

# 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

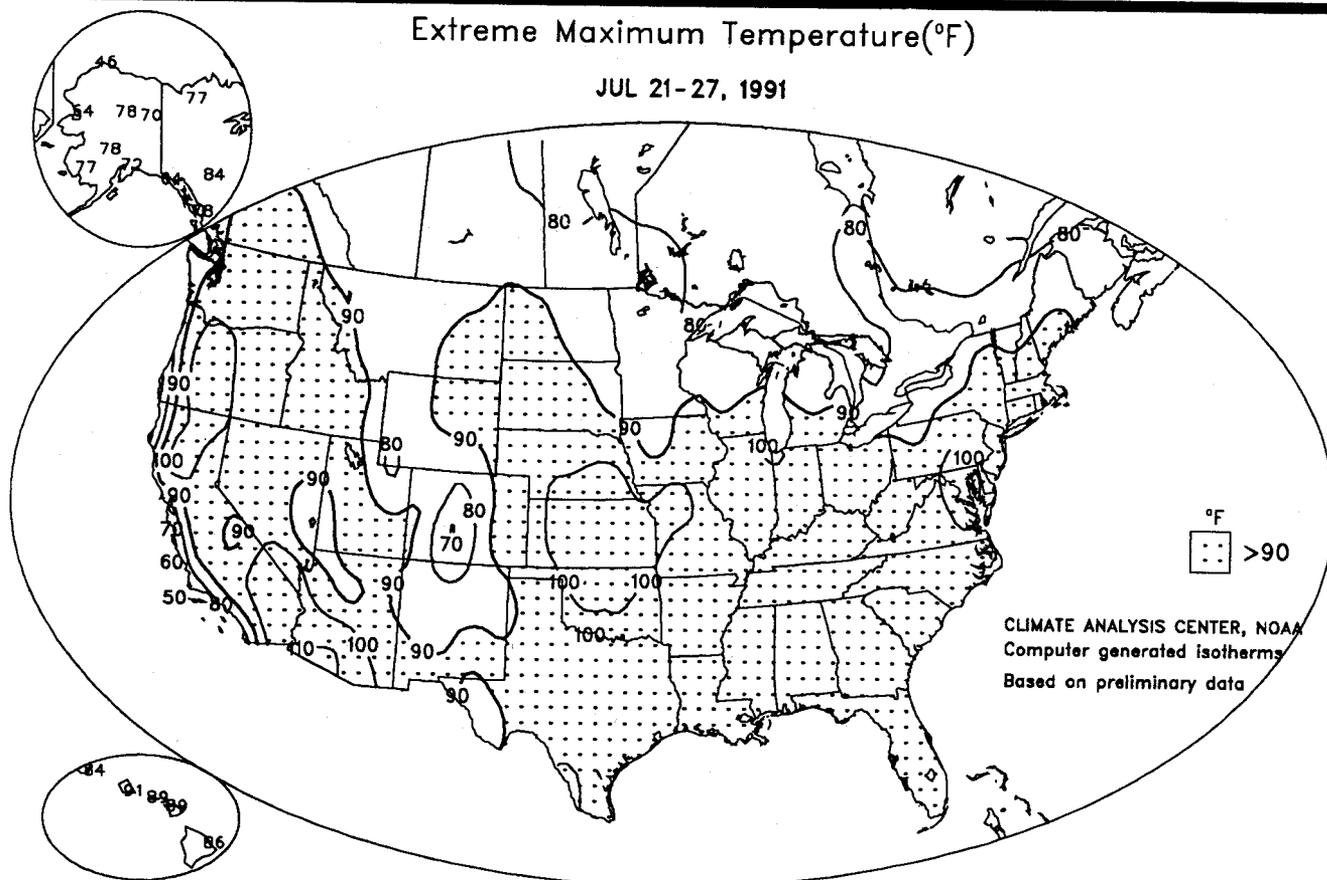
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Washington, D.C.

July 30, 1991

## Extreme Maximum Temperature(°F)

JUL 21-27, 1991



CLIMATE ANALYSIS CENTER, NOAA  
Computer generated isotherms  
Based on preliminary data

## HIGHLIGHTS

July 21 -27, 1991

A strong cold front squelched the 9-day heatwave that baked the eastern half of the Nation. Contrasting airmasses sparked numerous thunderstorms from the mid-Atlantic region to the southern Plains. In the Corn Belt, however, a band from Iowa to western Pennsylvania remained unseasonably dry despite the cool-down. The week started out hot from the central Plains eastward. Gusty southerly winds accompanied temperatures of up to 109° F in Kansas. Danbury, CT, reached the 100° F mark for the fifth day in a row. On Monday, the mercury hit 101° F in Chicago, IL. By Tuesday, the cold front began to flush out the heat. But six cities in the East mustered a daily record high, including a 103° F reading in Harrisburg, PA. Early-week storms pounded the southern Plains and southern Rockies, filling stream beds in parts of Texas and New Mexico. Thunderstorms also

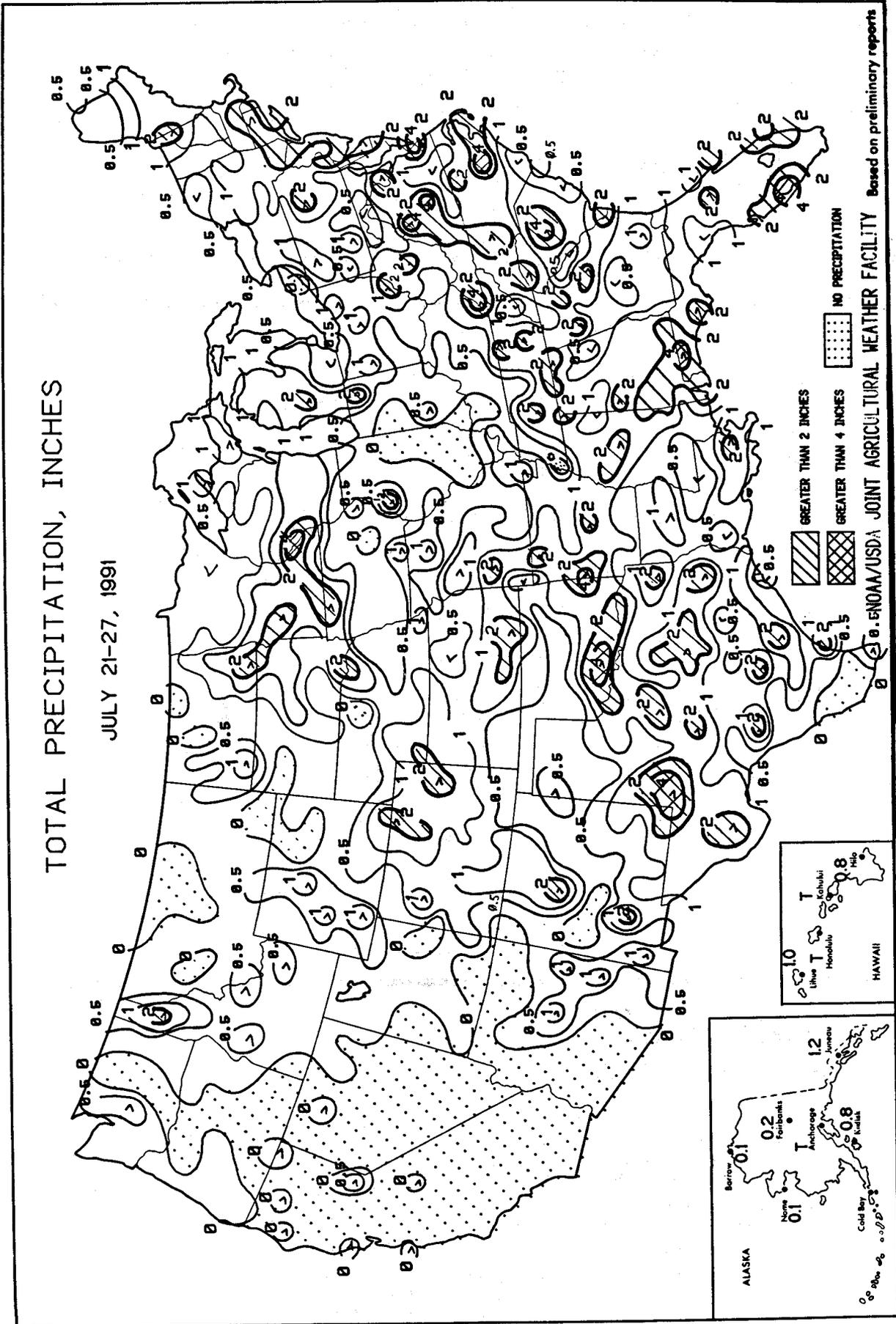
(Continued to p. 10)

### Contents

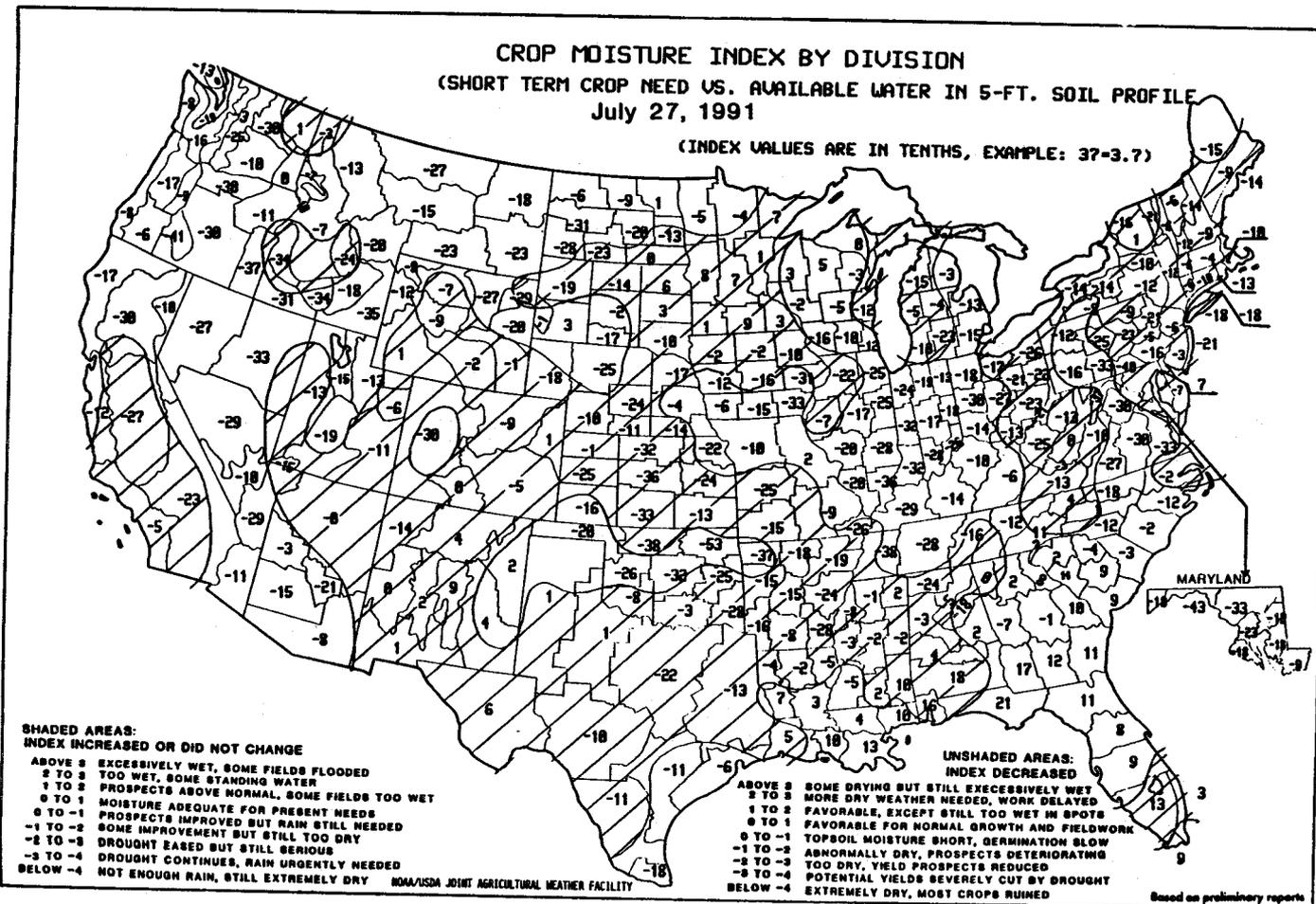
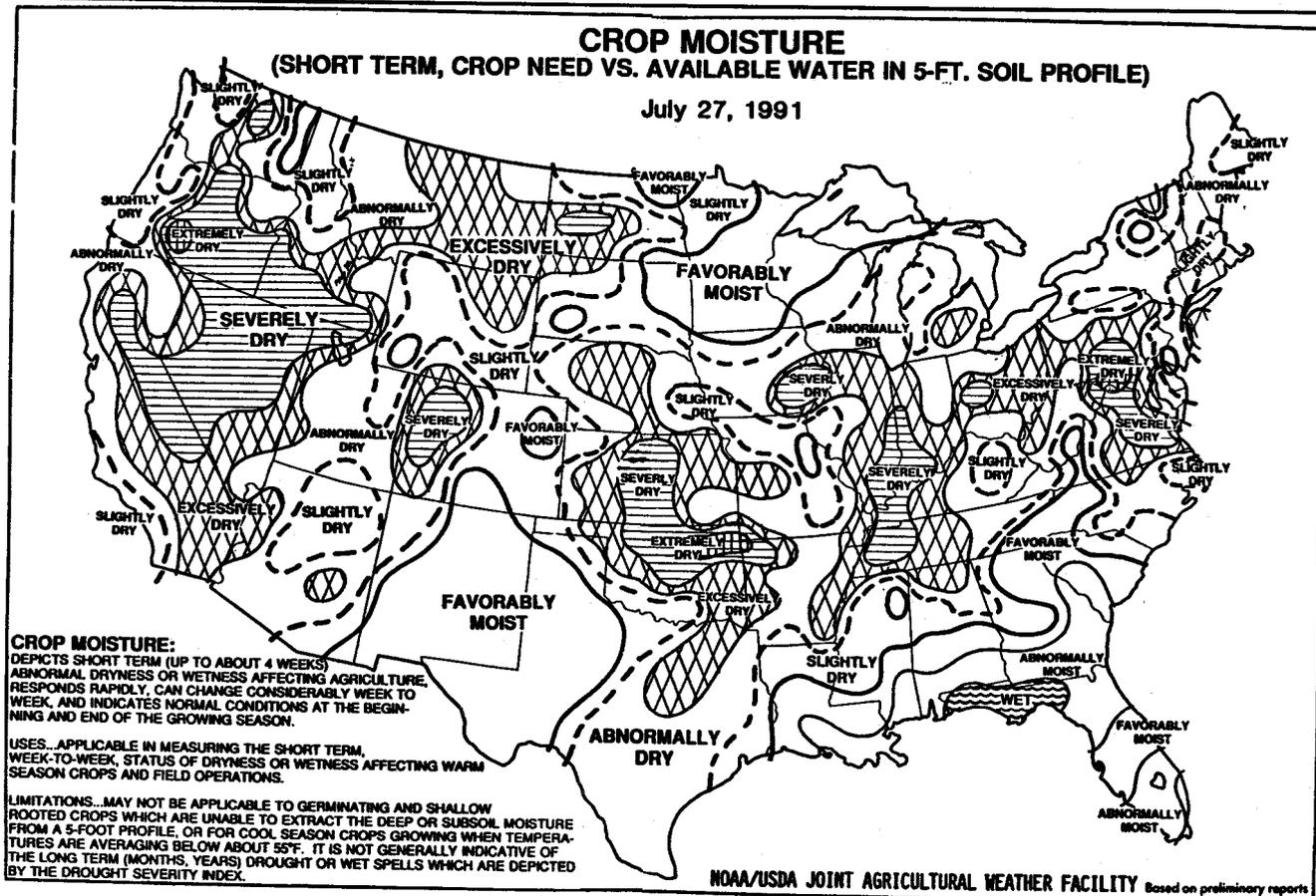
	Page
Highlights & Extreme Maximum Temperature Map . . .	1
Total Precipitation Map . . . . .	2
Crop Moisture Maps . . . . .	3
Drought Severity Maps . . . . .	4
National Weather Data for Selected Cities . . . . .	5
National Agricultural Summary . . . . .	8
Crop Progress and Condition Tables . . . . .	9
State Summaries of Weather and Agriculture . . . . .	11
International Weather and Crop Summary . . . . .	17
Subscription and Mailing Permit Information & Temperature Departure Map . . . . .	20

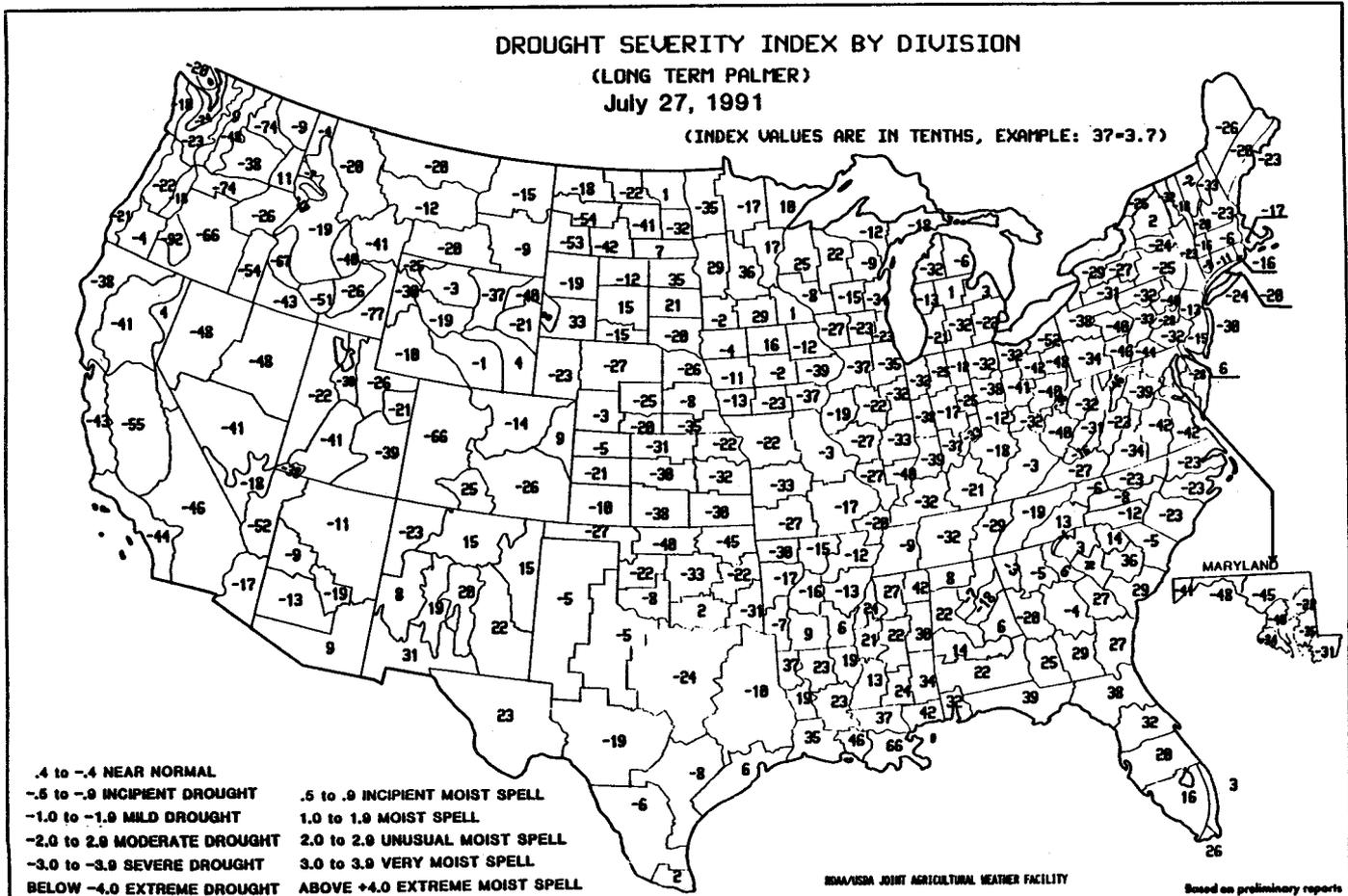
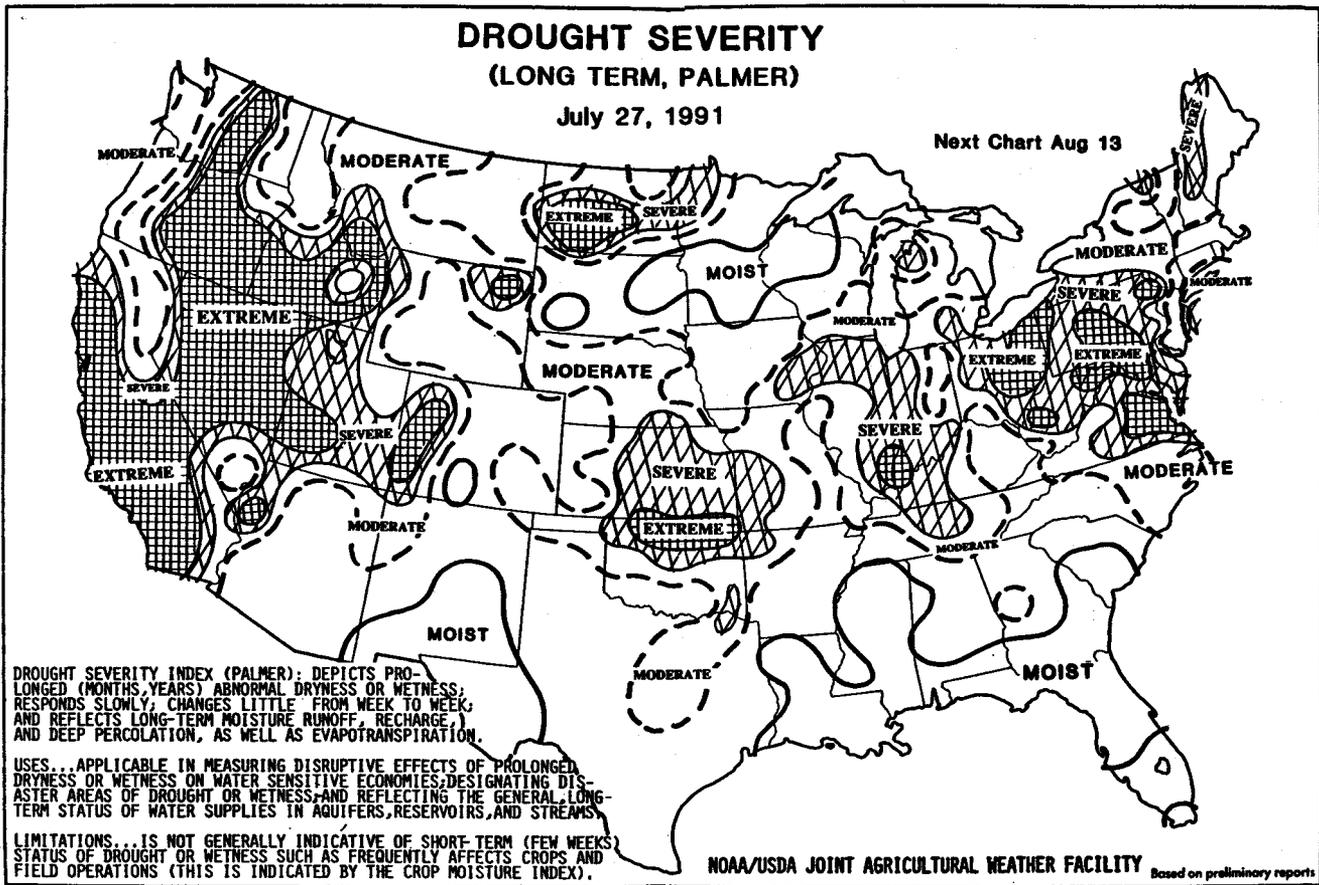
TOTAL PRECIPITATION, INCHES

JULY 21-27, 1991



JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports





# National Weather Data for Selected Cities

Weather Data for the Week Ending July 27, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	93	72	97	70	82	2	1.2	.0	.6	9.5	115	35.7	104	98	50	6	0	3	2			
MOBILE	91	73	94	71	82	-1	3.4	1.6	1.8	15.2	129	64.9	169	97	55	6	0	3	1			
MONTGOMERY	92	72	96	71	82	0	1.1	.0	1.1	11.5	151	49.2	161	97	56	6	0	2	3			
AK ANCHORAGE	68	50	72	44	59	1	.4	-.4	.4	2.6	95	4.7	75	91	52	6	0	0	0			
BARROW	42	31	47	28	36	-3	-.1	-.1	.1	.3	23	4.7	34	99	77	0	0	0	0			
FAIRBANKS	73	51	83	47	62	1	-.2	-.2	1.0	36	4.7	94	96	50	0	0	4	4	0			
JUNEAU	64	51	69	47	58	1	1.3	-.3	.5	7.1	109	31.3	133	98	67	0	0	4	1			
KODIAK	61	47	68	43	54	-1	.8	-.1	10.5	147	49.7	162	96	70	0	0	4	4	0			
NOOME	64	48	75	41	56	5	.1	-.5	.0	3.2	105	6.2	105	93	64	0	0	2	0			
AZ PHOENIX	106	84	108	81	95	2	.0	-.2	.0	.1	13	3.3	103	29	14	7	7	0	0	0		
PRESCOTT	89	59	92	56	74	1	.0	-.8	.0	.9	29	7.1	77	66	22	3	0	0	0	0		
TUCSON	103	73	104	70	88	2	.0	-.8	.0	.5	20	3.9	81	47	15	7	0	0	0	0		
YUMA	105	77	109	74	91	-3	.0	-.6	.0	.0	0	1.8	183	41	13	7	0	0	0	0		
AR FORT SMITH	90	70	100	67	80	0	1.7	1.0	1.2	4.6	72	22.4	95	94	50	4	0	3	1			
LITTLE ROCK	91	73	98	69	82	0	1.5	.7	1.5	5.9	86	31.2	105	82	51	4	0	2	1			
CA BAKERSFIELD	98	68	101	63	83	-2	.0	.0	.0	.0	0	4.6	118	62	22	7	0	0	0	0		
EUREKA	64	54	65	52	59	2	.0	.0	.0	1.4	224	17.4	78	94	74	0	0	0	0	0		
FRESNO	98	67	101	63	82	-2	.0	.0	.0	2.0	17.4	8.5	121	70	24	0	0	0	0	0		
LOS ANGELES	71	63	73	60	67	-3	.0	.0	.0	.2	>1000	8.0	97	87	65	0	0	0	0	0		
REDDING	104	69	110	65	87	2	.0	.0	.0	.1	13	17.3	70	61	16	7	0	0	0	0		
SACRAMENTO	95	59	100	56	77	-1	.0	.0	.0	.5	392	10.7	100	88	30	7	0	0	0	0		
SAN DIEGO	71	64	74	63	67	-3	.0	.0	.0	.5	>1000	10.5	163	85	68	0	0	0	0	0		
SAN FRANCISCO	71	56	76	52	64	-1	.0	.0	.0	.1	92	11.0	89	93	60	0	0	0	0	0		
CO DENVER	78	56	87	53	67	-7	2.8	2.3	1.9	6.3	194	12.2	125	91	44	0	0	4	2	0		
GRAND JUNCTION	90	59	94	56	75	-5	.0	-.1	.0	.7	89	3.5	86	69	20	4	0	0	0	0		
PUEBLO	82	57	93	52	70	-8	.0	-.4	.0	4.3	161	6.7	106	95	39	1	0	5	0	0		
CT BRIDGEPORT	85	72	98	67	79	4	1.9	1.0	1.2	4.4	76	20.2	87	87	57	2	0	5	1	0		
HARTFORD	87	66	101	59	77	3	2.1	1.4	.9	5.2	87	22.7	94	97	49	3	0	4	2	0		
DC WASHINGTON	93	74	101	68	83	4	1.9	1.0	.6	4.6	70	15.8	72	86	45	5	0	6	1	0		
FL APALACHICOLA	90	74	94	72	82	0	1.3	-.4	.8	20.0	183	76.0	268	98	64	5	0	4	0	0		
JACKSON BEACH	93	73	95	72	83	2	.8	-.4	.4	22.3	198	46.6	184	96	56	7	0	4	1	0		
DAYTONA BEACH	94	75	98	73	85	2	.7	-.8	.5	25.2	224	59.9	211	94	53	7	0	3	0	0		
JACKSONVILLE	91	79	93	76	85	0	1.1	-.3	.8	10.6	130	25.6	143	86	62	6	0	4	1	0		
MIAMI	89	75	92	73	82	0	2.1	-.8	.8	13.6	94	27.2	91	93	62	5	0	6	1	0		
ORLANDO	93	74	95	70	83	1	1.3	-.5	1.1	16.4	116	43.6	152	98	53	7	0	3	1	0		
TALLAHASSEE	93	72	97	70	82	1	.9	-.1	.8	15.2	108	63.3	164	100	55	5	0	3	1	0		
TAMPA	91	75	94	73	83	1	2.0	-.3	1.3	12.4	107	28.4	112	95	59	5	0	4	1	0		
WEST PALM BEACH	90	75	92	71	82	0	1.6	-.4	.9	14.0	106	51.2	168	94	59	3	0	3	1	0		
GA ATLANTA	91	73	94	70	82	3	.8	-.3	.6	14.5	193	41.9	135	99	57	5	0	3	1	0		
AUGUSTA	94	72	98	71	83	2	.5	-.5	.4	13.6	177	40.5	147	99	55	7	0	2	0	0		
MACON	94	73	98	72	83	2	.0	-1.0	.4	8.3	109	37.7	131	97	52	7	0	1	0	0		
SAVANNAH	94	74	97	73	84	2	2.1	-.4	1.9	16.8	139	49.3	164	95	55	7	0	4	1	0		
HI HILO	84	69	86	64	76	1	.8	-1.4	.4	16.5	123	86.7	120	95	62	0	0	6	0	0		
HONOLULU	89	74	91	70	82	2	.0	-.1	.0	.4	39	10.9	81	75	44	2	0	1	0	0		
KAHULUI	86	71	89	66	79	0	.0	-.0	.0	.2	37	8.1	68	87	55	0	0	1	0	0		
LIHUE	84	74	84	73	79	0	1.0	-.5	.9	5.0	147	20.5	85	87	64	0	0	3	1	0		
ID BOISE	92	60	95	54	76	1	.4	-.3	.4	1.0	89	6.2	87	62	18	5	0	1	0	0		
LEWISTON	90	60	99	56	75	0	.2	-.1	.2	2.4	128	8.5	110	65	24	3	0	1	0	0		
POCATELLO	88	49	92	47	69	-3	.1	.0	.0	.7	49	9.5	144	87	22	2	0	2	0	0		
IL CHICAGO	84	63	101	53	74	0	.6	-.1	.4	2.2	31	17.0	87	89	37	2	0	2	0	0		
MOLINE	87	62	97	52	75	-1	.1	-1.0	.1	1.6	19	17.1	77	92	38	2	0	1	0	0		
PEORIA	86	63	96	54	74	-1	.0	-.9	.0	1.8	24	16.1	77	91	40	2	0	3	0	0		
QUINCY	83	64	95	56	73	-4	.1	-.9	.1	3.1	39	21.0	96	82	41	2	0	2	0	0		
ROCKFORD	84	61	95	51	72	-1	.0	-1.0	.0	4.0	47	15.2	71	89	38	1	0	1	0	0		
SPRINGFIELD	85	62	94	53	73	-3	.2	-.6	.2	4.3	65	18.3	90	96	46	2	0	2	0	0		
IN EVANSVILLE	91	69	96	61	80	1	.0	-.9	.0	3.2	46	19.2	74	85	42	3	0	0	0	0		
FORT WAYNE	85	62	95	56	74	0	.8	-.1	.8	5.1	77	24.8	120	87	43	2	0	0	0	0		
INDIANAPOLIS	89	65	96	59	77	2	.0	-1.0	.0	3.1	40	22.0	93	85	37	3	0	1	1	0		
SOUTH BEND	87	62	101	50	75	2	.2	-.6	.1	1.7	24	16.6	77	91	36	3	0	0	0	0		
IA DES MOINES	85	63	96	56	74	-2	.1	-.6	.1	3.5	51	24.0	131	84	37	1	0	2	0	0		
ST LOUIS	84	60	91	54	72	-4	.0	-.7	.0	6.1	87	16.3	102	87	44	1	0	1	0	0		
WATERLOO	84	59	95	48	72	-1	.0	-1.0	.0	2.8	34	24.2	121	91	41	2	0	1	0	0		
KS CONCORDIA	93	66	106	59	79	-1	.2	-.5	.2	4.6	65	12.5	75	80	29	2	0	3	0	0		
DODGE CITY	90	64	102	59	77	-3	.3	-.4	.3	1.7	29	6.2	47	81	31	4	0	2	0	0		
GOODLAND	82	59	97	54	70	-6	1.8	1.2	1.3	8.7	180	15.0	142	90	46	1	0	5	1	0		
TOPEKA	89	65	101	56	77	-2	.9	-.0	.4	2.9	33	17.4	87	95	41	2	0	4	0	0		
WICHITA	93	67	105	61	80	-2	1.7	1.0	1.0	4.0	55	11.7	69	83	33	3	0	2	2	0		
KY BOWLING GREEN	90	70	96	64	80	1	.0	-.9	.0	5.5	66	28.9	94	93	55	4	0	1	0	0		
LEXINGTON	88	70	95	63	79	3	.1	-1.0	.1	6.5	76	25.4	89	94	50	3	0	1	0	0		
LOUISVILLE	92	73	98	67	82	4	.0	-.9	.0	4.2	59	22.7	85	81	39	5	0	1	0	0		
LA ALEXANDRIA	91	73	93	71	82	-1	.0	-1.0	.0	6.5	84	53.6	165	94	53	6	0	1	0	0		
BATON ROUGE	94	74	95	72	84	2	.1	-1.6	.1	9.8	106	50.4	149	93	48	7	0	1	0	0		
LAKE CHARLES	91	73	93	71	82	0	.1	-1.1	.1	9.1	105	49.7	170	100	57	5	0	1	0	0		
NEW ORLEANS	93	72	94	68	82	0	3.0	1.5	2.8	23.8	228	84.3	242	94	52	6	0	3	1	0		

Based on 1951-80 normals

Weather Data for the Week Ending July 27, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	92	72	96	71	82	-1	1.4	.6	.8	5.8	88	54.1	199	98	53	5	0	0	3	3	1	0
ME CARIBOU	77	56	85	48	67	1	1.6	.3	.4	2.9	44	17.0	90	90	44	0	0	0	3	3	0	0
PORTLAND	85	63	96	57	74	1	1.1	.5	.6	3.8	69	25.3	106	90	43	2	0	0	0	2	2	1
MD BALTIMORE	92	72	102	62	82	5	.8	.1	.5	2.6	36	15.4	66	86	45	4	0	0	0	2	2	1
SALISBURY	91	72	98	64	81	4	2.6	1.6	1.4	8.3	114	26.0	105	99	56	5	0	0	0	3	3	2
MA BOSTON	86	70	99	65	78	4	1.3	.7	.9	4.8	93	19.7	82	87	47	3	0	0	0	3	3	1
CHATHAM	80	66	87	65	73	4	1.6	.8	.8	3.6	69	18.9	75	95	76	0	0	0	0	4	4	2
MI ALPENA	77	54	84	45	65	-1	.7	.0	.4	5.1	88	18.4	115	95	51	0	0	0	0	5	5	0
DETROIT	85	63	95	57	74	1	2.0	.5	.2	2.9	48	15.6	87	87	39	1	1	0	0	0	0	0
FLINT	81	60	90	53	71	0	1.0	.3	.7	5.8	102	18.1	110	93	47	1	1	0	0	2	2	1
GRAND RAPIDS	81	61	91	50	71	-1	3.0	2.4	2.4	6.3	101	21.9	117	92	46	1	1	0	0	1	2	1
HOUGHTON LAKE	77	57	84	42	67	-1	.6	.0	.6	3.4	61	18.0	116	89	47	0	0	0	0	2	2	1
LANSING	82	58	91	47	70	-1	.4	.1	.2	4.3	70	16.3	97	97	47	1	1	0	0	2	2	1
MARQUETTE	71	51	83	41	61	-4	.7	.1	.6	7.4	110	20.0	95	92	62	0	0	0	0	5	5	1
MUSKOGON	80	61	87	49	71	0	.5	.0	.3	6.3	139	19.9	119	93	50	0	0	0	0	3	3	1
SAULT ST. MARIE	72	52	79	45	62	-3	.6	.0	.6	3.8	65	14.6	86	94	55	0	0	0	0	1	1	1
MN ALEXANDRIA	75	59	85	54	67	-4	1.0	.0	.7	9.5	141	19.3	133	89	48	0	0	0	0	3	3	1
DULUTH	72	51	77	40	62	-4	.1	.1	.8	8.2	112	20.5	125	93	49	0	0	0	0	2	2	0
INT'L FALLS	75	50	84	42	63	-4	.3	.6	.2	8.5	121	17.9	131	96	41	0	0	0	0	2	2	0
MINNEAPOLIS	78	60	89	53	70	0	.9	.2	.6	5.6	79	19.3	124	89	46	0	0	0	0	3	3	1
ROCHESTER	79	57	89	49	68	-3	1.5	.6	.8	6.9	98	19.9	123	95	53	0	0	0	0	3	3	1
MS GREENWOOD	93	73	97	71	83	1	2.4	1.4	1.2	7.5	101	46.7	139	98	53	5	0	0	3	3	2	0
JACKSON	93	73	99	72	83	1	2.6	1.4	.4	6.6	93	47.5	146	99	56	6	0	0	3	3	2	0
MERIDIAN	92	71	95	69	81	1	2.2	1.0	.6	6.9	85	47.4	140	97	52	6	0	0	3	3	3	0
MO CAPE GIRARDEAU	90	69	98	60	80	0	.5	.2	.4	3.8	55	23.1	86	88	38	3	0	0	3	3	0	0
COLUMBIA	87	64	99	55	75	-4	.5	.2	.3	5.6	87	18.0	82	88	41	2	0	0	3	3	0	0
KANSAS CITY	89	66	102	57	78	-3	1.0	.1	.5	4.7	56	17.3	82	90	38	2	0	0	3	3	1	0
SAINT LOUIS	88	70	96	62	79	0	.7	.8	.7	5.5	80	18.4	87	75	40	2	0	0	1	1	1	0
SPRINGFIELD	88	65	97	59	76	-2	1.5	.7	1.1	4.4	57	20.3	87	90	43	3	0	0	2	2	1	0
MT BILLINGS	85	60	92	57	72	-1	.1	.1	.1	6.7	240	14.7	151	64	27	1	0	0	1	1	0	0
GLASGOW	85	57	91	51	71	-1	.1	.3	.1	5.4	136	9.2	127	77	25	2	0	0	1	1	0	0
GREAT FALLS	84	53	87	50	69	-2	.1	.1	.1	4.9	132	10.1	98	72	24	0	0	0	1	1	0	0
HAVER	85	54	91	49	70	-1	.0	.3	.0	1.5	46	7.9	101	70	22	1	0	0	0	0	0	0
HELENA	86	57	89	51	72	3	.4	.2	.4	4.0	137	7.7	103	68	24	0	0	0	1	1	0	0
KALISPELL	84	51	90	43	67	1	.7	.1	.7	4.0	133	10.1	109	88	32	1	0	0	1	1	0	0
MILES CITY	86	63	94	53	75	-1	.7	.3	.7	6.7	163	14.5	151	71	35	2	0	0	1	1	0	0
MISSOULA	87	56	93	46	72	3	.7	.2	.7	3.0	118	7.7	94	71	24	2	0	0	0	0	0	0
NH GRANVILLE	87	61	102	54	74	-3	.3	.3	.2	11.0	181	22.4	147	91	41	2	0	0	2	2	0	0
LINCOLN	81	65	106	56	78	0	.7	.7	.7	7.6	114	16.8	100	82	34	2	0	0	1	1	0	0
NORFOLK	87	62	99	54	74	-4	.1	.6	.1	7.7	107	21.3	134	89	38	1	0	0	1	1	0	0
NORTH PLATTE	83	60	100	53	71	-2	1.6	1.0	.9	4.6	72	14.5	107	93	42	1	0	0	3	3	2	0
OMAHA	83	64	93	59	74	-4	.2	.6	.2	10.0	138	24.8	138	83	51	2	0	0	2	2	0	0
SCOTTSDUFF	84	59	95	53	71	-4	.1	.2	.1	4.6	97	11.4	108	88	36	3	0	0	1	1	0	0
VALENTINE	85	59	92	49	72	-3	.6	.1	.3	7.2	143	17.2	151	90	36	1	0	0	2	2	0	0
NV ELY	88	48	90	43	68	-1	.7	.1	.7	.5	36	5.8	104	45	16	3	0	0	0	0	0	0
LAS VEGAS	103	75	106	71	89	-2	.0	.1	.0	.3	67	2.1	98	22	9	7	0	0	0	0	0	0
RENO	93	55	96	49	74	4	.0	.1	.0	.4	81	3.1	67	65	13	7	0	0	0	0	0	0
WINNEMUCCA	94	57	99	48	76	3	.7	.0	.7	.7	61	4.6	96	54	13	7	0	0	1	1	0	0
NH CONCORD	87	61	95	53	74	4	.8	.2	.6	3.5	64	14.9	76	97	43	2	0	0	3	3	1	0
NJ ATLANTIC CITY	89	72	100	66	80	5	2.1	1.1	1.0	6.7	109	22.5	97	99	57	3	0	0	4	4	2	0
NM ALBUQUERQUE	85	61	88	58	73	-7	2.3	1.9	1.2	3.3	207	5.2	142	88	34	0	0	0	4	4	2	0
CLOVIS	81	64	87	60	72	-6	.5	.2	.2	10.8	210	12.7	135	88	45	0	0	0	3	3	0	0
ROSWELL	86	66	93	62	76	-4	.8	.4	.3	8.1	332	9.7	205	88	42	3	0	0	3	3	0	0
NY ALBANY	85	62	94	53	74	2	.5	.1	.3	3.1	53	16.3	83	94	49	3	0	0	3	3	0	0
BINGHAMTON	82	61	89	53	72	3	.8	.1	.5	4.3	65	18.1	88	90	48	0	0	0	4	4	0	0
BUFFALO	82	64	88	53	73	2	.6	.2	.6	4.2	80	23.2	119	92	44	0	0	0	1	1	1	0
NEW YORK	88	73	100	70	81	3	2.5	1.6	1.0	6.6	105	21.3	90	90	45	3	0	0	5	5	2	1
ROCHESTER	83	63	88	53	73	1	.6	.0	.6	3.2	64	17.2	100	90	42	0	0	0	1	1	1	0
SYRACUSE	85	63	91	57	74	3	1.2	.4	1.1	4.4	65	20.3	94	89	43	2	0	0	2	2	1	0
NC ASHEVILLE	87	66	91	65	77	3	2.8	1.9	1.8	10.5	150	29.4	114	99	52	3	0	0	3	3	2	1
CHARLOTTE	95	74	99	71	84	5	2.2	1.3	1.9	6.0	86	28.9	111	91	44	7	0	0	2	2	1	0
GREENSBORO	92	72	97	69	82	4	1.5	.5	1.4	5.6	73	29.5	119	87	48	6	0	0	3	3	1	0
HATTERAS	87	77	90	72	82	3	3.3	2.0	3.0	11.8	132	34.3	118	94	72	1	0	0	3	3	1	0
NEW BERN	94	77	99	73	85	6	2.7	1.1	1.3	8.5	77	27.1	90	96	59	5	0	0	4	4	1	0
RALEIGH	93	73	96	70	83	5	1.9	.9	1.6	10.9	148	24.3	99	97	51	6	0	0	3	3	1	0
WILMINGTON	93	78	95	74	85	4	.7	.7	.7	10.4	86	35.9	111	94	60	6	0	0	1	1	0	0
ND BISMARCK	84	53	92	43	69	-3	.4	.1	.4	3.3	69	9.3	92	87	30	1	0	0	1	1	0	0
FARGO	78	55	84	47	67	-5	.2	.4	.4	8.1	136	16.2	137	92	43	0	0	0	1	1	0	0
GRAND FORKS	79	54	84	48	67	-3	.4	.4	.1	5.3	99	13.7	128	92	40	0	0	0	3	3	0	0
WILLISTON	84	56	95	46	70	-2	.1	.3	.1	7.2	170	12.4	140	84	31	1	0	0	2	2	0	0
OH AKRON-CANTON	87	63	94	53	75	3	.6	.4	.5	1.4	21	13.0	61	94	37	3	0	0	2	2	1	0
CINCINNATI	89	69	96	64	79	3	.3	.7	.2	4.0	52	24.1	97	80	38	3	0	0	2	2	1	0
CLEVELAND	84	64	94	56	74	2	1.1	.3</														

Weather Data for the Week Ending July 27, 1991

STATES  AND  STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
DAYTON	88	64	96	59	76	1	.2	-.5	.2	5.0	74	24.4	113	81	38		3	0	1	0		
TOLEDO	87	62	96	55	75	2	.1	-.6	.1	2.0	32	15.4	83	92	40		3	0	1	0		
YOUNGSTOWN	85	61	92	50	73	2	.8	-.1	.8	5.4	78	16.2	74	96	44		2	0	2	1		
OK OKLAHOMA CITY	90	70	98	67	80	-3	.8	-.6	T	5.8	90	16.8	88	85	43		3	0	1	0		
TULSA	93	73	101	65	83	-1	.2	-.6	.1	4.0	52	14.5	63	80	40		5	0	2	0		
OR ASTORIA	71	55	83	50	63	2	.2	.0	.2	2.2	63	35.4	96	96	63		0	0	2	0		
BURNS	88	51	92	44	69	-1	.0	-.1	.0	.6	70	4.1	72	59	15		2	0	0	0		
MEDFORD	93	57	102	52	75	1	.1	-.1	.1	1.8	202	10.4	100	90	25		6	0	3	0		
PENDLETON	89	60	95	53	75	0	.1	.0	.1	2.4	258	8.8	129	59	20		4	0	1	0		
PORTLAND	85	59	100	54	72	4	T	.0	T	2.4	130	20.7	104	89	40		2	0	1	0		
SALEM	85	56	98	47	70	3	T	-.1	T	1.7	110	21.3	98	89	39		2	0	0	0		
PA ALLENTOWN	87	68	97	59	78	4	1.0	.0	.5	6.2	90	19.9	81	96	53		3	0	6	1		
ERIE	82	65	89	57	74	4	T	-.8	T	4.2	61	16.0	77	84	46		0	0	0	0		
HARRISBURG	94	71	103	65	82	6	1.4	.6	1.2	3.5	53	16.7	74	88	41		5	0	3	1		
PHILADELPHIA	90	74	99	67	82	5	1.3	.4	1.0	8.1	111	21.7	92	89	52		4	0	4	1		
PITTSBURGH	87	68	94	59	78	5	.4	-.4	.4	7.0	103	20.3	91	84	39		3	0	2	0		
SCRANTON	86	65	95	59	76	3	1.9	1.2	.7	4.2	65	15.5	80	94	48		3	0	3	3		
RI PROVIDENCE	88	68	102	62	78	4	2.0	1.3	1.6	3.7	70	24.2	98	94	50		2	0	3	1		
SC CHARLESTON	94	76	97	73	85	4	.3	-.4	.2	10.9	84	34.3	111	91	53		7	0	3	0		
COLUMBIA	95	74	99	71	84	3	4.3	3.1	1.3	18.7	206	45.3	151	95	53		7	0	6	4		
FLORENCE	94	75	97	70	85	4	.6	-.7	.3	8.5	88	25.6	95	97	55		7	0	3	0		
GREENVILLE	94	71	97	68	82	3	2.0	1.0	2.0	6.1	74	31.0	99	95	47		7	0	2	1		
SD ABERDEEN	79	57	91	47	68	-5	.8	.3	.7	6.1	114	18.7	158	89	48		1	0	0	1		
BURON	82	56	90	47	69	-6	1.5	1.0	1.2	7.5	141	18.4	150	92	42		1	0	3	1		
RAPID CITY	85	59	98	50	72	-2	.1	-.3	.1	4.4	87	13.6	116	87	34		1	0	2	0		
SIoux FALLS	80	57	90	47	69	-6	.8	.2	.7	8.6	143	18.5	127	95	46		1	0	3	1		
TN CHATTANOOGA	92	72	97	70	82	2	1.1	.0	.8	7.7	105	36.5	114	97	51		4	0	3	1		
KNOXVILLE	91	70	94	69	81	3	.3	-.7	.2	9.0	116	32.0	108	98	52		4	0	3	1		
MEMPHIS	93	74	97	71	83	1	T	-.9	T	3.1	44	40.4	126	87	46		5	0	0	0		
NASHVILLE	93	71	100	66	82	3	T	-.8	T	4.1	58	25.0	83	94	46		5	0	1	0		
TX ABILENE	90	70	96	68	80	-4	1.9	1.4	1.4	10.2	234	16.2	125	86	45		3	0	3	1		
AMARILLO	83	63	92	57	73	-6	T	-.5	T	4.7	81	9.1	79	90	47		1	0	2	0		
AUSTIN	95	74	96	72	84	-1	T	-.4	T	5.5	118	27.5	156	93	43		7	0	0	0		
BEAUMONT	92	75	94	73	83	0	.7	-.7	.4	10.1	101	51.8	170	97	58		7	0	3	0		
BROWNSVILLE	93	76	95	72	84	0	.8	.4	.7	3.2	80	19.5	179	97	53		7	0	2	1		
CORPUS CHRISTI	92	75	94	73	83	-2	.1	-.5	.0	7.5	127	23.1	154	98	56		6	0	2	0		
DEL RIO	94	73	96	69	83	-3	.3	-.3	.2	4.0	124	9.6	106	72	35		7	0	1	0		
EL PASO	90	65	94	63	77	-5	.5	.1	.2	2.3	120	3.9	113	94	37		4	0	4	0		
FORT WORTH	84	74	98	72	84	-2	1.5	1.0	1.4	6.2	147	23.5	127	89	44		6	0	2	1		
GALVESTON	89	79	90	76	84	0	.4	-.5	.2	9.2	135	40.8	201	84	63		1	0	3	0		
HOUSTON	91	74	94	73	83	-1	1.1	.3	.6	9.0	119	38.4	151	96	57		4	0	3	1		
LUBBOCK	87	66	95	62	76	-4	.4	-.1	.4	7.3	151	11.0	107	91	48		3	0	2	0		
MIDLAND	85	66	92	64	76	-6	6.6	6.2	2.9	12.0	415	14.6	203	95	59		3	0	5	4		
SAN ANGELO	91	68	98	64	80	-4	1.7	1.4	.8	6.0	208	10.6	114	91	43		5	0	4	1		
SAN ANTONIO	94	75	97	72	85	0	1.0	.6	1.0	4.5	97	23.2	148	94	46		7	0	1	1		
VICTORIA	91	75	93	73	83	-2	3.4	2.8	2.4	12.0	176	39.3	204	98	55		6	0	4	2		
WACO	97	73	100	71	85	-2	2.5	2.1	1.3	6.9	167	21.0	115	96	43		7	0	3	2		
WICHITA FALLS	91	73	101	68	82	-4	1.8	1.4	1.3	4.7	102	13.2	85	85	45		4	0	3	1		
UT CEDAR CITY	89	57	94	53	73	-2	T	-.3	T	.7	49	4.6	82	47	12		3	0	0	0		
SALT LAKE CITY	92	63	94	59	77	-1	.1	-.1	.1	1.4	88	9.7	102	62	17		6	0	1	0		
VT BURLINGTON	83	62	92	53	73	3	.6	-.2	.6	3.9	60	15.2	85	94	45		1	0	1	1		
VA NORFOLK	94	77	100	73	86	7	1.5	.3	.9	9.5	121	26.8	106	94	53		6	0	3	1		
RICHMOND	91	74	99	69	83	4	.6	-.6	.3	9.3	116	21.7	89	95	59		5	0	3	0		
ROANOKE	91	70	97	66	80	4	3.5	2.7	2.3	8.4	134	27.0	120	92	46		5	0	4	2		
WA QUILLAYUTE	70	54	85	52	62	3	.2	-.4	.1	3.6	70	52.0	93	98	60		0	0	5	0		
SEATTLE-TACOMA	80	58	99	53	69	3	.3	.1	.3	1.6	79	23.3	118	86	47		1	0	1	0		
SPOKANE	85	59	95	53	72	1	.3	-.2	.2	1.7	106	9.5	101	73	27		2	0	2	0		
YAKIMA	90	54	96	47	72	1	.0	.0	.0	2.7	393	5.3	120	81	26		3	0	0	0		
WV BECKLEY	83	67	88	64	75	5	.8	-.2	.6	4.2	52	22.2	86	99	59		0	0	2	1		
CHARLESTON	90	70	98	67	80	5	.7	-.6	.7	5.0	63	21.7	85	94	45		3	0	2	1		
HUNTINGTON	90	70	97	65	80	4	.8	-.3	.8	3.9	52	22.4	90	94	41		3	0	2	1		
PARKERSBURG	89	69	97	62	79	4	2.5	1.6	2.1	7.9	107	24.2	104	91	44		3	0	4	1		
WI GREEN BAY	77	57	88	47	67	-3	.8	.0	.7	4.0	68	13.0	82	96	50		0	0	3	1		
LACROSSE	80	60	89	52	70	-3	1.4	.5	1.1	5.3	71	21.7	123	97	48		0	0	3	1		
MADISON	81	58	93	50	70	-1	1.3	.5	1.2	8.3	117	21.2	120	95	46		1	0	3	1		
MILWAUKEE	81	65	96	56	73	1	.6	-.1	.6	6.0	91	20.0	110	83	47		1	0	2	1		
WAUSAU	75	56	86	47	65	-4	.3	-.6	.2	8.8	120	22.4	127	97	53		0	0	3	0		
WY CASPER	83	55	93	48	69	-3	.1	-.2	.0	1.8	84	9.3	121	82	29		1	0	3	0		
CHRYSENNE	74	53	88	50	64	-6	2.2	1.8	1.6	8.0	218	13.9	154	93	42		0	0	5	1		
LANDER	82	55	90	51	68	-4	.8	.7	.5	1.6	80	10.5	115	79	33		1	0	2	1		
SHERIDAN	86	55	93	51	71	0	T	-.2	T	1.3	41	10.2	101	71	28		1	0	1	0		

Based on 1951-80 normals

## National Agricultural Summary

July 22 - 28, 1991

**HIGHLIGHTS:** Predominately dry weather intensified drought conditions in the Corn Belt from eastern Iowa through Indiana, increasing stress to corn and soybeans in the region. Soil moisture supplies were boosted by rains in the southern Plains through the Delta and Atlantic Coast States.

**SMALL GRAINS:** Winter wheat harvest was 86 percent (%) complete in the 19 major producing States, matching last year's progress and falling just 1 percentage point short of the 5-year average. Harvest was ahead of schedule in the Great Plains but later than normal in the Pacific Northwest. South Dakota's harvest was 97% complete, compared with 76% last year and 70% average. Harvest was just underway in Idaho and Montana, 17% complete in Oregon, and 9% complete in Washington. Spring wheat was 8% harvested in the five major producing States, compared with 4% last year and 12% average. Spring wheat condition worsened in all five States, with poor or very poor condition ratings reported for 32% of Minnesota's wheat acreage, 12% of Idaho's, and 9% of Montana's. Barley harvest got underway in the northern Rocky Mountains and advanced past the midpoint in Michigan. Harvest of oats neared completion in the Ohio Valley and central Atlantic Coast and progressed in the northern production areas.

**CORN:** Corn development remained well ahead of schedule with 84% of the crop silking in the 17 major producing States, compared with 51% last year and 73% average. Twenty-nine percent of the crop was in the dough stage, compared with 8% last year and 18% average. Continued lack of rain in the eastern Corn Belt pushed condition ratings lower. Thirty-seven percent of the crop rated very poor or poor in Indiana, as did 19% of the crop in Illinois and Ohio. Condition ratings were mostly fair in the Corn Belt States and good elsewhere. Corn harvest was slightly delayed by rain in Texas, while harvest increased in Alabama and Georgia.

**SOYBEANS:** Soybeans had reached bloom on 70% of the acreage in the 19 major producing States, 19 percentage points ahead of last year and 3 points ahead of the average. Pods were setting on 39% of the acreage, compared with 15% last year and 31% average. Crop development remained behind normal in the Gulf Coast States and well ahead of normal in South Dakota and the Ohio Valley. Crop condition continued to deteriorate in the Corn Belt, but conditions improved in the Southeast.

**COTTON:** Ninety percent of the cotton crop was squaring in the 14 major producing States, 6 percentage points behind last year and 3 points behind the average. Bolls were setting on 60% of the acreage, 6 points behind last year and 1 point behind the average. Crop condition was good in the Southwest and Southeast but mostly fair in the Mississippi and Tennessee Valleys. One-third of Missouri's crop rated poor. Cotton harvest in South Texas made minimal progress due to wet weather, but most fields were already defoliated.

**GRAIN SORGHUM:** Heading progress advanced to 45% in the 12 major producing States, 13 points ahead of last year and 5 points ahead of the historic average. Crop condition was mostly good in the High Plains and fair in Kansas and the Mississippi Valley. Chinch bugs and grasshoppers were causing light to moderate damage to sorghum in many areas of Kansas.

**RICE:** Thirty-six percent of the Nation's rice crop had headed, compared with 29% last year and 38% average. Crop condition rated fair in Louisiana and mostly good in the other major producing States. Rice harvest was delayed by rain in Texas, with 19% of the crop harvested. Harvest was 17% complete in Louisiana.

**OTHER FIELD CROPS:** Alfalfa hay was in the third cutting in the Ohio Valley and central Plains, while second cutting advanced further northward. Harvest of early potatoes continued in south-central Washington, and the Idaho crop was reported to be in good condition. Harvest of summer potatoes was active in Colorado. Sweet potatoes were being dug in Louisiana. Twenty-nine percent of the North Dakota sunflower crop had bloomed, as had 90% of the State's flax. Dry pea harvest was underway in Washington.

**FRUIT AND NUTS:** California's San Joaquin Valley table grape harvest gained momentum. Freestone peach picking was past the midpoint and cling peach harvest began. Pears, plums, and nectarines were also being harvested in California. Grasshopper populations were causing problems in Florida's west coast citrus. Blueberries, apples, and peaches were being picked in New England. New York tree fruit benefited from recent rains. Peach harvest remained active in the Carolina's. Sweet cherry harvest was winding down in Oregon's Willamette Valley, and tart cherry harvest was beginning. Peach and early-season apples were also being harvested in Oregon. Tart cherry harvest continued in Utah. Texas and New Mexico pecans were reported to be in good shape.

**VEGETABLES:** Mixed summer vegetables and melons were being harvested in Arizona. Broccoli, cauliflower, celery, and lettuce were in heavy supply in California. Tomato and melon harvests were also active in California. Summer vegetable harvests were in full swing in Maryland and Delaware. Tomato and pepper harvests continued in full swing in Texas, as well as preparations for fall planting. Planting of fall vegetables and summer vegetable harvests were active in Virginia.

**PASTURES AND LIVESTOCK:** Pastures deteriorated due to the hot, dry conditions in Kentucky and the Ohio Valley. Recent rains continued improving range and pasture conditions across Texas. Pastures were good to excellent in the Southeast.

**CROP PROGRESS**

For Week Ending July 28, 1991

Soybeans  
% Setting Pods

	1991	1990	Avg.
AL	10	29	20
AR	16	0	9
GA	21	27	24
IL	76	16	49
IN	57	11	27
IA	40	27	48
KS	30	15	25
KY	23	5	14
LA	5	30	25
MI	20	5	10
MN	30	14	37
MS	17	18	17
MO	22	7	32
NE	24	6	28
NC	15	4	0
OH	65	18	26
SC	10	7	7
SD	52	19	18
TN	5	7	15
19 States	39	15	31

These 19 states produced 95% of the 1990 soybeans crop.

Soybeans  
% Bloom

	1991	1990	Avg.
AL	29	48	44
AR	30	9	25
GA	56	54	54
IL	95	54	83
IN	95	58	75
IA	74	71	87
KS	65	40	55
KY	62	24	50
LA	29	56	51
MI	70	50	55
MN	77	78	83
MS	38	53	41
MO	57	30	65
NE	76	54	77
NC	38	26	23
OH	97	52	68
SC	34	30	24
SD	80	58	64
TN	16	26	40
19 States	70	51	67

These 19 states produced 95% of the 1990 soybeans crop.

Cotton  
% Squaring

	1991	1990	Avg.
AL	99	100	99
AZ	100	100	100
AR	100	100	100
CA	100	100	100
GA	98	100	100
LA	98	96	98
MS	93	100	98
MO	100	100	100
NM	95	99	99
NC	98	95	93
OK	75	90	78
SC	99	96	99
TN	88	95	96
TX	83	94	88
14 States	90	96	93

These 14 states produced 99% of the 1990 cotton crop.

Cotton  
% Setting Bolls

	1991	1990	Avg.
AL	77	91	83
AZ	90	97	93
AR	82	88	87
CA	65	75	76
GA	83	97	91
LA	86	88	82
MS	70	91	84
MO	78	82	90
NM	59	57	49
NC	80	83	73
OK	19	42	35
SC	87	81	71
TN	45	60	72
TX	46	46	40
14 States	60	66	61

These 14 states produced 99% of the 1990 cotton crop.

Grain Sorghum  
% Headed

	1991	1990	Avg.
AR	60	35	63
CO	15	15	10
IL	62	7	47
KS	20	10	15
LA	75	86	81
MS	65	83	76
MO	44	22	53
NE	49	8	34
NM	4	37	0
OK	33	24	43
SD	18	6	15
TX	76	74	70
12 States	45	32	40

These 12 states produced 98% of the 1990 grain sorghum crop.

Winter Wheat  
% Harvested

	1991	1990	Avg.
AR	100	100	100
CA	95	98	99
CO	90	93	93
GA	100	100	100
ID	1	9	13
IL	100	99	100
IN	100	97	100
KS	100	100	100
MI	97	75	80
MO	100	100	100
MT	3	9	20
NE	98	96	97
NC	100	100	100
OH	100	93	97
OK	100	100	100
OR	17	25	21
SD	97	76	70
TX	100	100	100
WA	9	23	24
19 States	86	86	87

These 19 states produced 91% of the 1990 winter wheat crop.

Corn  
% Silking

	1991	1990	Avg.
CO	54	43	59
GA	99	100	100
IL	100	65	90
IN	97	53	75
IA	78	50	81
KS	99	80	80
KY	85	57	79
MI	85	30	55
MN	45	25	54
MO	85	57	87
NE	94	65	81
NC	98	98	94
OH	97	53	67
PA	63	23	37
SD	70	30	38
TX	94	94	93
WI	76	18	53
17 States	84	51	73

These 17 states produced 95% of the 1990 corn crop.

Corn  
% Dough

	1991	1990	Avg.
CO	8	5	7
GA	96	97	98
IL	71	10	36
IN	53	3	23
IA	0	0	7
KS	50	25	30
KY	28	9	21
MI	2	0	4
MN	0	0	0
MO	53	17	45
NE	20	3	10
NC	84	70	67
OH	37	7	13
PA	0	0	0
SD	15	0	0
TX	78	75	74
WI	15	0	4
17 States	29	8	18

These 17 states produced 95% of the 1990 corn crop.

ID	Spring Wheat % Harvested			AR	Rice % Headed		
	1991	1990	Avg.		1991	1990	Avg.
MN	0	0	3	CA	20	4	19
MT	6	5	14	LA	1	5	6
ND	0	1	6	MS	68	63	66
SD	4	1	10	TX	28	46	45
	36	17	28		84	81	89

5 States 8 4 12 5 States 36 29 38

These 5 states produced 97% of the 1990 spring wheat crop. These 5 states produced 98% of the 1990 rice crop.

State	Sorghum				
	VP	P	F	G	EX
AR	8	6	71	15	0
CO	0	5	30	50	15
IL	0	2	37	52	9
KS	2	19	53	22	4
LA	0	31	43	26	0
MS	2	3	70	25	0
MO	6	24	46	22	2
NE	5	22	16	52	5
NM	0	0	42	58	0
OK	1	14	17	68	0
SD	0	2	42	46	10
TX	0	2	22	59	17
12 State	2	12	35	43	8
Prev Week	2	9	36	47	6
Prev Year	1	10	41	42	6

**CROP CONDITION**  
PERCENT

For Week Ending July 28, 1991

State	Soybeans				
	VP	P	F	G	EX
AL	0	1	31	67	1
AR	4	12	58	26	0
GA	0	0	7	88	5
IL	2	3	48	45	2
IN	4	17	48	31	0
IA	0	5	50	42	3
KS	0	15	57	20	8
KY	0	7	42	50	1
LA	1	21	56	22	0
MI	1	5	25	45	24
MN	1	8	21	56	14
MS	2	17	61	19	1
MO	4	15	45	35	1
NE	2	10	33	49	6
NC	0	2	40	56	2
OH	3	11	36	43	7
SC	0	0	6	94	0
SD	0	3	30	50	17
TN	0	6	59	35	0
19 State	2	9	43	42	4
Prev Week	1	8	39	47	5
Prev Year	1	4	36	52	7

State	Spring Wheat				
	VP	P	F	G	EX
ID	1	11	14	58	16
MN	6	26	44	23	1
MT	5	4	12	45	34
ND	0	1	18	76	5
SD	0	4	21	62	13
5 State	2	7	22	58	11
Prev Week	1	4	19	63	13
Prev Year	2	6	33	48	11

State	Rice				
	VP	P	F	G	EX
AR	0	0	37	57	6
CA	0	0	15	75	10
LA	0	0	45	45	10
MS	13	4	64	18	1
TX	0	0	11	66	23
5 State	1	0	35	55	9
Prev Week	1	1	39	53	6
Prev Year	0	1	29	67	3

State	Corn				
	VP	P	F	G	EX
CO	0	3	16	53	28
GA	0	0	7	61	32
IL	5	14	48	30	3
IN	13	24	40	23	0
IA	1	11	45	39	4
KS	3	11	30	47	9
KY	3	3	44	43	7
MI	2	8	25	40	25
MN	0	4	24	56	16
MO	4	14	44	37	1
NE	2	5	24	55	14
NC	0	4	43	53	0
OH	5	14	39	36	6
PA	18	24	29	23	6
SD	2	13	25	42	18
TX	0	3	13	58	26
WI	0	1	11	65	23
17 State	3	10	34	43	10
Prev Week	3	6	33	48	10
Prev Year	1	3	21	62	13

State	Cotton				
	VP	P	F	G	EX
AL	0	2	25	73	0
AZ	0	0	0	89	11
AR	0	0	50	45	5
CA	0	0	10	85	5
GA	0	0	8	72	20
LA	0	6	47	41	6
MS	1	6	34	55	4
MO	0	33	34	33	0
NM	0	0	17	75	8
NC	0	0	7	88	5
OK	0	0	53	47	0
SC	0	0	25	75	0
TN	6	6	55	33	0
TX	4	1	35	56	4
14 State	2	2	33	58	5
Prev Week	2	2	42	49	5
Prev Year	0	8	39	49	4

(Continued from front cover)  
 pressed southward with the cold front, marching from the **Canadian border** into the **South** by midweek. Highlights of the front's trek included wind damage in the **Northeast**, large hail and high winds in **South Dakota**, and isolated heavy rainfall from the **central Plains** to the **Southeast**. A rich flow of tropical moisture into the **Rockies** generated downpours throughout the mountain chain. States from **Idaho** to **New Mexico** braced for possible flooding. The 3-day rainfall reached 6 inches at **Westcliffe, CO**. By Thursday, pleasantly cool air was in place from the **central Plains** to **New England**. **Hibbing, MN**, was the Nation's cool spot on Friday morning (38° F). By week's end, thunderstorms abated over the **Rockies**, but persisted from the **southern Plains** to the **Southeast**, causing local flooding. A new area of convection developed in the **upper Mississippi Valley**.

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:** Rain 1.00 to 3.00 in. Temperatures 1 to 2° above normal.

Days suitable for fieldwork 5.1. Soil moisture 13% short, 75% adequate, 12% surplus. Corn 96% silked, 99% 1990, 99% avg.; 70% dented, 78% 1990, 71% avg.; 42% mature, 47% 1990, 45% avg.; 7% harvested, 13% 1990, 14% avg.; 29% fair, 63% good, 8% excellent. Cotton 99% squaring, 100% 1990, 99% avg.; 77% setting bolls, 91% 1990, 83% avg.; 2% poor, 25% fair, 73% good. Peanuts 93% pegging, 97% 1990, 93% avg.; 9% fair, 77% good, 14% excellent. Soybeans 29% blooming, 48% 1990, 44% avg.; 10% setting pods, 29% 1990, 20% avg.; 1% poor, 31% fair, 67% good, 1% excellent. Sorghum 21% fair, 79% good. Pastures 12% fair, 59% good, 29% excellent. Livestock 3% fair, 71% good, 26% excellent.

**ALASKA:** Periodic showers common in the northern regions of the Railbelt while in the central, southern portions, warm temperatures, sunshine combined to permit excellent hay making progress. Highs 1 to 4° above normal. Lows 7° below normal to 3° above normal. Seasonal precipitation 2.50 in. drier than normal at Fairbanks, also Kenai to 0.35 in. wetter than normal at Homer.

Days suitable for haying 5.0. Topsoil, subsoil moisture 12% short, 88% adequate. Small grains in dough; barley 75%, oats 70%, 25% turning color. Barley 2% poor, 26% fair, 66% good, 6% excellent. First crop hay harvest 75% complete. Heights of 2nd crop hay 4 to 15 in.

**ARIZONA:** Warm, dry 22nd with light showers northeast. Increasing cloudiness 23rd, with thunderstorms prevailed over the eastern part of the State. Increased thunderstorms 24th through 27th brought rain showers to most parts of the State. Precipitation 0.03 in. north to 2.00 in. far southeast. Temperatures 7° below to 2° above normal. Extremes 44°; 97° higher elevations, 69°; 109° desert.

Cotton squaring, further advanced 100%, 100% 1990, 100% avg.; setting bolls 90%, 97% 1990, 93% avg.; cotton 89% good, 11% excellent; weed, insect infestations light to moderate. Alfalfa harvest moderate to active, light far west central; weed, insect infestations light to moderate; alfalfa good to excellent. Corn silage harvest active central, south central; good to excellent.

**ARKANSAS:** Temperatures below normal with widespread rainfall weekend. Temperature 59°; 105°. Rainfall none to 7.99 in.

Days suitable for fieldwork 6. Soil moisture 75% short, 25% adequate. Corn 14% poor, 15% fair, 60% good, 11% excellent. Pasture 20% poor, 56% fair, 24% good. Livestock good.

**CALIFORNIA:** Strong high pressure brought mild weather to much of State. Thunderstorms developed over the mountain areas, elsewhere State dry. Deep marine layer along the coast kept coastal sections cool.

Open weather beneficial field activities. Alfalfa, meadow hay cut, windrowed, baled, stacked. Weevil control ongoing. Small grain harvest winding down most areas. Northern district fields headed, ripening. Cotton bloom continued. Irrigation, mite control active. Dry bean growth slow. Rice behind normal.

Warmer temperatures needed. Field corn irrigated, fertilized, cultivated, sprayed mites, insects. Safflower dried, harvest preparation. Northern fields still blooming. Central valley table grape harvest gained momentum: Perlettes picked in Fresno County while Flame and Beauty Seedless showed maturity. Grape crop yield appears lighter than last year. Freestone peaches 60% harvested, 46% nectarines harvested. Cling peach harvest began last week. Harvesting pears, plums continued. Light 1992 avocado crop reported Santa Barbara, Ventura counties. Freeze damaged avocado trees replaced. Broccoli continued fairly heavy supply, generally good quality. Cauliflower heavy supply, variable quality. Processing, fresh market tomato harvest active.

**COLORADO:** Gulf moisture remained over State 22nd through 26th. Parts of San Luis Valley received around a seventh of their normal yearly rainfall. Rain on the 22nd totaled 2.00 to over 3.00 in. south eastern foothills, eastern plains. Rainfall west generally light. Temperatures 3 to 6° below normal for most locations.

Days suitable for fieldwork 3.4. Soil moisture 6% very short, 20% short, 55% adequate, 19% surplus. Second cutting alfalfa 46% complete, 51% 1990, 52% avg. Barley 22% harvested, 40% 1990, 46% avg; oats 44% harvested, 41% 1990, 38% avg. Corn 54% silked, 43% 1990, 59% avg. Corn 3% poor, 16% fair, 53% good, 28% excellent; dry beans 1% very poor, 4% poor, 20% fair, 59% good, 17% excellent; sorghum 5% poor, 30% fair, 50% good, 15% excellent. Summer potato, onion harvest underway. Livestock mostly good. Pasture, range feed mostly good.

**FLORIDA:** Temperatures 90s day, low 70s nights. Rainfall above normal all areas.

Soil moisture mostly adequate. Rice harvest to finish soon. Tobacco harvest progressing, fields maturing unevenly. Corn harvest continues. Peanut crop condition fine. States pastures mostly good to excellent. Pasture ratings, 10% fair, 40% good, 50% excellent. States herds mostly good to excellent. Near excellent citrus tree and grove condition. Abundant new foliage. Grasshopper populations still causing problems west coast. Caretakers cutting cover crops, spraying trees, fertilizing. Hot weather, mostly abundant rain continued over vegetable producing areas. Field preparation active northern, central areas. Transplanting underway Quincy tomatoes.

**GEORGIA:** Temperatures 1 to 3° above normal. Excessive heat early in week. Maximum temperatures mid 90s to 100°. Coolest temperatures mid 60s mountains, upper 60s to low 70s elsewhere. Scattered thunderstorms 24th through 28th. Wide range of rainfall totals. Local totals 2.00 in., other locations less than 0.25 in.

Days suitable for fieldwork 4.6. Soil moisture 2% short, 77% adequate, 21% surplus. Corn 89% dent, 89% 1990, 88% avg.; 57% mature, 60% 1990, 56% avg.; 11% harvested for grain, 7% 1990, 7% avg.; Harvest active south. Cotton 1% bolls open, 1% 1990, 2% avg. Sorghum 3% fair, 82% good, 15% excellent. Peanuts 8% fair, 83% good, 9% excellent; 99% pegging, 100% 1990, 96% avg.; digging earliest fields expected next week. Corn earworms moving into peanuts, as corn dries.

Tobacco 9% poor, 45% fair, 46% good; 67% harvested, 54% 1990, 51% avg.; ripening fast, some barn shortage. Hay, pastures good. Cattle, hogs good.

**HAWAII:** Weather hot, humid during week. Higher elevations, windward areas experienced some passing showers. Slight increase relative humidity beginning of week. Major crops most islands received irrigation due to dry weather conditions. Winds 5 to 25 mph. Temperatures high 60s to low 90s. Precipitation none to 1.00 in.

Days suitable for fieldwork 7.0. Most crops made good progress with favorable weather. Insect spraying active. Watermelon harvesting continued heavy. Papaya production remained at low level. Banana harvesting light to moderate.

**IDAHO:** Temperatures 2° above normal to 5° below normal. Precipitation fell mainly in north, east with Sandpoint receiving most with 0.61 in.

Days suitable for fieldwork 7. Soil moisture 7% very short, 37% short, 52% adequate, 4% surplus. Spring wheat good: 37% turning color. Spring barley 37% turning color. Potato good: 97% over 12 inches high, 77% closing middles. Alfalfa second cutting 33%, 40% 1990, 38% avg. Thunder showers delayed 1st cutting of hay in Custer, Butte counties. Irrigation water good. Livestock good to excellent. Range, pasture 82% of normal.

**ILLINOIS:** Temperatures normal to 5° below normal. Precipitation generally none, scattered showers north.

Days suitable for fieldwork 6.75. Soil moisture 93% short, 7% adequate. Corn dented 23%, 0 1990, 9% avg. Oats harvested 99%, 46% 1990, 78% avg. Pasture condition as a % of normal, where 100% = normal, was 68%. Alfalfa second cutting 99%, 75% 1990, 88% avg. Alfalfa third cutting 32%, 0% 1990, 18% avg. Alfalfa 6% very poor, 33% poor, 32% fair, 27% good, 2% excellent.

**INDIANA:** Temperatures 1 to 5° below normal. Lows 60 to 70°. Highs lower 80s to around 90°. Precipitation none to 0.20 in. Some widely scattered amounts up to 0.50 in.

Days suitable for fieldwork 6.9. Topsoil 98% short, 2% adequate. Subsoil 87% short, 13% adequate. Corn dented 5%, 0% 1990, 3% avg. Oats harvested 98%, 58% 1990, 75% avg. Tobacco harvested 5%, 0% 1990, 0% avg. Peach harvested 65%. Alfalfa hay 2nd cutting 91%, 74% 1990, 79% avg. Other hay 2nd cutting 84%, 63% 1990, 61% avg. Pasture 44% of normal. Crop conditions continue to decline due to lack of rain.

**IOWA:** Temperatures 2 to 7° below normal. Extremes 46°; 99°. Precipitation none to 2.13 in.; 0.58 average in.

Days suitable for fieldwork 6.5. Topsoil 83% short, 17% adequate. Subsoil 45% short, 54% adequate, 1% surplus. Hay 5% very poor, 27% poor, 39% fair, 26% good, 3% excellent. Pasture 62% of normal. Oats 97% harvested, 50% 1990, 84% avg. Corn 90% tasseled, 76% 1990, 94% avg. Second cutting alfalfa 82% harvested, 71% 1990, 87% avg. Second cutting clover hay 59% harvested, 41% 1990, 58% avg. Livestock mostly good, cool weather reducing the stress.

**KANSAS:** Temperatures normal across State. Rainfall recorded all areas; 0.40 in. southwest to 2.09 in. southeast.

Days suitable for fieldwork 5.5. Surface moisture 69% short, 29% adequate, 2% surplus. Subsurface moisture 86% short, 14% adequate. Corn, sorghum, soybeans being stressed by hot, dry weather. Corn borers, grasshoppers, spider mites damaging corn scattered localities;

mostly southwest. Sorghum 20% headed. Chinch bugs, grasshoppers causing light to moderate damage to sorghum many areas of State. Range, pastures declined; fair statewide. Pastures south central area poorest condition. Forage short except northwest, west central parts of State adequate. Stockwater short except northwest, west central, northeastern parts of State. Second cutting alfalfa virtually complete; third cutting approximately 40% complete.

**KENTUCKY:** Temperatures 3 to 5° above normal. Maximum around 90°, minimum around 70°. Precipitation less than 0.25 in. except isolated thunderstorms.

Days suitable for fieldwork 5.6. Soil moisture 25% very short, 57% short, 16% adequate, 2% surplus. Dry conditions stressed Kentucky's corn crop. Twenty eight percent dough stage or beyond. Soybeans good to fair. Burley tobacco 65% blooming, 40% 1990, 50% avg.; 29% topped, 11% 1990, 18% avg. Dark tobacco 57% topped. Pastures deteriorated due to the hot, dry conditions. Hay crops 4% poor, 29% fair, 63% good, 4% excellent.

**LOUISIANA:** Extremes 67°; 96°. Remaining weather data not available.

Days suitable for fieldwork 5.6. Soil moisture 27% short, 69% adequate, 4% surplus. Corn 24% poor, 66% fair, 3% good, 7% excellent; 100% dough stage, 99% 1990, 96% avg.; 66% mature, 78% 1990, 50% avg., 5% harvested, 3% 1990, 5% avg. Hay 90% first cutting, 97% 1990, 96% avg. Peaches 35% fair, 65% good; 93% harvested, 86% 1990, 90% avg. Rice 29% ripe, 19% 1990, 13% avg.; 17% harvested, 9% 1990, 6% avg. Sorghum 47% turning color, 41% 1990, 34% avg., 16% ripe, 5% 1990, 5% avg. Soybeans 100% planted, 100% 1990, 100% avg.; 100% emerged, 97% 1990, 98% avg. Sweet potatoes 3% poor, 63% fair, 34% good; 100% planted, 97% 1990, 98% avg.; 12% harvested, 3% 1990, 2% avg. Sugarcane 16% fair, 84% good. Pastures 2% poor, 5% fair, 16% good, 77% excellent. Livestock 23% fair, 75% good, 2% excellent.

**MARYLAND & DELAWARE:** MARYLAND: Precipitation 0.91 in. Temperature 83.9°, normal 76.1°. Extremes 62°; 103°.

Days suitable for fieldwork 5.3. Topsoil 25% very short, 25% short, 50% adequate. Subsoil 25% very short, 50% short, 25% adequate. Wheat, rye fair to good condition; barley fair condition; oats poor to fair. Oats 95% turning, 100% 1990, N/A avg.; 70% harvested, 59% 1990, 57% avg. Field corn 83% silked, 76% 1990, 71% avg.; 34% dough, 32% 1990, 36% avg. Tobacco 42% bloomed, 49% 1990, 40% avg. Soybeans 48% bloomed, 39% 1990, 34% avg.; 15% set pods, 12% 1990, 11% avg. Sorghum 50% headed, N/A 1990, N/A avg. Potatoes 42% harvested, 45% 1990, 40% avg. Snap Beans 77% harvested, 69% 1990, 65% avg. Tomatoes 51% harvested, 44% 1990, 35% avg. Sweet corn 47% harvested, 48% 1990, 49% avg. Cucumbers 58% harvested, 84% 1990, 84% avg. Lima beans 18% harvested, 7% 1990, 15% avg. Other hay second cut 50% complete, 42% 1990, 60% avg. Alfalfa hay third cut 50% complete, 10% 1990, 23% avg. Hay supplies adequate. Pasture severe drought condition.

DELAWARE: Precipitation 1.94 in. Temperature 83°, normal 77°. Extremes 68°; 100°.

Days suitable for fieldwork 3.5. Topsoil 20% short, 60% adequate, 20% surplus. Subsoil 40% short, 60% adequate. Field corn 90% silked, 89% 1990, 88% avg. Potatoes 19% harvested, 30% 1990, 27% avg. Snap beans 58% harvested, 63% 1990, 65% avg. Tomatoes 22% harvested, 30% 1990, 17% avg. Sweet corn 40% harvested, 33% 1990, 42% avg. Other hay second cut 83% complete, 60% 1990, 64% avg. Alfalfa hay third cut 29% complete, 0% 1990, 41% avg. Hay supplies adequate. Pasture good.

**MICHIGAN:** Temperatures 2.1 to 3.8° below normal. Extremes 51°; 85°. Precipitation none to 3.94 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 48% short, 52% adequate. Corn 85% silked, 30% 1990, 55% avg.; 2% dough, 0% 1990, 4% avg.; 2% very poor, 8% poor, 25% fair, 40% good, 25% excellent. Soybeans 70% blooming, 50% 1990, 55% avg.; 20% setting pods, 5% 1990, 10% avg.; 1% very poor, 5% poor, 25% fair, 45% good, 24% excellent. Pasture 75% of normal.

**MINNESOTA:** Temperatures 3 to 6° below normal. Extremes 38°; 94°. Precipitation 0.23 to 2.07 in. Greatest weekly total 3.11.

Days suitable for fieldwork 5.2. Topsoil 4% very short, 18% short, 65% adequate, 13% surplus. Spring wheat 85% turning ripe, 77% 1990, 80% avg.; 9% swathed, 10% 1990, 24% avg.; 6% combined, 5% 1990, 14% avg. Oats 96% turning ripe, 83% 1990, 91% avg.; 67% swathed, 30% 1990, 56% avg.; 39% combined, 13% 1990, 38% avg. Barley 95% turning ripe, 87% 1990, 89% avg.; 54% swathed, 50% 1990, 45% avg.; 23% combined, 20% 1990, 24% avg. Field Corn 72% tasseling, 52% 1990, 81% avg.; 15% in milk, 4% 1990, 19% avg. Soybeans 77% blooming, 78% 1990, 83% avg.; 30% setting pods, 14% 1990, 37% avg. Winter wheat 60% harvested, 32% 1990, 58% avg. Rye 49% harvested, 22% 1990, 56% avg. Spring Wheat 6% very poor, 26% poor, 44% fair, 23% good, 1% excellent. Field corn 0% very poor, 4% poor, 21% fair, 56% good, 16% excellent. Soybeans 1% very poor, 8% poor, 21% fair, 56% good, 14% excellent. Barley 6% very poor, 18% poor, 41% fair, 33% good, 2% excellent.

**MISSISSIPPI:** Temperatures 82°, 0.1 above normal. Extremes 62°; 98°. Mostly dry statewide with scattered showers, 0.94 in., 0.18 below normal. Soil temperature 89°.

Days suitable for fieldwork 5.3, 5.7 1990, 4.9 5 yr avg. Soil moisture 2% very short, 44% short, 48% adequate, 6% surplus. Corn 94% silking, 95% 1990, 95% avg.; 75% dough, 75% 1990, 74% avg.; 51% denting, 50% 1990, 51% avg.; 29% mature, 21% 1990, 13% avg.; silage harvest 45%, 22% 1990, 26% avg.; 1% very poor, 18% poor, 38% fair, 37% good, 6% excellent. Cotton 93% squaring, 100% 1990, 98% avg.; 70% setting bolls, 91% 1990, 84% avg.; 1% very poor, 6% poor, 34% fair, 55% good, 4% excellent. Rice 28% heading, 46% 1990, 45% avg.; 13% very poor, 4% poor, 64% fair, 18% good, 1% excellent. Sorghum 65% heading, 83% 1990, 76% avg.; 45% coloring, 37% 1990, 31% avg. 15% mature, 5% 1990, 2% avg.; 2% very poor, 3% poor, 70% fair, 25% good. Soybeans 99% planted, 100% 1990, 100% avg.; 91% emerged, 100% 1990, 93% avg.; 38% blooming, 53% 1990, 41% avg.; 17% podding, 18% 1990, 17% avg.; 2% very poor, 17% poor, 61% fair, 19% good, 1% excellent. Watermelons 62% harvested, 66% 1990, 60% avg. Hay 70% harvested, 61% 1990, 59% avg. Peaches 88% harvested, 90% 1990, 88% avg.; 15% very poor 16% poor, 45% fair, 23% good, 1% excellent. Livestock 1% poor, 15% fair, 61% good, 23% excellent. Pasture 93% of normal.

**MISSOURI:** Temperatures 2° above normal. Rainfall 0.65 in., about 0.25 in. in the eastern districts to 1.81 in. west central.

Days suitable for fieldwork 5.9. Topsoil 75% short, 25% adequate. Subsoil 56% short, 44% adequate. Moisture storage limited growth, development of crops, pastures, particularly west central, southern districts. Corn silage cutting begun, primarily poorest fields west central area. Soybeans blooming ranges 38% southeast to 77% east central, soybeans podding 11% southeast to 34% east central. Sorghum heading least advanced northern districts, most advanced east central, southeast. Sorghum

coloring 6%, 18% avg. Alfalfa third cutting 19%, 14% 1990, 33% avg. Other hay cut 93%, 86% 1990, 92% avg. Pasture 11% very poor, 36% poor, 36% fair, 16% good, 1% excellent.

**MONTANA:** Temperatures normal to 4° below normal central, east, 1 to 4° above normal west, southwest. Precipitation widely scattered thunderstorms.

Days suitable for fieldwork 6.8. Topsoil 56% short, 44% adequate. Subsoil 35% short, 65% adequate. Winter wheat ripe 25%, 37% 1990, 36% avg.; 2% very poor, 5% poor, 20% fair, 42% good, 31% excellent. Spring wheat turning 51%, 47% 1990, 49% avg.; ripe 3%, 11% 1990, 12% avg. Barley turning 54%, 53% 1990, 51% avg.; ripe 6%, 10% 1990, 12% avg.; harvested 1%, 2% 1990, 6% avg.; 2% very poor, 3% poor, 13% fair, 46% good, 36% excellent. Oats turning 48%, 50% 1990, 47% avg.; ripe 6%, 9% 1990, 13% avg.; harvested 1%, 2% 1990, 7% avg.; 2% very poor, 2% poor, 13% fair, 56% good, 27% excellent. Sugarbeets 2% poor, 10% fair, 73% good, 15% excellent. Second cutting alfalfa harvested 18%, 11% 1990, 22% avg. Other hay harvested 83%, 79% 1990, 72% avg. Pasture, range feed 94% of normal.

**NEBRASKA:** Temperatures 4° below normal. Precipitation less than 0.10 in. east to 2.00 in. southwest.

Days suitable for fieldwork 5.9. Topsoil 69% short, 30% adequate, 1% surplus. Subsoil 58% short, 42% adequate. Wheat 98% harvested, 96% 1990, 97% avg. Corn 2% very poor, 5% poor, 24% fair, 55% good, 14% excellent; 94% silked, 65% 1990, 81% avg.; 20% dough, 3% 1990, 10% avg. Sorghum 5% very poor, 22% poor, 16% fair, 52% good, 5% excellent; 49% headed, 8% 1990, 34% avg. Soybeans 2% very poor, 10% poor, 33% fair, 49% good, 6% excellent; 76% blooming, 54% 1990, 77% avg.; 24% setting pods, 6% 1990, 28% avg. Alfalfa 7% very poor, 16% poor, 28% fair, 47% good, 2% excellent; 93% second cutting, 87% 1990, 89% avg. Pasture, range 82% of normal.

**NEVADA:** Temperatures near normal early; above normal late in week. Extremes 34°; 112°. Precipitation none to 0.18.

Afternoon thunderstorms across northern areas brought little moisture. Second cutting alfalfa underway north; third cutting south. Garlic harvest beginning. Livestock remain good condition. Pasture, range fair to good, short water supplies some areas.

**NEW ENGLAND:** Precipitation 0.35 to 1.70 in. north, northern Maine down to 0.07 in.; 0.90 to 2.25 in. Massachusetts, Rhode Island; 1.60 to 4.35 in. Connecticut. Temperatures mid 60s to mid 70s north, low to high 70s south; 1° below to 6° above normal. Maximum temperatures mid 80s to low 100s; minimum temperatures mid 40s to low 60s.

Days suitable for fieldwork 5.8. Soil moisture 25% very short, 55% short, 20% adequate. Grazing availability 38% very short, 56% short, 6% adequate. Fieldwork 5.6 days ahead of schedule. Maine, Connecticut Valley potatoes fair to good. Rhode Island potatoes fair. Maine oats fair to good. Field corn fair to good. Sweet corn fair to good. Second cut hay 37% complete, 37% 1990, 34% avg.; fair. Connecticut Valley shade, outdoor tobacco good; some hail damage. Apples, peaches being picked in the south. Apples fruit set light to average, scab light, drop average. Peaches, pears average to heavy fruit set. Cranberries condition good. Blueberry harvest 45% complete.

**NEW JERSEY:** Temperatures near normal. Extremes 51°; 101°. Rainfall 2.00 in. north, 2.25 central, 2.07 south. Heaviest 24 hour total 1.62 in. on 26th, 27th. Estimated soil moisture percent field

capacity, averaged 70% north, 75% central, 76% south. Four inch soil temperature 76° north, 79° central, 80° south.

Showers, cooler temperatures during the period greatly improved non irrigated crop prospects. Summer harvest active. Fall vegetable planting advanced. Irish potato digging for local markets light. Blueberry harvest near completion. Peach harvest active. Summer apple picking steady. Wheat combining well advanced. Oat harvest increased. Weather conditions near for hay making, straw baling. Pasture growth improved.

**NEW MEXICO:** Temperatures over the State below seasonal normals. Scattered to heavy showers over the majority of the State.

Days suitable for fieldwork 4.5. Soil moisture 19% short, 72% adequate, 9% surplus. Crop conditions: Alfalfa 29% fair, 71% good; harvest moderate to active. Corn 6% fair, 94% good. Winter wheat harvest virtually complete. Onion conditions good, harvest active with only minor problems from rains. Chile 23% fair, 77% good. Pecans 33% fair, 67% good. Cattle, sheep fair to good; improving. Range 76% of normal, low of 40%, high of 125%.

**NEW YORK:** Heat wave continued, far north near or over 90° 21st to 23rd. Few parts in southeast topped 100°. Highs 75 to 85°. Temperatures 2 to 5° above normal. Rainfall quite variable, typical for summer. Scattered thunderstorms 21st to 23rd. Dry on 24th. Showers returned to extreme southeast 25th. Rains fell 26th over much of east before diminishing early 26th. Rainfall lightest north.

Days suitable for fieldwork 5.2. Soil moisture very short to adequate. Pasture condition 55% of normal. Early corn tasseling, some stunting due to moisture stress. Second cutting alfalfa 62% complete, 32% 1990, 32% avg. Third cutting slowed due to dry weather. Wheat harvesting 90% complete, 2 weeks ahead of normal. Oats 30% harvested, at least 1 week ahead of normal. Clo tim harvest virtually complete. Vegetable crops need rain. Harvesting of early onions continued. Long Island vegetable growers continued to use irrigation as crops are about 2 weeks ahead of normal. Tree fruit benefitted from recent rains.

**NORTH CAROLINA:** Temperatures above normal across the State. Precipitation none to 5.48 in.

Days suitable for fieldwork 6.0. Soil moisture 9% very short, 48% short, 43% adequate. Crop condition: Tobacco 1% poor, 17% fair, 73% good, 9% excellent; corn 4% poor, 43% fair, 53% good; cotton 7% fair, 88% good, 5% excellent; peanuts 25% fair, 72% good, 3% excellent; soybeans 2% poor, 40% fair, 56% good, 2% excellent; hay 5% poor, 46% fair, 49% good; Sweet potatoes 10% fair, 86% good, 4% excellent; sorghum 46% fair, 54% good; Truck crops 2% poor, 44% fair, 54% good; Pasture 1% very poor, 10% poor, 47% fair, 42% good. Harvested: Peaches 70%; Irish potatoes 96%, flue cured tobacco 21%; Hay second cutting 60%, third cutting 28%. Cotton setting bolls 80%; corn silked 98%; corn soft dough 84%; soybeans blooming 38%; tobacco topped 86%.

**NORTH DAKOTA:** Temperatures 5° below normal southeast to 1° below normal northwest, southwest. Extremes 40° west central; 98° west central. Precipitation 0.19 in. northwest to 1.04 in. southeast.

Days suitable for fieldwork 6.8. Topsoil 13% very short, 53% short, 34% adequate. Subsoil 18% very short, 35% short, 47% adequate. Crop condition mostly good. Spring wheat 17% swathed to combined, 6% 1990, 20% avg.; durum 5% swathed

to combined, 4% 1990, 9% avg.; oats 30% swathed to combined, 16% 1990, 27% avg.; barley 47% swathed to combined, 27% 1990, 34% avg.; winter wheat 75% swathed to combined, 37% 1990, 64% avg. Corn 88% tasseling or beyond, 45% 1990, 66% avg.; sunflower 29% bloom or beyond, 12% 1990, 24% avg.; flax 90% bloom or beyond, 87% 1990, 80% avg.; potatoes 98% bloom or beyond, 98% 1990, 93% avg.; soybeans 81% podding or beyond, 47% 1990, 50% avg.; dry edible beans 97% bloom or beyond, 85% 1990, 81% avg. Pasture conditions 88% of normal. Alfalfa hay second cutting 40% complete, other hay first cutting 83% complete. Stockwater 1% very short, 34% short, 65% adequate.

**OHIO:** Cooling trend 23rd helped ease heat stressed crops. Temperatures within 3° of normal with eastern areas warmer. Some precipitation resulted in 0.20 in. west, 0.60 in. eastern areas.

Days suitable for fieldwork 6.4. Soil moisture 80% short, 19% adequate, 1% surplus. Oats harvested 95%, 53% 1990, 67% avg. Pastures 25% very poor, 34% poor, 29% fair, 11% good, 1% excellent. Emergency pastures being used in drought disaster counties. Summer apple harvest 47%, 28% 1990, 35% avg. Second cut alfalfa 97%, 66% 1990, 70% avg.; third cut 25%, 5% 1990, 7% avg. Second cut other hay 70%, 40% 1990, 48% avg.

**OKLAHOMA:** Temperatures 1° below normal southeast to 7° below normal Panhandle. Precipitation 0.06 in. central to 3.05 in. south central.

Days suitable for fieldwork 6.1. Topsoil 93% short, 5% adequate, 2% surplus. Subsoil 72% short, 28% adequate. Wheat 97% ground plowed, 90% 1990, 91% avg.; 9% seedbed prepared, 6% 1990, 8% avg. Cotton 75% squaring, 90% 1990, 78% avg.; 19% setting bolls, 42% 1990, 35% avg. Sorghum 33% headed, 24% 1990, 43% avg.; 15% milk to soft dough, 5% 1990, 10% avg. Cotton fair; sorghum good. Soybeans 39% flowering, 22% 1990, 40% avg.; 17% setting pods, 2% 1990, 13% avg. Peanuts 57% pegging, 77% 1990, 76% avg.; 22% setting pods, 32% 1990, 34% avg.; 1% mature, 0% 1990, 0% avg. Corn 93% tasseling, 83% 1990, 92% avg.; 29% milk to soft dough, 33% 1990, 62% avg.; 7% mature, 4% 1990, 9% avg. Pasture 90%.

**OREGON:** Temperatures 3° above normal statewide. 90s, 100+ western interior on 22nd, 23rd cooling to 70s by 27th. Precipitation varied across State. Thunderstorm activity, numerous lightning strikes occurred, south central, north coast, coast range, portions Willamette Valley. Hail reported, Deschutes County; 0.75 in. hail, Scappoose; 1.75 in. rain two hour period, Bend area; hour long cloudburst produced 4.80 in. rain, minor flooding, Lapine; 4.00 to 6.00 in. hail closed U.S. 97, near Lapine; mud slides closed highway 26 between John Day and Mitchell.

Soil moisture 44% short, 56% adequate. Winter wheat, barley harvest full swing. Tall fescue grass seed harvest winding down, Willamette Valley; grass seed harvest running behind due to weather, haying continued, east; field corn beginning to tassel, silk, Malheur County. Sweet cherry harvest winding down, Willamette Valley, Mid Columbia districts; one orchardist picking, Union County. Tart cherry harvest beginning, Mid Willamette Valley. Peaches, early apples, harvested, Douglas County; red raspberry quality high; blackberry quality disappointing due to winter freeze. Blueberry harvesting continued, Willamette Valley.; hazelnut growers spraying for filbert worm, so. Willamette Valley; orchardists applying third cover spray, Jackson County; spraying Mitac on pears for psylla control, Hood River County. Sunburn reported in apples. Snap bean harvest started, Benton, Lane County, just blooming, setting pods, Malheur County; green pea harvest complete, Benton, Umatilla County;

some squash, zucchini harvest, Douglas, Lane County; sweet corn wind damaged, Jackson County; garlic crop mostly frozen out, Jefferson County; growers irrigating onion, controlling thrips, Malheur County; watermelon harvest full swing, excellent quality, Hermiston area. Livestock good to excellent; water short, central Oregon; producers hauling water, Jefferson County; pastures excellent, growth good due to warm weather, Klamath County. Statewide range, pasture 4% poor, 17% fair, 65% good, 14% excellent.

**PENNSYLVANIA:** Near normal precipitation, above normal temperatures. Temperature 75°, 5° above normal. Extremes 46°; 103°. Precipitation 0.91 in., 0.02 in. above normal.

Days suitable for fieldwork 6. Soil moisture 92% short, 8% adequate. Corn 63% silk, 23% 1990, 37% avg.; height 57 in., 54 in. 1990, 56 in. avg.; 18% very poor, 24% poor, 29% fair, 23% good, 6% excellent. Soybean 10% very poor, 26% poor, 34% fair, 25% good, 5% excellent. Barley 0% heading or headed, 2% 1990; 0% turning yellow, 6% 1990; 7% ripe, 24% 1990; 93% harvested, 68% 1990. Wheat 0% heading or headed, 2% 1990; 0% turning yellow, 5% 1990; 7% ripe, 38% 1990; 93% harvested, 55% 1990; 1% very poor, 8% poor, 37% fair, 41% good, 13% excellent. Oats 4% heading or headed, 20% 1990; 13% turning yellow, 35% 1990; 27% ripe, 30% 1990; 56% harvested, 15% 1990; 15% very poor, 29% poor, 34% fair, 18% good, 4% excellent. Second cutting alfalfa 77% complete, 56% 1990. Feed from pastures 79% very poor, 15% poor, 6% fair. Peach 27% below avg., 60% avg., 13% above avg. Apple 28% below avg., 69% avg., 3% above avg.

**PUERTO RICO:** Rainfall 0.32 in. was 0.97 in. below normal. Highest rainfall 2.49 in. at San Sebastian, 1.09 in. Pico Del Este Luquillo, 1.05 in. Gurabo aes. Highest 24 hour total 1.27 in. at San Sebastian. Divisional temperatures 81 to 83° on the Coasts, 76 to 78° in the interior with mean station temperatures 66.9° at Pico del Este Luquillo to 84.6° at Guayama. Extremes 59°; 97°.

**SOUTH CAROLINA:** Temperatures 1 to 3° above normal. Rainfall 0.30 in. northeast to 1.50 in. mountains.

Days suitable for fieldwork 5.7. Soil moisture 35% short, 63% adequate, 2% surplus. Cotton; 25% fair, 75% good; 87% setting bolls, 81% 1990, 71% avg. Watermelons fair; 85% harvested, 85% 1990, 80% avg. Cantaloupes fair to good; 83% harvested, 80% 1990, 77% avg. Peaches fair to good; 72% harvested, 75% 1990, 69% avg. Apples fair to good; 2% harvested, 0% 1990, 0% avg. Cucumbers fair to good; 87% harvested, N/A 1990, N/A avg. Snap beans fair to good; 53% harvested, N/A 1990, N/A avg. Sorghum fair to good; 89% planted, 98% 1990, 96% avg.; 9% harvested, 5% 1990, 5% avg. Soybeans 6% fair, 94% good; 34% blooming, 30% 1990, 24% avg.; 10% setting pods, 7% 1990, 7% avg. Tobacco fair to good; 45% harvested, 38% 1990, 29% avg. Corn fair to good; 93% dough stage, 93% 1990, 82% avg.; 54% matured, 64% 1990, 38% avg.; 5% harvested, 5% 1990, 4% avg. Fall hay fair to good; 32% harvested, 20% 1990, 22% avg. Pastures fair to good.

**SOUTH DAKOTA:** Temperatures 5° below normal. Extremes 35°; 96°. Precipitation highly variable. Rains generally slow soaking variety. Few reports of over 1.50 in. Precipitation for year above normal at most locations. Much of precipitation came early in season. Many areas now dry.

Days suitable for fieldwork 5.7. Topsoil 13% critical, 53% short, 30% adequate, 4% surplus. Subsoil 11% critical, 42% short, 44% adequate,

3% surplus. Flax 5% poor, 23% fair, 63% good, 9% excellent. Sunflowers 24% fair, 63% good, 13% excellent. Livestock 1% poor, 3% fair, 71% good, 25% excellent. Pasture condition 91% of normal.

**TENNESSEE:** Scattered showers, some locally heavy. Most of State needs a good general rain. Temperatures above normal West, Middle; below elsewhere. Precipitation below normal except Plateau.

Days suitable for fieldwork 5.0. Soil moisture 4% very short, 35% short, 60% adequate, 1% surplus. Corn 80% tasseling, 75% 1990, 90% avg.; 40% dough, 25% 1990, 38% avg.; 15% dent, 8% 1990, 24% avg.; 2% very poor, 10% poor, 33% fair, 51% good, 4% excellent. Cotton 88% squaring, 95% 1990, 96% avg.; 45% setting bolls, 60% 1990, 72% avg.; 6% very poor, 6% poor, 55% fair, 33% good. Sorghum 40% headed, 36% 1990, 65% avg.; 3% very poor, 7% poor, 45% fair, 43% good, 2% excellent. Soybeans 16% blooming, 26% 1990, 40% avg.; 5% setting pods, 7% 1990, 15% avg.; 6% poor, 59% fair, 35% good. Tobacco 35% topped, 23% 1990, 25% avg.; 33% fair, 67% good. Hay 1% poor, 20% fair, 77% good, 2% excellent. Pastures 1% poor, 22% fair, 67% good, 10% excellent. Cattle 11% fair, 80% good, 9% excellent.

**TEXAS:** Early, tropical wave sparked thunderstorms along coast, into south central counties. At mid week, cool front moved into West, North Texas, triggering showery weather for areas latter half of week. Thunderstorm development in West Texas aided by upper air disturbance. Temperatures ran seasonably hot across State early in week, significant cooling took place on High Plains late in week. For week, rainfall 1.00 to 2.00 in. above normal over much of western, northern areas, near below normal in south. Temperatures averaged below normal for most of State, normal readings recorded along Upper Coast, southern East Texas districts.

**Crops:** Corn harvest, some areas, slightly delayed by last week's rain, but expected to resume as weather permits. Yields remained good. Hot, humid weather continued rapidly drying fields Central Texas, Blacklands, where early harvest getting underway. Irrigation on High Plains heavy. Corn 57% dented, 58% 1990, 62% avg.; 45% mature, 55% 1990, 45% avg.; 16% harvested, 25% 1990, 17% avg. Scattered showers also interrupted sorghum harvest last week. Harvest in South Texas, coastal areas quickly winding down. Fields in Blacklands continued maturing rapidly. High Plains' fields continued progressing well, irrigation remained steady. Sorghum 65% turning color, 58% 1990, 56% avg.; 52% mature, 46% 1990, 41% avg.; 43% harvested for grain, 31% 1990, 29% avg. Cotton harvest in South Texas made minimal progress due weather conditions. Cotton 12% open bolls, 7% 1990, 8% avg. Cotton 4% harvested, 2% 1990, 2% avg. Rice harvest most cases delayed by weather. Yields slightly off. Disease pressures remained a concern some Upper Coastal producers, no serious threat exists. Rice 19% harvested, 3% 1990, 5% avg. Soybean fields across State continued excellent progress. Few early fields in southern Blacklands being harvested. Producers would like little more rain for pods to completely fill out. Upper coastal fields remained excellent shape with potentially good yields existing. Peanut fields continued full week good progress. Irrigation heavy in Hill Country, Central Texas with few weather related disease. Low Plains' fields making good progress with little, no insect, disease problems. Dryland fields in South Texas need more moisture for good progress to continue. Statewide peanut condition is rated at 80 percent of normal. Other Field Crops: Oats 97% harvested, 100% 1990, 98% avg. Peanuts 100% planted, 100% 1990, 100% avg. Sunflowers 100% planted, 100% 1990, 99% avg.

**Commercial Vegetables:** Rio Grande Valley, pepper planting underway. Preparations for fall planting continued full swing. Producers would like more moisture. Preparations for fall planting continued. High Plains, potato, onion harvest resumed with excellent yields reported. Trans-Pecos, melon harvest continued, garlic harvest got underway. Tomato production limited due plants not fruiting very well. State's pecan crop remained good shape last week. Most trees developing good nut set. Normal aphid pressures showing up some Central Texas trees. Heat stress causing some normal nut drop, no major problem expected.

**Range and Livestock:** Recent rains continued improving range, pasture conditions across State. Haying operations continued as weather permitted with most areas reporting hay surplus. Livestock remained good shape for most part. Range, pasture 1% very poor, 5% poor, 36% fair, 43% good, 15% excellent.

**UTAH:** Temperature maximums 3° less than normal, minimums about 1° above normal. Precipitation light in the west, south central Divisions, to moderate in the north, heavy in the east. No precipitation was Dixie Division.

Days suitable for fieldwork 6.8. Soil moisture 80% short, 20% adequate. Winter wheat 70% ripe, 79% 1990, 91% avg.; 20% harvested, 53% 1990, 52% avg. Spring wheat 88% turning color; 27% ripe, 74% 1990, 69% avg. Barley 87% turning color; 30% ripe, 60% 1990, 73% avg. Oats 51% turning color; 12% ripe, 35% 1990, 37% avg. Corn 48.5 in. high, 54.2 in 1990, 60.4 in. avg.; 12% tasseling, 36% 1990, 49% avg. Alfalfa second cutting 49% complete, 62% 1990, 63% avg. Other hay harvest continued at normal pace. Pasture, range mostly fair to good. Irrigation water 5% very short, 47% short, 48% adequate. Stockwater supply 47% short, 53% adequate. Hay, roughage 15% short, 74% adequate, 11% surplus. Sweet cherry harvest complete. Tart cherry harvest continues. Apricot harvest 46% complete.

**VIRGINIA:** Temperatures 6 to 10° above normal. Extremes 61°; 104°. Rainfall none to 2.50 in.

Days suitable for fieldwork 6.2. Topsoil 39% very short, 33% short, 21% adequate, 7% surplus. Corn silked 76%, 70% 1990, 63% avg.; dough stage 36%, 31% 1990, 25% avg.; dented 14%, 0% 1990 0% avg.; 19% very poor, 33% poor, 28% fair, 20% good. Soybeans bloomed 32%, 31% 1990, 25% avg.; setting pods 14%, 9% 1990, 8% avg.; 3% very poor, 56% poor, 28% fair, 13% good. Oats harvest complete. Peaches 43% harvested. Potatoes nearly 95% harvested. Flue tobacco 12% harvested, 9% 1990, 3% avg. All tobacco 3% poor, 29% fair, 68% good. Peanut 33% fair, 67% good. Pasture 17% very poor, 36% poor, 22% fair, 18% good, 7% excellent. Alfalfa 7% very poor, 22% poor, 30% fair, 41% good. Other hay 14% very poor, 25% poor, 22% fair, 30% good, 9% excellent. Livestock fair.

**WASHINGTON:** Temperatures 3° above normal to 2° below normal east; 6° above normal to normal west. Precipitation none to 1.60 in. east; 0.01 to 0.30 in. west.

Days suitable for fieldwork 6.6. Soil moisture 66% short, 34% adequate. Hay, other roughage 7% short, 77% adequate, 16% surplus.

Range, pasture 42% poor, 25% fair, 21% good, 12% excellent. Winter wheat 1% very poor, 8% poor, 30% fair, 61% good. Spring barley 4% poor, 18% fair, 73% good, 5% excellent. Potato 100% good. Dry bean 100% good. Corn 100% good. Alfalfa hay, 2nd cutting 68%. Winter wheat harvested 9%. Spring barley harvested 11%. Potatoes harvested 2%. Dry peas harvested 10%. Harvest of small grains started in eastern areas. Dry pea harvest was underway in the early portions of the State. Harvest of early potatoes continued in the south central portion of the State. Blueberry harvest was in full swing in western Washington, while peach harvest continued in the Yakima Valley. Cattle were moving to higher elevation range land in eastern area.

**WEST VIRGINIA:** Temperature 76°. Extremes 54°; 101°. Precipitation 1.26 in.

Days suitable for fieldwork 5.09. Soil moisture 26% very short, 58% short, 11% adequate, 5% surplus. Wheat fair; 93% harvested. Corn, 22% poor, 45% fair, 33% good; 77% silked, 18% dough stage. Oats poor; 92% ripe, 91% headed. Gardens, 23% poor, 41% fair, 36% good; 100% emerged. Tobacco, good; 12% topped. Hay, 50% poor, 46% fair, 4% good; 96% first cutting, 26% second cutting. Pastures, 24% very poor, 46% poor, 25% fair, 5% good; 60% of normal. Cattle, good. Sheep, good.

**WISCONSIN:** Temperature 65°, 6° below normal. Extremes 36°; 97°. Precipitation 0.50 to 1.60 in.

Days suitable for fieldwork 4.7. Soil moisture 28% short, 57% adequate, 15% surplus. Pasture 75% of normal, 83% 1990, 67% avg. General condition of crops 2% poor, 12% fair, 82% good, 4% excellent. Winter wheat 2% very poor, 5% poor, 26% fair, 59% good, 8% excellent. Corn 1% poor, 11% fair, 65% good, 23% excellent; height 75 in., 63 in. 1990, 68 in. avg.; silked 76%, 18% 1990, 53% avg.; dough 15%, 0% 1990, 4% avg. Soybean 14% fair, 72% good, 14% excellent. Second crop hay 63% harvested, 55% 1990, 57% avg. Winter wheat harvested for grain 80%, 20% 1990, 51% avg. Oats harvested for grain 33%, 4% 1990, 23% avg.

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

Days suitable for fieldwork 5.4. Topsoil 19% short, 81% adequate. Subsoil 16% short, 84% adequate. Winter wheat 10% headed, small amount 1990, small amount avg.; 30% turning color, 25% 1990, 10% avg.; 40% mature, 50% 1990, 50% avg.; 20% harvested, 25% 1990, 40% avg. Barley 30% headed, 20% 1990, 20% avg.; 35% turning color, 30% 1990, 35% avg.; 35% mature, 45% 1990, 40% avg.; small amount harvested, 5% 1990, 5% avg. Spring wheat 45% headed, 15% 1990, 15% avg.; 40% turning color, 50% 1990, 40% avg.; 15% mature, 30% 1990, 35% avg.; small amount harvested, 5% 1990, 10% avg. Oats 50% headed, 50% 1990, 35% avg.; 35% turning color, 25% 1990, 40% avg.; 15% mature, 20% 1990, 20% avg.; small amount harvested, 5% 1990, 5% avg. Second cutting alfalfa 5% completed, 5% 1990, 15% avg. Other hay 60% harvested, 60% 1990, 65% avg. Potatoes 55% in bloom, 90% 1990, 75% avg. Dry beans 55% in bloom, 45% 1990, 65% avg.; 35% setting pods, 30% 1990. Corn 40% tasseled, 45% 1990, 45% avg.; 5% silked, 5% 1990, 10% avg. Crops mostly good. Stockwater 10% short, 90% adequate. Range, pasture good to excellent.

## International Weather and Crop Summary

### HIGHLIGHTS

July 21 - 27, 1991

**USSR** ... In Western USSR, showers and thunderstorms interrupt winter and spring grain harvests in central areas. Hot, dry weather stresses summer crops in the east. In the New Lands, hot, dry weather returns to drought-stricken central and southern areas, accelerating spring grain ripening.

**EUROPE** ... Cooler weather eases heat stress in Spain. Generally favorable moisture helps crop development in the north and east.

**EASTERN ASIA** ... Typhoon Brendan strikes southern China, while warm and dry weather continues across the lower Yangtze Valley. Rains aid summer crops in northern China.

**SOUTHEAST ASIA** ... Typhoon Brendan brings heavy rain and some flooding to the northern Philippines. Showers bring some relief to Thai grains in or nearing reproduction.

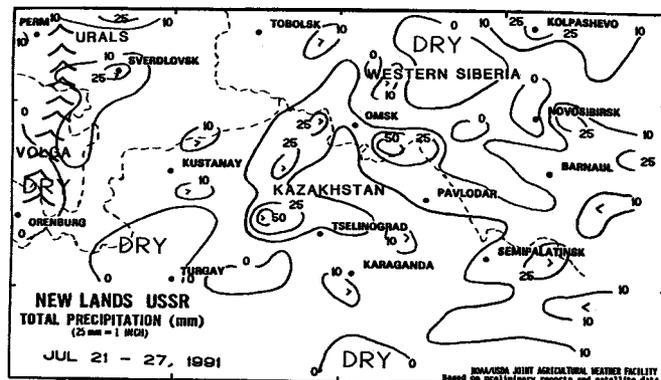
**SOUTH ASIA** ... Heavy rain across central India benefits late planted crops but causes some flooding.

**SOUTH AMERICA** ... Argentine soybean harvest nears completion.

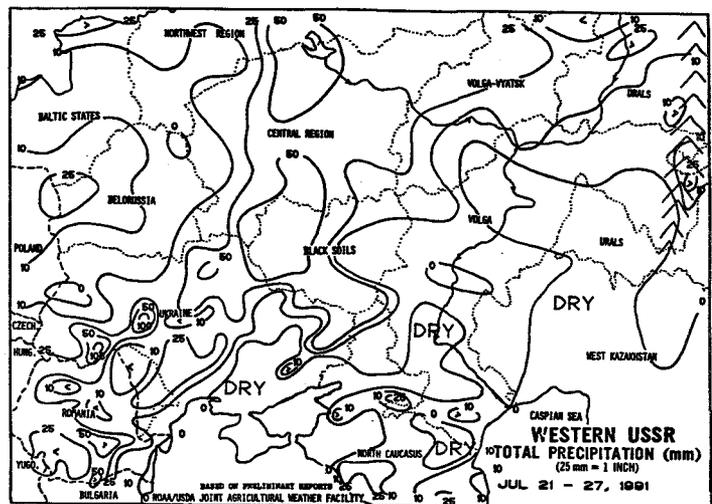
**AUSTRALIA** ... Northeastern winter grain regions remain dry.

**CANADA** ... Conditions are generally favorable across the Prairies for vegetative to reproductive grains and oilseeds.

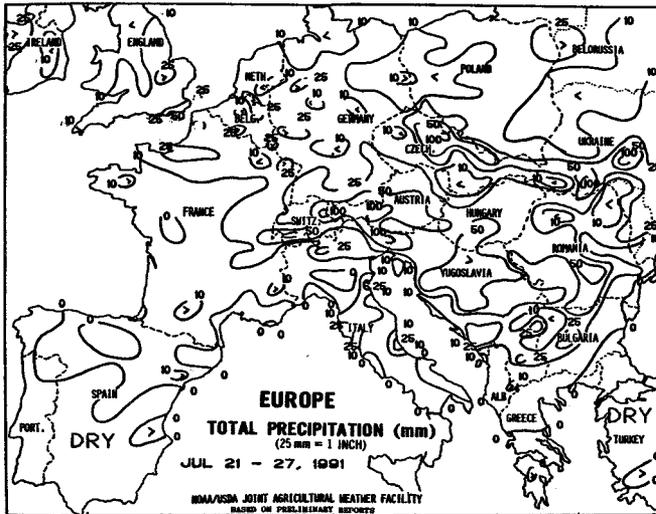
**MEXICO** ... Seasonal moderate rains aid summer crops.



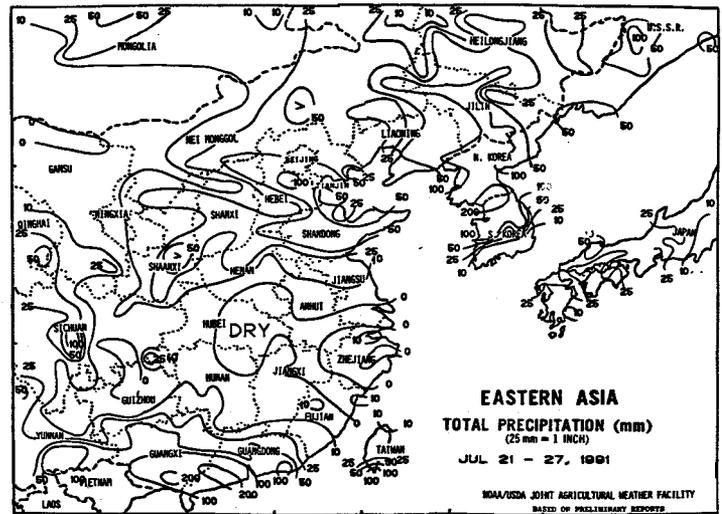
In the New Lands, unseasonably warm weather returned to most spring grains areas, accompanied by widely scattered precipitation. The hot weather over drought-stricken areas of the southern Urals, Kazakhstan, and the western portion of Western Siberia further accelerated spring grain ripening. Highest weekly temperatures in these areas ranged from 33 to 38 degrees C. Further east, mild weather and light precipitation (10-25mm) over the eastern portion of Western Siberia favored crop development. Weekly average temperatures ranged from 2 to 5 degrees C above normal over the region.



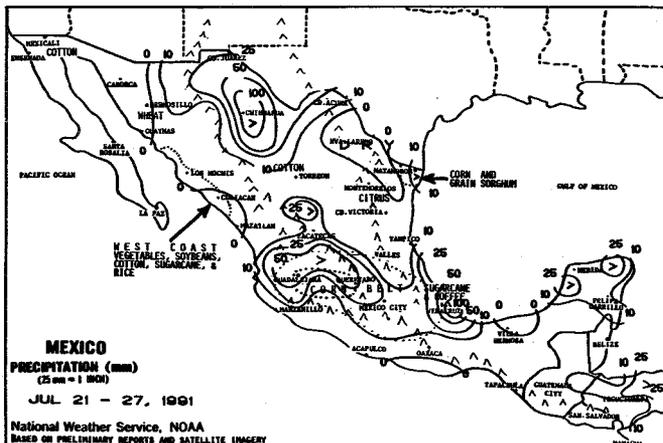
**USSR** ... In Western USSR, showers and thunderstorms covered most of the central Ukraine, Black Soils Region, and the Central Region, interrupting winter and spring grain harvests and causing some crop lodging. Rainfall in these areas generally ranged from 25 to 50mm, with local amounts in excess of 70mm. Light showers (6-25mm) over the Baltic States and Belorussia benefited spring grains in the filling stage and caused only brief delays in winter grain harvesting. While continued dry weather over the southeastern Ukraine, northern North Caucasus, and the Volga Valley helped winter and spring grain harvests, it was accompanied by unseasonably warm weather, placing increased stress on summer crops such as corn, sunflowers, and sugarbeets. Highest weekly temperatures in these areas ranged from 33 to 38 degrees Celsius (C).



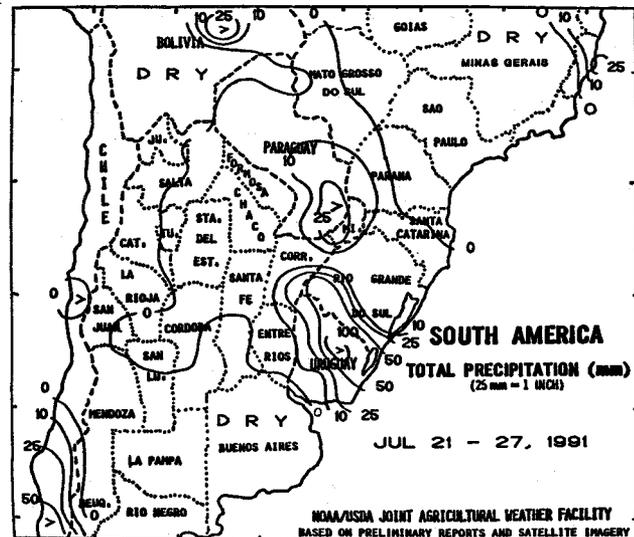
**EUROPE** ... Periodic showers and generally mild weather helped summer crop growth and allowed grain harvesting to advance. Mostly light showers (around 10mm) dampened French corn areas. Heavier showers (13-60mm) in Romania favored corn development. Late-week cooler weather reached the Mediterranean region, easing severe heat stress conditions, which persisted recently in the Iberian peninsula. High temperatures across northern Europe averaged 20 degrees C, with crop development still lagging about a week behind usual progress. Weekly average temperatures were 1-2 degrees C below normal in the north and east and 1-2 degrees above normal in the south and west. Thunderstorms in Hungary, Yugoslavia, and parts of Czechoslovakia may have lodged maturing grains.



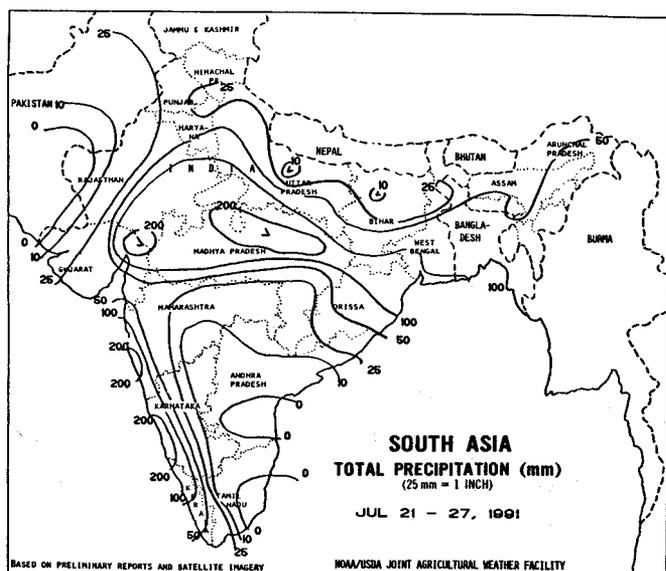
**EASTERN ASIA** ... Typhoon Brendan made landfall about 160 kilometers (100 miles) west of Hong Kong, along the coast of southern China, with sustained winds of 110-120 kph (65-70 mph). The storm produced moderate to heavy rains (30-102mm) across Guangdong and Guangxi, with isolated heavier rains (100-300mm) causing local flooding and some damage to coastal sugarcane and rice. The drought areas of Jiangxi and western Fujian received only light rains (less than 10mm), contributing to low reservoir levels and stress on main- and late-season rice. Dry weather and warmer-than-normal temperatures (2-3 degrees C above normal) continued across the middle and lower Yangtze Valley, aiding receding flood levels. Scattered thunderstorms dumped moderate to heavy rains (55-111mm) across Shandong and Hebei, aiding soybeans and reproductive corn where it was previously dry. In Manchuria, moderate to heavy rains (25-119mm) provided adequate soil moisture levels for summer crops. Heavy rains (129-239mm) fell across the central Korean peninsula, causing flooding. Typhoon Caitlan, the fourth typhoon in 2 weeks in the Western Pacific, headed for southern Japan and South Korea at week's end.



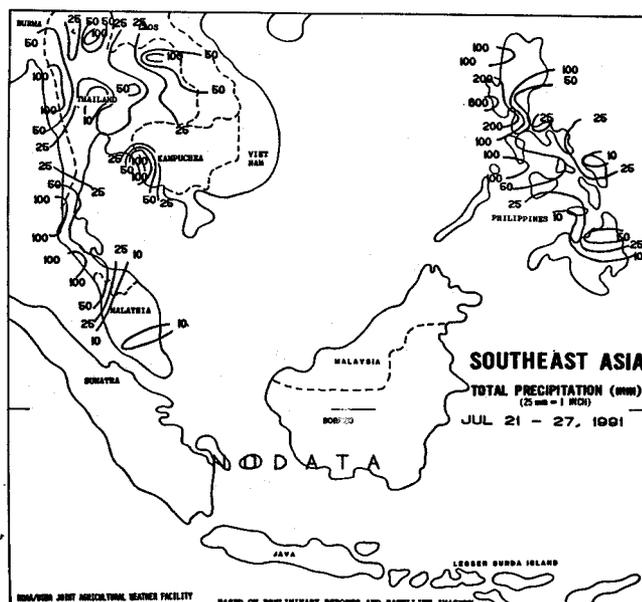
**MEXICO** ... Seasonal moderate rains (22-74mm) continued across the Southern Plateau Corn Belt, favoring vegetative corn. Portions of southern Mexico (Guerrero, Oaxaca, and Chiapas provinces) are drying out as the rains move northward. Moderate to heavy rains fell across north-central regions (Chihuahua), causing possible flooding.



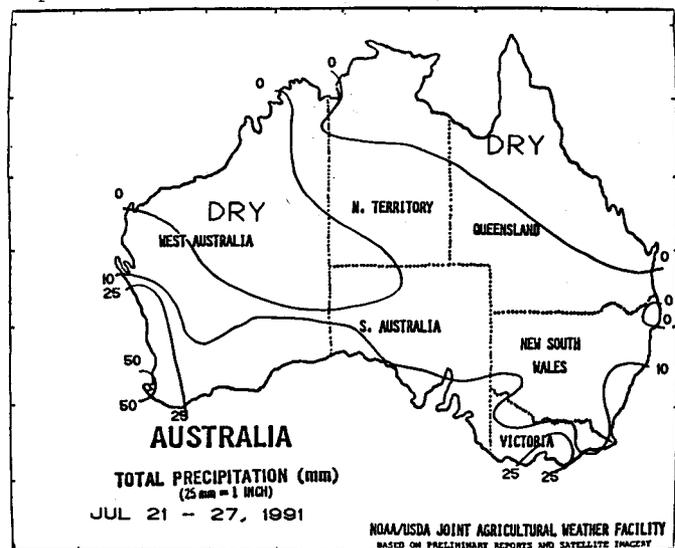
**SOUTH AMERICA** ... Mostly dry weather prevailed across Argentina, favoring soybean harvesting as it nears completion and winter wheat planting. In southern Brazil, light rains aided winter wheat germination, and dry conditions helped coffee and citrus harvesting in Sao Paulo and Minas Gerais. A frontal system brought moderate to heavy rains (39-101mm) to Uruguay.



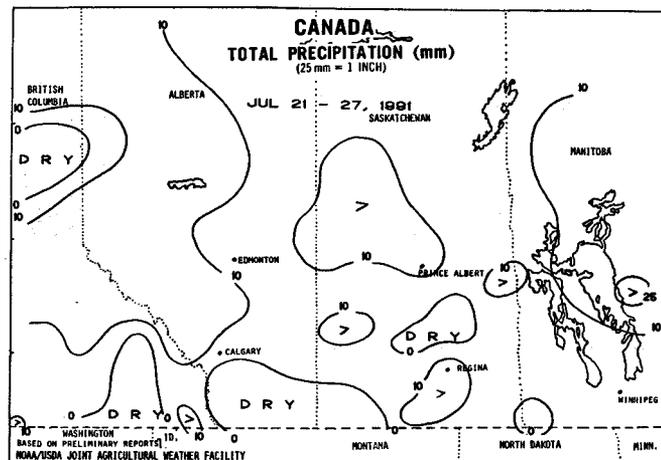
**SOUTH ASIA** ... Moderate to heavy rain (50-100mm or more) covered a large area of central India from eastern Gujarat and Rajasthan to West Bengal, greatly improving moisture reserves for late planted oilseeds, grains, and cotton. Excessive rain (200-259mm) caused some local flooding, especially in rice areas of eastern Madhya Pradesh following last week's heavy showers. Much needed rain (10-50mm or more) fell in northern crop regions from Pakistan's Punjab state through Uttar Pradesh, boosting irrigation reserves, although warmer-than-normal temperatures maintained high moisture demands. Rain tapered off in the east, with amounts of 10-50mm reported from northern Bihar to Assam. In the south, seasonably heavy showers (100-200mm or more) continued along the southwest coast, but drier-than-usual weather covered the southern interior, with accumulations in most areas from Maharashtra southward below 15mm. Rainfall has been trending below normal in the south for most of July, reducing moisture reserves for grains and oilseeds approaching reproduction.



**SOUTHEAST ASIA** ... Typhoon Brendan (sustained winds of 65 knots) hit the northeastern coast of Luzon, Philippines on the 22nd, bringing heavy showers (100-200mm or more) to western and northern Luzon, including rice and corn areas of the Cagayan Valley. Inundating rains (200-646mm) caused flooding along the west-central coast of Luzon and local areas in the north. Rainfall elsewhere in the Philippines was highly variable but generally below 50mm. In Thailand, scattered showers (25-50mm or more) brought some relief to drought-stressed rice and corn, although seasonably warm weather maintained high moisture demands on rainfed grains advancing through reproduction. Local flooding from inundating rains (200-400mm) occurred along the west coast of the Thai peninsula and southeast of Bangkok near the Kampuchean border. Moderate to heavy rain (25-100mm) covered much of Vietnam.



**AUSTRALIA** ... Only light rains (less than 10mm) fell across Queensland and northern New South Wales, continuing the recent dry trend. Lack of adequate moisture at this time in season will result in poor establishment of winter grains. Elsewhere, light to moderate rains (9-30mm) fell, as favorable moisture conditions continue.



**CANADA** ... Light rain (1-16mm) covered the Canadian Prairies, accompanied by near-normal temperatures in Alberta and western Saskatchewan and below-normal temperatures further east. Periodic warm weather (highs ranging from 28-33 degrees C) in Alberta and Saskatchewan enhanced growth of vegetative to reproductive spring grains and oilseeds. Drier weather the past few weeks has created mostly favorable growing conditions across the Prairies, but local areas of southern Alberta are becoming too dry.

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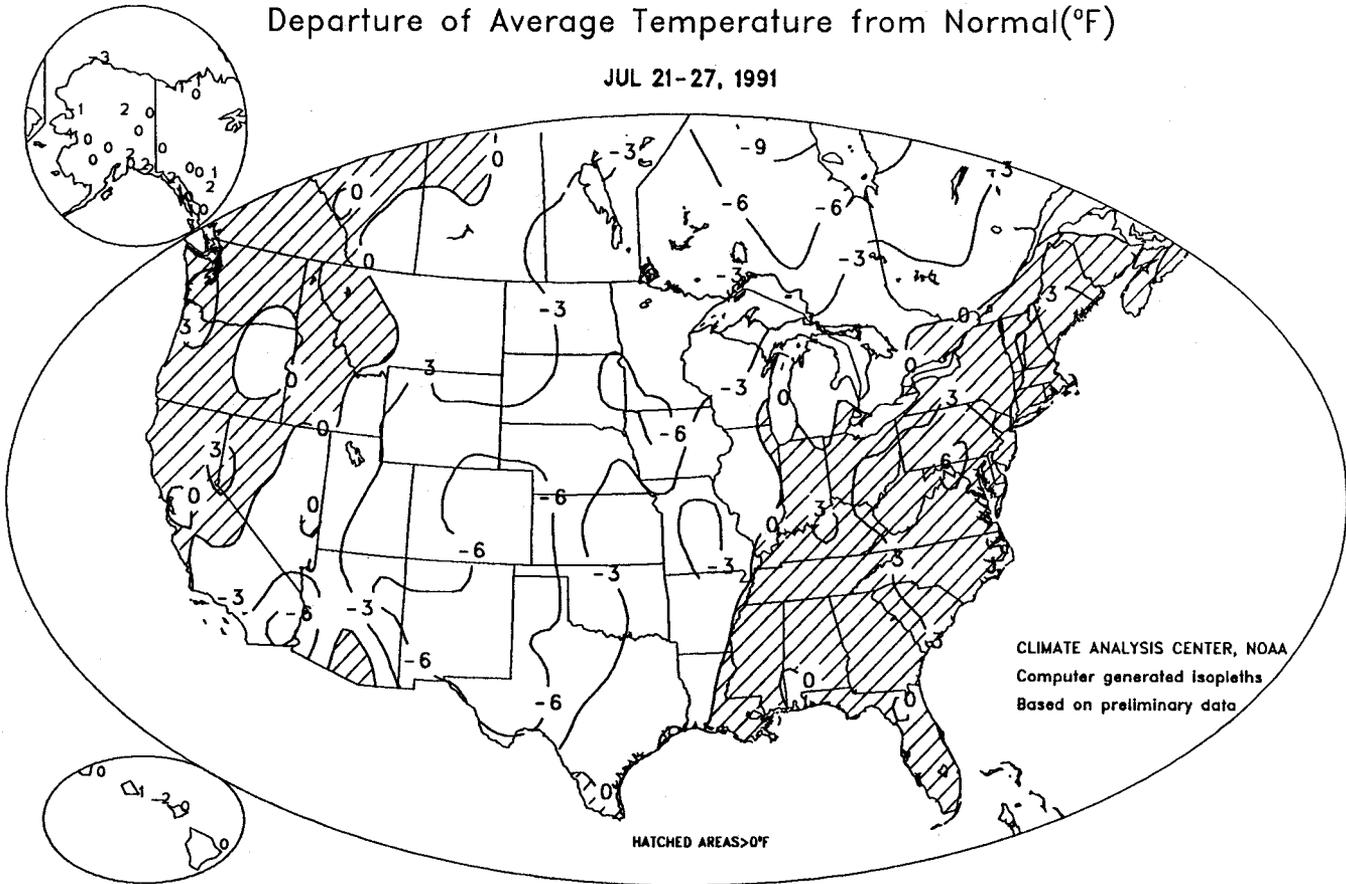
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**Departure of Average Temperature from Normal(°F)**

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