	1	.2	-.6	.1	7.2	159	26.9	129	87	45	3	0	2	0		
WA QUILLAYUTE	65	54	68	50	60	1	.2	-.4	.1	1.9	51	50.1	92	98	70	0	0	3	0		
SEATTLE-TACOMA	70	56	77	53	63	-2	.3	-.1	.2	2.0	125	18.9	97	96	60	0	0	5	0		
SPOKANE	73	52	77	49	62	-7	.4	-.3	.3	2.3	167	7.6	82	87	39	0	0	3	0		
YAKIMA	79	49	84	46	64	-6	.1	-.0	.1	1.3	220	3.4	79	86	36	0	0	0	0		
WV BECKLEY	81	62	85	51	72	3	.4	-.7	.4	5.1	89	21.2	91	89	53	0	0	2	0		
CHARLESTON	86	65	93	55	75	1	.4	-.8	.3	3.8	74	20.8	91	93	52	3	0	3	1		
HUNTINGTON	87	65	92	53	76	0	.8	-.2	.7	4.3	84	19.9	88	92	50	0	0	4	1		
WI GREEN BAY	84	64	91	51	74	0	.6	-.3	.5	4.5	84	17.4	82	95	51	2	0	3	1		
LACROSSE	80	60	86	48	70	-3	1.1	-.2	.8	2.7	62	11.0	77	94	54	0	0	3	1		
MADISON	80	58	86	48	69	-1	2.0	1.2	1.9	4.5	87	12.8	81	88	43	0	0	4	1		
MILWAUKEE	78	62	88	57	70	0	.9	-.1	.8	4.6	95	12.9	78	91	49	0	0	3	1		
WAUSAU	76	55	81	47	65	-4	.4	-.5	.3	2.2	41	12.9	82	96	52	0	0	4	0		
WY CASPER	84	54	93	44	69	-1	.1	-.1	.1	1.4	89	5.3	74	80	21	2	0	3	0		
CHEYENNE	81	54	91	47	68	-1	.4	-.1	.2	2.7	101	7.1	87	80	27	1	0	3	0		
LANDER	81	53	89	47	67	-3	.1	-.0	.1	2.4	143	8.5	96	64	22	0	0	1	0		
SHERIDAN	76	52	86	46	64	-5	.4	-.2	.2	4.7	179	9.3	96	88	45	0	0	4	0		

Based on 1951-80 normals.

# June Weather in Historical Perspective

Nationally, June 1992 was cool and wet. The contiguous States' June average temperature was nearly 1°F below normal, the 23rd lowest since 1895 (table 1), and the lowest since 1983 (fig. 1). The areally weighted national precipitation index ranked this June as the 24th wettest (75th driest) in 98 years of recordkeeping (fig. 2), despite extreme dryness in the Midwest.

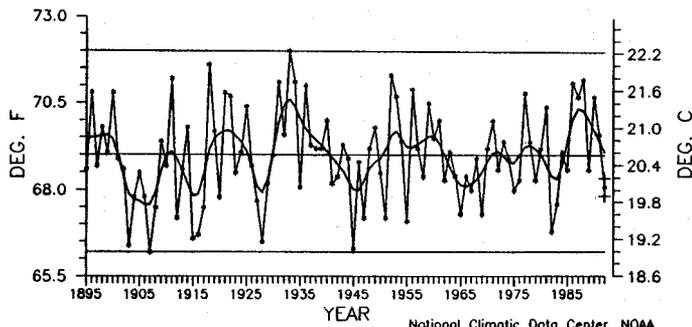
Six of nine regions ranked within the coldest third of their historical temperature distribution (table 1). The exceptions were the Northwest (4th warmest), West (30th warmest), and West North Central (39th warmest) regions. Both the Central and South regions recorded their 9th coldest June. In three regions (Northeast, East North Central, and Central), driest-third precipitation rankings accompanied the cool weather. In the Central region, 2 consecutive months of dry, cool weather have hindered crop development. Elsewhere, six regions received above-normal precipitation in June, led by the Southeast (4th wettest) and South (4th wettest) regions (table 1).

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

REGION	PRECIPITATION	TEMPERATURE
NORTHEAST	26	20
EAST NORTH CENTRAL	7	21
CENTRAL	25	9
SOUTHEAST	95	11
WEST NORTH CENTRAL	61	60
SOUTH	95	9
SOUTHWEST	72	29
NORTHWEST	84	95
WEST	79	69
NATIONAL	75	23

**Figure 1**

U.S. NATIONAL TEMPERATURE JUNE, 1895-1992



STRAIGHT HORIZONTAL LINES ARE:  
 MAXIMUM VALUE (TOP)  
 LONG-TERM AVERAGE (MIDDLE),  
 MINIMUM VALUE (BOTTOM)

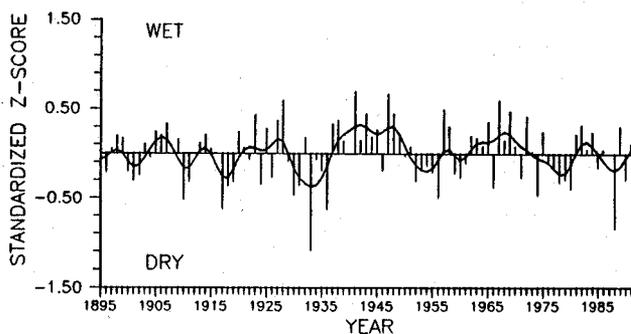
CONFIDENCE INTERVAL FOR CURRENT YEAR IS INDICATED BY "+".

Although June rainfall was above normal in the Northwest region (ID, OR, and WA), precipitation for the past year (July 1, 1991 to June 30, 1992) totaled only about 75 percent of normal (fig. 3). This was the driest July-to-June period in the Northwest since the record drought of 1976-77, and marks the eighth year in a row of normal to below-normal precipitation.

Nationally, the first half of 1992 was the 5th warmest such period since 1895. January-to-June temperatures averaged more than 1°F above normal during 4 of the past 7 years (1992, 1990, 1987, 1986). Montana and Washington experienced their warmest start to a year. The 6-month (January to June) precipitation was nearly normal nationally, but six Corn Belt States (IL, IN, MI, MO, OH, and WI), along with Idaho and New Jersey, had one of their ten driest, or drier, starts to a year. In contrast, Texas tallied its wettest first half of a year on record. Thunderstorms produced a record 421 tornadoes (preliminary count) in June (fig. 4), primarily due to a vicious mid-month front that tore through the Plains and Midwest.

**Figure 2**

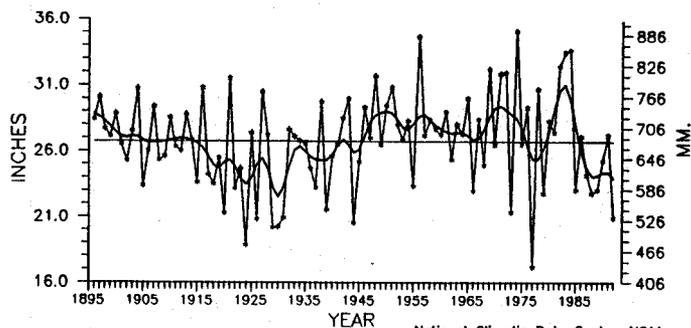
U.S. NATIONAL WEIGHTED MEAN PRECIPITATION INDEX JUNE, 1895-1992



National Climatic Data Center, NOAA

**Figure 3**

NORTHWEST REGION PRECIPITATION JULY-JUNE, 1895-96 to 1991-92



National Climatic Data Center, NOAA

(Continued to p. 31)

## National Agricultural Summary

July 6 - 12, 1992

**HIGHLIGHTS:** Small grain harvest was slowed by showers from the Rocky Mountains eastward, and some hail losses occurred. Torrential rain caused widespread flooding across parts of central Ohio Sunday evening.

**SMALL GRAINS:** Winter wheat harvest progressed well, reaching 65 percent (%) complete in the 19 major producing States, 11 percentage points behind last year and 8 points behind the 5-year average. Harvest was well along in the southern Plains and Southeast, and in full swing from the central Rocky Mountains to the western Ohio Valley. Below-normal temperatures in the northern Rocky Mountains and Great Plains kept progress of spring wheat heading behind last year and the historic average. Eighty-three percent of the spring wheat headed in the five major States, compared with 91% last year and 89% average. Much-needed rains improved spring wheat condition in each of the five States, with the crop in mostly good to fair condition. Barley harvest was under way in the Pacific Northwest, and heading advanced in the Rocky Mountains and upper Mississippi Valley. Oats harvest was beginning in the middle Mississippi Valley.

**CORN:** Corn silking progress remained notably later than usual, with 11% of the corn acreage silking in the 17 major producing States, 32 points behind last year and 17 points behind the average. The crop was most delayed in the Corn Belt. Crop condition improved significantly in response to rains in the Corn Belt, while drier weather in the Southeast lowered crop condition slightly.

**SOYBEANS:** Soybean bloom also remained delayed, with blooms evident on 24% of the acreage in the major States, 17 points behind last year and 11 points behind the historic average. Rains improved crop condition, with ratings averaging mostly good to fair in the 19 major producing States. Double-crop soybean planting continued in the central and southern producing States.

**COTTON:** Progress of cotton squaring remained behind schedule due to late development of acreage in the southern Plains and Southeast. Squaring was evident on 64% of the acreage, compared with 71% last year and 75% average. Bolls were setting on 23% of the acreage, 2 points behind last year and 4 points behind the average. Crop condition continued to improve in most of the major States, but dropped due to dry weather in the extreme southeast.

**GRAIN SORGHUM:** Heading of grain sorghum advanced to 23% complete in the 12 major States, 3 points behind last year but matching the 5-year average. The crop was advanced in the Delta and Gulf, but was behind schedule in the

middle Mississippi Valley. Average crop condition for the 12 States improved following rains, with predominately good ratings in all major producing States. Midge was threatening late-planted fields in Texas.

**RICE:** Rice heading reached 20% complete in the five major States, 2 points ahead of last year and 3 points ahead of the average. Heading progress continued ahead of normal in the Delta, but remained well behind in Texas. Crop condition improved in Arkansas and Louisiana, with good conditions in all major States. Rice sheath blight was increasing in east-central Arkansas.

**OTHER FIELD CROPS:** Second-cut haying progressed between rains, while first-cut haying continued in the northernmost States. Summer potato harvest continued in California's Perris-Hemet district, as did the California sugar beet harvest. Tobacco harvest progressed in Florida and Georgia. Sweetpotato planting was nearly complete in Louisiana and Mississippi.

**FRUIT AND NUTS:** Grapes, oranges, and grapefruits were being harvested in Arizona. California Clingstone peach harvest began, and the Freestone peach crop was 60 percent picked. California nectarine, plum, table grape, and Valencia orange harvests continued. Florida's Valencia orange harvest was nearly complete. Peach harvest progressed in the Delta, Carolina's, and Texas, and began in the Pacific Northwest. Blueberry harvest was beginning in southern New England. Tart cherry harvest continued in Oregon and Utah. Oregon apple harvest was beginning. Precipitation slowed Washington's raspberry harvest and split blueberries.

**VEGETABLES:** Arizona's melon, onion, and cabbage harvests continued. California's fresh market vegetable harvests remained active, and the processing tomato harvest in the San Joaquin Valley progressed. Tomato harvest was almost complete in northern Florida, as was the commercial sweet corn and pepper harvest. New Jersey's summer vegetable harvests were in full swing, and the New York sweet corn harvest started.

**PASTURES AND LIVESTOCK:** Heat stress was causing poultry losses in southwest Arkansas. Pasture and range feed condition improved following rains from the Rocky Mountains eastward. Cattle were being moved off rangeland early due to dryness in southern Oregon.

### Crop Progress

for the Week Ending July 12, 1992

#### COTTON (Percent Squaring)

	Current	Last Wk	1991	Avg.
AL	90	85	87	92
AZ	98	93	96	98
AR	98	91	96	95
CA	90	80	85	88
GA	89	85	94	97
LA	98	96	86	86
MS	96	89	80	89
MO	88	75	83	91
NM	70	62	81	85
NC	49	35	89	73
OK	30	21	44	43
SC	83	67	94	78
TN	80	66	66	82
TX	38	28	56	62
14 States	64	55	71	75

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

#### COTTON (Percent Setting Bolls)

	Current	Last Wk	1991	Avg.
AL	24	8	21	32
AZ	68	47	62	76
AR	31	5	32	41
CA	20	5	5	17
GA	28	16	51	56
LA	60	21	28	39
MS	42	26	30	45
MO	13	3	14	34
NM	22	7	39	26
NC	12	4	46	45
OK	0	0	5	6
SC	6	1	56	34
TN	13	2	12	18
TX	15	10	23	17
14 States	23	12	25	27

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

#### SPRING WHEAT (Percent Headed)

	Current	Last Wk	1991	Avg.
ID	89	83	66	86
MN	90	72	99	97
MT	70	52	75	65
ND	81	62	93	92
SD	100	99	100	100
5 States	83	67	91	89

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

#### GRAIN SORGHUM (Percent Headed)

	Current	Last Wk	1991	Avg.
AR	51	26	26	26
CO	0	0	0	0
IL	7	2	23	15
KS	1	0	5	3
LA	70	54	55	48
MS	69	44	30	37
MO	11	3	15	14
NE	0	0	0	1
NM	1	0	0	NA
OK	3	3	5	10
SD	0	0	1	0
TX	61	56	69	60
12 States	23	19	26	NA

Excl. States with NA 23 19 26 23

NA - not available.

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

#### RICE (Percent Headed)

	Current	Last Wk	1991	Avg.
AR	5	0	0	1
CA	0	0	0	0
LA	60	54	50	40
MS	19	11	5	11
TX	33	26	61	58
5 States	20	15	18	17

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

#### SOYBEANS (Percent Blooming)

	Current	Last Wk	1991	Avg.
AL	15	3	6	16
AR	15	5	11	8
GA	26	10	25	24
IL	37	19	77	55
IN	28	7	57	40
IA	30	15	31	44
KS	15	5	35	25
KY	12	7	24	20
LA	29	6	3	14
MI	12	3	35	20
MN	17	10	30	43
MS	15	9	15	16
MO	22	12	26	29
NE	9	3	33	31
NC	13	4	12	8
OH	30	11	87	41
SC	4	1	11	6
SD	23	14	43	34
TN	12	6	7	10
19 States	24	11	41	35

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

#### CORN (Percent Silking)

	Current	Last Wk	1991	Avg.
CO	2	0	1	0
GA	95	94	98	98
IL	18	3	83	51
IN	6	4	60	33
IA	0	0	23	19
KS	30	20	60	40
KY	40	19	61	44
MI	0	0	25	10
MN	1	0	3	3
MO	30	13	61	50
NE	4	0	38	24
NC	71	39	87	73
OH	10	0	60	31
PA	0	0	14	4
SD	0	0	13	8
TX	70	62	81	76
WI	0	0	22	9
17 States	11	5	43	28

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

#### WINTER WHEAT (Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	100	99	100	99
CA	90	75	85	85
CO	55	6	38	36
GA	100	98	100	100
ID	3	0	0	0
IL	66	45	99	96
IN	32	25	94	79
KS	95	60	100	95
MI	0	0	50	25
MO	74	45	100	96
MT	0	0	0	5
NE	28	6	71	65
NC	91	66	99	96
OH	7	2	99	55
OK	92	85	100	100
OR	8	3	3	2
SD	6	0	28	27
TX	91	75	95	96
WA	14	5	0	2
19 States	65	46	76	73

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

**Crop Condition**  
(Percent)

for the Week Ending July 12, 1992

**CORN**

State	VP	P	F	G	EX
CO	1	5	25	58	11
GA	0	0	18	62	20
IL	0	1	44	52	3
IN	0	4	25	62	9
IA	1	1	23	55	20
KS	6	1	31	45	17
KY	0	1	8	63	28
MI	5	10	30	45	10
MN	0	6	40	52	2
MO	3	10	43	40	4
NE	2	1	19	69	9
NC	0	2	21	66	11
OH	1	5	26	53	15
PA	1	5	22	50	22
SD	1	7	24	51	17
TX	0	0	8	68	24
WI	2	13	43	40	2
17 State	1	4	29	55	11
Prev Week	1	9	38	45	7
Prev Year	1	4	29	53	13

**SOYBEANS**

State	VP	P	F	G	EX
AL	0	0	13	76	11
AR	0	0	23	77	0
GA	0	0	25	74	1
IL	0	1	45	53	1
IN	0	3	32	59	6
IA	1	1	20	63	15
KS	0	0	31	43	26
KY	0	0	24	64	12
LA	0	3	66	31	0
MI	0	5	30	55	10
MN	1	4	48	46	1
MS	0	1	41	57	1
MO	4	7	48	41	0
NE	0	1	9	78	12
NC	0	2	23	73	2
OH	1	6	30	52	11
SC	0	0	52	42	6
SD	1	4	16	66	13
TN	0	0	24	66	10
19 State	1	2	33	57	7
Prev Week	1	6	41	48	4
Prev Year	1	5	33	55	6

**COTTON**

State	VP	P	F	G	EX
AL	0	0	23	59	18
AZ	0	0	15	60	25
AR	0	0	11	81	8
CA	0	0	5	80	15
GA	0	8	19	73	0
LA	0	2	23	65	10
MS	0	0	14	85	1
MO	0	0	36	55	9
NM	13	13	27	47	0
NC	0	2	50	48	0
OK	0	6	63	31	0
SC	0	1	80	19	0
TN	0	3	41	51	5
TX	11	23	52	12	2
14 State	5	11	37	42	5
Prev Week	8	11	37	40	4
Prev Year	2	1	45	47	5

**GRAIN SORGHUM**

State	VP	P	F	G	EX
AR	0	0	16	80	4
CO	0	2	24	66	8
IL	0	0	23	77	0
KS	0	8	23	55	14
LA	0	0	48	52	0
MS	0	0	22	78	0
MO	1	4	42	52	1
NE	0	2	13	71	14
NM	0	2	27	71	0
OK	0	1	17	82	0
SD	0	14	21	60	5
TX	0	2	30	52	16
12 State	0	4	25	59	12
Prev Week	0	2	31	56	11
Prev Year	0	3	37	52	8

**SPRING WHEAT**

State	VP	P	F	G	EX
ID	1	9	27	57	6
MN	0	2	25	65	8
MT	3	24	25	40	8
ND	0	2	34	50	14
SD	2	8	29	55	6
5 State	1	7	30	51	11
Prev Week	4	8	30	49	9
Prev Year	1	3	14	67	15

**RICE**

State	VP	P	F	G	EX
AR	0	0	24	76	0
CA	0	0	20	75	5
LA	0	0	38	62	0
MS	0	0	44	56	0
TX	0	0	21	56	23
5 State	0	0	28	69	3
Prev Week	0	0	35	62	3
Prev Year	1	0	30	65	4

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

## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Rainfall mostly less than 1.00 in.; 2.00 to 3.00 in extreme south. Temperatures 2 to 4° above normal north; 3 to 6° above normal south. Lows mid 60s. Highs mid 90s; high 90s extreme south.

Days suitable for fieldwork 5.5. Soil moisture 42% short, 51% adequate, 7% surplus. Rains benefitted crops, pastures except in west central part of State. Corn 89% silked, 82% 1991, 86% avg.; 32% dented, 36% 1991, 42% avg.; 8% mature, 13% 1991, 18% avg.; 17% fair, 41% good, 42% excellent. Sorghum 8% fair, 89% good, 3% excellent. Peanuts 62% pegging, 67% 1991, 73% avg.; 91% good, 9% excellent. Winter wheat 98% harvested, 98% 1991, 96% avg. Pasture 2% very poor, 10% poor, 19% fair, 62% good, 7% excellent. Livestock 14% fair, 72% good, 14% excellent. Primary activities: Harvesting small grains, hay, potatoes, fruits, vegetables; cultivating row crops; scouting fields for insects, diseases; applying herbicides to peanuts, cotton, fungicides applied to peanuts; general care of livestock, poultry, catfish.

**ALASKA:** Rain brought much needed moisture to the railbelt. Highs 4° below normal to 2° above normal. Lows 1 to 7° above normal. Seasonal precipitation 2.27 in. wetter than normal at Fairbanks to 1.36 in, drier than normal at Homer.

Days suitable for fieldwork 4.0. Topsoil 26% short, 73% adequate, 1% surplus. Subsoil 19% short, 78% adequate, 3% surplus. Barley 35% in boot, 65% headed. Oats 65% in boot, 35% headed. Heights 15 in. First cutting hay over 40% complete comparable with progress 1991. Commercial potato heights 10 in. versus 13 in. 1991. Crop growth 8% slow, 42% moderate, 50% rapid.

**ARIZONA:** Sunny, hot 5th; thundershowers, warm, more humid 6th to 11th. Temperatures 3° below normal to 1° above. Extremes 46°; 104°, higher elevations, 62°; 118° deserts. Precipitation none to 0.50 west; trace to 1.14 central; 0.22 to 2.00 mountain. Year-to-date rainfall above normal to double normal for entire State.

Cotton squaring 98%, 96% 1991, 98% avg.; setting bolls 68%, 62% 1991, 76% avg.; 15% fair, 60% good, 25% excellent; weeds light to moderate; insects mostly light to moderate, severe in areas. Alfalfa mostly good; insects, weeds light to moderate statewide; harvest, generally active. Light to moderate rain damage. Small grains harvested, 99%, 98% 1991, 98% avg. Cantaloupe, watermelon, honeydews, grapes, oranges, grapefruit harvested west, central. Potatoes, mixed vegetables harvested, central. Dry onions, cabbage harvested central.

**ARKANSAS:** Temperatures averaged near normal, scattered showers first of week, northeast, central. Extremes 61°; 97°. Rainfall none to 1.25.

Days suitable for fieldwork 6. Soil moisture 11% short, 83% adequate, 6% surplus. Main farming activities: Planting soybeans, applying herbicide, fertilizer to rice, cultivating cotton, applying herbicide to soybeans, pasture weed control, hay harvesting, harvesting fescue seed, working cattle, harvesting peaches. Rice mid-season nitrogen being applied. Rice sheath

blight increasing in east central. Wheat harvest complete. Yields and quality reported good to excellent statewide. Cotton mostly fair to good. Weevil populations reported high in southwest. Soybeans emerged 92%, 89% 1991, 89% avg. Soybean plantings progressed as wheat harvested. Producers sprayed for weeds in east. Corn 5% fair, 78% good, 17% excellent. Denting in southeast. Oat harvested complete. Peach harvest continued across the State, nearing 75% harvested. Peach fair to good. Watermelon harvest continuing in southwest, mostly good. Tomatoes good. Blueberries, grapes good. Blueberry harvest nearly complete. Poultry producers losing large birds to heat stress in southwest. Livestock good. Fly, tick populations increasing in west. Pastures mostly good. Hay harvesting continued.

**CALIFORNIA:** Weak low pressure brought spotty precipitation near northern border. Below normal temperatures replaced by gradual warming. Remnants hurricane Darby brought clouds southern half State. Temperatures cooled late in week.

Open weather permitted good progress field activities. Small grain harvest active; straw baling, stubble burning, discing followed. Many harvested fields prepared second crop seedings. Growth cotton, rice, safflower slowed, cool weather early week; improved as temperatures warmed. Rice fertilized, treated broadleaf weeds, water weevils. Cotton, alfalfa sprayed lygus, mites, worms. Corn, alfalfa green chopped. Corn irrigated, sprayed mites. Sugarbeets treated mildew. Garbanzo beans, sugarbeets harvested. Alfalfa hay harvest normal. Stonefruit harvested, packed. Clingstone peach harvest began. Freestone peach crop 60% picked. One half nectarines picked. Plum harvest nearly one half complete. Due to previous weeks rain, some stonefruit brown rot occurred. Table grape harvest continued. Grape growers irrigated, treated mildew, leaf hoppers. Almond orchards treated Navel Orange Worm, mites. Almond hull split began. Valencia orange harvest continued, slow pace while red scale treated. Avocado harvest slowed. Strawberry harvest continued good demand, variable quality central coast. Broccoli moderate, good quality Salinas Watsonville, Santa Maria. Cauliflower fairly light Salinas Watsonville, light in Santa Maria variable quality. Carrot harvest continued Westside area. Celery fairly heavy, good quality Salinas Watsonville; moderate, variable quality Santa Maria. Sweet corn harvest continued statewide good quality. Iceberg lettuce moderate Salinas Watsonville, fairly heavy Santa Maria variable quality. Leaf, Romaine lettuce moderate, variable quality Salinas Watsonville. Cantaloupe, honeydew, watermelon, mixed melons continued central valley, desert areas good quality. Spring onion digging continued central valley, desert growing areas. Summer potato harvest continued active Perris Hemet district, good quality. Fresh market tomato picking active central valley areas. Processing tomato harvest San Joaquin Valley progressed, good quality. Other vegetables harvested: beans, cucumbers, garlic, peppers, various oriental vegetables. Conditions poor to good. Some mountain areas dry. Others helped by cool temperatures. Fire hazard

high, lower foothills. Water supply problem some areas, adequate overall. Milk production increased due to cooler temperatures. Supplemental feeding active. Culling of low productive stock.

**COLORADO:** Moisture moved into State on 7th. Heavy rain on the 8th to 9th on eastern plains with entire State receiving precipitation. Temperatures near normal except in eastern plains which were 1 to 3° below normal.

Days suitable for fieldwork 5.8. Soil moisture 3% very short, 29% short, 65% adequate, 3% surplus. Alfalfa 2nd cutting 20%, 16% 1991, 13% avg. Barley headed 90%, 82% 1991, 88% avg.; turning color 38%. Oats headed 92%, 77% 1991, 77% avg.; turning color 41%. Spring wheat headed 85%, 52% 1991, 77% avg.; turning color 7%. Dry beans emerged 98%, 95% 1991, 97% avg. Sorghum emerged 89%, 95% 1991, 92% avg. Winter wheat harvested 55%, 38% 1991, 36% avg. Corn 1% very poor, 5% poor, 25% fair, 58% good, 11% excellent. Livestock mostly good. Pasture, range feed good to excellent.

**FLORIDA:** Typical summertime weather. Temperatures; 2 to 4° above normal most locations, Panhandle 4 to 6° above normal. Rainfall; under 1.00 in. most locations, few isolated locations 1.00 to 2.00 in.

Soil moisture mostly adequate to surplus. Tobacco harvesting, haying active. Soybean planting complete. Tobacco farms preparing for market to open July 15th. Corn, cotton, peanuts, sugarcane making good progress. Record high, near record high temperatures. Scattered rain all areas, up to 1.50 in. some storms. Spraying for high insect population some areas. Harvest Valencia oranges near complete. Hot, dry, with only scattered showers in major vegetable producing areas. Tomato harvest in north almost complete. Commercial sweet corn, pepper harvest complete. Watermelon harvest almost complete. Land preparation, laying of plastic for fall crops active in north. State's pastures good to excellent. Pasture 80% good, 20% excellent. State's cattle herds good to excellent.

**GEORGIA:** Temperatures 2 to 4° above normal north, 3 to 6° above normal south. Extreme highs low to mid 90s northern third to upper 90s to near 100° elsewhere. Columbus, Savannah, Jesup all recorded highs of 100°. Lows near 60° mountains to lower 70s. Rain widely scattered, more numerous western half. Rain 1 to 2 days stations that received any. Amounts less than 1.00 in. except Fargo 1.30 in., Camilla with 1.20, Macon with 1.19 in.

Days suitable for fieldwork 5.8. Soil moisture 36% short, 61% adequate, 3% surplus. Corn 18% fair, 62% good, 20% excellent; 78% dough, 91% 1991, 88% avg.; 46% dent, 72% 1991, 63% avg.; 7% mature, 25% 1991, 18% avg.; 0% harvested for grain, 1% 1991, 1% avg. Cotton 8% poor, 19% fair, 73% good. Insect pressure increasing, spraying active. Sorghum 30% fair, 69% good, 1% excellent; 99% planted, 98% 1991, 97% avg. Peanuts 3% very poor, 22% fair, 75% good; 96% blooming, 98% 1991, 97% avg.; 68% pegging, 83% 1991, 83% avg.; Spraying for disease, irrigating. Soybeans 25% fair, 74% good, 1% excellent; 100% planted, 99% 1991, 98% avg.; 4% setting pods, 5% 1991, 5% avg. Tobacco 17% fair, 83% good; 27% harvested, 45% 1991, 33% avg. Wheat harvest virtually complete. Watermelons 28% poor, 59% fair, 13% good; 74% harvested, 88% 1991, 80% avg. Other vegetables 13% poor, 41% fair, 46% good; volume, demand

good most seasonal vegetables. Apples 1% poor, 29% fair, 70% good; 0% harvested, 5% 1991, 3% avg. Peaches 3% very poor, 2% poor, 16% fair, 79% good; 76% harvested, 86% 1991, 84% avg. Hay harvest active. Hay, pasture fair to good, mostly good. Cattle, hogs good, some problems from heat. Activities: Weed, grass control, irrigating row crops, harvesting hay, vegetables, peaches. Spraying for insects, disease, providing special care to livestock, poultry due to hot weather.

**HAWAII:** Cloud remnants from tropical system Celia east of State brought showers across most of the islands at midweek. Welcome rainfall helped restore reservoir levels, replenish soil moisture. Sunny skies returned by weekend. Temperatures varied high 60s to high 80s. Trade winds 5 to 25 mph. Rainfall none to 6.10 inches.

Days suitable for fieldwork 7.0. Midweek rains slowed farm activities, fields were drying by weekend. Widespread rain aided most crops, orchards, pastures. Sugarcane crop benefited from rain, planting resumed some areas previously delayed due to dry conditions. Papaya orchards experienced fruit set gap possibly lowering future production. Insects, disease, weather adversely affected watermelon crop.

**IDAHO:** Temperatures were below normal throughout the State. Precipitation reported statewide except for the south central area.

Days suitable for fieldwork 6. Soil moisture 15% very short, 36% short, 49% adequate. Winter wheat 2% very poor, 9% poor, 38% fair, 45% good, 6% excellent. Spring barley headed 85%, 66% 1991, 85% avg. Potatoes 97% over 12 in., 64% closing middles. Potato good. First cutting alfalfa 96%, 92% 1991, 95% avg.; second cutting 23%, 10% 1991, 9% avg. Cherries harvested 99%, 57% 1991, 92% avg. Mint 1st cutting 10%, 0% 1991, 1% avg. Peach harvest 3% complete. Irrigation water supplies 18% very poor, 25% poor, 38% fair, 19% good. Activities: Cultivating, 2nd cutting alfalfa, irrigation, harvesting of winter wheat. Pasture, range 63% of normal. Livestock good.

**ILLINOIS:** Southern winds pulled up abundant moisture last week, resulting in widespread rains over northern, central areas. Temperatures mid 60s to the mid 80s across State. Precipitation 1.00 to 2.00 in. throughout State.

Days suitable for fieldwork 4.25. Soil moisture 55% short, 45% adequate. Corn average height 55 in.; 72 in. 1991, 66 in. avg. Height advanced 71 in., 89 in. 1991, 86 in. avg.; in dough stage 1%, 21% 1991, 7% avg. Soybeans setting pods 4%, 37% 1991, 17% avg. Winter wheat ripe 99%, 100%, 1991, 100% avg. Alfalfa second cutting 62%, 76% 1991, 66% avg.; 37% good, 52% fair, 10% poor, 1% very poor. Red clover cut 95%, 97% 1991, 95% avg. Oats filled 96%, 100% 1991, 99% avg.; turning yellow 74%, 93% 1991, 85% avg.; ripe 27%, 85% 1991, 61% avg.; harvested 4%, 66% 1991, 31% avg.; 1% excellent, 50% good, 45% fair, 4% poor. Pasture 67% of normal.

**INDIANA:** Temperatures 1 to 4° below normal north, central, 1 to 2° above normal far south. Highs 80 to 90°. Lows, low 60s to low 70s. Precipitation 0.75 to 5.00 in.

Days suitable for fieldwork 3.9. Topsoil 21% short, 64% adequate, 15 surplus. Subsoil 44% short, 52% adequate, 4% surplus. Corn height 53 in., 70 in. 1991, 56 in. avg. Soybean height 15 in., 21 in. 1991, 16 in. avg. Wheat ripe 73%, 100% 1991, 92% avg. Oats harvested 9%, 56% 1991, 35% avg. Rye harvested 21%, 88% 1991, 60% avg. Pasture 79%, 75% last week, 67% 1991. Corn, soybean improved due to rain.

**IOWA:** Temperatures 0 to 4° below normal. Extremes 53°; 92°. Rainfall 0.52 to 9.57 in. average 2.92 in. Wettest week in 15 months.

Days suitable for fieldwork 3.8. Topsoil 32% short, 60% adequate 8% surplus. Subsoil 32% short, 68% adequate. Winter wheat 17% very poor, 9% poor, 46% fair, 28% good. Hay 1% very poor, 23% poor, 46% fair, 26% good, 4% excellent. Oats 1% very poor, 6% poor, 42% fair, 44% good, 7% excellent. Pasture 1% very poor, 31% poor, 39% fair, 21% good 5% excellent. Corn tasseling 10%, 43% 1991, 36% avg. Soybeans cultivated first time 90%, 85% 1991, 92% avg. Oats headed 100%, 100% 1991, 100% avg.; turning color 75%, 94% 1991, 93% avg. Winter wheat harvested 10%, 77% 1991, 64% avg. Second cutting alfalfa 25% harvested, 38% 1991, 42% avg. First cutting clover 95% harvested, 100% 1991, 96% avg. Livestock mostly good.

**KANSAS:** Temperatures near normal, 1 to 2° below north central, northeast; 1 to 2° above elsewhere. Rainfall recorded all areas; generally light southwest, south central. Heavy eastern third; moderate elsewhere.

Days suitable fieldwork 4.5. Surface moisture 10% short, 79% adequate, 11% surplus. Sub-surface moisture 15% short, 82% adequate, 3% surplus. Wheat harvest good progress, nearing completion. Only wet spots remaining for harvest many areas. Sorghum, soybean planting nearing completion on schedule. Some replanting hailed or washed out stands scattered localities. Range, pastures generally good to excellent; grazing adequate. Stockwater adequate to surplus most areas. Second cutting alfalfa 75% complete, third cutting starting southern areas.

**KENTUCKY:** Below normal rainfall. High temperatures 85 to 90° slightly above normal. Low temperatures 65 to 70°. Rainfall 0.30 to 0.90 in., heaviest north.

Days suitable fieldwork 4.6. Soil moisture 16% short, 74% adequate, 10% surplus. Hot, humid weather caused severe afternoon thunderstorms. Early tobacco plants blooming. Soybean planting nearly complete. Corn 40% silked, 61% 1991, 44% avg. Hay 6% poor, 39% fair, 48% good, 7% excellent. Pasture remain good to excellent.

**LOUISIANA:** Temperatures 0.6 to 2.2° above normal. Extremes 64°; 99°. Rainfall none most areas to 0.39 in. southeast.

Days suitable for fieldwork 6.4. Soil moisture 3% very short, 22% short, 75% adequate. Corn 1% poor, 5% fair, 91% good, 3% excellent; 84% dough stage, 73% 1991, 77% avg. 17% mature, 14% 1991, 12% avg. Hay 93% first cutting, 68% 1991, 85% avg. Peaches 74% harvested, 73% 1991, 66% avg. Rice 3% ripe, 5% 1991, 3% avg. Stink bugs causing problems, southwest. Soybeans 100% planted, 95% 1991, 95% avg.; 99% emerged, 88% 1991, 90% avg. Weed control active. Sugarcane 1% fair, 69% good, 30% excellent. Borer infestations increasing. Sweet potatoes 16% fair, 84% good; 98% planted, 95% 1991, 94% avg. Livestock 22% fair, 72% good, 6% excellent. Pastures 3% fair, 95% good, 2% excellent. Vegetables 3% poor, 62% fair, 35% good, 3% excellent. Scouting for insects, weed control active in cotton.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 0.45 in. Temperatures 75.4°, normal 75.6°. Extremes 44°; 96°.

Days suitable for fieldwork 6.1. Topsoil 19% very short, 43% short, 33% adequate, 5% surplus. Subsoil 10% very short, 52% short, 33% adequate,

5% surplus. Soybeans 82% planted, 95% 1991, 90% avg.; barley 91% harvested, 99% 1991, 96% avg. Wheat harvest 62%, 95% 1991, 82% avg. Pastures good. Alfalfa second cutting 61%, other hay 21%. Harvest of green peas nearing completion. Most crops could use more warm temperatures. Japanese beetle sightings.

**DELAWARE:** Precipitation 0.18 in. Temperature 75.0°, normal 76.3°. Extremes 58°; 95°.

Days suitable for fieldwork 6.6. Topsoil 17% short, 83% adequate. Subsoil 83% short, 17% adequate. Soybeans 90% planted, 98% 1991, 88% avg. Wheat harvest 80%, 98% 1991, 89% avg.

**MICHIGAN:** Temperatures 1 to 5° below normal. Extremes 40°; 87°. Precipitation 0.08 to 3.68 in. across the State.

Days suitable for fieldwork 5.5. Soil moisture 50% short, 50% adequate. Corn 0% silked, 25% 1991, 10% avg.; 5% very poor, 10% poor, 30% fair, 45% good, 10% excellent. Soybeans 12% blooming, 35% 1991, 20% avg.; 5% poor, 30% fair, 55% good, 10% excellent. Winter wheat 75% turning, 100% 1991, 97% avg.; 0% harvested, 50% 1991, 25% avg.; 2% very poor, 8% poor, 35% fair, 45% good, 10% excellent. Pasture 60% of normal. Major activities: Cultivating, sidedressing, weed spraying.

**MINNESOTA:** Temperatures 3 to 7° below normal. Extremes 41°; 87°. Precipitation 0.44 to 1.84 in. across State. Greatest weekly total 4.02 in.

Days suitable for fieldwork 4.2. Topsoil 1% very short, 6% short, 69% adequate, 24% surplus. Spring wheat 90% heading, 99% 1991, 97% avg.; 10% turning ripe, 31% 1991, 38% avg. Oats 96% heading, 96% 1991, 97% avg.; 20% turning ripe, 64% 1991, 59% avg. Barley 91% heading, 100% 1991, 98% avg.; 19% turning ripe, 54% 1991, 51% avg. Corn 41 in. avg. height, 53 in. 1991, 52 in. avg.; 5% tasseling, 19% 1991, 21% avg. Soybeans 14 in. height, 15 in. 1991, 17 in. avg.; 17% blooming, 30% 1991, 43% avg. Spring wheat 2% poor, 25% fair, 65% good, 8% excellent. Oat 4% poor, 28% fair, 60% good, 8% excellent. Barley 1% poor, 25% fair, 61% good, 13% excellent. Dry bean 10% poor, 44% fair, 94% good, 2% excellent. Soybean 1% very poor, 4% poor, 48% fair, 46% good, 1% excellent. Corn 6% poor, 40% fair, 52% good, 2% excellent. Sugarbeet 19% fair, 70% good, 11% excellent.

**MISSISSIPPI:** Temperatures 82°, 1.3° above normal. Extremes 61°; 99°. Most of the State received little or no rainfall, average 0.22 in., 0.91 in. below average. Soil temperatures 87°.

Days suitable for fieldwork 6.2, 5.5 1991, 4.1 avg. Soil moisture 4% very short, 50% short, 46% adequate. Corn 91% silking, 85% 1991, 85% avg.; dough 45%, 55% 1991, 50% avg.; dented 17%, 33% 1991, 28% avg.; 7% fair, 83% good, 10% excellent. Cotton 96% squaring, 80% 1991, 89% avg.; 42% setting bolls, 30% 1991, 45% avg.; 14% fair, 85% good, 1% excellent. Rice 19% heading, 5% 1991, 11% avg.; 44% fair, 56% good. Sorghum 69% heading, 30% 1991, 37% avg.; 22% fair, 78% good. Soybeans 96% planted, 94% 1991, 97% avg.; 91% emerged, 86% 1991, 83% avg.; 15% blooming, 15% 1991, 16% avg.; 3% podding, 6% 1991, NA avg.; 1% poor, 41% fair, 57% good, 1% excellent. Sweet potatoes 97% planted, 96% 1991, 97% avg. Watermelons 26% harvested, 38% 1991, 32% avg. Wheat 99% harvested, 100% 1991, 100% avg. Hay harvested 65%, 59% 1991, 51% avg. Peaches 70% harvested, 77% 1991, 75% avg.; 25% poor, 42% fair, 30% good, 3% excellent. Pecans 8% very poor, 39% poor, 20% fair, 30% good, 3% excellent. Livestock 13% fair, 82% good, 5% excellent. Pasture 89% of normal. Activities: Insect control, cultivation.

**MISSOURI:** Rainfall 1.55 in., ranging from less than 0.25 in. south central, southeast to over 3.00 northwest. Localized parts Harrison County over 9.00 in. rain.

Days suitable for fieldwork 4.6. Topsoil 51% short, 46% adequate, 3% surplus. Subsoil 58% short, 42% adequate. General rains improving row crops, pastures, but delaying wheat harvest. Corn silking 15% or less northern districts, 30% central districts, 96% southeast. Double crop soybean planting 78%, 97% 1991, 92% avg., varying by district from 36% northeast to 100% southeast. Sorghum heading 20% southeastern district, just beginning most central, northern counties. Wheat harvest varies less than 55% northwestern, northeastern districts to 100% southeast. Oats harvested 29%, 78% 1991, 77% avg. Alfalfa second cutting 60%, 73% avg. Other hay cut 82%, 86% 1991, 84% avg. Pasture 9% very poor, 21% poor, 39% fair, 28% good, 3% excellent.

**MONTANA:** Temperatures below normal. Precipitation received statewide.

Days suitable for fieldwork 3.1. Topsoil 12% short, 72% adequate, 16% surplus. Subsoil 40% short, 55% adequate, 5% surplus. Winter Wheat 98% headed, 100% 1991, 96% avg.; 9% very poor, 27% poor, 24% fair, 33% good, 7% excellent. Barley 84% headed, 82% 1991, 85% avg. Oats 81% headed, 78% 1991, 84% avg. Pasture, range feed 75%, up 12 points from last week. Alfalfa hay 73% harvested, 72% 1991, 84% avg.

**NEBRASKA:** Temperatures 1 to 4° below normal. Precipitation occurred throughout the week varying from trace amounts in Valentine to 3.18 inches in Omaha.

Days suitable for fieldwork 3.9. Topsoil 13% short, 80% adequate, 7% surplus. Subsoil 14% short, 85% adequate, 1% surplus. Wheat harvest slowed by showers. Some hail loss to wheat, row crop. Row crop development about 10 days behind normal. Wheat 9% very poor, 18% poor, 50% fair, 23% good; 83% ripe, 80% 1991, 84% avg.; 28% harvested, 71% 1991, 65% avg. Corn 2% very poor, 1% poor, 19% fair, 69% good, 9% excellent; 4% silking, 38% 1991, 24% avg. Soybean 1% poor, 9% fair, 78% good, 12% excellent; 9% blooming, 33% 1991, 31% avg. Sorghum 2% poor, 13% fair, 71% good, 14% excellent. Alfalfa 1% poor, 26% fair, 65% good, 8% excellent; second cutting 44%, 39% 1991, 49% avg. Pasture, range 92% of normal.

**NEVADA:** Rainfall generally very light scattered over south, east early in week, later in week showers over much of State. Some showers quite heavy, caused some flash flooding. Temperatures slightly below normal northern areas and slightly above south central.

Irrigation water supplies 60% very short, 20% short, 20% adequate. Most crops two weeks ahead of normal development. Winter wheat 100% headed, 95% 1991, 95% avg. Spring wheat 80% headed, 55% 1991, 70% avg. Barley 85% headed, 70% 1991, 70% avg. First cutting alfalfa 85% complete, 70% 1991, 80% avg.; second cutting 10%, 5% 1991, 15% avg. Pasture, range poor to fair northern two thirds, good to excellent extreme south. Stockwater 75% short, 25% adequate.

**NEW ENGLAND:** Precipitation 0.15 to 0.90 in. Connecticut, Rhode Island, 0.60 to 1.60 in. Massachusetts, New Hampshire, Maine 0.70 to 2.10 in., Vermont up to 2.35 in. Temperatures low 60s to mid 70s; 0° to 5° below normal. Maximum temperatures mid 70s to low 90s; minimum temperatures mid 40s to high 50s.

Days suitable for fieldwork 6. Soil moisture 26% short, 59% adequate, 15% surplus. Available grazing 36% short, 64% adequate. Fieldwork progress 4 days behind schedule. Maine potatoes good. Rhode Island potatoes good. Connecticut River Valley potatoes good. Maine oats fair to good. Field corn in good. Sweet corn 100% emerged, 100% 1991, 100% avg.; good. First cut hay 86% harvested, 95% 1991, 88% avg.; fair. Second cut hay 15% harvested, 20% 1991, 14% avg.; fair to good. Shade tobacco fair to good. Outdoor tobacco fair to good. Apple set, fruit drop average, scab infection light. Pear, peach set average. Cranberries in full bloom stage. Strawberries set average, 91% harvested. Blueberry set average, harvest beginning in the south. Major farm activities: Irrigating, spraying for pests and weed control, mowing, harvesting vegetables, strawberries, haying.

**NEW JERSEY:** Temperatures near normal. Extremes 49°; 95°. Rainfall 1.28 in. north, 0.81 in. central, 0.20 in. south. Heaviest 24 hour total 1.37 in. on 8th, 9th. Estimated soil moisture, in percent field capacity, averaged 83% north, 70% central, 49% south. Four inch soil temperatures averaged 69° north, 72° central, 74° south.

Soil moisture content short in southern areas. Eggplant light, increasing volume. Tomatoes, sweet corn, Cuban, yellow hot peppers, moderate, increasing volume. Spinach, parsley, collard, broccoli rabe, kale, light, decreasing volume. Leeks, green onions, turnips, moderate supply. Blueberries in limited volume. Raspberries, blackberries being picked in south. Squash, cabbage, cucumbers, beans in good volume. Light wheat harvest. Barley, rye harvest advanced in central areas. Pastures, field crops need more rain.

**NEW MEXICO:** After a hot start, clouds, scattered showers helped moderate temperatures toward the weekend. Extremes 44°; 107°. Some precipitation fell at most locations with a few receiving over 1.00 in., but most under 0.50 in.

Days suitable for fieldwork 6.5. Soil moisture 65% short, 35% adequate. Crop conditions: Alfalfa, 14% fair, 84% good, 2% excellent. Corn, 13% fair, 87% good. Wheat harvest 96% complete with remaining crop in poor to good. Onions 14% fair, 86% good with harvest still underway, yield reports very good. Chile 44% fair, 56% good. Apples 20% fair, 80% good with average to heavy fruit set. Pecans 14% poor, 14% fair, 72% good with an average nutset. Cattle, sheep fair to excellent. Range 94% of normal.

**NEW YORK:** Cool weather continued. High temperatures in 70s, lows in 50s. Extremes 46°; 94°. Rainfall above normal, varied greatly due to showery nature of the precipitation, between 1.00 to 2.00 in., although extremes were as high as 2.75 in. as low as 0.20 in. Damaging winds and hailstorms occurred in Finger Lakes region, the Mohawk Valley, Hudson Valley early in week. Tornadoes confirmed in a few areas.

Days suitable for fieldwork 4.7. Soil moisture mostly adequate. Pasture 86% of normal. Hay, wheat good. Alfalfa cutting 92% finished, 95% 1991, 87% avg. Clo tim 81% harvested, 95% 1991, 81% avg. Second cutting of alfalfa 40% complete, other hay 25%. In Lake Ontario region, sweet cherry harvest began. Peaches in excellent condition, sizing well. Apple prospects in Niagara County reduced by hailstorm. June drop continued to thin the crop. Follow-up hand thinning underway. Cool, wet weather slowed development of most vegetable crops, but provided excellent growing conditions for spinach.

Lettuce planting neared completion. Snap bean planting continued. Sweet corn harvest started. Strawberry picking winding down. Heavy rain, hail damaged vegetable crops in isolated areas.

**NORTH CAROLINA:** Temperatures 2° to 4° above normal. Precipitation 1.74 in. at Wilmington to no rainfall at a number of locations.

Days suitable for fieldwork 5.7. Soil moisture 5% very short, 22% short, 73% adequate. Crop condition: Wheat 30% fair, 59% good, 11% excellent; pasture 17% fair, 77% good, 6% excellent; tobacco 6% poor, 49% fair, 41% good, 4% excellent; corn 2% poor; 21% fair, 66% good, 11% excellent; cotton 2% poor, 50% fair, 48% good; peanuts 24% fair, 76% good; soybeans 2% poor, 23% fair, 73% good, 2% excellent; hay 27% fair, 73% good; Irish potatoes 8% fair, 33% good, 59% excellent; sweet potatoes 28% fair 67% good, 5% excellent; apples 5% poor, 50% fair, 40% good, 5% excellent; peaches 19% very poor, 6% poor, 50% fair, 25% good; truck crops 6% poor, 38% fair, 56% good. Sorghum planted 93%, 98% 1991, 95% avg.; soybeans planted 95%, 99% 1991, 97% avg.; cotton squaring 49%, 89% 1991, 73% avg.; cotton setting bolls 12%, 46% 1991, 45% avg.; corn silking 71%, 87% 1991, 73% avg.; soybeans flowering 13%, 12% 1991, 8% avg.; winter wheat harvested 91%, 99% 1991, 96% avg.; oats harvested 86%, 99% 1991, 97% avg.; barley harvested 85%, 100% 1991, 96% avg.; rye harvested 94%, 99% 1991, 93% avg. Peaches harvested 68%, 51% 1991, 52% avg. Hay, roughage supplies 2% short, 82% adequate, 16% surplus. Hay first cutting 95%, 2nd cutting 33%. 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 throughout State. Statewide temperatures 7° below normal east central, southwest, south central to 4° below normal northwest. Extremes 40° south central; 85° northeast. Precipitation 0.40 in. east central to 1.57 in. southwest.

Days suitable for fieldwork 4.3. Topsoil 2% very short, 12% short, 82% adequate, 4% surplus. Subsoil 4% very short, 35% short, 61% adequate. Small grain development behind 1991 and average. Spring wheat 2% poor, 34% fair, 50% good, 14% excellent; 3% turning and beyond, 15% 1991, 15% avg. Durum 25% fair, 66% good, 9% excellent; 1% turning and beyond, 5% 1991, 7% avg. Barley 1% poor, 22% fair, 62% good, 15% excellent; 6% turning and beyond, 28% 1991, 29% avg. Oats 3% poor, 50% fair, 42% good, 5% excellent; 3% turning and beyond, 16% 1991, 20% avg. Winter wheat 6% poor, 38% fair, 55% good, 1% excellent; 30% turning and beyond, 66% 1991, 71% avg. Sugarbeets 100% good; 14 in. avg. height, 15 in. 1991. Corn 1% poor, 31% fair, 68% good; 24 in. avg. height, 46 in. 1991, 38 in. avg. Sunflower 19% fair, 81% good; 15 in. avg. height, 30 in. 1991, 26 in. avg. Flax 24% fair, 73% good, 3% excellent; 23% bloom, 82 1991, 64% avg. Soybeans 11% fair, 74% good, 15% excellent; 11% bloom 62% 1991, 38% avg. Dry beans 24% fair, 72% fair, 72% good, 4% excellent; 12% bloom, 58% 1991, 34% avg. Range, pasture 72% of normal. Hay crop 56% of normal. Alfalfa hay first cutting 90% complete, other hay 51%. Stockwater 2% very short, 32% short, 65% adequate, 1% surplus.

**OHIO:** Persistent high pressure ridge over the southern United States circulated more tropical air into the Ohio valley. Showers, thunder-

storms became more common the last half of the week. Severe weather with tornadoes raked northern areas 5th, night while torrential rain fell across parts of central areas producing widespread flooding. Much of State totaled an inch or more of rain for the week with 5.00 in. or more falling on 5th in parts of central State. Summertime heat, humidity invaded State the last half of the week after a cooler than normal start. Temperatures 0 to 2° above normal. Extremes lows in 40s early in the week to low 90s in some southern area locations 12th.

Days suitable for fieldwork 5.6. Soil moisture 36% short, 61% adequate, 3% surplus. Wheat 3% very poor, 8% poor, 34% fair, 47% good, 8% excellent. Hay 1% very poor, 5% poor, 33% fair, 51% good, 10% excellent. Pasture 1% very poor, 8% poor, 34% fair, 48% good, 9% excellent. Oats 1% very poor, 5% poor, 31% fair, 54% good, 9% excellent. The effects of the torrential rains have yet to be assessed.

**OKLAHOMA:** Temperatures 1° above normal south-east to 4° above normal north central. Rainfall none most districts to 0.35 in. Panhandle.

Days suitable for fieldwork 6.6. Topsoil 5% short, 93% adequate, 2% surplus. Subsoil 3% short, 97% adequate. Wheat 92% harvested, 100% 1991, 100% avg.; 47% plowed, 79% 1991, 72% avg. Harvest ranged near 80% east central to near 100% west central, southwest. Quality lower than recent years. Cotton 6% poor, 63% fair, 31% good; 30% squaring, 44% 1991, 43% avg.; none setting bolls, 5% 1991, 6% avg. Sorghum 1% poor, 17% fair, 82% good; 86% emerged, 90% 1991, 96% avg.; 3% headed, 5% 1991, 10% avg. Corn 85% tasseling, 59% 1991, 59% avg.; 12% milk to soft, 15% 1991, 20% avg. Soybeans 65% planted, 95% 1991, 96% avg. Peanuts 44% pegging, 30% 1991, 36% avg. Pastures 99%. Cattle good; marketings average, prices steady to slightly higher than preceding week.

**OREGON:** Cool, wet statewide; below normal temperatures statewide except along coast, 2 to 5° above normal; Precipitation reported statewide, trace along coast, 0.25 in. western interior, trace to 0.25 eastern portion except northwest 0.50 inch.

Soil moisture 73% short, 27% adequate. Winter wheat 5% very poor, 16% poor, 45% fair, 31% good, 3% excellent; 8% harvested. Barley 14% harvested. Grass seed harvesting continued, western section; delayed due to moisture. Second cutting of hay underway eastern sections, some rain damage reported. Marionberry, Boysenberry, blueberry picking continued; strawberry field regrowth boosted by recent rains, Willamette Valley. Tart cherry harvest continued, early peach and apple harvest beginning. Freezer market cherry harvest continues, The Dalles. Bartlett pear harvest is expected by late July, Hood River Valley, Medford district. With irrigation, mild temperatures, vegetables good; west. Many vegetables are now being harvested. Producers in Klamath Basin still fear early irrigation shut off, recent rains have relieved some water problems. Livestock continued good; rains have helped some range, pastures. Stockwater continues to be short, hauling water in the eastern portions. Early removal of cattle off rangeland southern areas. Range, pasture condition 50% of normal.

**PENNSYLVANIA:** Temperature 76°, 7° above normal. Extremes 41°; 94°. Precipitation 0.83 in., 0.07 in. below normal.

Days suitable for fieldwork 5. Soil moisture 47% short, 50% adequate, 3% surplus. Corn 0% silk, 14% 1991, 4% avg.; height 30 in., 41 in.

1991, 33 in. avg.; 1% very poor, 5% poor, 22% fair, 50% good, 22% excellent. Soybeans 96% planted, 99% 1991, 96% avg.; 2% very poor, 5% poor, 23% fair, 54% good, 16% excellent. Barley 16% heading process or headed, 0% 1991, 21% turning yellow, 3% 1991, 20% ripe, 14% 1991, 43% harvested, 83% 1991. Wheat 18% heading process or headed, 0% 1991, 47% turning yellow, 10% 1991; 31% ripe, 33% 1991, 4% harvested, 57% 1991; 2% very poor, 2% poor, 15% fair, 57% good, 24% excellent. Oats 70% heading process or headed, 23% 1991; 25% turning yellow, 46% 1991; 5% ripe, 21% 1991; 0% harvested, 10% 1991; 1% very poor, 3% poor, 17% fair, 57% good, 22% excellent. Alfalfa first cutting 98% complete, 100% 1991. Second cutting alfalfa 33% complete, 57% 1991. Quality of hay made 8% poor, 50% fair, 42% good. Feed from pastures 8% very poor, 21% poor, 47% fair, 24% good. Peach 22% below avg., 72% avg., 6% above avg. Apple 18% below avg., 67% avg., 15% above avg. Activities: Spraying; cultivating; top dressing corn; hauling manure; spreading fertilizer; maintaining machinery; cutting baling hay; combining; caring for livestock.

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

**SOUTH CAROLINA:** Temperatures across State 2 to 6° above normal. Rainfall averaged 0.10 in. Days suitable for fieldwork 6.5. Soil moisture 12% very short, 57% short, 31% adequate. Tobacco fair to good; 83% topped, 91% 1991, 81% avg.; 18% harvested, 27% 1991, 12% avg. Corn fair to good; 94% silked, 95% 1991, 89% avg.; 60% dough stage, 77% 1991, 52% avg. Cotton fair to good; 83% squaring, 94% 1991, 78% avg.; 6% setting bolls, 56% 1991, 34% avg. Soybeans fair to good; 95% planted, 99% 1991, 97% avg.; 4% blooming, 11% 1991, 6% avg. Peaches poor to fair; 41% harvested, 51% 1991, 47% avg. Watermelons fair to good; 72% harvested, 76% 1991, 63% avg. Cantaloupes fair to good; 65% harvested, 75% 1991, 60% avg. Tomatoes fair to good; 87% harvested, 96% 1991, 89% avg. Cucumbers fair to good; 80% harvested, 81% 1991. Snap beans fair to good; 95% planted, 99% 1991, 100% avg. Apples fair to good. Grapes fair to good. Fall hay fair to good; 13% harvested, 25% 1991, 10% avg. Peanuts fair to good. Sorghum fair to good; 75% planted, 86% 1991, 85% avg. Pastures fair to good. Crops beginning to show signs of heat stress.

**SOUTH DAKOTA:** Temperatures 5 to 10° below normal. Extremes 36°; 89°. Rainfall was widespread with less than a tenth in the west to over 3.00 in. east, several locations received substantial amounts of hail. Maximum 3.97 in. Days suitable for fieldwork 2.6. Topsoil 1% very short, 8% short, 69% adequate, 22% surplus. Subsoil 6% very short, 28% short, 59% adequate, 7% surplus. Rye 11% very poor, 10% poor, 33% fair, 46% good. Winter wheat 5% very poor, 31% poor, 38% fair, 25% good, 1% excellent. Barley 2% very poor, 6% poor, 25% fair, 54% good, 13% excellent. Oats 1% very poor, 4% poor, 21% fair, 64% good, 10% excellent. Flax 3% very poor, 5% poor, 30% fair, 51% good, 11% excellent. Sunflowers 1% very poor, 0% poor, 16% fair, 71% good, 12% excellent. Due to wet conditions row crop growth has slowed. State is preparing for the small grains harvest. Livestock 1% very poor, 3% fair, 83% good, 13% excellent. Pasture 81% of normal. 84% of the first cutting of alfalfa is complete.

**TENNESSEE:** Weak cold front moved through State early week causing scattered thunder-

storms, mainly near mountain areas. High pressure dominated remainder of week, with most areas receiving no precipitation during the latter part of the week. Breezy southwesterly winds continued to bring warm, humid air into the State during the latter half of the week.

Days suitable for fieldwork 4.2. Soil moisture 1% short, 93% adequate, 6% surplus. Corn 70% tasseling, 63% 1991, 59% avg.; 12% dough, 15% 1991, 14% avg.; 2% dent, 2% 1991, 3% avg.; 1% poor, 3% fair, 60% good, 36% excellent. Cotton 80% squaring, 66% 1991, 82% avg.; 13% setting bolls, 12% 1991, 18% avg.; 3% poor, 41% fair, 51% good, 5% excellent. Sorghum 20% headed, 10% 1991, 19% avg.; 10% fair, 82% good, 8% excellent. Soybeans 99% planted, 95% 1991, 96% avg.; 12% blooming, 7% 1991, 10% avg.; 24% fair, 66% good, 10% excellent. Tobacco 7% topped, 3% 1991, 9% avg.; 1% very poor, 2% poor, 43% fair, 54% good. Wheat 98% harvested, 98% 1991, 96% avg. Alfalfa 86% 2nd cutting, 81% 1991, 81% avg. Pastures 1% poor, 8% fair, 76% good, 15% excellent. Cattle 6% fair, 86% good, 8% excellent.

**TEXAS:** Warm, stable air mass that kept Texas dry lately slowly broke down. Showers formed in west Texas although most amounts light. Shower activity in Gulf encroached on Coastal areas at times. The edge of high pressure, however, kept most shower activity to a minimum in south, north Texas despite the humid Gulf flow. Temperatures remained near or slightly above normal. Most areas received no rainfall overall. High Plains had above normal rainfall totals with departure +.02 inch above. Greatest negative departure along the Upper Coast with -.95 inch. Overall temperature averaged close to normal for the season.

**Crops:** Corn crop continued excellent progress. Fields in High Plains being irrigated due to dry, windy conditions. In Blacklands, south central Texas, fields rapidly maturing due to hot weather. Hot conditions helped cotton development on the Plains, some producers irrigating fields. Fleahoppers, however, damaged some older fields, squares on younger plants. Some fields in Rio Grande Valley, south central Texas shedded fruit and wilted due to heat and water stress. More moisture needed to continue good growth, development. Rice producers prepared equipment for harvest. Harvest activities should begin soon if weather conditions remain hot, dry. Grain sorghum planting neared completion across the Plains as harvest preparations began in central Texas. Harvest activities continued in southern part of State with good yields reported. Insecticide applications applied on some fields in Blacklands. Midge threat caused serious concerns to late planted fields. Small grain harvest slowed in Blacklands. Many producers plowed wheat fields. Harvest advanced rapidly on the Plains. Peanut fields progressed good across State. Some irrigating began. Rainfall needed for continued good growth. Peanut 83% normal compared with 84% 1991. Soybean planting neared completion. Most fields up to good stands. Moisture needed to continue good pod development.

**Commercial Vegetables:** In the Rio Grande Valley, land preparation continued with irrigation for fall vegetables. In east Texas, watermelon harvest continued; other vegetable harvest on dryland acreage wind down. Disease in tomato plants common. On High Plains, onion harvest underway. Wind, sand caused some damage to watermelon plants. Insects attacked some vegetable plants. In Trans Pecos, chile peppers grew well, some bloomed. Cantaloupe harvest underway. Peach harvest continued with reported

yields fair to good. Some trees in Blacklands affected by scab, brown rot. Season wind down in central Texas with insect problems continued. Pecan crop varied across the State. Many trees good nut set, some areas insect damage. In Hill Country some trees affected by spittlebugs, powdery mildew.

**Range and Livestock:** Range and pasture conditions showed signs of heat stress. Forage growth in most areas slowed by heat, weed problems. Livestock good although grasshopper population increased.

**UTAH:** Temperature maximums 2° less than normal, minimums near normal. Light rainfall was reported in all areas except the Uinta division, where it was moderate.

Days suitable for fieldwork 6.3. Soil moisture 86% short, 11% adequate, 3% surplus. Irrigation water supply 25% very short, 65% short, 10% adequate. Stockwater supply 4% very short, 71% short, 25% adequate. Winter wheat: Ripe 70%, 19% 1991, 38% average; harvested 17%, 2% 1991, 9% avg. Spring wheat: turning or better 85%, 34% 1991, 61% avg.; ripe 40%, 6% 1991, 13% avg. Barley: turning or better 87%, 46% 1991, 69% avg.; ripe 50%, 7% 1991, 20% avg.; harvested 7%. Oats: headed or better 86%, 62% 1991, 80% avg.; turning or better 29%, 14% 1991, 29% avg. Corn height 43 in., 23 in. 1991, 38 in. avg. Corn tasseling 11%. Alfalfa 2nd cutting 36%, 9% 1991, 24% avg. Other hay 59%, 47% 1991. Hay, roughage supplies 3% very short, 27% short, 56% adequate, 14% surplus. Tart cherries picked 75%. Apricots picked 74%. Pasture, range poor to fair.

**VIRGINIA:** Temperatures and precipitation averaged near normal. Extremes 46°; 102°.

Days suitable for fieldwork 5.3. Topsoil 4% very short, 22% short, 74% adequate. Pasture 10% poor, 26% fair, 50% good, 14% excellent. Alfalfa condition 25% fair, 49% good and 26% excellent. Apples 10% poor, 20% fair, 60% good, 10% excellent. Other hay 14% poor, 23% fair, 52% good, 11% excellent. Corn silked 27%, 41% 1991, 32% avg. Corn in dough stage 4%, 16% 1991, 9% avg.; 4% poor, 15% fair, 68% good, 13% excellent. Soybeans 88% planted, 99% 1991, 94% avg. Soybean 9% poor, 15% fair, 76% good. Peanut 33% fair, 34% good, 33% excellent. Tobacco 26% poor, 52% fair, 21% good, 1% excellent. Wheat 80% harvested, 97% 1991, 89% avg. Barley 98% harvested, 100% 1991, 97% avg. Oats 71% harvested, 94% 1991, 84% avg. Potatoes 50% harvested. Flue tobacco 1% harvested, 2% 1991, 3% avg. Livestock mostly good. Cutting hay, spraying fruit, cultivating, laying by burley tobacco, harvesting blueberries, snap beans, cucumbers, sweet corn, tomatoes, topping tobacco, spraying peanuts, planting double crop soybeans. Some flue tobacco blooming prematurely.

**WASHINGTON:** Temperatures near normal west; 3 to 9° below normal east. Rainfall none to 2.28 in. west; 0.03 to 0.78 in. east.

Days suitable for fieldwork 5.5. Soil moisture 70% short, 30% adequate. Hay, other roughage 13% very short, 24% short, 56% adequate, 7% surplus. Range, pasture 5% very poor, 35% poor, 50% fair and 10% good. Winter wheat 14% harvested, 0% 1991, 2% avg. Barley 10% harvested, 0% 1991, 3% avg. Alfalfa hay first cut 100% complete, 100% 1991, 100% avg. Second cut 73% complete, 35% 1991, 36% avg. Precipitation statewide benefits most crops; second cutting alfalfa slowed, hay damage due to rainfall. Wheat harvest slowed by rain central

areas. Precipitation slowed raspberry harvest, split blueberries as harvest continued west. Apricots, peaches harvested central areas, as summer vegetables harvested. Apple thinning winding down. Sweet corn harvest expected soon. Beets, turnips harvested west; asparagus going to seed. Squash, pumpkins hit by top virus southeast. Regrowth to ranges good with recent rain, however ranchers feeding hay, renting pastures due to drought.

**WEST VIRGINIA:** Temperature 74°. Extremes 47°; 95°. Precipitation 0.77 in.

Days suitable for fieldwork 4.5. Soil moisture 30% short, 65% adequate, 5% surplus. Tobacco 6% fair, 94% good. Gardens good; 100% emerged. Barley good; 70% harvested. Oats 11% poor, 7% fair, 82% good; 70% ripe. Wheat 3% poor, 5% fair, 92% good; 75% ripe, 35% harvested. Hay 17% fair, 83% good; 90% first cut, 26% second cut. Apples good. Peaches good. Corn 22% poor, 5% fair, 73% good. Pastures 35% fair, 65% good; 83% of normal. Cattle good. Sheep good. Soybeans good; 95% planted, 93% emerged. Farm activities: General maintenance, cutting hay, clipping pastures, planting soybeans, shearing sheep.

**WISCONSIN:** Temperature 67°; 3° below normal. Extremes 36°; 89°. Precipitation 1.70 to 2.30 in. Rainfall all week.

Days suitable for fieldwork 4.2. Soil moisture 57% short, 40% adequate, 3% surplus. Pasture 54% of normal, 75% 1991, 62% avg. General crop condition 1% very poor, 11% poor, 57% fair, 31% good. Oats 4% very poor, 16% poor, 35% fair, 42% good, 3% excellent. Corn height 31 in., 57 in. 1991, 47 in. avg.; 0% silked, 22% 1991, 9% avg.; 2% very poor, 13% poor, 43% fair, 40% good, 2% excellent. Second crop hay 12% harvested, 27% 1991, 21% avg. Soybean 2% very poor, 4% poor, 41% fair, 49% good, 4% excellent. Winter wheat 1% harvested, 18% 1991, 10% avg. Percent of corn acres, soybean acres lost due to June 20th frost 7%, 2% respectively.

**WYOMING:** Temperatures near to slightly below normal across the State. A few areas were as much as 3 to 6° below normal. Precipitation was below normal for nearly the entire State with the exception of the east central region where over 2.00 in. of precipitation was received.

Days suitable for fieldwork 5.9. Topsoil 33% short, 55% adequate, 12% surplus. Spring wheat 7% boot, 21% 1991, 10% avg.; 63% headed, 53% 1991, 56% avg.; 28% turning color, 20% 1991, 25% avg.; 2% mature, 1% 1991, 8% avg. Oats 2% jointed not in boot, 5% 1991; 19% boot, 28% 1991, 21% avg.; 69% headed, 59% 1991, 58% avg.; 8% turning color, 8% 1991, 14% avg.; 2% mature, 0% 1991, 5% avg. Barley 1% jointed not in boot, 11% 1991; 3% boot, 16% 1991, 12% avg.; 44% headed, 57% 1991, 48% avg.; 46% turning color, 15% 1991, 30% avg.; 6% mature, 1% 1991, 6% avg. Winter wheat 25% headed, 37% 1991, 19% avg.; 67% turning color, 47% 1991, 53% avg.; 8% mature, 14% 1991, 27% avg.; 0% harvested, 2% 1991, 2% avg. Potatoes 13% in bloom, 29% 1991, 32% avg. Dry beans 16% in bloom, 19% 1991, 19% avg. Corn 4% tasseled, 2% 1991, 9% avg. Alfalfa 74% of first cutting completed, 80% 1991, 83% avg. Other hay 27% of acreage harvested, 38% 1991, 40% avg. Hail damage to crops 43% none, 41% light, 12% moderate, 4% severe. Severe hail damage was reported in the southeastern part of the State, many acres of cropland were lost. Winter wheat was hayed where possible. Stockwater supplies 35% short, 65% adequate.

## International Weather and Crop Summary HIGHLIGHTS

July 5 - 11, 1992

**FSU:** In western areas, significant rain improves moisture for drought-stressed crops in the Black Soils Region and middle Volga. Welcomed dryness covers crops in the western North Caucasus. In the New Lands, showers improve conditions for spring grains in the west.

**EUROPE:** Dryness stresses crops in the northeast; widespread rain is favorable elsewhere.

**SOUTH ASIA:** The monsoon continues to be weak, causing unfavorably dry, warm weather for central India's rainfed grains and oilseeds.

**EASTERN ASIA:** Beneficial rain alleviates crop stress across the North China Plain.

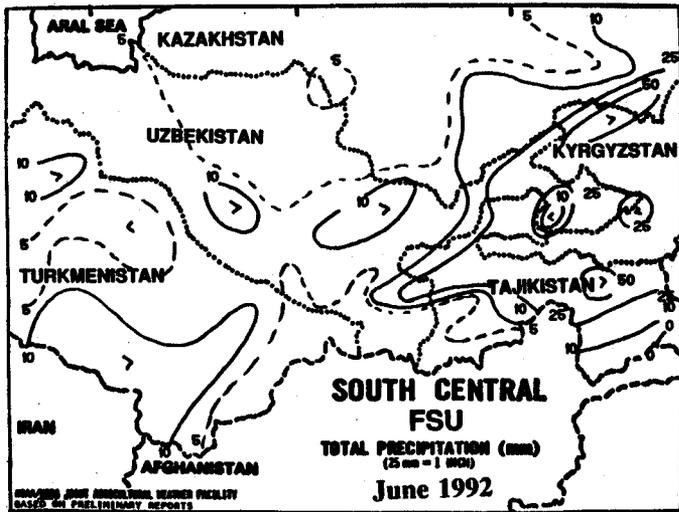
**SOUTHEAST ASIA:** Showers bring relief to Thailand's corn and rice. Tropical activity increases Philippines rainfall.

**AUSTRALIA:** Moisture is needed for eastern germinating winter grains.

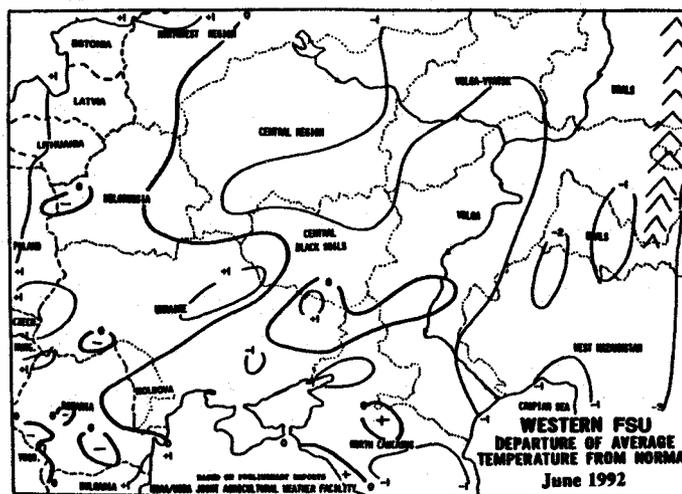
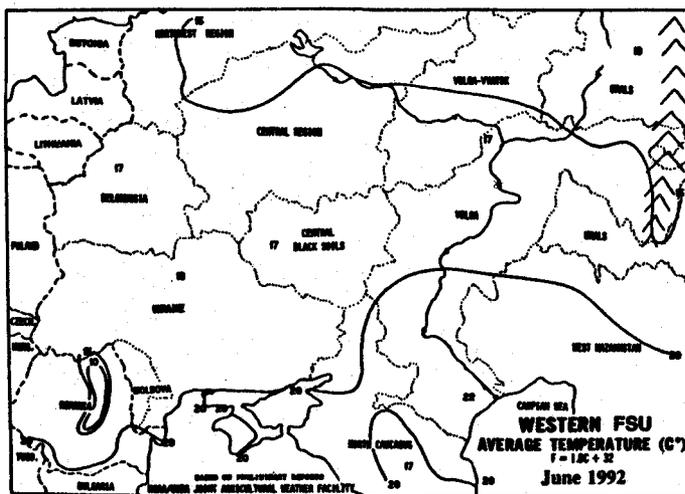
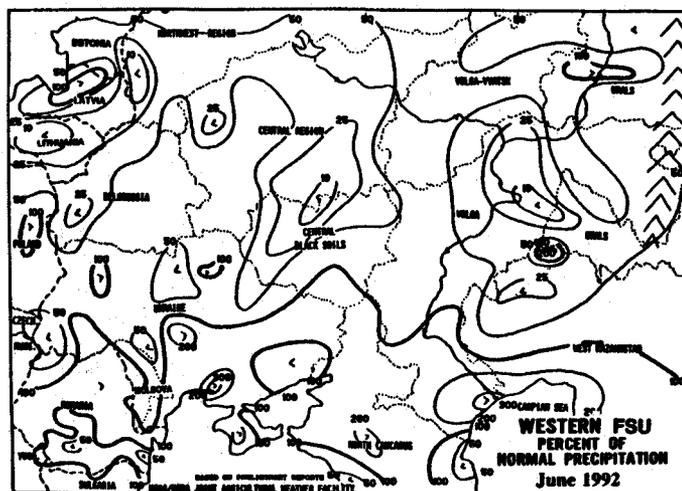
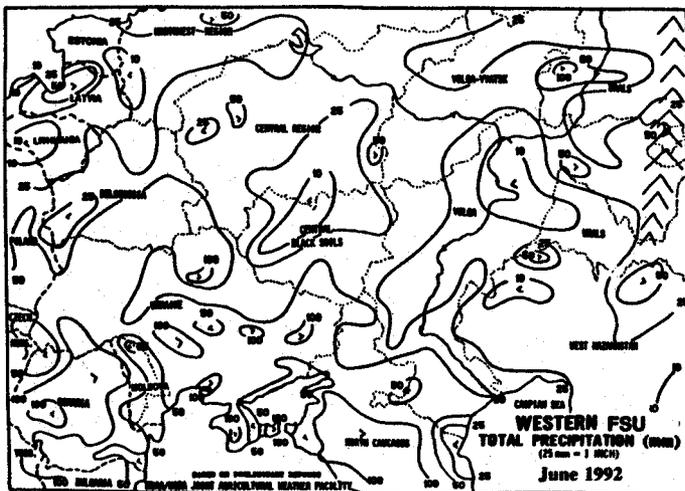
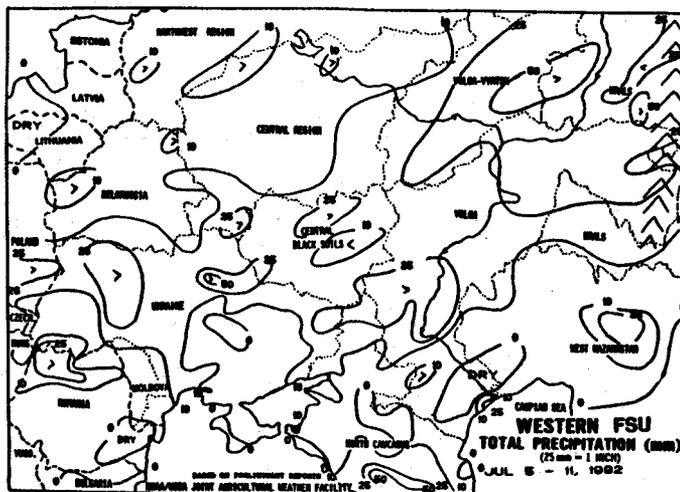
**SOUTH AMERICA:** Topsoil moisture is becoming limited for winter grains in Argentina. Dry weather reduces flooding in southern Brazil.

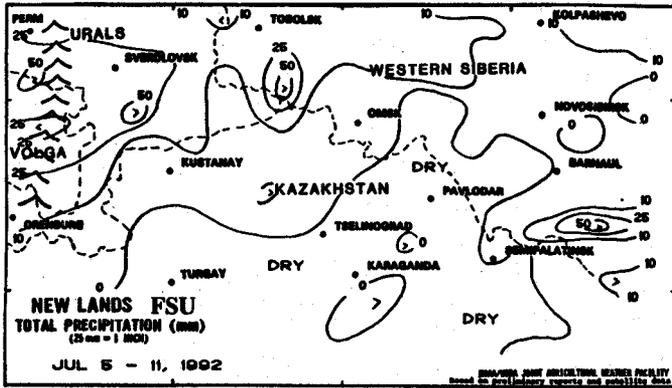
**MEXICO:** Beneficial rain continues across the central corn belt.

**CANADA:** Cool, wet weather continues, improving moisture reserves but slowing growth of spring grains and oilseeds and enhancing the risk of disease.

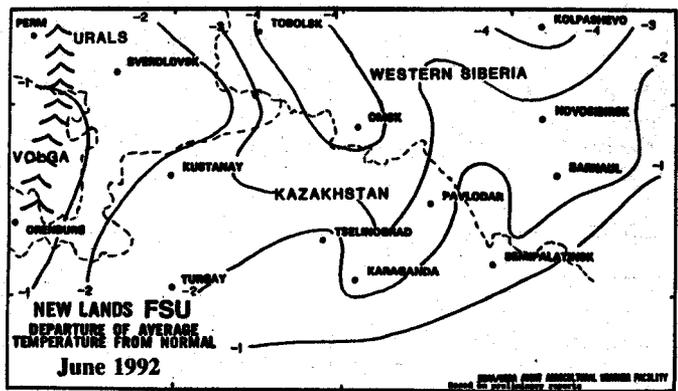
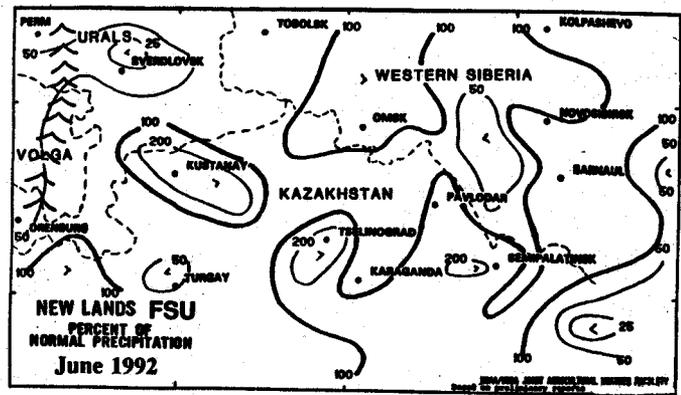
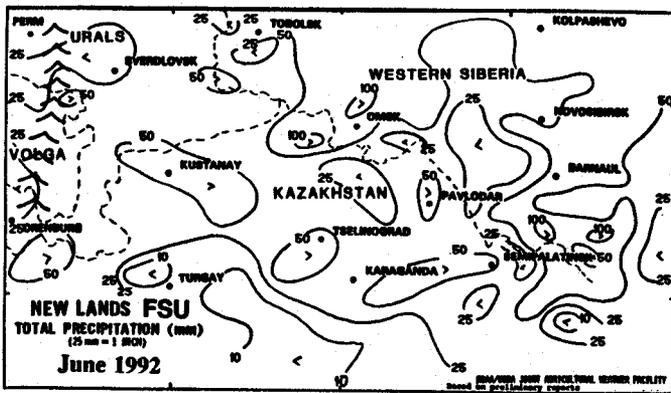


**FSU - WESTERN:** Significant rain (10-30 mm, with local amounts in excess of 30 mm) accompanied unseasonably cool weather over the Black Soils Region, middle Volga Valley, the northern tip of North Caucasus, and the eastern portion of the Central and Volga Vyatsk Regions, halting a drying trend since May and stabilizing conditions for spring grains in the filling stage. Rainfall diminished in the central North Caucasus following last week's heavy rains. The drier weather favored winter grain maturation and early harvest. In Ukraine, light to moderate showers favored spring grains in the filling stage and summer crops in or nearing reproduction. In June, above-normal precipitation covered crop areas in Moldova, southern Ukraine, and North Caucasus. However, well-below-normal precipitation continued over the Central Region, Black Soils Region, southern Volga Vyatsk Regions, and upper Volga Valley, expanding westward into northern Belarus and the Baltic States. The dryness limited moisture for winter grains advancing through reproduction and spring grains in or near the heading stage. Although below-normal temperatures reduced evaporation rates in northwestern areas, a heat wave on June 18-23 in the Black Soils Region, Volga Valley, and northern North Caucasus hastened winter grain ripening and placed increased stress on spring grains.

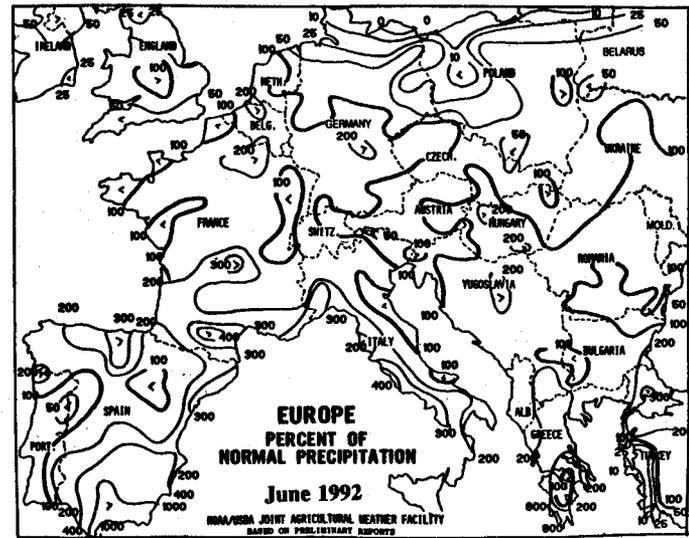
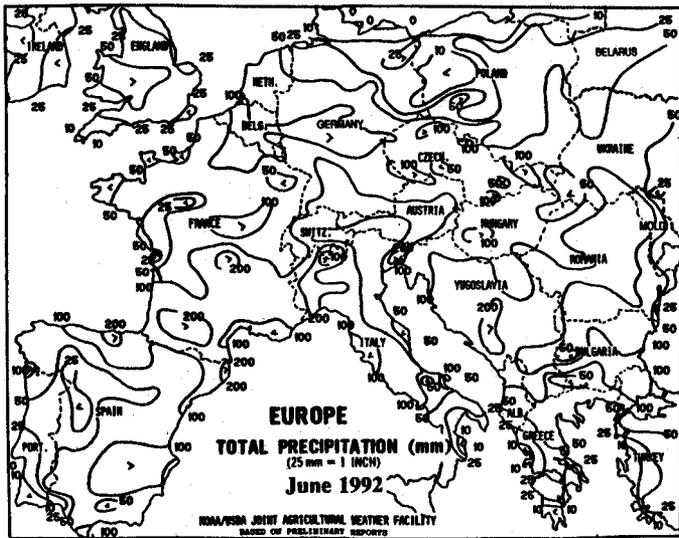
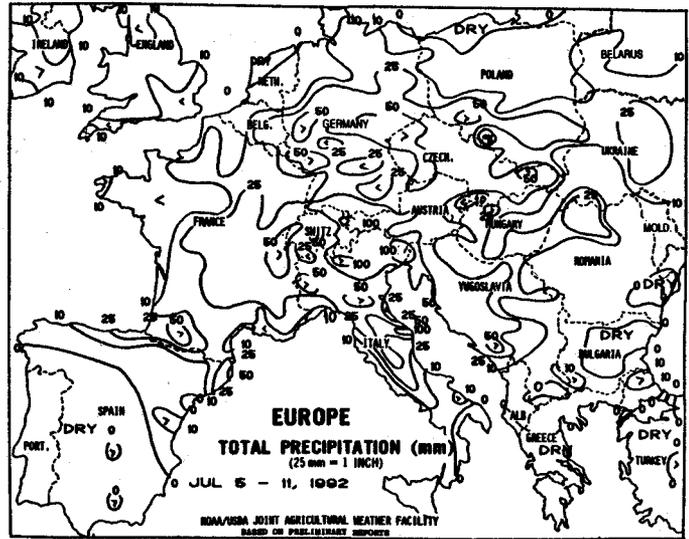


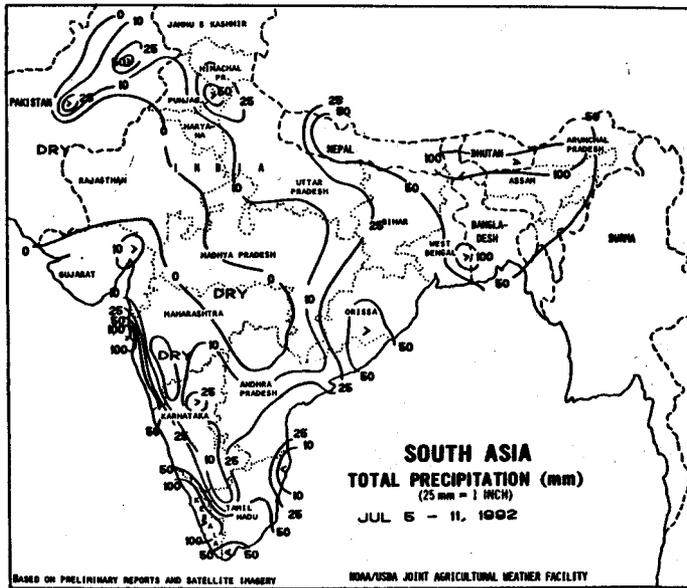


**FSU - NEW LANDS:** Widespread rain (10-30 mm with local amounts in excess of 40 mm) covered the eastern portion of upper Volga and the Urals, improving moisture for spring grains in or nearing reproduction. Little, if any, precipitation (less than 5 mm) covered most spring grain areas in Kazakhstan, although locally heavier showers (15-58 mm) fell in the extreme west. Light precipitation covered crop areas in Western Siberia. Temperatures averaged below normal in the west and near normal in the east. In June, below-normal precipitation continued over the Urals, limiting moisture for vegetative spring grains. Near- to above-normal precipitation covered most of Kazakhstan and Western Siberia. Unseasonably cold weather during most of June slowed crop development. However, a brief episode of heat covered Kazakhstan and the eastern portion of Western Siberia on June 24-29, with maximum temperatures ranging from 30 to 37 degrees C.

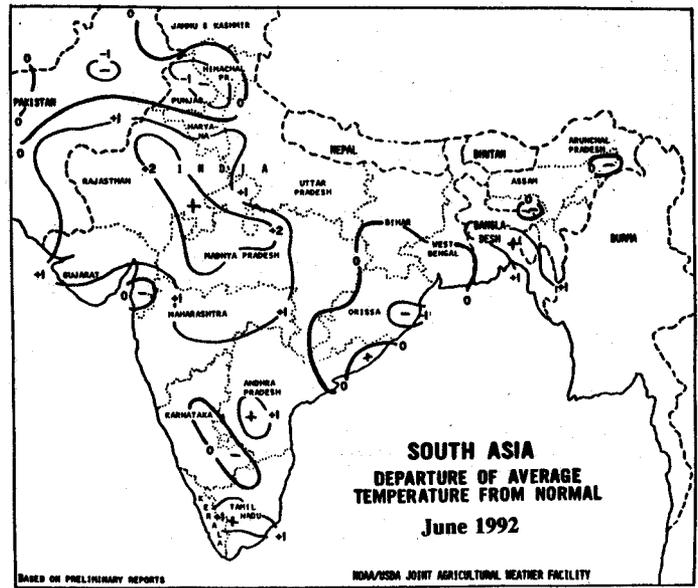
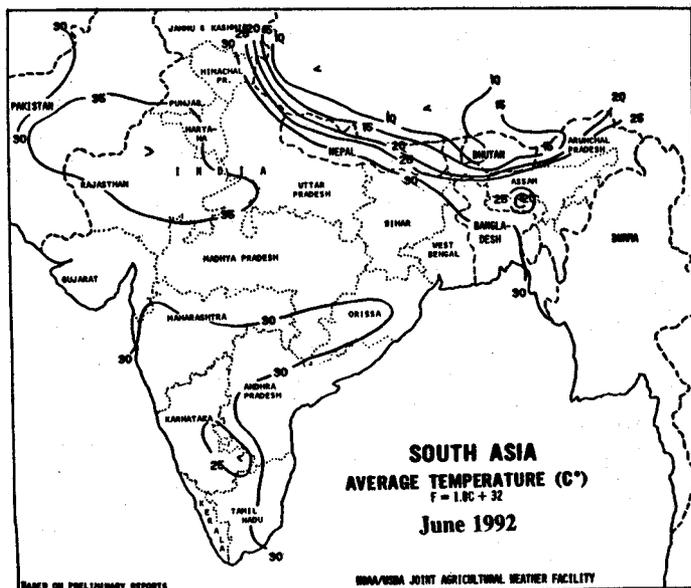
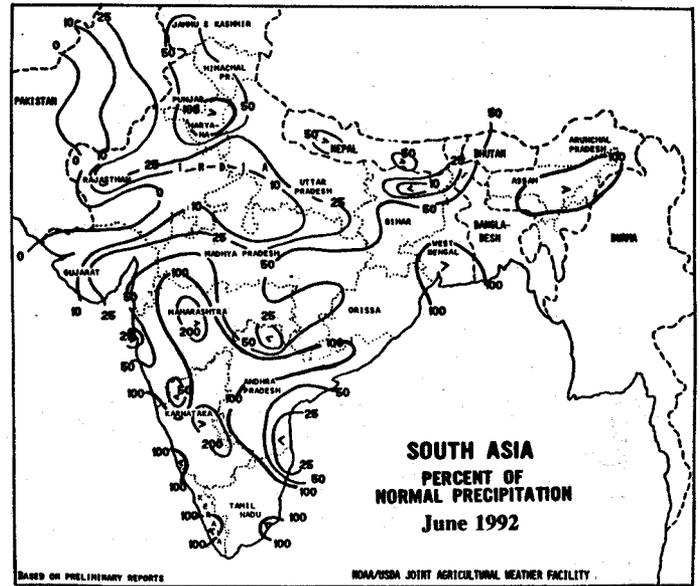
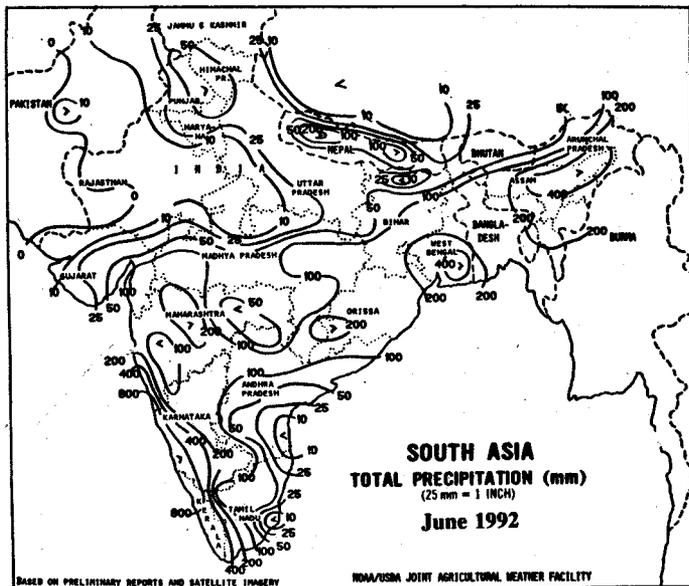


**EUROPE:** Dryness persisted across northern Poland, stressing grains and oilseeds. Substantial rain (25-75 mm) fell over much of central Europe from east-central France to southern Poland and Czechoslovakia, benefiting corn and spring grain development. The moisture was favorable over the southern two-thirds of Germany, with lighter, but needed, rain (5-22 mm) also falling in the moisture-deficient north. Locally heavy rain (50-75 mm) covered central and northern Italy, where moisture has become excessive in some areas. Light showers (5-15 mm) helped immature grains and reproductive spring-sown crops in the northwest. In June, dryness intensified over northern Europe, adversely affecting crop development by month's end as winter crops advanced through reproduction, and spring grains and oilseeds neared the moisture-sensitive reproductive stages. In contrast, unseasonably heavy June rainfall soaked the Mediterranean region, improving moisture reserves following long-term dryness.

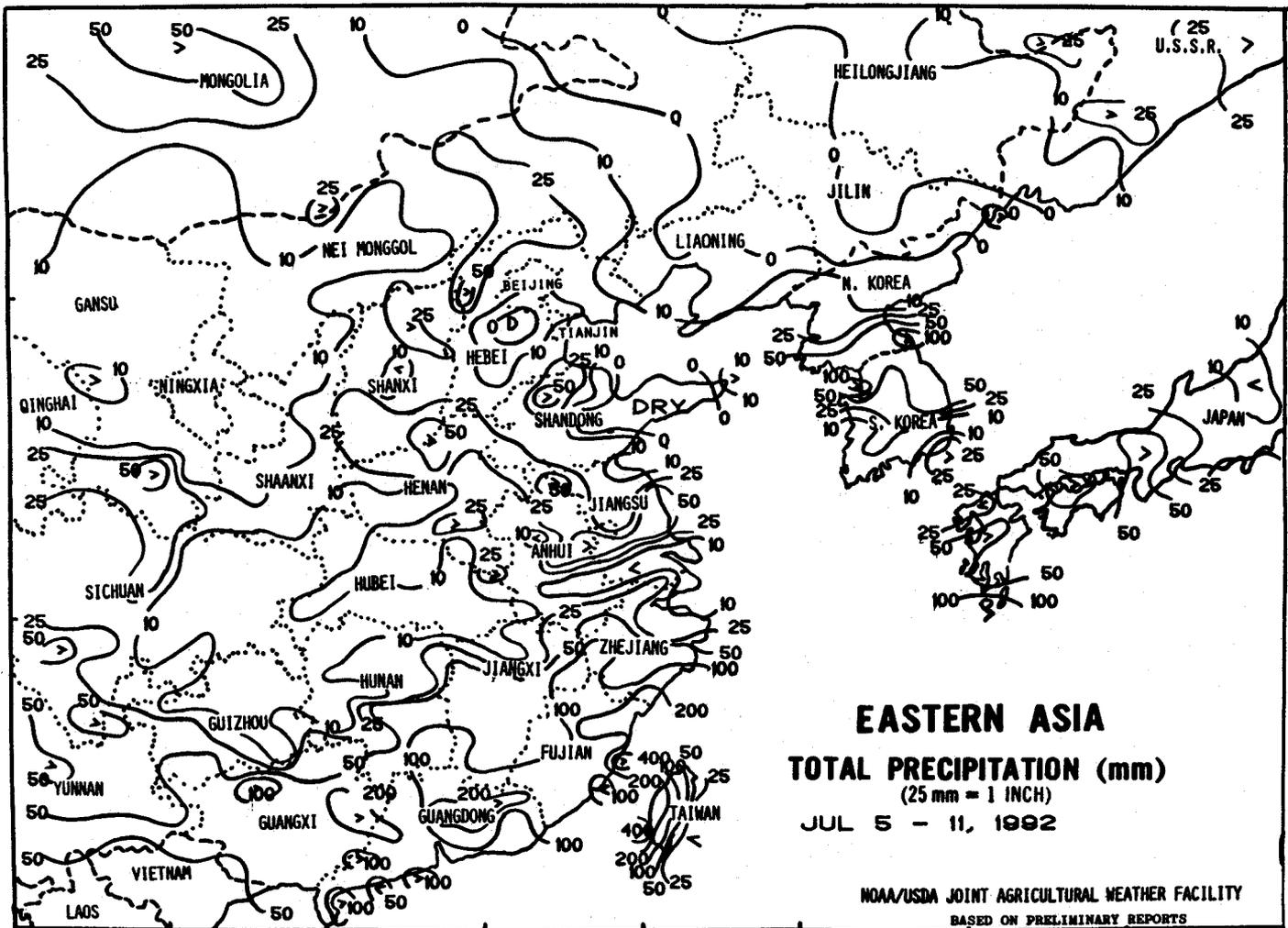


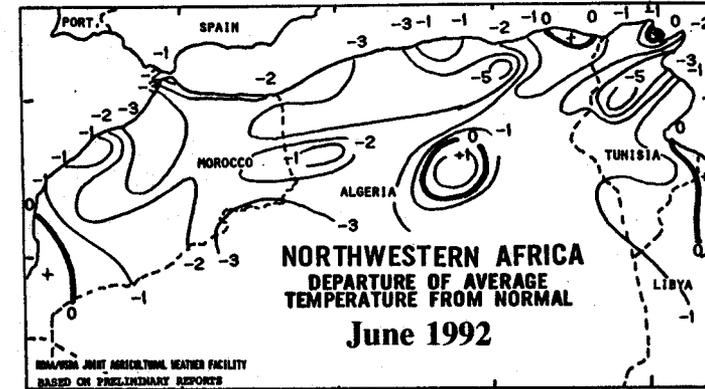
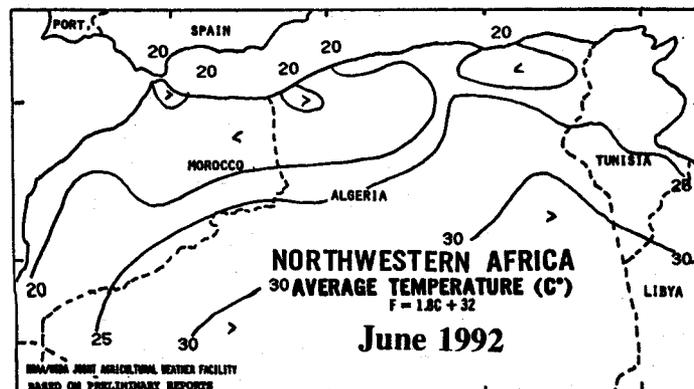
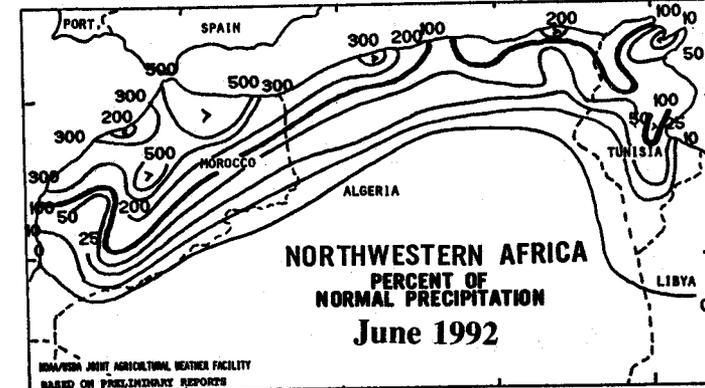
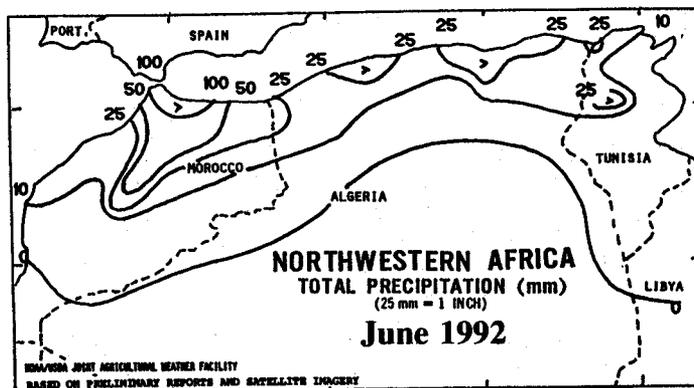
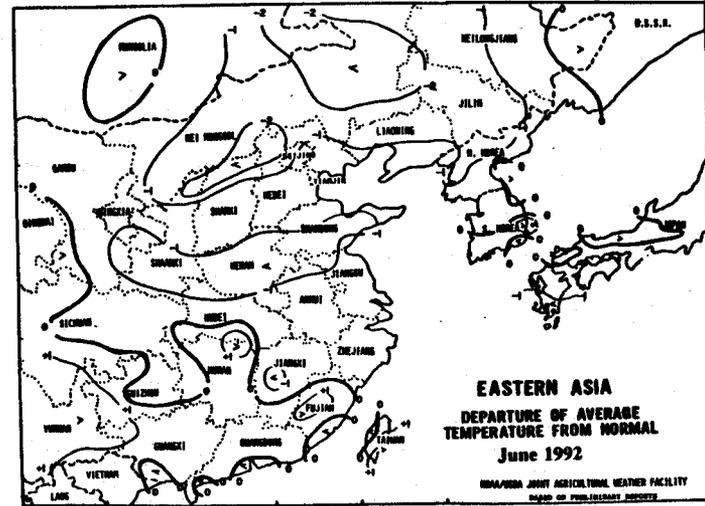
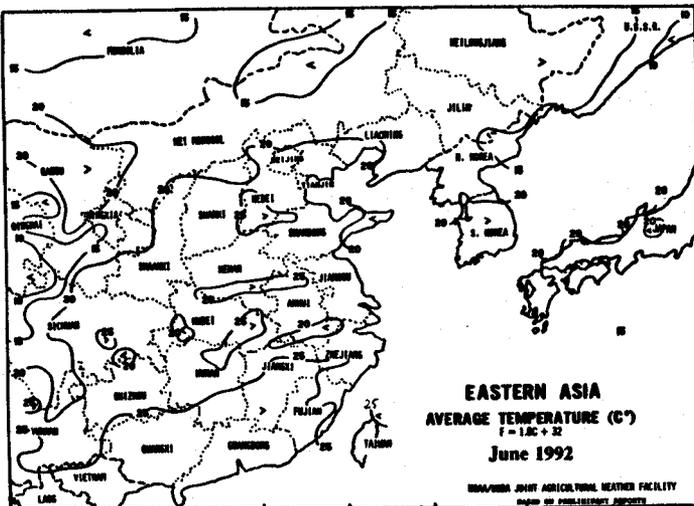
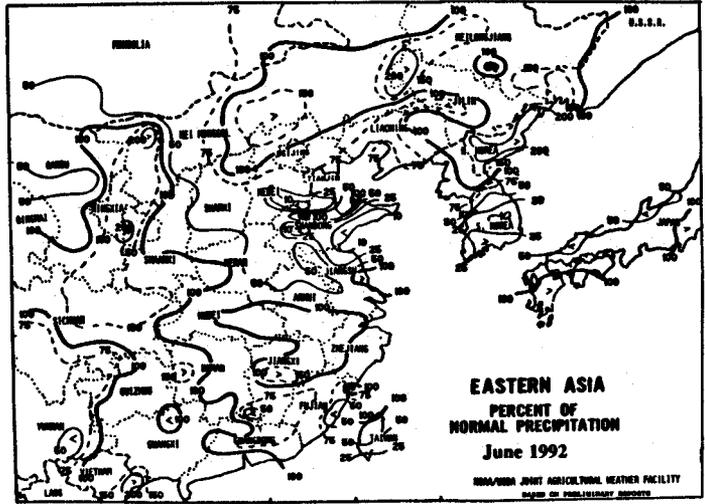
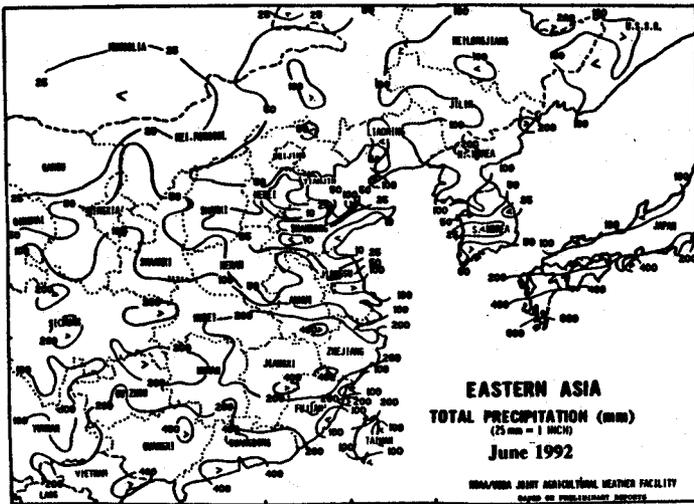


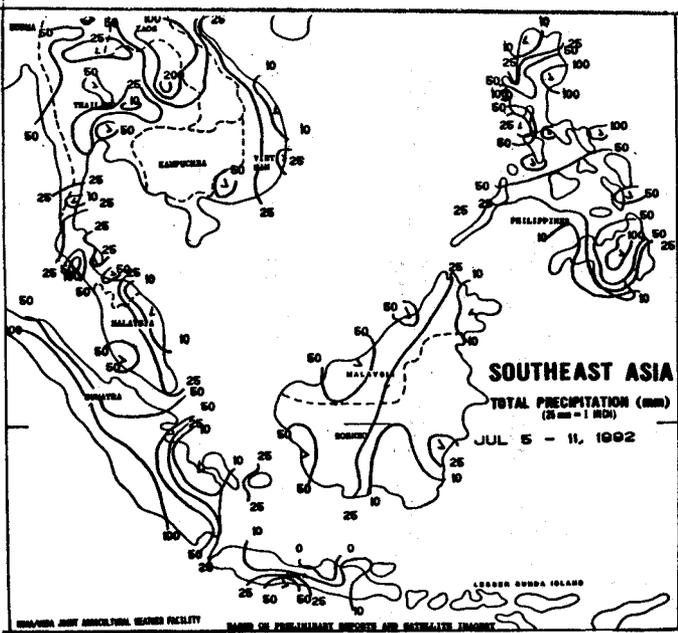
**SOUTH ASIA:** The southwest monsoon was erratic for the second week over central India, resulting in much drier- and warmer-than-normal conditions in primary rainfed crop regions. Emerging grains and oilseeds in Gujarat, Maharashtra, and Madhya Pradesh need relief soon to prevent losses in yield potential. Showers (10-50 mm or more) continued over India's summer interior and primary eastern rice areas but, except for isolated locations, accumulations were below normal. Elsewhere, scattered locally heavy showers (1-18 mm, with isolated amounts exceeding 50 mm) fell across northern Pakistan and north-central India, accompanied by high temperatures in the 40's C. The monsoon, typically in place by mid-July, has not yet arrived in these areas. During June, the monsoon arrived a few days late, but progressed well for about 3 weeks thereafter, bringing near-normal rainfall to much of southern and eastern India and Bangladesh. However, northward progress stalled late in the month, leaving most of central India unfavorably warm and dry for normal summer crop development.



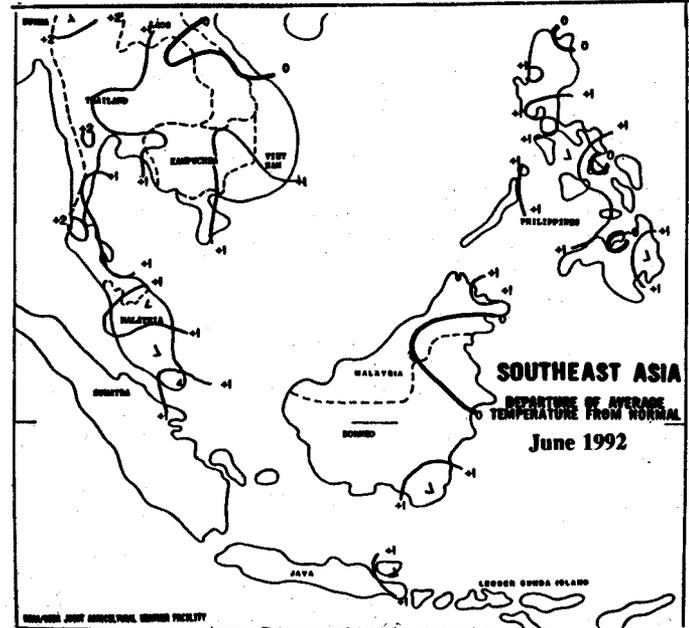
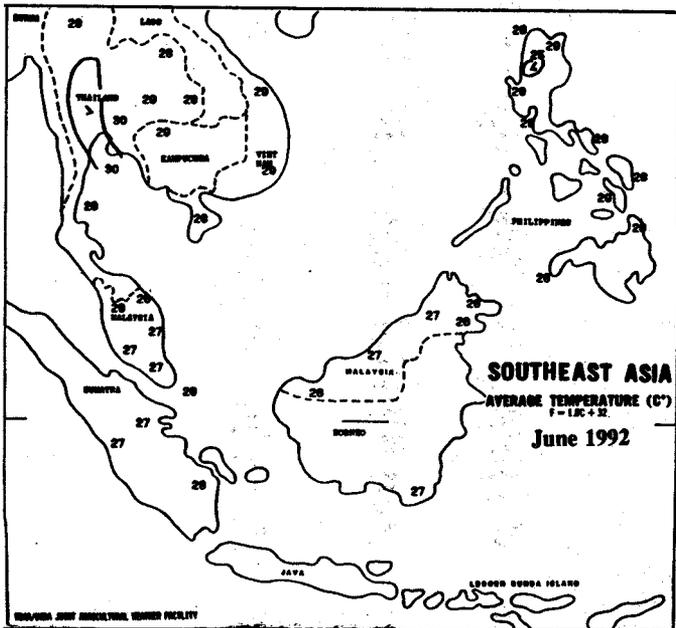
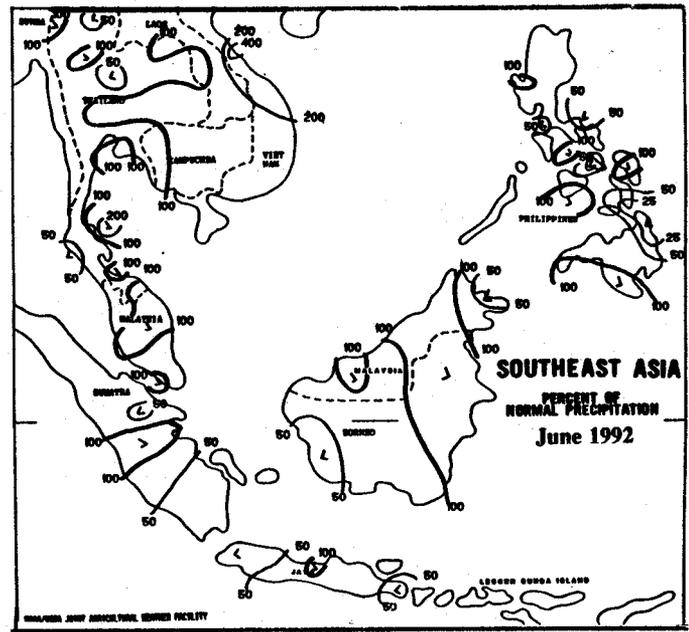
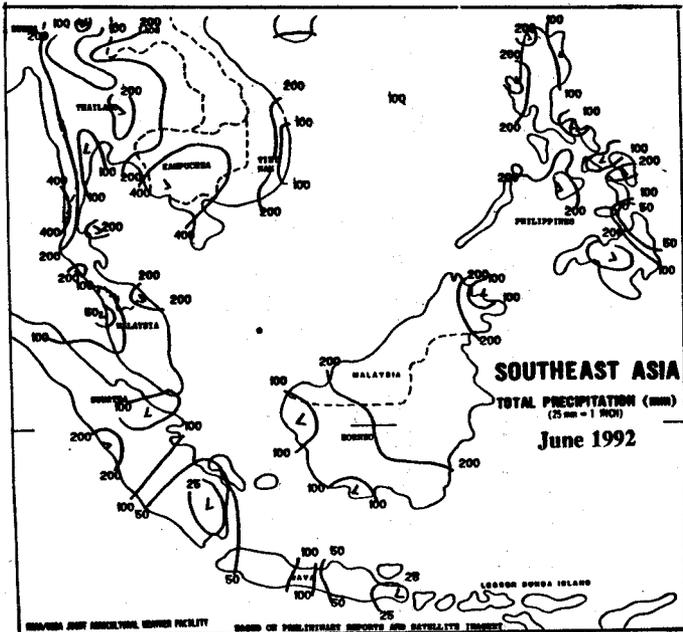
**EASTERN ASIA:** Highly beneficial widespread rain (20-86 mm) fell across the North China Plain, relieving stress on corn, soybeans, and rainfed cotton. More rain is needed to stabilize and may improve yield prospects. During June, below-normal rainfall over most of the North China Plain stressed vegetative summer crops. Light rain (less than 10 mm) fell across Manchuria, aiding maturing spring wheat. Adequate soil moisture exists for summer crops in Manchuria, since June rainfall was near to above normal. Across the central Yangtze Valley, drier weather (less than 10 mm) favored early double-crop rice harvesting. In southern China, widespread moderate rain (38-80 mm) kept rice irrigation supplies abundant. However, across the coastal provinces of Fujian and Guangdong, heavy to excessive rain (111-306 mm) flooded some rice areas. Central and southern China experienced near- to above-normal June rainfall, except Yunnan in the southwest which reported below-normal rainfall. Weekly temperatures averaged near normal across Manchuria and the North China Plain, and 2-5 degrees C below normal across southern China.



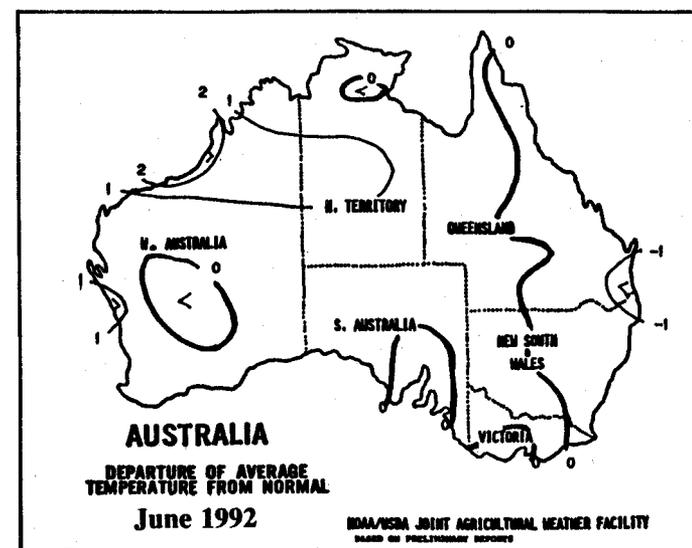
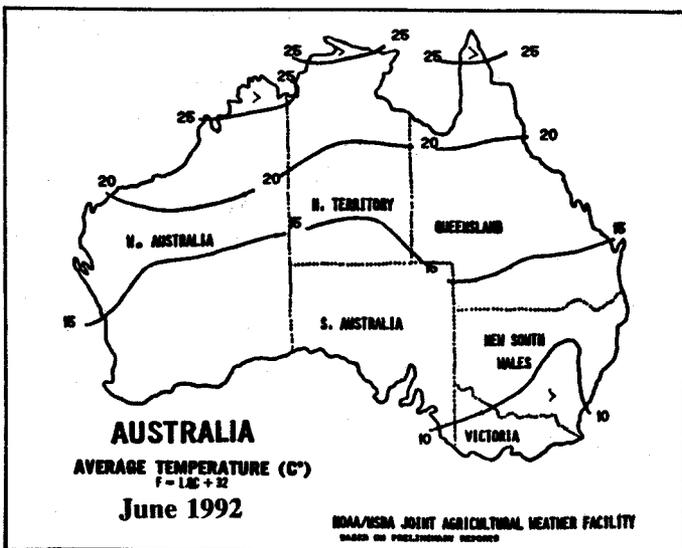
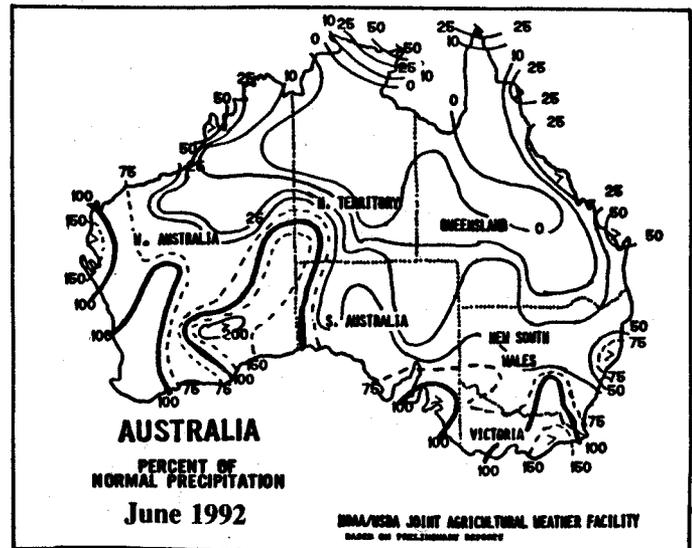
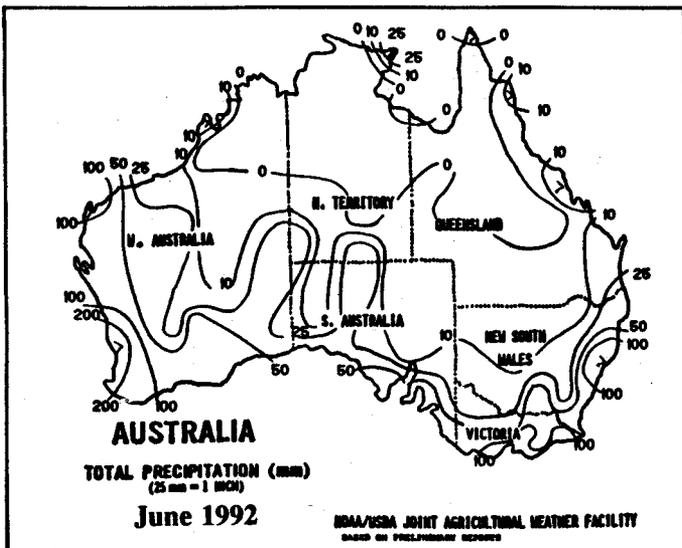
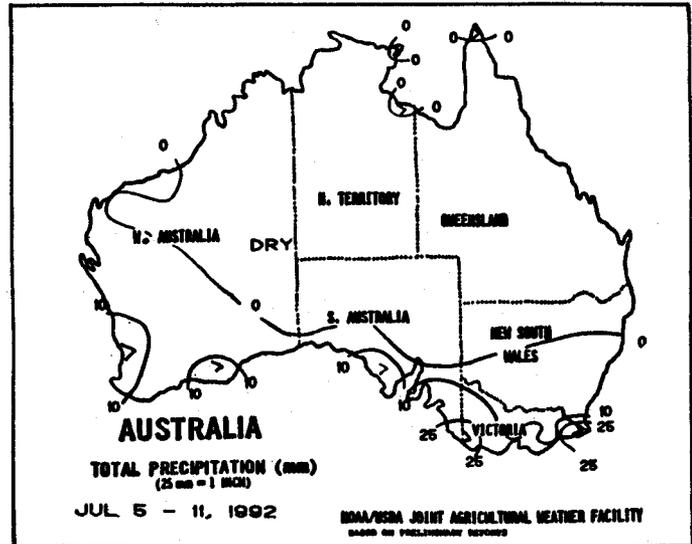


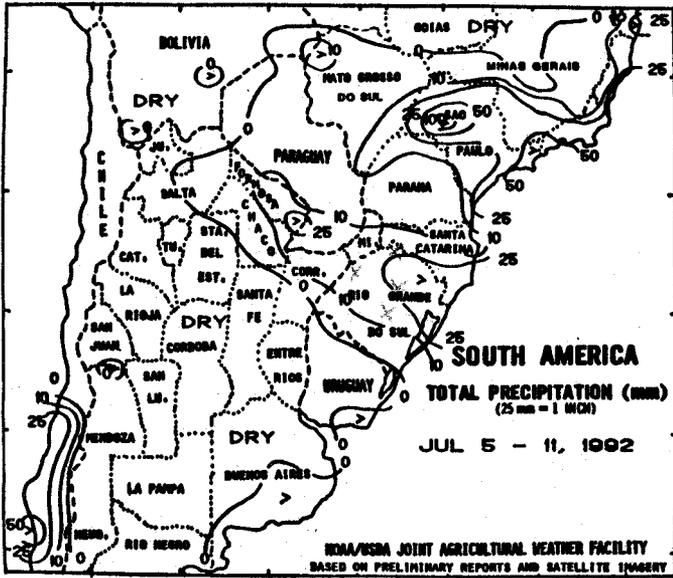


**SOUTHEAST ASIA:** Much-needed rain (25-80 mm) brought some relief for vegetative to reproductive rice and corn in central and northern Thailand. Heavier rain (50-223 mm) fell in rainfed rice areas to the east. During June, rainfall was near to above normal in most of Thailand's eastern rice areas. However, from Bangkok northward along the Chao Phraya, shower activity was erratic, with many dry pockets, especially in the Northern Hills region. June temperatures were near to above normal, maintaining high moisture demands and evapotranspiration rates. In the Philippines, much-needed rain (25-50 mm or more), mainly from Typhoon Eli, fell from southern Luzon southward through Mindanao, benefiting drought-afflicted crops. Drought conditions had prevailed in the Philippines throughout June, damaging fall grains and delaying main-season crop planting. The recent increase in tropical activity has improved rainfall prospects in the western Pacific, but activity over the islands has still been sparse.

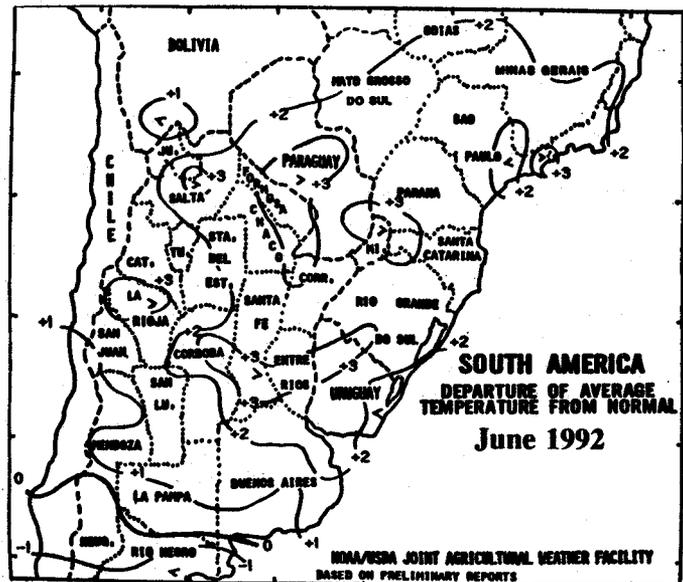
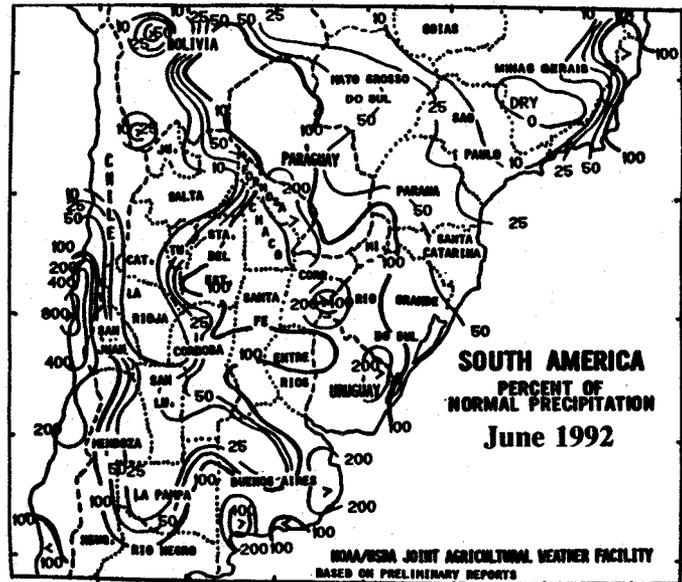
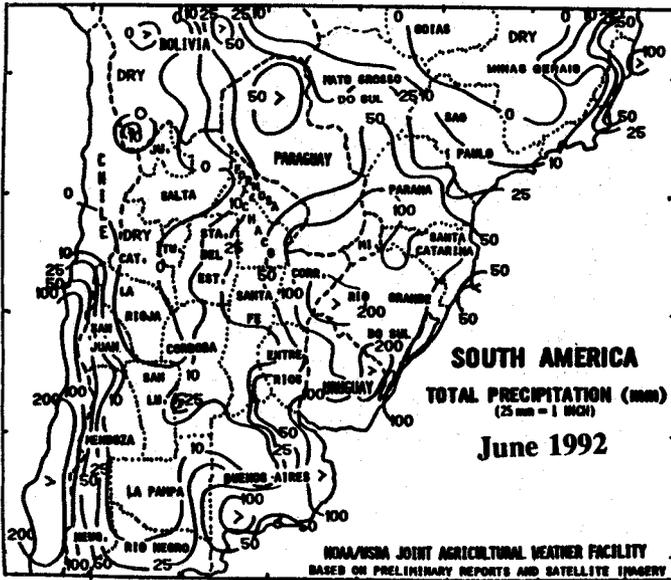


**AUSTRALIA:** Dryness continued across southern Queensland and returned to northern New South Wales, where rainfall has been below normal since early June. The dry weather favored late winter grain planting, but moisture is needed for germination and adequate establishment. Light rain (6-16 mm) fell over the western and southern winter grain areas, favoring establishment. For June, rainfall was near to above normal in Victoria and South and Western Australia, providing moisture for crop germination. Weekly temperatures averaged near normal across the major winter grain areas.

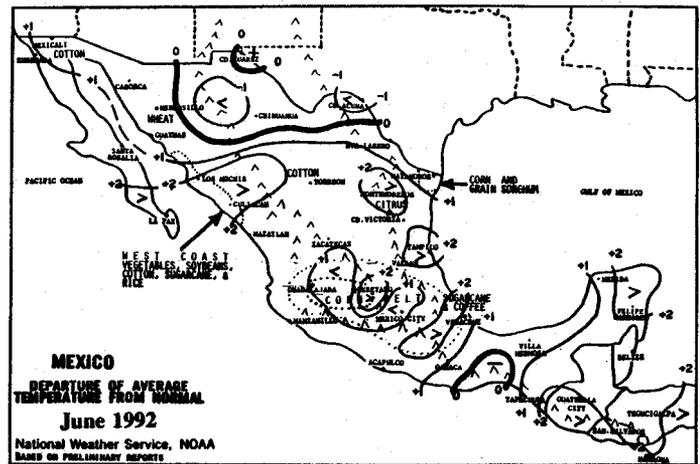
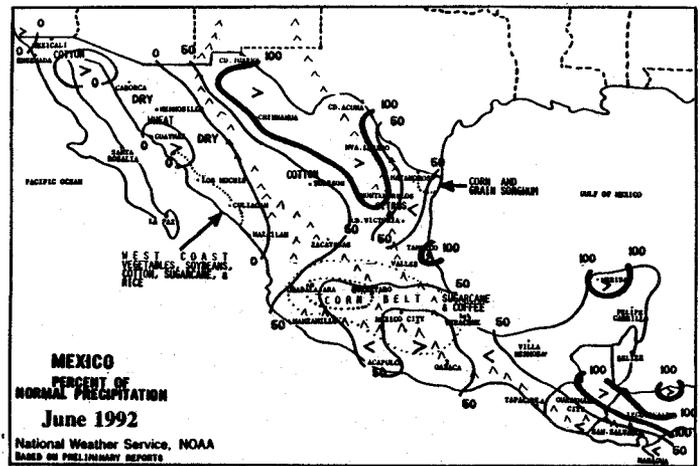
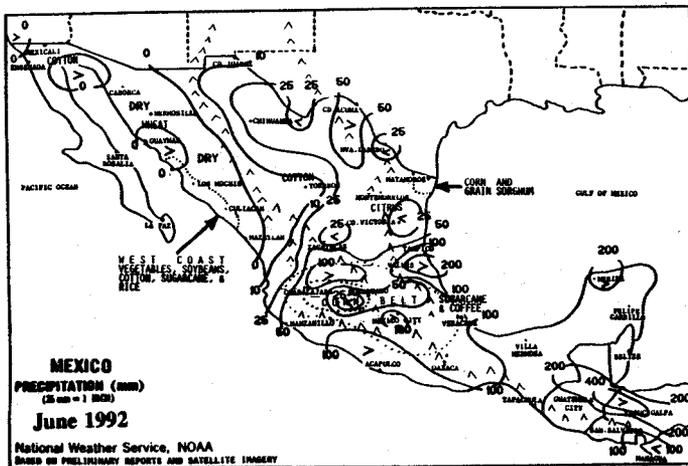
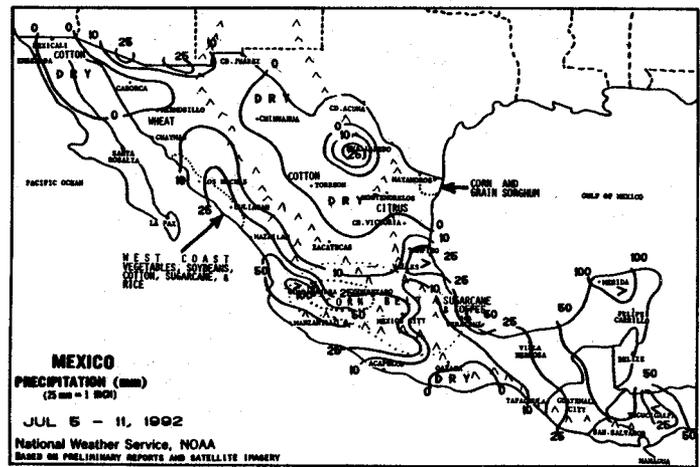


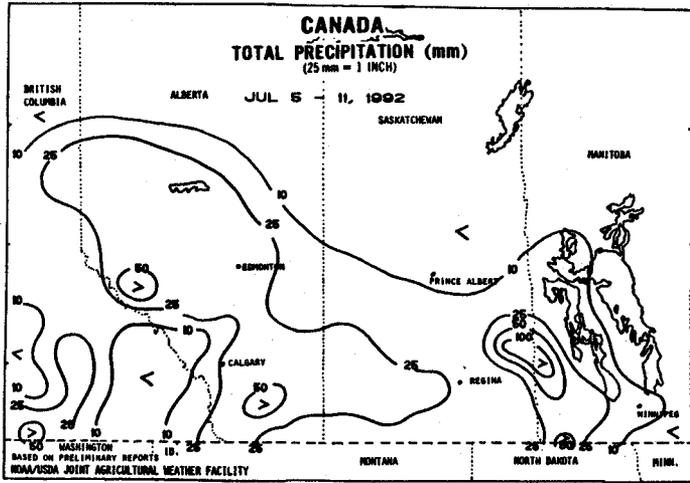


**SOUTH AMERICA:** Little or no rain fell across Argentina, where topsoil moisture is becoming limited for winter grains in portions of Buenos Aires. While June rainfall was near to above normal across the country, rainfall averaged below normal in central Buenos Aires. Across southern Brazil, drier weather helped to reduce flooding after heavy June and early July rains. Moderate to isolated heavy rain (32-130 mm) fell across Sao Paulo, delaying citrus and coffee harvesting. Above-normal rainfall during June further exacerbated flooding in extreme southern Paraguay. Chile received above- to much-above-normal June rainfall favoring irrigation supplies. Weekly temperatures averaged near normal across the winter grain regions.

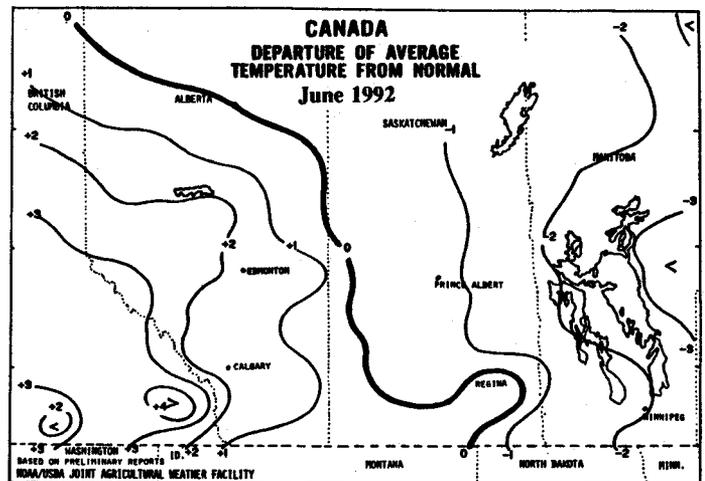
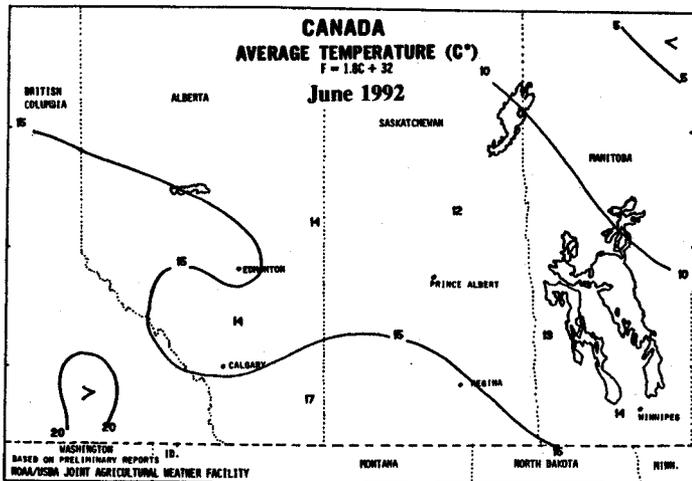
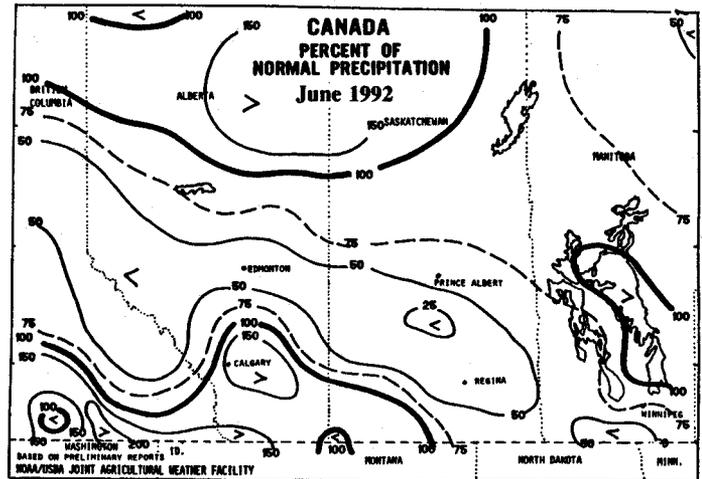
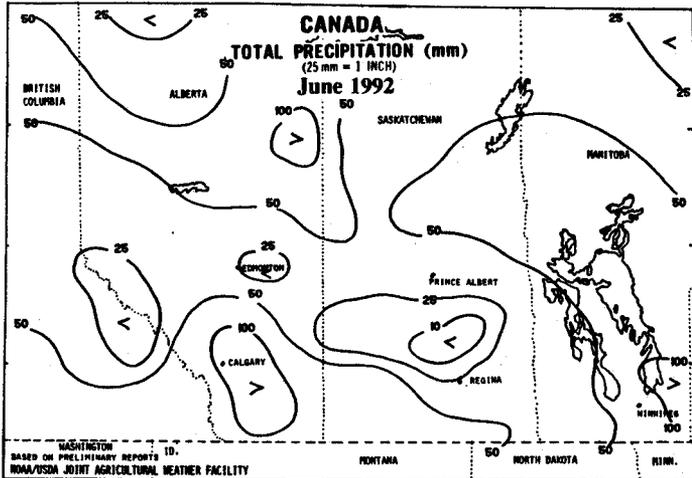


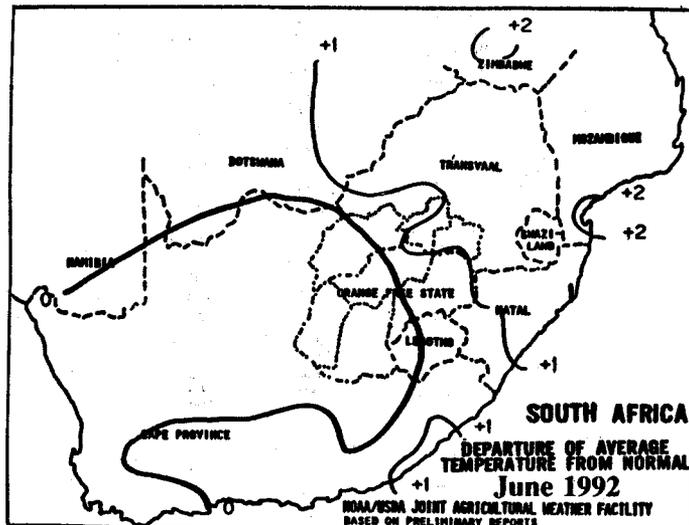
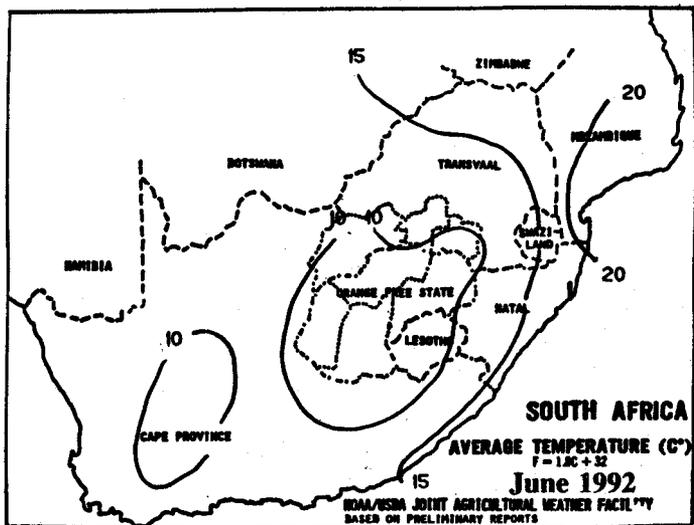
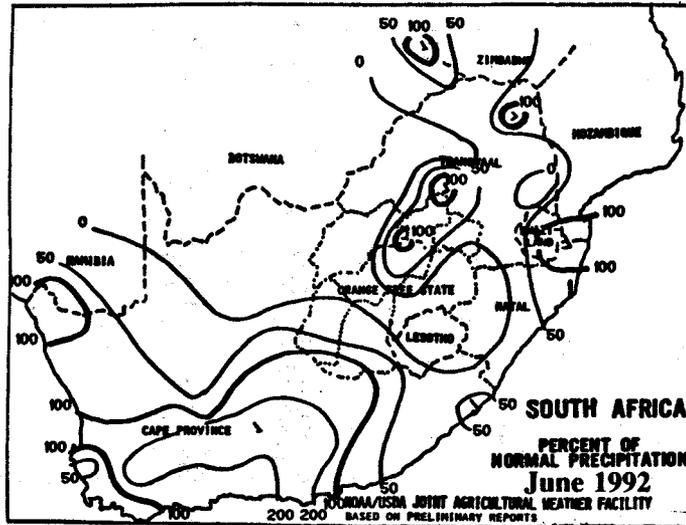
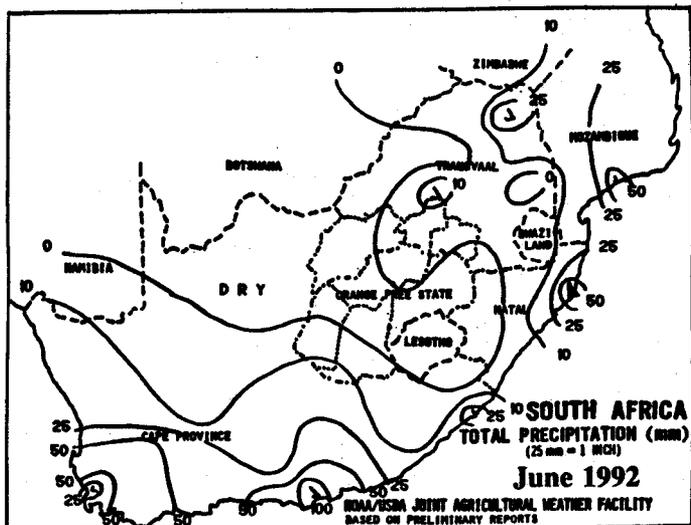
MEXICO: Moderate to isolated heavy rain (31-109 mm) covered the Southern Plateau corn belt, favoring vegetative to reproductive corn. The rains were especially beneficial since June rainfall was below normal due to a 2-week dry spell. Weekly temperatures averaged 1-2 degrees C above normal across the corn belt.





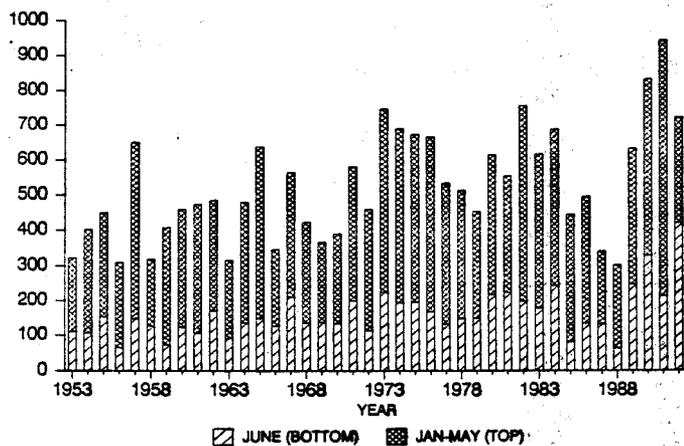
**CANADA:** Cool, wet weather continued across the Prairies, improving soil moisture for establishing grain and oilseeds but slowing crop development. Rainfall ranged from 15 to 32 mm over most primary crop areas, with isolated totals ranging from 50 to 137 mm. The showers were especially welcome in northern crop areas of Alberta and Saskatchewan. Temperatures again averaged 1-4 degrees C below normal, hindering crop growth and threatening quality of earlier planted spring wheat advancing through reproduction in Manitoba. During June, the drying trend over southern Alberta and southwestern Saskatchewan ended, benefiting newly planted spring wheat. In contrast, drier weather developed from northern Alberta to Manitoban, reducing moisture for establishing spring grains and oilseeds. June temperatures averaged slightly below normal in the west and near to below normal in the east, with unseasonable cold late in the month burning back Manitoban crops. In Ontario, showers (7-59 mm) boosted moisture reserves but cool weather slowed development of vegetative corn and reproductive to filling winter wheat.





(Continued from p. 8)

Figure 4  
TOTAL NUMBER OF TORNADES, U.S.A.  
JUNE & JANUARY-JUNE, 1953-1992



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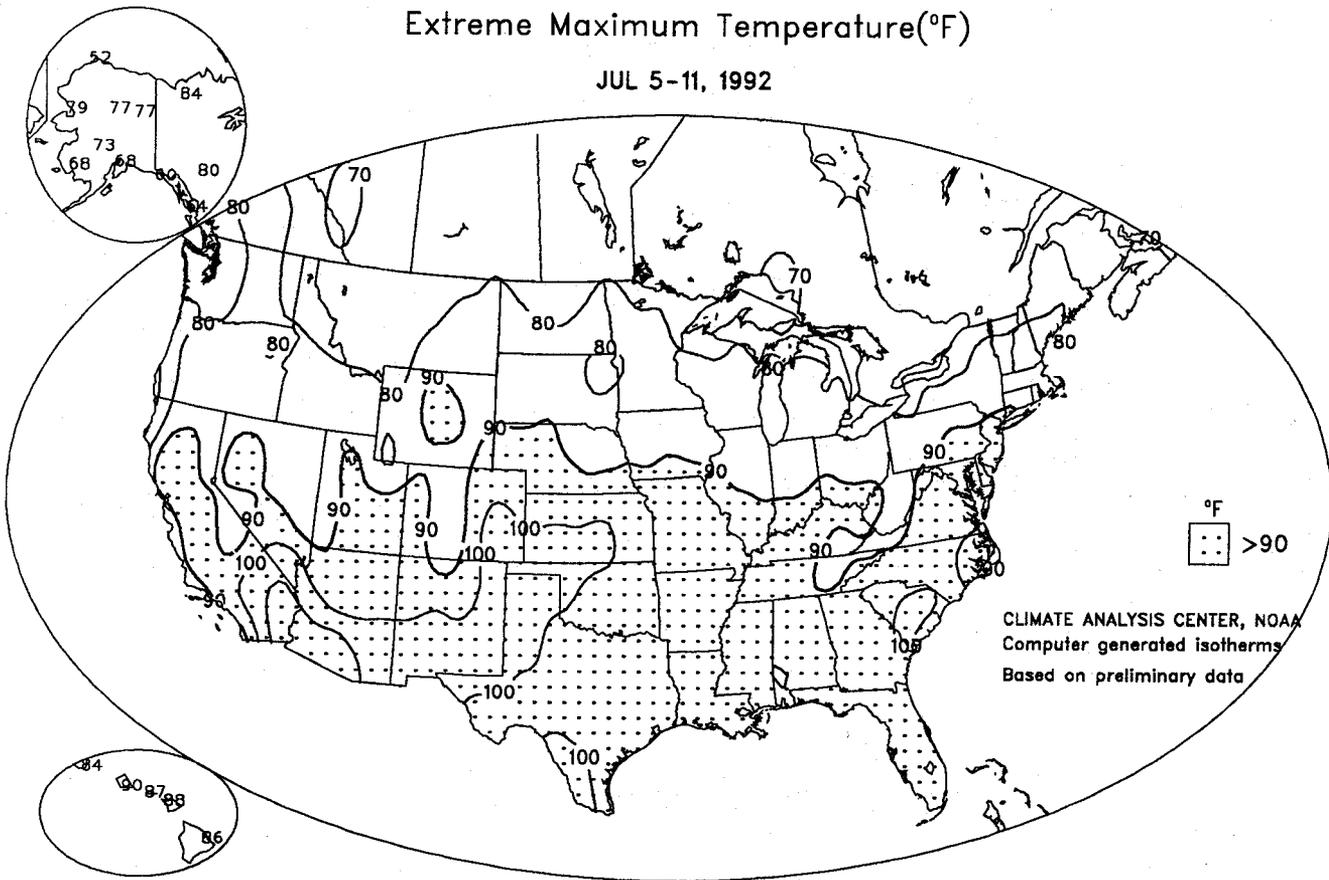
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**Extreme Maximum Temperature(°F)**

**JUL 5-11, 1992**



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