

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

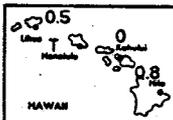
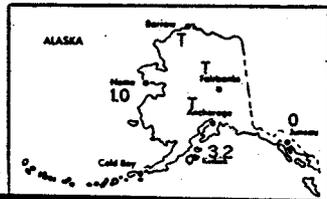
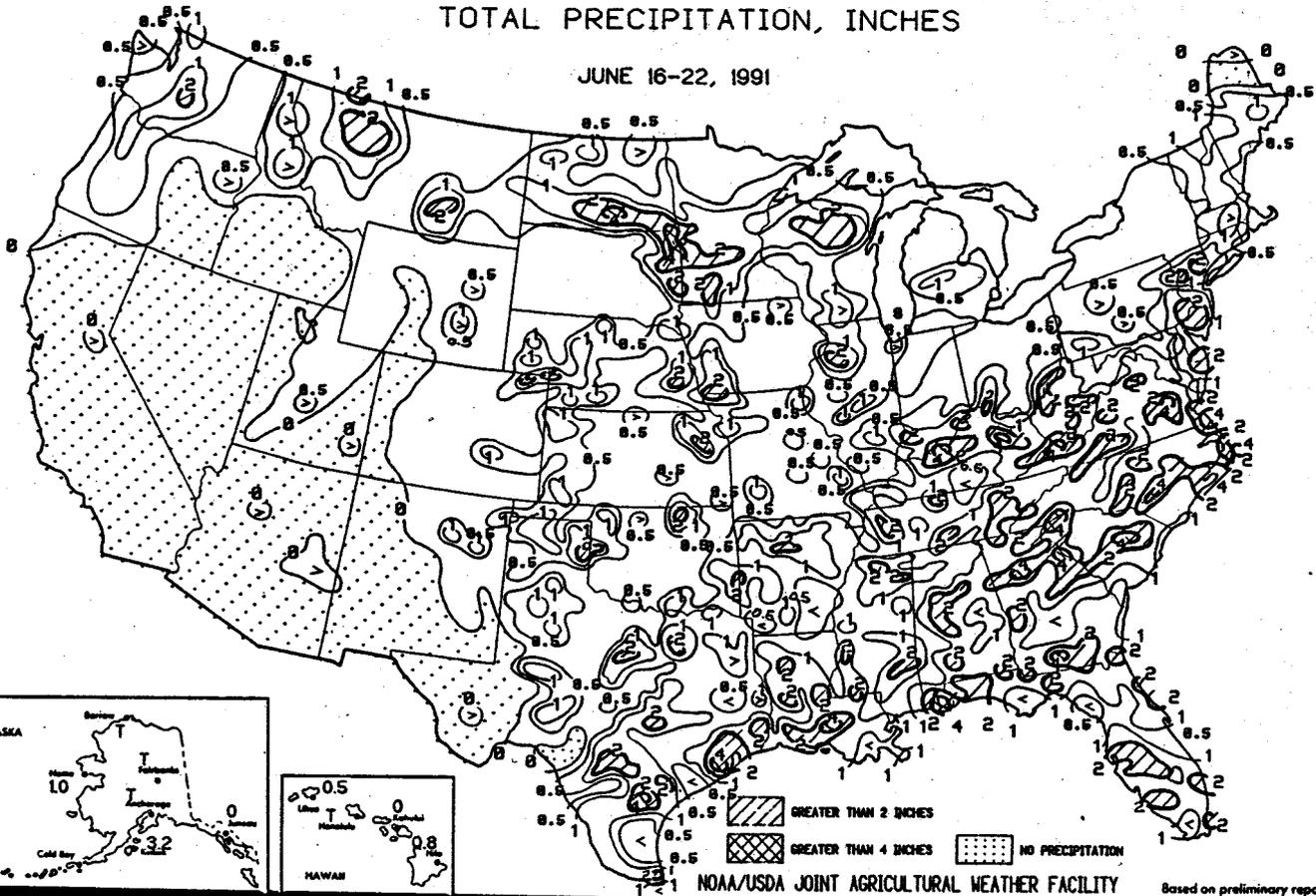
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Washington, D.C.

June 25, 1991

TOTAL PRECIPITATION, INCHES

JUNE 16-22, 1991



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

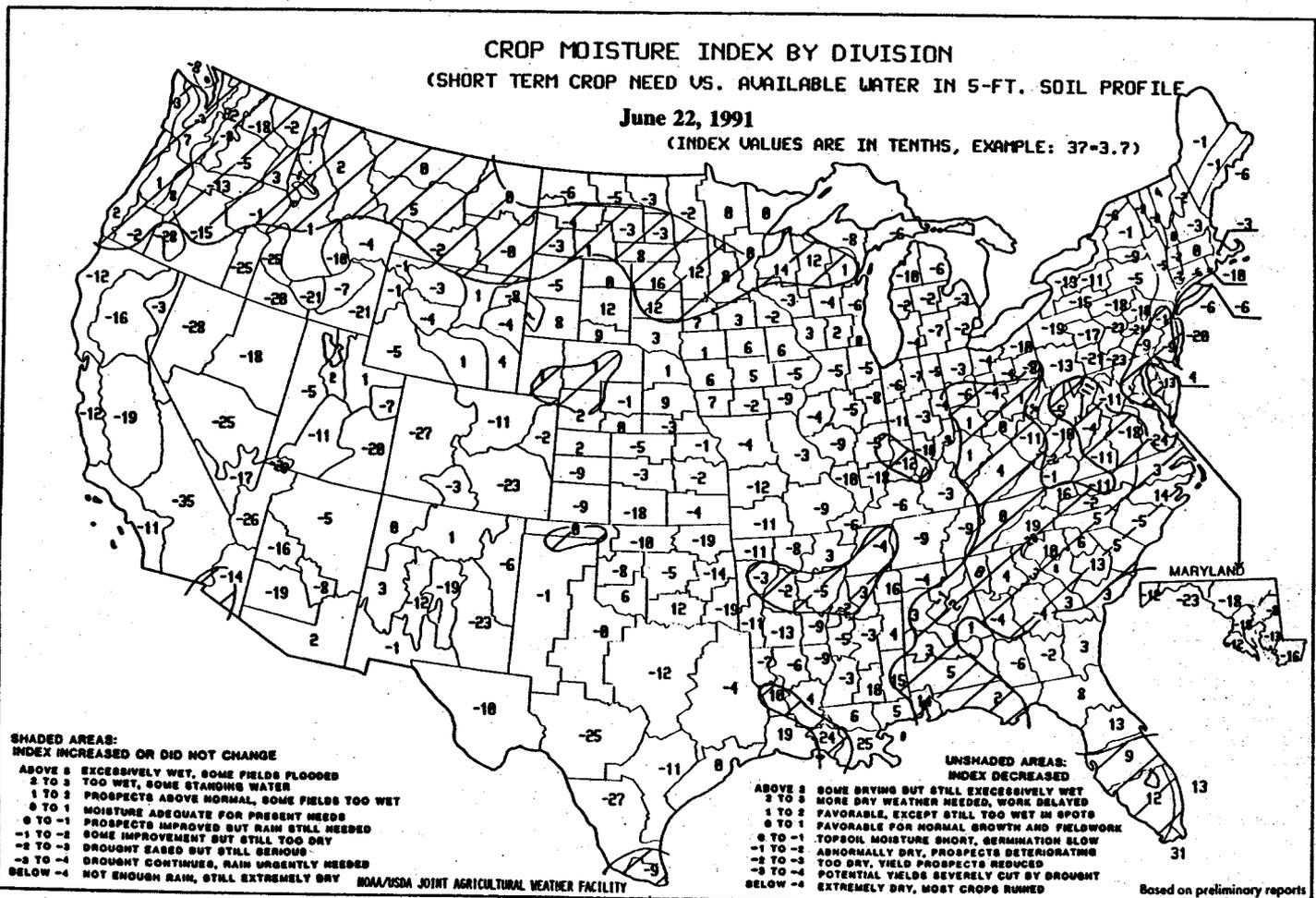
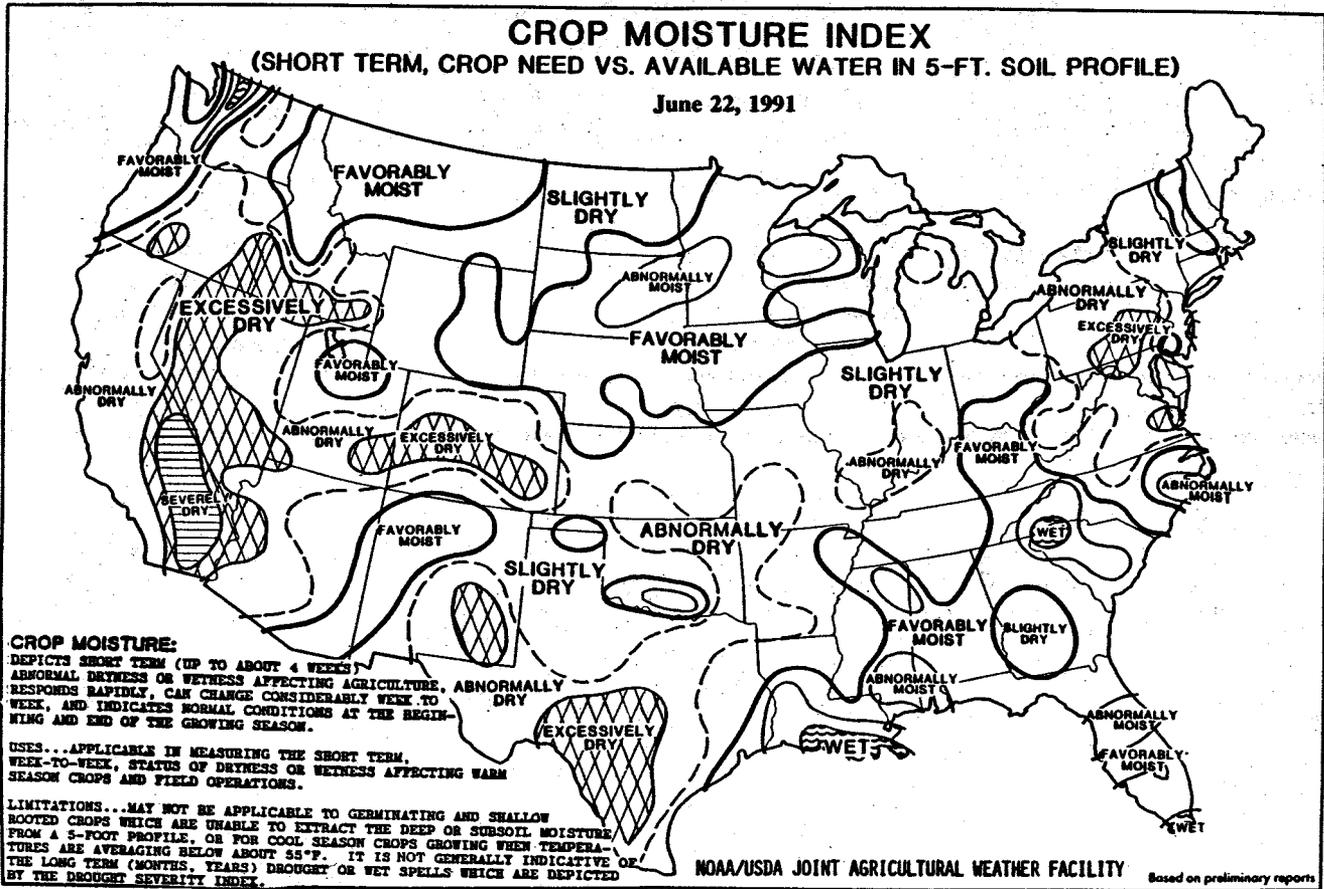
Based on preliminary reports

HIGHLIGHTS June 16-22, 1991

Isolated downpours soaked the Southeast and significant rain fell from the Pacific Northwest to the Great Lakes. Storms dotted the Plains, but mainly dry weather prevailed in the Southwest and the Northeast. Early-week heat seared the East, but it was quickly replaced by a more seasonable airmass. Philadelphia, PA, reached the 100° F mark on Sunday. In contrast, cool weather continued in the Northwest. More than a dozen daily record lows were set, including a 33° F reading in Klamath Falls, OR, on Thursday. Midweek rain eased dryness in the mid-Atlantic region. One-day rainfall reached 2 inches in Philadelphia. Minor flash flooding was commonplace in the Southeast. But snowmelt and rainfall caused extensive flooding in the northern Rockies. States from Washington to Wisconsin were pelted with rain, especially from Wednesday onward. Thunderstorms increased in coverage toward week's end in

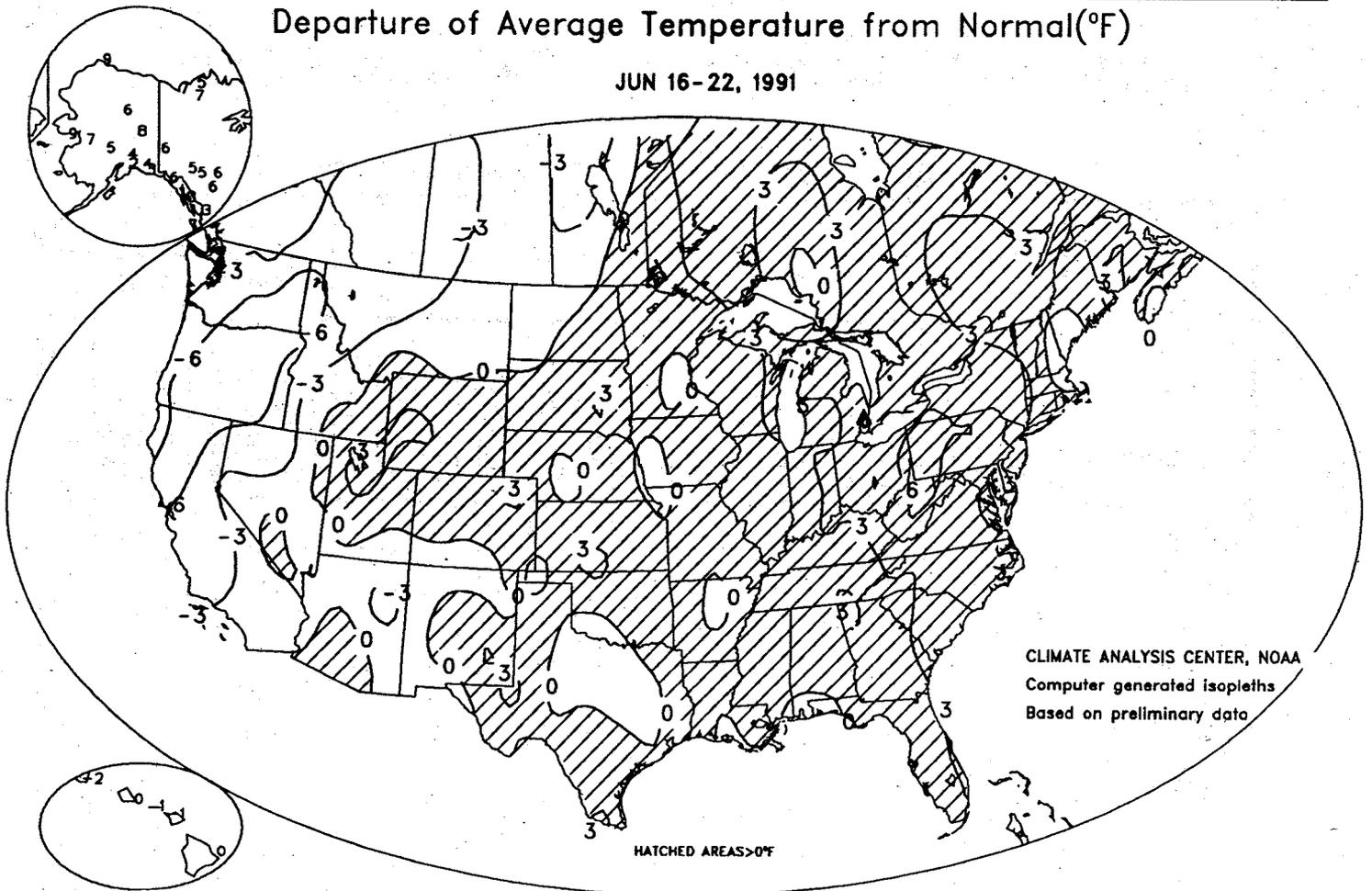
the Plains and the Midwest, providing beneficial crop moisture. A heatwave baked Alaska during the latter half of the week. On Friday in Fairbanks, AK, the high of 94° F seemed more typical of summer readings in the lower 48 States. Prudhoe Bay, situated on the Arctic Ocean, reached 83° F and tied an alltime record.

Contents	Page
Highlights & Total Precipitation	1
Crop Moisture Maps	2
Temperature Departure & Growing Degree Day Departure Maps	3
National Weather Data for Selected Cities	4
National Agricultural Summary	7
Crop Progress and Condition Tables	8
State Summaries of Weather and Agriculture	10
International Weather and Crop Summary	17
Subscription and Mailing Permit Information & Extreme Maximum Temperature Map	20



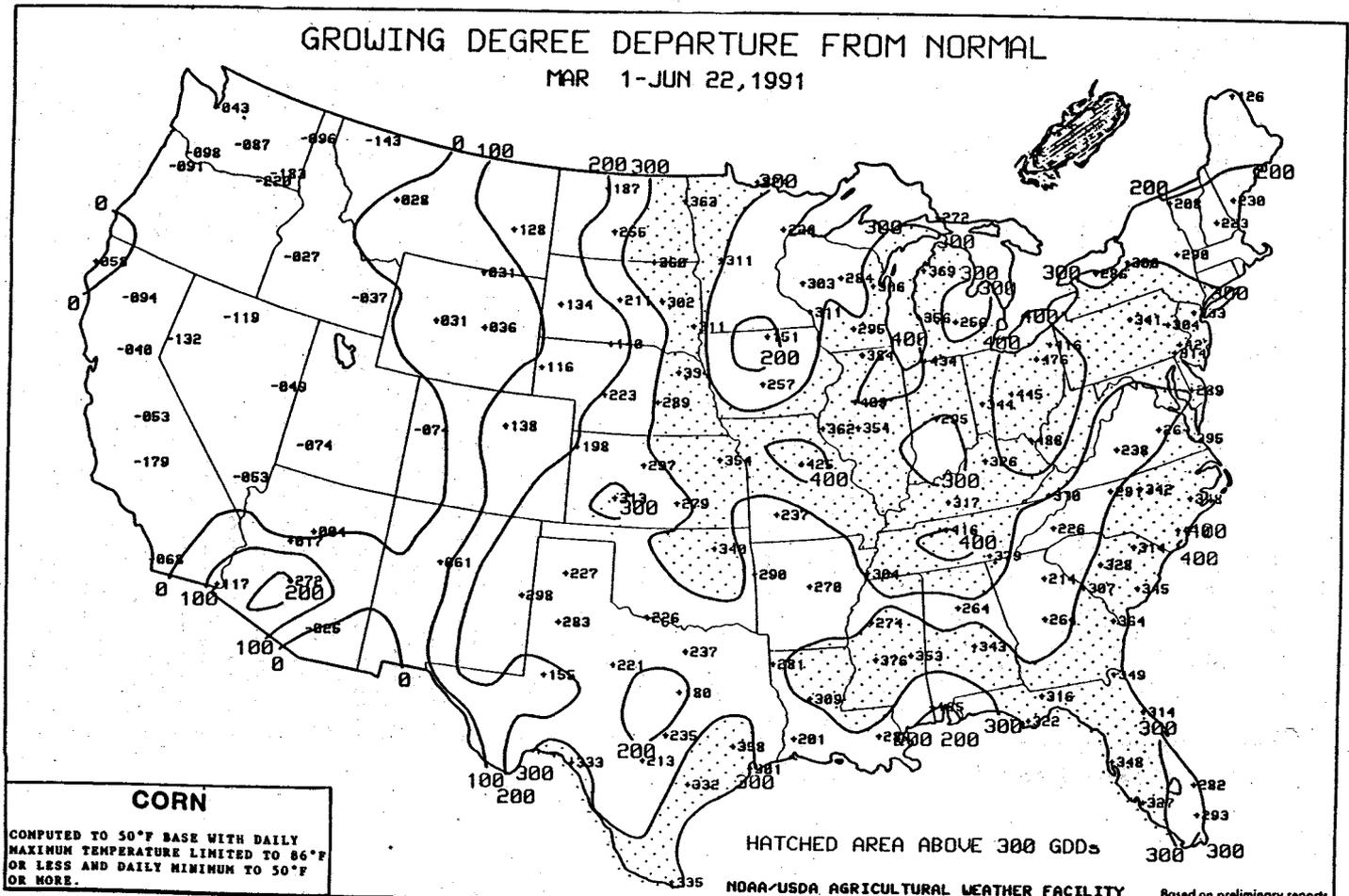
Departure of Average Temperature from Normal(°F)

JUN 16-22, 1991



GROWING DEGREE DEPARTURE FROM NORMAL

MAR 1-JUN 22, 1991



National Weather Data for Selected Cities

Weather Data for the Week Ending June 22, 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	88	70	89	67	79	1	2.4	1.6	1.3	3.6	143	29.8	104	89	61	0	0	5	1		
MOBILE	88	72	91	71	80	-1	4.3	3.1	1.4	4.7	134	54.4	180	98	62	0	0	6	1		
MONTGOMERY	90	70	93	69	80	0	1.1	-1.7	1.1	1.2	48	38.8	153	97	55	0	0	6	1		
AK ANCHORAGE	66	49	75	45	57	2	T	T	T	T	1	2.1	50	87	60	0	0	0	0		
BARROW	53	35	66	29	44	9	T	T	T	T	1	5	45	89	40	0	0	0	0		
FAIRBANKS	82	55	94	46	69	8	T	T	T	T	1	4.0	131	69	45	0	0	1	1		
JUNEAU	72	50	84	45	61	7	T	T	T	T	1	3.2	142	85	38	0	0	0	0		
KODIAK	54	45	63	40	50	-1	3.2	2.3	2.0	3.0	140	27.2	142	85	38	0	0	0	0		
WOME	63	49	72	43	56	3	1.0	-1.7	1.1	6.8	220	46.0	172	98	78	0	0	2	2		
AZ PHOENIX	105	76	110	72	91	1	0.0	-0.0	-0.0	1.9	242	4.9	133	89	54	0	0	3	1		
PRESCOTT	87	51	92	46	69	9	0.0	-0.0	-0.0	0.0	0	3.2	127	89	40	0	0	0	0		
TUCSON	104	64	110	60	84	0	0.0	-1.2	-0.0	0.0	105	6.4	102	37	8	2	0	0	0		
YUMA	104	73	110	69	89	0	0.0	-1.1	-0.0	0.2	286	3.7	141	25	7	7	0	0	0		
AR FORT SMITH	91	69	94	66	80	0	0.6	-2.2	-0.3	0.0	0	1.8	203	27	10	0	0	0	0		
LITTLE ROCK	88	71	93	69	79	0	1.3	-0.4	-0.4	2.0	71	19.7	99	97	41	6	0	3	0		
CA BAKERSFIELD	89	58	93	53	73	-6	0.0	-0.0	-0.0	3.3	121	28.7	111	85	57	2	4	4	0		
BUREKA	58	48	61	45	53	-3	0.0	-0.0	-0.0	0.0	0	4.6	118	57	19	3	0	0	0		
FRESNO	89	57	95	53	73	-2	0.2	-1.1	-1.1	0.0	32	14.2	73	91	68	0	0	0	0		
LOS ANGELES	71	60	77	58	65	-3	0.0	-0.0	-0.0	0.0	0	8.5	121	61	16	3	0	0	0		
REDDING	86	54	91	51	70	-8	0.0	-0.0	-0.0	0.0	0	7.9	95	86	58	0	0	0	0		
SACRAMENTO	84	52	92	50	68	-4	0.0	-0.0	-0.0	0.0	0	17.2	70	66	18	1	0	0	0		
SAN DIEGO	69	60	71	50	64	-4	0.0	-0.0	-0.0	0.0	0	10.2	96	88	29	1	0	0	0		
SAN FRANCISCO	62	51	65	50	56	-5	0.0	-0.0	-0.0	0.0	0	10.5	163	84	62	0	0	0	0		
CO DENVER	86	57	92	50	74	-3	0.1	-2.2	-1.1	2.2	187	8.1	105	72	23	1	0	2	0		
GRAND JUNCTION	92	60	94	55	76	0	0.0	-1.1	-0.0	0.3	94	3.1	87	26	9	6	0	0	0		
PUEBLO	90	56	96	50	73	0	1.0	-0.7	-0.7	1.9	236	4.3	97	80	22	4	0	4	1		
CT BRIDGEPORT	77	64	91	61	71	2	1.1	-0.4	-0.8	2.5	117	18.2	94	87	64	2	0	3	1		
HARTFORD	83	63	93	58	73	3	2.0	1.2	1.2	2.3	91	19.8	96	92	52	2	0	4	1		
DC WASHINGTON	87	70	98	64	79	3	0.5	-0.3	-0.3	1.1	45	12.2	69	93	60	3	0	3	0		
FL APALACHICOLA	90	75	91	73	83	2	2.4	-0.8	1.0	9.4	204	33.8	181	98	57	5	0	5	3		
JACKSONVILLE	93	73	95	71	83	3	1.8	-0.4	1.3	8.3	200	43.0	202	97	53	7	0	3	2		
KEY WEST	90	78	91	75	84	1	3.3	2.1	1.7	5.2	139	20.2	150	87	63	6	0	3	3		
MIAMI	90	76	93	74	83	2	2.1	-1.1	-0.7	3.6	53	17.2	77	90	59	5	0	6	1		
ORLANDO	92	74	95	74	83	2	1.3	-0.5	-0.6	2.5	51	29.7	153	98	57	7	0	5	1		
TALLAHASSEE	92	71	97	67	81	1	2.2	-0.6	-0.9	3.2	70	51.2	176	100	59	5	0	5	2		
TAMPA	91	76	93	74	83	2	2.9	1.6	1.0	3.0	83	19.0	109	96	59	6	0	4	3		
WEST PALM BEACH	91	75	93	73	83	2	1.4	-0.5	-0.8	3.4	58	40.6	176	96	56	7	0	5	1		
GA ATLANTA	88	71	91	68	79	3	6.0	-5.2	3.8	7.2	301	34.6	133	99	58	1	0	7	3		
AUGUSTA	92	72	95	71	82	4	3.1	2.2	1.3	5.1	182	32.0	141	96	55	6	0	4	3		
MACON	91	72	93	70	82	2	0.7	-0.2	-0.6	2.6	98	32.1	134	98	52	6	0	3	1		
SAVANNAH	93	74	95	73	83	4	1.1	-1.2	-1.1	3.2	80	35.6	162	96	50	7	0	2	0		
HI HILLO	83	66	84	65	74	-1	0.8	-0.6	-0.3	6.8	154	77.0	122	91	57	0	0	5	0		
HONOLULU	88	70	89	68	79	0	T	-1.1	T	T	8	10.6	81	81	43	0	0	0	0		
KAHULUI	85	65	87	63	75	-2	0.0	-1.1	-0.0	T	0	7.9	69	88	51	0	0	0	0		
LIHUE	80	70	82	69	75	-2	0.5	-0.2	-0.4	3.6	299	19.1	88	88	68	0	0	4	0		
ID BOISE	81	48	90	41	65	-2	T	-2.2	T	-1.1	12	5.3	78	66	16	1	0	0	0		
LEWISTON	69	47	80	44	58	-9	0.5	-0.2	-0.4	1.0	96	7.1	103	85	41	0	0	3	0		
POCATELLO	81	46	86	40	63	0	0.0	-0.2	-0.0	-0.5	62	9.3	155	67	19	0	0	0	0		
IL CHICAGO	84	59	94	55	71	2	T	-1.0	T	1.0	30	15.7	101	93	40	2	0	0	0		
MOLINE	86	59	91	55	72	0	0.2	-0.9	-0.2	1.3	42	16.8	100	99	47	3	0	1	0		
PEORIA	85	62	90	56	73	1	0.2	-0.7	-0.2	0.8	28	15.1	92	90	51	2	0	2	0		
QUINCY	84	65	88	60	74	1	-1.1	-0.8	-1.1	0.2	7	18.2	106	83	45	0	0	1	0		
ROCKFORD	84	60	91	56	72	2	0.6	-0.5	-0.6	3.2	95	14.4	88	93	44	3	0	1	1		
SPRINGFIELD	86	63	92	58	75	1	0.9	-0.0	-0.6	1.3	49	15.2	94	99	48	1	0	2	1		
IN EVANSVILLE	86	68	92	65	77	2	0.6	-0.2	-0.4	0.7	25	16.6	77	99	55	2	0	4	0		
FORT WAYNE	87	63	95	60	75	4	0.0	-0.9	-0.0	0.9	35	20.7	124	85	39	3	0	0	0		
INDIANAPOLIS	86	64	92	60	75	2	0.4	-0.6	-0.4	0.9	32	19.8	105	90	41	1	0	1	0		
SOUTH BEND	87	62	95	58	74	4	T	-0.9	T	0.6	20	15.4	90	90	38	3	0	0	0		
IA DES MOINES	82	64	89	58	73	1	T	-0.9	T	2.9	92	23.3	161	87	51	0	0	2	0		
SIoux CITY	82	62	91	52	72	0	1.0	-1.0	1.0	4.0	137	14.2	119	89	56	1	0	1	1		
WATERLOO	83	61	89	56	72	2	0.0	-1.0	-0.0	2.2	70	23.5	160	95	47	0	0	0	0		
KS CONCORDIA	89	65	96	55	77	2	0.3	-0.7	-0.3	3.8	120	11.7	92	87	39	5	0	2	0		
DODGE CITY	94	64	98	55	79	3	-1.1	-0.6	-1.1	0.4	17	4.9	51	76	27	6	0	1	0		
GOODLAND	86	59	95	54	73	2	1.7	1.1	-0.7	4.9	241	11.2	144	89	37	2	0	5	2		
TOPEKA	88	65	94	61	76	1	0.6	-0.6	-0.6	1.5	39	16.0	107	94	48	3	0	2	1		
WICHITA	92	68	99	66	80	3	0.5	-0.4	-0.4	1.3	46	9.0	71	86	36	5	0	2	0		
KY BOWLING GREEN	84	68	89	67	76	1	0.3	-0.8	-0.2	1.1	34	24.5	95	96	61	0	0	2	0		
LEXINGTON	84	67	87	65	75	2	1.4	-0.4	-0.8	3.0	99	22.0	96	100	67	0	0	4	1		
LOUISVILLE	88	71	92	69	79	4	1.2	-0.3	-0.5	1.2	47	19.7	89	93	55	2	0	5	1		
LA ALEXANDRIA	91	72	92	70	81	0	0.3	-0.6	-1.1	0.9	32	48.0	174	94	52	6	0	3	0		
BATON ROUGE	91	73	93	70	82	1	1.6	-0.9	-0.8	4.3	210	44.9	169	95	57	6	0	4	1		
LARK CHARLES	90	73	92	70	82	1	1.1	-0.2	-0.7	5.8	194	46.5	198	98	59	5	0	2	1		
NEW ORLEANS	90	72	92	70	81	0	3.3	2.2	1.8	7.5	231	68.0	246	98	63	6	0	5	2		

Based on 1951-80 normals

Weather Data for the Week Ending June 22, 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	70	94	68	81	0	.1	-.7	-.1	1.5	60	49.8	215	97	50	6	0	0	0	0	0	0	0	0	
ME CARBON	77	51	87	36	64	3	.3	-.4	-.3	1.5	36	14.9	102	89	40	0	0	0	0	0	0	0	0	0	
PORTLAND	72	53	91	48	62	1	.4	-.3	-.4	1.5	37	13.9	111	94	52	1	1	0	0	0	0	0	0	0	
MD BALTIMORE	86	67	99	63	77	4	.7	-.2	-.4	1.0	65	20.7	104	98	64	4	4	0	0	0	0	0	0	0	
SALISBURY	84	68	95	65	76	4	.4	-.2	-.7	1.0	37	13.9	72	97	59	1	1	0	0	0	0	0	0	0	
MA BOSTON	74	60	92	55	67	-2	.3	-.4	-.1	2.3	105	17.2	81	90	58	3	3	0	0	0	0	0	0	0	
CHATHAM	70	57	83	53	63	1	.1	-.6	-.1	1.7	83	17.0	77	92	72	1	1	0	0	0	0	0	0	0	
MI ALPENA	80	52	88	47	66	3	.3	-.7	-.6	1.2	8	13.5	108	96	41	0	0	0	0	0	0	0	0	0	
DETROIT	86	64	93	58	75	6	.6	-.3	-.3	1.9	77	14.6	101	89	42	3	3	0	0	0	0	0	0	0	
FLINT	83	59	90	54	71	4	.4	-.3	-.3	2.9	123	15.2	115	91	45	2	2	0	0	0	0	0	0	0	
GRAND RAPIDS	84	59	91	54	72	3	.3	-.3	-.6	1.8	65	17.3	114	94	40	3	3	0	0	0	0	0	0	0	
HOUGHTON LAKE	81	56	86	50	69	5	.5	-.3	-.3	1.5	65	16.1	133	83	40	3	3	0	0	0	0	0	0	0	
LANSING	83	57	91	51	70	2	.2	-.1	-.8	2.6	89	14.6	108	98	45	1	1	0	0	0	0	0	0	0	
MARQUETTE	75	50	85	42	63	2	.2	-.4	-.3	1.8	62	14.4	83	90	48	0	0	0	0	0	0	0	0	0	
MUSKOGON	81	57	87	52	69	2	.2	-.5	-.1	3.8	209	17.4	124	95	46	0	0	0	0	0	0	0	0	0	
SAULT ST. MARIE	75	49	86	46	62	3	.3	-.7	-.1	.5	22	11.4	84	95	46	0	0	0	0	0	0	0	0	0	
NM ALEXANDRIA	76	58	86	47	67	1	.1	-.9	-.5	1.1	3.8	12.4	125	86	48	0	0	0	0	0	0	0	0	0	
DULUTE	71	50	81	39	61	1	.1	-.6	-.7	3.7	108	15.4	129	91	51	0	0	0	0	0	0	0	0	0	
INT'L FALLS	77	54	87	45	66	1	.1	-.8	-.1	2.2	85	11.6	126	91	39	0	0	0	0	0	0	0	0	0	
MINNEAPOLIS	80	58	85	52	69	0	.0	-.2	-.3	1.0	35	14.8	128	93	50	0	0	0	0	0	0	0	0	0	
ROCHESTER	81	58	86	53	70	2	.2	-.9	-.7	2.2	81	15.2	128	93	47	0	0	0	0	0	0	0	0	0	
MS GREENWOOD	91	71	93	69	81	1	.1	-.6	-.6	2.8	114	42.0	146	97	50	6	6	0	0	0	0	0	0	0	
JACKSON	93	71	94	69	82	2	.2	-.7	-.6	2.8	114	42.0	146	97	50	6	6	0	0	0	0	0	0	0	
MERIDIAN	91	70	92	68	80	1	.1	-.6	-.6	1.3	59	42.2	153	99	51	7	7	0	0	0	0	0	0	0	
MO CAPE GIRARDEAU	88	69	90	66	78	0	.0	-.5	-.4	2.5	104	43.0	152	97	53	6	6	0	0	0	0	0	0	0	
COLUMBIA	87	64	90	61	76	1	.1	-.3	-.4	1.1	40	20.4	90	94	49	2	2	0	0	0	0	0	0	0	
KANSAS CITY	86	64	92	60	75	5	.5	-.3	-.5	3.2	113	15.6	86	90	44	2	2	0	0	0	0	0	0	0	
SAINT LOUIS	89	69	94	65	79	3	.3	-.6	-.4	3.1	89	15.7	96	97	50	1	1	0	0	0	0	0	0	0	
SPRINGFIELD	88	63	91	56	75	1	.1	-.9	-.4	.4	16	13.3	79	85	44	3	3	0	0	0	0	0	0	0	
MT BILLINGS	76	52	88	46	64	1	.1	-.1	-.1	.2	5	16.0	84	98	44	2	2	0	0	0	0	0	0	0	
GLASSBORO	74	53	81	46	64	4	.4	-.2	-.3	2.8	153	6.5	129	85	44	0	0	0	0	0	0	0	0	0	
GREAT FALLS	69	45	74	36	57	1	.1	-.2	-.3	2.8	153	6.5	129	85	44	0	0	0	0	0	0	0	0	0	
HAVRE	69	50	73	34	52	1	.1	-.2	-.3	3.7	172	8.8	101	86	40	0	0	0	0	0	0	0	0	0	
HELENA	71	46	78	32	59	5	.5	-.4	-.1	.6	34	6.9	114	86	50	0	0	0	0	0	0	0	0	0	
KALISPELL	66	42	72	32	54	-5	-.5	-.1	-.6	2.6	169	6.3	103	83	33	0	0	0	0	0	0	0	0	0	
MILES CITY	77	55	92	45	66	-1	-.1	-.5	-.2	2.0	95	9.8	129	77	46	1	1	0	0	0	0	0	0	0	
MISSOULA	69	43	76	35	56	-5	-.5	-.8	-.5	2.4	168	7.0	100	92	40	0	0	0	0	0	0	0	0	0	
NE GRAND ISLAND	84	61	95	49	73	0	.0	-.4	-.3	5.2	188	16.6	140	86	49	2	2	0	0	0	0	0	0	0	
LINCOLN	87	62	95	50	75	1	.1	-.2	-.3	4.8	167	14.1	107	87	45	4	4	0	0	0	0	0	0	0	
NORFOLK	84	62	93	49	73	1	.1	-.8	-.3	6.2	192	19.8	166	86	50	2	2	0	0	0	0	0	0	0	
NORTH PLATTE	82	56	88	46	69	0	.0	-.1	-.5	2.4	88	12.3	124	92	52	0	0	0	0	0	0	0	0	0	
OMAHA	82	65	89	59	74	0	.0	-.5	-.5	6.5	210	21.3	154	84	55	0	0	0	0	0	0	0	0	0	
SCOTTSDALE	83	56	90	52	69	1	.1	-.2	-.3	2.4	107	9.2	114	89	43	1	1	0	0	0	0	0	0	0	
VALENTINE	83	57	91	52	70	1	.1	-.4	-.3	4.9	220	14.9	174	91	49	1	1	0	0	0	0	0	0	0	
NV RLY	82	42	87	35	62	2	.2	-.2	-.0	.4	75	5.8	119	43	13	0	0	0	0	0	0	0	0	0	
LAS VEGAS	99	72	104	64	85	0	.0	-.0	-.0	.2	>1000	2.0	115	21	9	7	7	0	0	0	0	0	0	0	
RENO	79	44	85	39	62	-2	-.2	-.1	-.0	.0	0	2.6	61	55	10	0	0	0	0	0	0	0	0	0	
WINNIEMOCCA	82	41	87	37	62	-3	-.3	-.0	-.0	.0	0	4.0	90	47	10	0	0	0	0	0	0	0	0	0	
CONCORD	76	54	91	49	65	-1	-.1	-.2	-.2	1.5	71	12.9	79	98	46	1	1	0	0	0	0	0	0	0	
NJ ATLANTIC CITY	84	65	97	62	75	5	.5	-.4	-.2	1.1	57	16.9	89	100	66	4	4	0	0	0	0	0	0	0	
NM ALBUQUERQUE	92	61	96	57	77	1	.1	-.1	-.1	.6	203	2.6	107	53	14	7	7	0	0	0	0	0	0	0	
CLOVIS	91	64	95	60	77	2	.2	-.1	-.1	1.7	93	3.7	59	80	29	5	5	0	0	0	0	0	0	0	
ROSWELL	99	68	105	65	83	4	.4	-.3	-.3	1.2	185	2.9	96	59	17	7	7	0	0	0	0	0	0	0	
NY ALBANY	83	62	90	55	73	5	.5	-.7	-.7	.8	32	14.0	87	90	48	1	1	0	0	0	0	0	0	0	
BINGHAMTON	79	62	84	57	70	5	.5	-.8	-.8	2.4	91	16.2	97	92	55	0	0	0	0	0	0	0	0	0	
BUFFALO	80	62	87	57	71	4	.4	-.6	-.6	.9	43	19.9	123	93	50	0	0	0	0	0	0	0	0	0	
NEW YORK	82	67	96	62	75	2	.2	-.5	-.4	3.2	141	17.9	91	86	55	3	3	0	0	0	0	0	0	0	
ROCHESTER	80	63	88	58	71	4	.4	-.7	-.7	1.0	47	15.0	104	88	49	0	0	0	0	0	0	0	0	0	
SYRACUSE	81	61	87	58	71	4	.4	-.9	-.9	1.3	49	17.1	99	95	51	0	0	0	0	0	0	0	0	0	
NC ASHEVILLE	83	65	85	62	74	3	.3	-.7	-.7	5.0	181	23.8	111	100	60	0	0	0	0	0	0	0	0	0	
CHARLOTTE	89	71	94	70	80	5	.5	-.5	-.2	2.4	92	25.3	116	95	55	3	3	0	0	0	0	0	0	0	
GREENSBORO	86	69	93	68	78	3	.3	-.1	-.6	1.5	52	25.4	127	98	60	2	2	0	0	0	0	0	0	0	
HATTERAS	86	73	88	70	80	5	.5	-.9	-.9	3.9	1.8	5.3	164	96	69	0	0	0	0	0	0	0	0	0	
NEW BERN	89	73	94	72	81	5	.5	-.6	-.6	1.5	3.4	93	22.0	97	98	64	4	4	0	0	0	0	0	0	
RALEIGH	88	71	94	70	80	5	.5	-.4	-.2	2.0	74	15.3	77	99	58	3	3	0	0	0	0	0	0	0	
WILMINGTON	90	74	95	73	82	5	.5	-.2	-.2	1.0	2.5	63	26.0	117	98	62	4	4	0	0	0	0	0	0	
ND BISMARCK	79	53	87	41	66	1	.1	-.3	-.3	1.8	82	7.8	104	93	41	0	0	0	0	0	0	0	0	0	
FARGO	79	58	89	48	68	2	.2	-.8																	

Weather Data for the Week Ending June 22, 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	.01 INCH OR MORE		.50 INCH OR MORE	
																		3	4	5	6
DAYTON	87	64	91	62	75	3	1.4	.5	1.0	2.5	91	21.9	125	89	44	2	0	3	1		
TOLEDO	86	62	94	57	74	5	1.1	.8	1.1	1.5	19	13.8	93	97	46	2	0	0	0		
YOUNGSTOWN	87	59	93	55	73	6	1.1	.7	1.1	1.9	24	11.8	97	97	44	2	1	0	0		
OK OKLAHOMA CITY	91	70	93	67	81	2	1.3	.5	1.3	3.2	107	14.1	91	97	44	2	2	0	0		
TULSA	92	70	94	67	81	2	1.7	.4	1.3	3.6	106	14.2	75	86	39	6	2	2	0		
OR ASTORIA	60	48	65	41	54	-3	1.9	.4	1.8	1.8	94	35.0	99	95	72	0	0	0	1		
BURNS	71	38	78	28	55	-7	1.7	.1	1.7	1.6	122	4.1	77	77	22	0	0	0	0		
MEDFORD	76	47	82	40	62	-5	1.5	.4	1.5	1.5	98	9.1	91	87	34	0	0	0	0		
FENDLETON	67	47	73	44	57	-10	1.3	.2	1.4	1.4	258	7.9	122	78	39	0	0	0	0		
PORTLAND	66	51	80	42	58	-5	1.9	1.6	1.7	2.2	191	20.5	107	91	58	0	0	0	1		
SALEM	66	47	81	35	57	-5	1.0	.7	1.1	1.1	114	20.8	98	96	56	0	0	0	1		
PA ALLENTOWN	84	64	94	60	74	4	1.4	.4	1.4	1.1	33	14.4	72	96	54	4	0	0	0		
ERIE	81	64	87	59	72	6	1.9	.9	1.7	1.7	23	12.5	74	88	52	0	0	0	0		
HARRISBURG	88	67	96	63	77	5	1.8	.8	1.3	1.3	48	14.5	77	88	48	4	0	0	1		
PHILADELPHIA	87	67	100	62	77	4	2.3	1.4	2.1	2.7	96	16.3	85	92	53	4	0	3	1		
PITTSBURGH	87	66	94	63	77	7	1.8	.8	1.5	1.5	60	14.8	81	89	45	2	0	1	0		
SCRANTON	82	64	90	58	73	3	1.8	.8	1.7	1.7	65	13.0	83	92	53	1	0	3	1		
RI PROVIDENCE	78	60	91	56	69	1	1.5	.5	1.5	.9	45	21.4	100	92	54	2	0	1	0		
SC CHARLESTON	91	75	93	73	83	3	1.2	.4	1.0	2.8	60	26.1	116	95	60	6	0	3	1		
COLUMBIA	92	73	95	71	82	4	1.6	.6	1.9	3.4	109	30.0	124	95	53	7	0	4	1		
FLORENCE	92	73	96	71	83	3	2.5	1.4	1.4	3.4	103	20.5	100	98	52	6	0	2	2		
GREENVILLE	88	69	91	66	78	2	1.2	.1	1.5	1.5	49	26.4	101	99	61	1	0	4	2		
SD ABERDEEN	80	58	88	50	69	-2	1.3	.5	1.6	1.6	68	14.3	160	90	54	0	0	3	0		
BURON	84	61	93	50	72	-3	1.7	.8	1.7	1.8	184	15.5	163	82	49	2	0	0	0		
RAPID CITY	78	56	89	51	67	-7	1.7	.1	1.4	3.0	123	12.1	135	96	58	0	0	5	0		
SIoux FALLS	81	62	89	52	71	-2	1.1	.3	1.1	6.3	228	16.1	143	86	54	0	0	2	1		
TN CHATTANOOGA	88	70	91	69	79	3	1.3	.5	1.5	3.1	131	31.9	117	98	58	2	0	6	1		
KNOXVILLE	85	70	88	67	78	2	1.8	.9	1.6	4.6	161	27.5	112	98	55	0	0	4	1		
MEMPHIS	90	72	92	70	81	1	1.5	.3	1.2	4.5	38.5	139	91	49	5	0	3	0			
NASHVILLE	90	70	93	65	80	3	1.8	.0	1.3	4.6	22.8	89	94	47	4	0	2	0	0		
TX ABILENE	92	69	95	64	81	-1	1.9	.8	1.5	6.5	341	12.6	120	83	36	7	0	2	0		
AMARILLO	90	61	94	57	76	0	1.9	.1	1.8	2.5	96	6.8	83	86	29	3	0	3	1		
AUSTIN	94	72	96	69	83	1	1.2	.6	1.2	3.4	141	25.3	165	94	46	7	0	2	1		
BRAUNSTON	91	72	93	71	82	0	1.9	.8	1.1	6.3	181	48.0	200	97	61	5	0	4	2		
BROWNSVILLE	94	76	97	74	85	2	1.6	.1	1.1	5.3	17.4	194	96	51	7	0	2	1			
CORPUS CHRISTI	93	75	96	71	84	2	1.5	.4	2.1	7.0	17.6	147	97	54	7	0	1	0	0		
DEL RIO	98	75	100	69	86	2	1.0	.0	1.9	1.9	148	7.5	105	66	31	7	0	0	0		
EL PASO	100	63	104	53	82	0	1.1	.1	1.1	1.1	0	1.8	100	30	9	7	0	0	0	0	
FORT WORTH	93	70	96	66	82	-1	1.5	1.0	1.2	3.9	213	21.1	131	93	45	6	0	3	1		
GALVESTON	88	76	90	72	82	0	2.2	1.4	1.1	5.4	209	37.0	231	84	65	1	0	7	2		
HOUSTON	92	72	95	70	82	1	1.8	.8	1.9	6.5	194	35.9	168	99	56	7	0	5	2		
LUBBOCK	93	65	94	63	79	1	1.6	1.0	1.4	5.1	248	8.8	118	89	38	7	0	3	1		
MIDLAND	96	67	100	62	81	1	1.1	.8	1.1	3.5	330	6.1	114	82	29	7	0	1	1		
SAN ANGELO	92	67	95	64	80	-2	1.2	.2	1.1	4.0	279	8.7	109	93	40	6	0	3	0		
SAN ANTONIO	97	72	99	69	85	2	1.2	.5	1.0	1.6	70	20.3	152	92	41	7	0	2	1		
VIctorIA	95	74	97	73	84	2	1.1	-.9	1.1	1.5	43	28.8	180	97	50	7	0	2	0		
WACO	94	71	96	67	82	0	1.8	.3	1.8	2.9	142	17.0	105	98	47	7	0	1	1		
WICHITA FALLS	93	69	97	66	81	-1	1.1	-.5	1.1	2.8	124	11.3	86	91	38	6	0	2	0		
UT CEDAR CITY	85	54	90	49	69	-2	1.0	.0	1.1	1.1	103	4.3	93	29	12	1	0	0	0		
SALT LAKE CITY	86	59	91	53	73	4	1.0	-.2	1.0	1.1	145	9.4	108	54	16	3	0	0	0		
VT BURLINGTON	78	57	88	49	68	1	1.8	.0	1.3	4.8	12.6	89	92	46	0	0	1	1			
VA NORFOLK	87	73	96	72	80	5	3.2	2.3	1.7	4.3	175	21.5	109	94	65	2	0	5	2		
RICHMOND	88	69	100	67	79	4	4.0	3.2	3.0	5.1	202	17.5	93	99	65	3	0	6	2		
ROANOKE	86	68	92	66	77	4	2.0	1.2	1.5	2.3	94	20.9	112	99	59	3	0	4	1		
WA QUILLAYUTE	61	47	69	41	54	-2	1.8	.2	1.3	2.2	102	50.6	95	88	65	0	0	4	1		
SEATTLE-TACOMA	66	50	75	48	58	-2	1.8	.5	1.2	1.2	111	22.9	122	92	58	0	0	4	1		
SPOKANE	64	44	74	37	54	-9	1.2	.1	1.1	1.6	67	8.5	96	89	48	0	0	2	1		
YAKIMA	71	46	78	36	58	-7	1.6	1.4	1.5	2.4	560	5.0	121	92	42	0	0	4	1		
WV BECKLEY	81	64	85	61	73	6	1.4	.5	1.2	1.6	58	19.6	96	100	65	0	0	3	1		
CHARLESTON	86	68	90	65	77	5	2.2	1.5	1.4	2.5	109	19.2	96	100	57	1	0	4	1		
HUNTINGTON	88	68	91	66	78	5	1.8	.0	1.6	1.6	67	20.1	101	98	54	4	0	5	0		
PARKERSBURG	88	67	91	64	77	5	3.1	2.1	2.9	3.9	140	20.2	108	99	49	2	0	4	1		
WI GREEN BAY	81	58	88	55	69	4	1.3	-.4	1.1	1.1	45	10.1	83	93	43	0	0	2	0		
LACROSSE	83	61	90	54	72	3	1.0	-.0	1.0	1.7	23	17.1	129	93	45	1	0	0	0		
MADISON	82	58	88	51	70	2	1.4	-.5	1.4	3.8	133	16.7	124	95	47	0	0	1	1		
MILWAUKEE	78	62	87	56	70	4	1.4	.4	1.4	2.1	82	16.1	114	84	52	0	0	2	0		
WAUSAU	79	56	84	50	67	2	3.3	2.4	2.5	4.6	162	18.2	138	97	48	0	0	2	2		
WY CASPER	84	50	91	46	67	3	1.2	-.1	1.2	1.8	196	9.4	144	90	27	1	0	2	0		
CHEYENNE	76	51	81	49	64	1	1.1	-.4	1.0	3.9	257	9.8	142	84	39	0	0	3	0		
LANDER	81	52	89	49	67	3	1.1	-.3	1.1	1.7	57	9.5	115	70	22	0	0	0	0		
SERRIDAN	77	49	89	42	63	1	1.1	-.4	1.1	1.9	52	9.9	113	91	44	0	0	2	0		

Based on 1951-80 normals

National Agricultural Summary

June 17 - 23, 1991

HIGHLIGHTS: Above-normal temperatures with periodic thundershowers benefited crop development and condition in the eastern half of the country, while cooler, mostly dry weather slowed crop growth in the West. Planting and harvest activities advanced rapidly as most parts of the country enjoyed 5 to 6 days of weather suitable for fieldwork.

SMALL GRAINS: Aided by warm temperatures and mostly clear weather, winter wheat harvest progressed rapidly. Progress was ahead of normal in all States except California. Harvest reached 49 percent (%) complete in the 19 major producing States, 20 percentage points ahead of last year and 14 points ahead of the 5-year average. The Kansas harvest advanced 55 points to 70% complete, and Illinois, Missouri, and Oklahoma each showed progress of 35 points or more. Harvest was over 90% complete in Arkansas, Georgia, North Carolina, and Oklahoma. California's harvest, at 40% complete, was 10 points behind last year and 19 points behind normal. Condition ratings for winter wheat remained poor to very poor in the Mississippi Valley with 88% of Arkansas' crop, 71% of Missouri's, and 66% of Illinois' crop rating less than fair. Spring wheat heading progress reached 41% in the five major producing States, 13 points ahead of last year and 10 points ahead of the average. Progress continued to be ahead of normal in Minnesota and the Dakota's but behind normal in Idaho and Montana. Spring wheat condition ratings were predominately good in all of the major producing States. Harvests of barley and oats were well along in the southern Atlantic Coast States, while heading was beginning in Montana.

CORN: With planting virtually complete in all major producing States, crop condition rated mostly good. Georgia, Kansas, Michigan, South Dakota, and Wisconsin reported 30% or more of the crop in excellent condition. Lack of rain in Pennsylvania resulted in 24% of the crop rating poor or very poor. Strong thunderstorms destroyed some fields in the Texas High Plains.

SOYBEANS: Planting was complete in Illinois, Nebraska, and Ohio and nearly complete throughout the Midwest. Progress lagged, however, in the southeastern part of the Nation. Planting was 91% complete in the 19 major producing States, 4 points ahead of last year and equal to the average. Progress in Louisiana, at 55% complete, was 30 points behind normal, and Tennessee planting was 16 points behind at 62% complete.

COTTON: Cotton planting was nearly complete nationwide, lagging just 1 point behind the average. Planting was 92% complete in Texas and Oklahoma, 99% complete in Arkansas and Mississippi, and finished elsewhere. Thirty percent of the acreage was showing squares, compared with 44% last year and 38% average. Crop condition rated mostly good in the Southwest and Southeast, but generally fair elsewhere. Over 20% of the acreage in Missouri and Oklahoma was reported in poor condition, as was 13% of the Tennessee acreage and 16% of the Texas acreage. Cotton growth was hampered by cool weather in California, but boll setting was

beginning in early southern fields. Cotton planting resumed in south-central Texas with replanting of washed out cotton. The first bale of 1991 cotton in the United States was harvested and classed in Texas' Rio Grande Valley the first week of June.

GRAIN SORGHUM: Planting neared completion in the 12 major producing States, with 93% of the crop planted. Progress continued to lag in the Delta but was near or ahead of normal elsewhere. Crop condition ratings were fair to poor in the Mississippi Valley but generally good in other parts of the country. Harvest of dryland sorghum started in Texas' Lower Valley.

RICE: Planting progress reached 92% complete in Mississippi and was virtually complete elsewhere. Eighty-six percent of the acreage had emerged in Mississippi, as had 96% of Louisiana's acreage. Twenty-five percent of the Texas acreage and 16% of Louisiana's had headed. Condition ratings were mostly good in California and Texas, fair to good in Arkansas, and mostly fair in the Delta. Blast, sheath blight, stinkbugs, and armyworm infestations increased in southwest Louisiana.

OTHER FIELD CROPS: The second cutting of alfalfa was in full swing in the Midwest, while the first cutting progressed in the Northwest. Peanut planting was 86% complete in Mississippi, 82% complete in Oklahoma, and finished in the other principal producing States. Dry bean planting was nearly complete in Idaho and past the midpoint in Michigan. Harvest of over-wintered sugarbeets was nearing completion in California. South Dakota's flax and sunflower crops rated good to excellent.

FRUIT AND NUTS: California cherry harvest was nearing completion, while apricot, peach, plum, nectarine, and table grape harvests remained active. Florida's fruit crops remained in very good condition with good size development. Florida Valencia orange harvest was slowing and grapefruit harvest was almost over. Georgia's peach crop was 65% harvested. Some cherry splitting was reported in Oregon, following recent rains in the northcentral part of the State. Cherry harvest was underway in the Washington's Yakima Valley, and rain caused some splitting there also.

VEGETABLES: Arizona melons, sweet corn, onions, spring lettuce, and cabbage were being harvested in the east. Broccoli and cauliflower remained in heavy supply in California, and celery supplies were moderate. Iceberg lettuce supply was light in California's Santa Maria area with variable quality. Onion harvest continued and fresh market tomato harvest began in the State. Florida volume leaders were watermelons, sweet

(Continued to p. 16)

CROP PROGRESS

FOR WEEK ENDING JUNE 23, 1991

SPRING WHEAT
% HEADED

	1991	1990	AVG.
ID	8	40	29
MN	57	32	42
MT	6	14	19
ND	39	22	26
SD	77	59	53

5 STATES 41 28 31

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

	1991	1990	AVG.
AR	91	86	79
CA	40	50	59
CO	0	0	0
GA	95	97	95
ID	0	0	0
IL	57	3	33
IN	30	7	11
KS	70	20	40
MI	0	0	0
MO	67	16	43
MT	0	0	0
NE	0	1	4
NC	93	88	63
OH	12	0	0
OK	91	82	72
OR	0	0	0
SD	0	0	0
TX	63	65	59
WV	0	0	0

18 STATES 49 29 35

THESE 18 STATES PRODUCED 91%
OF THE 1990 WINTER WHEAT CROP.SOYBEANS
% PLANTED

	1991	1990	AVG.
AL	73	90	83
AR	76	71	77
GA	81	87	84
IL	100	89	98
IN	99	93	94
IA	99	97	99
KS	95	85	85
KY	82	60	72
LA	55	90	85
MI	98	99	95
MN	95	100	100
MS	67	79	75
MO	86	55	82
NE	100	99	100
NC	85	85	76
OH	100	92	88
SC	82	86	80
SD	97	99	94
TN	62	72	78

19 STATES 91 87 91

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

	1991	1990	AVG.
AL	100	100	100
AZ	100	100	100
AR	99	100	100
CA	100	100	100
GA	100	100	100
LA	100	100	100
MS	99	100	100
MO	100	100	100
NM	100	100	100
NC	100	100	100
OK	92	95	82
SC	100	100	100
TN	100	100	100
TX	92	98	95

14 STATES 96 99 97

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

	1991	1990	AVG.
AL	55	64	60
AZ	70	91	92
AR	42	31	47
CA	40	60	62
GA	51	72	62
LA	40	82	58
MS	35	57	57
MO	32	30	39
NM	51	40	43
NC	45	35	30
OK	4	9	4
SC	57	30	38
TN	18	20	37
TX	18	34	21

14 STATES 30 44 38

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

	1991	1990	AVG.
AR	0	0	0
CA	0	0	0
LA	16	10	11
MS	0	0	0
TX	25	13	14

5 STATES 6 4 4

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

	1991	1990	AVG.
AR	100	96	99
CA	98	100	100
LA	96	100	100
MS	86	100	98
TX	100	100	100

5 STATES 98 98 99

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

	1991	1990	AVG.
AR	98	93	97
CO	86	93	92
IL	100	57	89
KS	90	90	85
LA	87	99	99
MS	86	100	100
MO	94	69	92
NE	100	100	100
NM	75	75	NA
OK	93	92	76
SD	90	85	86
TX	93	97	93

12 STATES 93 92 NA

EXCL. STATES WITH NA 93 92 91

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

NA - NOT AVAILABLE.

CROP CONDITION

PERCENT

FOR WEEK ENDING JUNE 23, 1991

SOYBEANS

STATE	VP	P	F	G	EX
AL	0	0	50	50	0
AR	0	9	30	61	0
GA	0	0	12	84	4
IL	0	0	23	70	7
IN	0	3	31	66	0
IA	0	3	26	60	11
KS	0	0	5	55	40
KY	0	3	25	63	9
LA	6	39	54	1	0
MI	0	5	15	50	30
MN	0	8	31	53	8
MS	0	0	7	93	0
MO	0	8	43	49	0
NE	0	0	13	80	7
NC	0	1	26	70	3
OH	2	6	28	51	13
SC	0	0	23	77	0
SD	0	0	16	51	33
TN	0	0	25	75	0
19 STATE	0	4	26	62	8
PREV WEEK	1	2	29	59	9
PREV YEAR	0	6	39	51	4

SPRING WHEAT

STATE	VP	P	F	G	EX
ID	0	0	27	56	17
MN	4	2	27	59	8
MT	0	2	17	48	33
ND	0	0	5	79	16
SD	0	0	3	61	36
5 STATE	1	1	11	67	20
PREV WEEK	0	2	12	68	18
PREV YEAR	1	2	20	56	21

WINTER WHEAT

STATE	VP	P	F	G	EX
AR	54	34	11	1	0
CA	0	0	10	85	5
CO	6	5	25	49	15
GA	20	27	33	20	0
ID	6	7	32	40	15
IL	37	29	29	5	0
IN	15	19	36	30	0
KS	0	3	48	41	8
MI	0	5	25	50	20
MO	33	38	23	6	0
MT	0	4	27	56	13
NE	0	4	54	42	0
NC	0	1	38	58	3
OH	1	7	28	52	12
OK	0	22	60	17	1
OR	4	6	26	51	13
SD	0	0	21	51	28
TX	4	23	48	25	0
WA	0	0	86	14	0
19 STATE	6	13	42	33	6
PREV WEEK	5	16	36	36	7
PREV YEAR	1	6	28	51	14

RICE

STATE	VP	P	F	G	EX
AR	0	5	40	49	6
CA	0	0	10	85	5
LA	0	3	64	33	0
MS	1	1	70	27	1
TX	0	0	15	72	13
5 STATE	0	3	40	52	5
PREV WEEK	2	4	37	55	2
PREV YEAR	0	1	28	65	6

COTTON

STATE	VP	P	F	G	EX
AL	0	1	38	61	0
AZ	0	0	9	73	18
AR	0	0	67	28	5
CA	0	0	10	85	5
GA	0	0	4	80	16
LA	3	2	19	76	0
MS	1	4	73	21	1
MO	0	30	30	40	0
NM	0	22	33	45	0
NC	0	0	13	74	13
OK	0	0	82	18	0
SC	0	0	19	81	0
TN	0	13	55	32	0
TX	0	16	47	35	2
14 STATE	0	9	43	45	3
PREV WEEK	1	5	47	45	2
PREV YEAR	1	6	30	59	4

SORGHUM

STATE	VP	P	F	G	EX
AR	0	9	62	29	0
CO	2	4	20	65	9
IL	0	0	16	83	1
KS	0	1	13	57	29
LA	0	38	62	0	0
MS	0	12	63	25	0
MO	0	7	52	41	0
NE	0	0	23	74	3
NM	0	0	30	70	0
OK	0	0	5	95	0
SD	0	1	6	71	22
TX	0	1	29	58	12
12 STATE	0	2	24	60	14
PREV WEEK	0	1	21	60	18
PREV YEAR	2	5	28	54	11

CORN

STATE	VP	P	F	G	EX
CO	0	2	16	63	19
GA	0	0	2	57	41
IL	0	0	12	69	19
IN	0	3	24	69	4
IA	0	3	23	52	22
KS	0	0	4	61	35
KY	0	0	18	67	15
MI	0	5	20	45	30
MN	0	4	28	56	12
MO	0	2	39	56	3
NE	0	0	9	77	14
NC	1	4	41	47	7
OH	1	5	25	54	15
PA	3	21	36	30	10
SD	0	3	12	45	40
TX	0	0	23	53	24
WI	0	1	7	60	32
17 STATE	0	2	19	60	19
PREV WEEK	0	2	20	61	17
PREV YEAR	1	5	30	57	7

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 less than 0.50 in. to over 4.00 in. local areas. Temperatures 1 to 2° of normal.

Days suitable for fieldwork 5.42. Soil moisture 27% short, 68% adequate, 5% surplus. Corn 67% silked, 78% 1990, 68% avg.; 24% fair, 65% good, 11% excellent. Sorghum 78% planted, 93% 1990, 85% avg.; 22% fair, 78% good. Cotton 100% planted, 100% 1990, 100% avg.; 55% squaring, 64% 1990, 60% avg.; 3% setting bolls, 8% 1990, 8% avg.; 1% poor, 38% fair, 61% good. Peanuts 19% pegging, 43% 1990, 27% avg.; 45% fair, 55% good. Soybeans 73% planted, 90% 1990, 83% avg.; 50% fair, 50% good. Winter wheat 87% harvested, 88% 1990, 79% avg.; 10% very poor, 54% poor, 26% fair, 10% good. First hay 87% harvested, 93% 1990, 87% avg. Pastures 7% fair, 70% good, 23% excellent. Livestock 2% fair, 76% good, 22% excellent.

ALASKA: Hot, mostly dry weather dominated. Highs 3 to 13° above normal. Lows 1 to 10° above normal. Seasonal precipitation 0.70 to 1.91 in. drier than normal. Homer continued 0.20 in. wetter than normal.

Days suitable for fieldwork 7.0. Topsoil 53% short, 47% adequate. Subsoil 38% short, 62% adequate. Small grain pre boot stage, heights averaged 7 in. Crop growth; 50% slow, 34% moderate, 16% rapid. First crop hay harvest 25% complete. Barley, small grains for silage, pastures, range fair to excellent depending on area, soil moisture. Commercial potato heights just emerging to 8 in.

ARIZONA: Warming trend 15th to 18th; temperatures peaked on 18th; temperatures 1 to 8° lower on 19th, another 1 to 6° lower 20th to 22nd; avg. temperatures 4° below normal to 3° above. Extremes 32°; 96° higher elevations, 60°; 110° desert; no rain.

Cotton squaring, further advanced 70%, 91% 1990, 92% avg.; setting bolls 8%, 58% 1990. Cotton 9% fair, 73% good, 18% excellent; weeds, insects light to moderate. Small grains harvested 76%, 95% 1990, 89% avg.; good to excellent. Alfalfa good statewide; harvest moderate to active. Honeydews, watermelons, cantaloupes, table grapes, sweet corn harvested west; potatoes, mixed vegetables, dry onions, watermelons, cantaloupes, grapefruit, table grapes, peaches, sweet corn harvested central. Spring lettuce, dry onions, cabbage harvested east.

ARKANSAS: Temperatures normal with scattered showers statewide, heaviest from west to east across central areas. Extremes 62°; 97°. Rainfall none to 4.39 in.

Days suitable for fieldwork 6. Soil moisture 24% short, 73% adequate, 3% surplus. Oats harvested 75%, 82% 1990, 78% avg. Corn planted 100%, 100% 1990, 100% avg. Disease problems in wheat remained light to medium. Pasture 12% fair, 85% good, 3% excellent. Livestock good.

CALIFORNIA: High pressure replaced by weak low pressure trough early in week, with small disturbance sliding thru north end of State

midweek to weekend. Cooled temperatures to or below normal. Rainfall on north coast, isolated northern mountain thundershowers.

Field activities progressed, open weather. Watergrass, weevil treatments winding down rice. Some seeding still underway. Growth slowed, cool mornings. Cotton growth hampered, cool weather. Early southern fields beginning boll set. Small grain harvest continued. Some fields baled. Planting field corn, dry beans progressed. Corn received herbicide applications. Safflower blooming. Over wintered sugar beet harvest nearing completion; new crop fields irrigated. Alfalfa, sudangrass harvests normal. Seed alfalfa treated mites, lygus. Central Valley citrus June drop, set light. Groves treated thrip, cutworm. Southern California valencia, grapefruit picked, 90% lemons picked. Old crop avocado harvested, new setting fruit. Dates dusted. Walnut crop heavy set. Irrigation, weed control almond, walnut, peach, prune orchards. Cherry harvest nearing completion. Apricot, peach, plum, nectarine, desert table grape, picking active. Broccoli heavy supply, generally good quality. Cauliflower heavy supply, variable quality. Celery moderate supply Santa Maria area, generally good quality. Iceberg lettuce supply light Santa Maria area, variable quality. Dry onion harvest active. Fresh market tomato harvest began, Hanford area. Tulelake area potato fields frost-protected with sprinklers. Strawberries fairly heavy supply, central coast, good quality. Sweet potato, tomato, melon planting nearing completion, Merced area. Pasture conditions excellent to good north, north coast. Conditions good to poor south, higher elevations best; lower elevations very dry. Water supplies adequate mid upper elevations. Some cattle movement summer pasture. Supplemental feeding light.

COLORADO: Weather over western areas was mostly dry during the week, severe weather was experienced in eastern areas during the same period. Tornados, funnel clouds eastern areas on the 17th to 18th. Stormy weather spread over the east on the 19th to 20th with 2.50 in. of rain in the Denver area, parts of eastern areas on the 21st.

Days suitable for fieldwork 5.7. Soil moisture 6% very short, 35% short, 55% adequate, 4% surplus. First cutting alfalfa 51% complete, 60% 1990, 70% avg. Sorghum 86% planted, 93% 1990, 92% avg; dry beans 90% planted, 97% 1990, 95% avg. Winter wheat 63% turning color; 6% very poor, 5% poor, 25% fair, 49% good, 15% excellent; corn 2% poor, 16% fair, 63% good, 19% excellent; barley 7% poor, 27% fair, 53% good, 13% excellent. Livestock mostly good. Pasture, range feed good to excellent.

FLORIDA: Hot, wet, 1.00 to 2.00 in. over most of State. Some areas in Panhandle, 7.00 in. Temperature mid 90s high, lows mid 70s. Temperature, 1 to 2° above normal.

Soil moisture adequate throughout State. Peanut, cotton planting complete. Soybean planting, tobacco, hay harvest active. Corn, cotton, peanuts making good progress. Sugarcane

making rapid growth. States pastures mostly good to excellent. Pasture 70% good, 30% excellent. States herds mostly good to excellent. Near excellent citrus grove, tree condition. Ideal growing conditions, abundant new growth. New crop fruit very good condition, good sizes for last of June. Valencia harvest slowing. Grapefruit harvest almost over. Caretakers cutting cover crops, growers spraying, fertilizing, pruning. Hot, wet weather all vegetable areas. Volume leaders: Watermelons, sweet corn, tomatoes, potatoes. Lesser volume: peppers, cucumbers, eggplant, celery, squash. Season complete Hastings potatoes. Palmetto Ruskin commercial tomato harvest over.

GEORGIA: Thunderstorms numerous northern areas, many areas 2.00 to 5.00 in. Local totals 2.00 to 4.00 in. extreme southern areas. Heaviest rain total 5.84 in. Atlanta Airport. Some areas less than 0.50 in. for week, particularly Central areas. Temperatures 1 to 3° above. Hottest temperatures mid to upper 80s Mountains, mid 90s south. Coolest temperatures low 60s Mountains, low 70s southeast.

Days suitable for fieldwork 4.5. Soil moisture 1% very short, 20% short, 60% adequate, 19% surplus. Corn 94% silked, 88% 1990, 85% avg.; 63% dough, 56% 1990, 46% avg.; 22% dent, 20% 1990, 13% avg.; rains timely, prospects continue good. Cotton 7% setting bolls, 12% 1990, 10% avg. Sorghum 8% fair, 85% good, 7% excellent; 92% planted, 93% 1990, 90% avg. Peanuts 7% fair, 87% good, 6% excellent; 72% blooming, 88% 1990, 73% avg.; 35% pegging, 43% 1990, 31% avg.; rainfall spotty, helpful. Soybeans 5% blooming, 3% 1990, 3% avg. Tobacco 66% fair, 34% good; 13% harvested, 9% 1990, 6% avg. Watermelons 34% poor, 33% fair, 32% good, 1% excellent; nearly one quarter harvested, ahead of avg. Apples 7% fair, 93% good. Peaches 3% very poor, 12% poor, 15% fair, 69% good, 1% excellent; 65% harvested, 70% 1990, 62% avg. Hay 2% poor, 21% fair, 67% good, 10% excellent; baling slowed by showers. Pasture 7% fair, 81% good, 12% excellent. Cattle 2% fair, 87% good, 11% excellent. Hogs 1% fair, 87% good, 12% excellent.

HAWAII: Typical, summer trade wind weather. Mostly sunny, some passing showers, windward, mountain areas. High pressure axis northeast of Islands brought light to moderate winds 5 to 20 mph. Temperatures low 60s to high 80s. Rainfall none to 2.20 in.

Days suitable for fieldwork 7.0. Irrigation necessary in many crop areas. Spray programs to control insect populations active. Sugar, pineapple harvesting normal. Watermelon production heavy.

IDAHO: Temperatures below normal in north, southwest, east. Entire State received precipitation except for selected areas in south central, east.

Days suitable for fieldwork 6. Soil moisture 2% very short, 20% short, 68% adequate, 10% surplus. Winter wheat 1% not yet jointed, 15% jointed, 54% boot stage, 30% headed. Spring wheat 26% not yet jointed, 41% jointed, 25% boot stage, 8% headed. Sugarbeets thinned 98%, 98% 1990, 95% avg. Dry beans 97% planted, 98% 1990, 96% avg; 89% emerged, 79% 1990, 91% avg. Alfalfa hay 57% harvested, 51% 1990, 64% avg. Irrigation water fair to good. Apple crop development normal. Mint poor to good. Livestock good to excellent. Pasture, range 92% of normal.

ILLINOIS: Temperatures 1 to 4° above normal across most of the State, while the southern area 1 to 2° warmer than normal. Precipitation varied 0.11 to 1.31 in. across State.

Days suitable for fieldwork 6.50. Soil moisture 73% short, 27% adequate. Corn avg. height 44 in., most advanced 64 in. Winter wheat turning yellow 99%, 89% 1990, 96% avg. winter wheat ripe 96%, 35% 1990, 66% avg. Oats 1% poor, 38% fair, 60% good, 1% excellent. Oats headed 94%, 73% 1990, 92% avg., filled 79%, 37% 1990, 63% avg., turning yellow 39%, 4% 1990, 22% avg. ripe 10%, 6% avg. Pasture condition as a % of normal, where 100% = normal, was 85%. Alfalfa second cutting 26%, 8% 1990, 20% avg. Alfalfa 1% poor, 19% fair, 67% good, 13% excellent. Red clover cut 87%, 58% 1990, 77% avg.

INDIANA: Temperatures 1 to 5° above normal. Lows 60s, highs mid to upper 80s. Precipitation none to 2.00 in.

Days suitable for fieldwork 6.3. Topsoil 79% short, 21% adequate. Subsoil 37% short, 63% adequate. Corn 41 in. high, 16 in. 1990, 28 in. avg. Soybeans 96% emerged, 85% 1990, 91% avg.; 11 in. high, 4 in. 1990, 7 in. avg. Wheat ripe 75%, 26% 1990, 40% avg. Oats headed 99%, 66% 1990, 79% avg. Virtually all tobacco plants set, 49% 1990, 78% avg. Alfalfa hay 1st cutting 98%, 88% 1990, 88% avg. Pasture 84% of normal. Wheat fields maturing rapidly.

IOWA: Temperatures 0 to 2° above normal. Extremes 54°; 91°. Precipitation none to 3.53 in.; average 0.36 in.

Days suitable for fieldwork 5.6. Topsoil 8% short, 72% adequate, 20% surplus. Subsoil 3% short, 56% adequate, 41% surplus. Winter wheat mostly good. Hay 4% poor, 15% fair, 60% good, 21% excellent. Pasture 95% of normal. Oats 90% headed, 79% 1990, 88% avg.; 5% poor, 31% fair, 55% good, 9% excellent. Corn 26 in. average height Tallest Corn 46 in.; 99% emerged, 100% 1990, 100% avg.; 72% cultivated first time, 36% 1990, 81% avg. Soybeans 90% emerged, 93% 1990, 99% avg.; 35% cultivated first time, 11% 1990, 54% avg. First cutting alfalfa 90% harvested, 60% 1990, 88% avg. First cutting clover hay 60% harvested, 23% 1990, 62% avg. Livestock good.

KANSAS: Temperatures 3° above normal across State. Rainfall all areas; 0.11 in. central to 0.77 in. northeast.

Days suitable for fieldwork 6.0. Surface moisture 43% short, 57% adequate. Subsurface moisture 41% short, 59% adequate. Wheat harvest progressed rapidly with favorable weather. Corn making good progress; 96% good to excellent. Corn borers, spider mites. Sorghum planting 90% complete. Soybean planting 95% complete. Sorghum, soybeans mostly good to excellent. Range, pasture good; forage, water generally adequate. Second cutting of alfalfa approximately 30% complete.

KENTUCKY: Very warm conditions with summer showers. Daytime highs upper 80s, lows upper 60s, both 3° above normal. Rain highly variable, mostly 1.00 to 2.00 in.

Days suitable fieldwork 4.8. Soil moisture 6% very short, 33% short, 52% adequate, 9% excellent. Corn growing, developing rapidly, 11% tasseled or tasseling. Tobacco 1% poor, 39% fair, 56% good, 4% excellent; height 52% under 12 in., 38% 12 to 24 in., 10% over 24 in. Tobacco diseases prevalent, especially Black Shank. Soybean planting active, double crop planting earlier than usual. Wheat harvest 72% complete, 25% 1990, 42% avg. Yields reduced sharply by diseases, some total failure. Pastures good to excellent, beginning to show decline.

LOUISIANA: Temperatures 0.6° below normal to 0.8° above normal. Extremes 66°; 95°. Rainfall 0.17 in., northwest, to 2.72 in., south central.

Days suitable for fieldwork 3.8. Soil moisture 9% short, 56% adequate, 35% surplus. Spring plowing 90%, 97% 1990, 99% avg. Corn 25% poor, 58% fair, 17% good; 95% silked, 96% 1990, 81% avg.; 53% dough stage, 42% 1990, 35% avg. Cotton 98% emerged, 100% 1990, 100% avg. Light weevil, worm infestations, northeast. Hay 54% first cutting, 87% 1990, 80% avg. Peaches 53% fair, 74% good; 34% harvested, 47% 1990, 39% avg. Blast, sheath blight, stinkbugs, armyworm infestations in rice increased, southwest. Sorghum 79% emerged, 97% 1990, 96% avg.; 23% headed, 11% 1990, 12% avg. Soybeans 44% emerged, 87% 1990, 76% avg. Sweet potatoes 24% poor, 65% fair, 11% good; 74% planted, 81% 1990, 83% avg. Sugarcane 3% poor, 58% fair, 39% good. Wheat 95% harvested, 96% 1990, 94% avg. Vegetables 7% very poor, 30% poor, 38% fair, 25% good. Pastures 7% very poor, 7% poor, 14% fair, 29% good, 43% excellent. Livestock 28% fair, 67% good, 5% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.925 in. Temperature 77.3°, normal 72.3°. Extremes 52°; 100°.

Days suitable for fieldwork 4.3. Topsoil 10% very short, 25% short, 55% adequate, 10% surplus. Subsoil 5% very short, 40% short, 55% adequate. Small grains fair to good. Winter wheat 49% harvested, 6% 1990, 11% avg. Barley 95% harvested, 60% 1990, 61% avg. Rye 47% harvested, 30% 1990, 28% avg. Oats 94% headed, 74% 1990, 73% avg.; 61% turning, 18% 1990, 25% avg. Soybeans 79% planted, 74% 1990, 70% avg. Tobacco 95% transplanted, 92% 1990, 87% avg. Sweet corn 90% planted, 96% 1990, 95% avg. Snap beans 86% planted, 89% 1990, 90% avg.; 20% harvested, 11% 1990, 4% avg. Green peas 90% harvested, 80% 1990, 86% avg. Other hay second cut 12% complete, 2% 1990, 5% avg. Alfalfa hay second cut 43% complete, 23% 1990, 24% avg. Hay supplies adequate. Pasture very poor. Peaches, apples good, above average fruit set.

DELAWARE: Precipitation 1.579 in. Temperature 76.8°, normal 72.8°. Extremes 58°; 99°.

Days suitable for fieldwork 5. Topsoil 100% adequate. Subsoil 20% short, 80% adequate. Small grains fair. Barley 93% harvested, 80% 1990, 68% avg. Soybeans 77% planted, 90% 1990, 78% avg. Sweet corn 90% planted, 100% 1990, 99% avg. Cucumbers 72% planted, 94% 1990, 98% avg. Lima beans 70% planted, 88% 1990, 79% avg. Snap beans 85% planted, 99% 1990, 92% avg. Green peas 70% harvested, 75% 1990, 64% avg. Alfalfa second cutting 57% complete, 17% 1990, 37% avg. Hay supplies adequate. Pasture poor to fair. Peaches, apples good, above average fruit set.

MICHIGAN: Temperatures -2 to 5° above normal. Extremes 41°; 93°. Precipitation none to 1.48 in. across State.

Days suitable for fieldwork 6. Soil moisture 42% short, 55% adequate, 3% surplus. Corn 5% poor, 20% fair, 45% good, 30% excellent. Soybeans 98% planted, 99% 1990, 95% avg.; 5% poor, 15% fair, 50% good, 30% excellent. Winter wheat 35% turning, 5% 1990, 20% avg.; 0% harvested, 0% 1990, 0% avg.; 5% fair, 25% good, 50% excellent.

MINNESOTA: Temperatures 1.5° below normal to 2.7° above normal. Extremes 37°; 91°. Precipitation 0.17 to 2.09 in. Greatest weekly total 3.21.

Days suitable for fieldwork 4.1. Topsoil 1% very short, 7% short, 57% adequate, 35% surplus.

Spring wheat 3% not jointing, 23% 1990, 18% avg.; 97% jointing, 77% 1990, 82% avg.; 57% heading, 32% 1990, 42% avg. Oats 5% not jointing, 15% 1990, 10% avg.; 95% jointing, 85% 1990, 90% avg.; 55% heading, 46% 1990, 60% avg. Barley 2% not jointing, 36% 1990, 20% avg.; 98% jointing, 64% 1990, 80% avg.; 70% heading, 33% 1990, 44% avg. Field corn 53% cultivated once, 52% 1990, 79% avg.; 20 in. height, 12 in. 1990, 21 in. avg. Soybeans 95% acreage planted, 100% 1990, 100% avg.; 83% emerged, 93% 1990, 96% avg.; 33% cultivated once, 31% 1990, 58% avg.; 6 in. height, 5 in. 1990, 7 in. avg. Sweet corn 92% planted, 89% 1990, 97% avg. Green peas 98% planted, 100% 1990, 100% avg. Alfalfa Hay 81% cut, 43% 1990, 80% avg. Field corn 4% poor, 28% fair, 56% good, 12% excellent. Soybeans 8% poor, 31% fair, 53% good, 8% excellent. Spring wheat 4% very poor, 2% poor, 27% fair, 59% good, 8% excellent. Barley 3% poor, 1% very poor, 27% fair, 58% good, 11% excellent. Oats 4% very poor, 4% poor, 30% fair, 55% good, 7% excellent.

MISSISSIPPI: Temperature 80°, .8° above normal. Extreme 61°; 95°. Rainfall 1.31 in., 0.48 in. above normal. Soil temperature 86°. Heavy rainfall in the northern, southern regions of the State. Rest of the State received above average rainfall as well.

Days suitable for fieldwork 5.1, 5.7 1990, 4.2 avg. Soil 23% short, 68% adequate, 6% surplus, 3% excessive. Corn 99% planted, 100% 1990, 100% avg.; 94% emerged, 100% 1990, 100% avg.; silking 35%, 41% 1990, 44% avg.; 7% very poor, 19% poor, 41% fair, 32% good, 1% excellent. Cotton 99% planted, 100% 1990, 100% avg.; 96% emerged, 100% 1990, 99% avg.; 35% squaring, 57% 1990, 57% avg.; 1% very poor, 4% poor, 73% fair, 21% good, 1% excellent. Peanuts 86% planted, 91% 1990, 97% avg. Rice 92% planted, 100% 1990, 100% avg.; 86% emerged, 100% 1990, 98% avg.; 1% very poor, 1% poor, 70% fair, 27% good, 1% excellent. Sorghum 86% planted, 100% 1990, 97% avg.; 81% emerged, 100% 1990, 95% avg.; 12% poor, 63% fair, 25% good. Soybeans 67% planted, 79% 1990, 75% avg.; 49% emerged, 68% 1990, 63% avg.; 7% fair, 93% good. Sweetpotatoes 85% planted, 92% 1990, 90% avg. Watermelons 100% planted, 100% 1990, 98% avg. Wheat 100% mature, 100% 1990, 99% avg.; harvested 86%, 87% 1990, 81% avg.; 16% very poor, 83% poor, 1% good. Hay harvested 41%, 46% 1990, 39% avg. Peaches harvested 33%; 52% 1990, 36% 5 yr avg.; 14% very poor, 14% poor, 34% fair, 37% good, 1% excellent. Pecans 14% very poor, 27% poor, 16% fair, 43% good. Livestock 7% fair, 73% good, 20% excellent. Pasture 91% of normal.

MISSOURI: Temperatures 1° above normal. Rainfall 0.70 in., over 1.00 in. northwest, south central, southeastern districts, 0.50 in. or less other districts.

Days suitable for fieldwork 6.1. Topsoil 39% short, 59% adequate, 2% surplus. Double crop soybean planting 53%, 20% 1990, 34% avg., following early wheat harvest. Single crop soybean planting least advanced southeastern district, 82%. Wheat harvesting ranges 36% northwest to 92% southeast, yields, quality poor. Oat harvest 16%, 0% 1990, 13% avg. Alfalfa hay first cutting 95%, 75% 1990, 94% avg. Second cutting alfalfa 23%, 11% 1990, 28% avg. Other hay cut 70%, 42% 1990, 64% avg. Pasture 8% poor, 34% fair, 50% good, 8% excellent.

MONTANA: Temperatures normal to 6° below. Precipitation above normal except southwest, near 1.00 in. common.

Days suitable for fieldwork 4.8. Topsoil 11% short 82% adequate, 7% surplus. Subsoil 23% short, 75%

adequate, 2% surplus. Winter wheat headed 62%, 68% 1990, 69% avg. Barley headed 8%, 13% 1990, 18% avg.; 3% poor, 18% fair, 49% good 30% excellent. Oats headed 8%, 11% 1990, 23% avg.; 2% poor, 17% fair, 52% good 29% excellent. Sugarbeets 4% very poor, 3% poor, 9% fair, 56% good, 28% excellent. First cutting alfalfa 22%, 15% 1990, 33% avg. Other hay cut 10%, 11% 1990, 17% avg. Pasture, range feed 93%. Cattle moved to summer pastures 91%. Sheep, lambs moved 91%.

NEBRASKA: Temperatures near normals. Rainfall 0.25 in. northeast up to 2.11 in east. Days suitable for fieldwork 5.7. Topsoil 24% short, 62% adequate, 14% surplus. Subsoil 2% short, 80% adequate, 8% surplus. Wheat 4% poor, 54% fair, 42% good; 80% turning color, 69% 1990, 79% avg.; 14% ripe, 8% 1990, 23% avg.; limited harvest has begun in southeast, south central districts. Corn 9% fair, 77% good, 14% excellent. Soybean 13% fair, 80% good, 7% excellent. Alfalfa 1% poor, 19% fair, 62% good, 18% excellent.; 92% first cutting, 91% 1990, 94% avg. Pasture, range 97% normal.

NEVADA: Low pressure pattern brought strong southwest air flow over State producing gusty afternoon winds. Temperatures near normal. Extremes 26°; 110°. Precipitation limited to few showers far north.

Crop progress northern half State 10 days to two weeks behind normal. First cuttings alfalfa hay about 50% complete northern areas, second cuttings about complete extreme south. Potato acreage mostly all emerged despite earlier low nighttime temperatures, frosts. Livestock generally good.

NEW ENGLAND: Precipitation 0.10 to 1.95 in. south; none to 1.50 in. north. Temperatures low to high 60s north, mid 60s to low 70s south; 2° below to 4° above normal. Maximum temperatures mid 80s to low 90s; minimum temperatures high 30s to low 60s.

Days suitable for fieldwork 5.9. Soil moisture 7% very short, 34% short, 55% adequate, 4% surplus. Grazing availability 5% very short, 15% short, 76% adequate, 4% surplus. Fieldwork 5.8 days ahead of schedule. Maine potatoes 93% emerged, 91% 1990, 94% avg. Maine, Rhode Island, Connecticut Valley potatoes good. Maine oats good to excellent. Field corn 100% planted, 97% 1990, 96% avg.; 96% emerged, 87% 1990, 90% avg.; good. Sweet corn 96% planted, 91% 1990, 92% avg.; 89% emerged, 81% 1990, 86% avg.; good. First cut hay 75% complete, 55% 1990, 60% avg.; good. Second cut hay underway. Connecticut Valley outdoor tobacco 98% transplanted. Apples fruit set average, scab light. Peaches, pears average to heavy fruit set. Cranberries 50% out of bloom. Strawberry harvest continues.

NEW JERSEY: Temperatures near normal. Extremes 46°; 95°. Rainfall 1.65 in. north, 1.22 in. central, 1.23 in. south. Heaviest 24 hour total 2.46 in. on 17th, 18th. Estimated soil moisture percent field capacity, 73% north, 62% central, 42% south. Four inch soil temperature averaged 73° north, 71° central, 72° south.

Rain very beneficial. Some growers irrigating. Summer vegetable harvest continued to increase. Strawberry harvest complete. Blueberry picking active. Some barley combining continued. Wheat harvest increased. Some field corn, soybean stands uneven, weedy. Rain came just in time for many fields. Soybean planting continued when conditions permitted. Hay baling early. Crop cultivating, spraying, fertilizing active.

NEW MEXICO: Warm temperatures prevailed across State, especially over southeastern plains, central valleys 4 to 9° above normal. Afternoon highs in the low 100s were common across the southeast. Precipitation totals of just under an inch were centered across the far northeastern plains, eastern half of the northern mountains, spotted showers across the southeastern plains.

Days suitable for fieldwork 6.3. Soil moisture 70% short, 30% adequate. Crop conditions: Alfalfa, 4% poor, 35% fair, 61% good. Corn 31% fair, 69% good. Irrigated wheat 6% very poor, 6% poor, 31% fair, 57% good., Dryland wheat 40% very poor, 20% poor, 20% fair, 20% good. Pecans 40% fair, 60% good. Chile 64% fair, 36% good. Onions good. Cattle, sheep poor to good. Range 68% of normal, low of 30, high of 110.

NEW YORK: Cold front moved through early, kept temperatures cool throughout. Extremes 36°; 96°. Rainfall limited to thunderstorms at the beginning, weekend. Some areas received none.

Days suitable for fieldwork 6.7. Soil moisture mostly short to adequate. Rain needed. Pasture condition 73% of normal. Hay, wheat fair to good. Corn planting virtually finished. Alfalfa first cutting 81% finished, 45% 1990, 51% avg. Potatoes blooming. Wheat maturing rapidly. McIntosh apple harvest expected 7 to 10 days ahead of last year in the Lake Ontario region. Hand thinning underway. Harvest started on early varieties of sweet cherries. Vegetable planting continued. Strawberry harvest peaked. Harvesting of early season crops gained momentum.

NORTH CAROLINA: Temperatures above normal across State. Extremes 53°; 96°. Precipitation 0.35 to 7.22 in.

Days suitable for fieldwork 4.1. Soil moisture 3% very short, 23% short, 58% adequate, 16% surplus. Crop condition: Tobacco 1% very poor, 19% fair, 76% good, 4% excellent; corn 1% very poor, 4% poor, 41% fair, 47% good, 7% excellent; cotton 13% fair, 74% good, 13% excellent; peanuts 3% very poor, 23% fair, 72% good, 2% excellent; soybeans 1% poor, 26% fair, 70% good, 3% excellent; hay 1% poor, 29% fair, 68% good, 2% excellent; irish potatoes 3% poor, 32% fair, 62% good, 3% excellent; sweet potatoes 24% fair, 72% good, 4% excellent; apples 7% poor, 17% fair, 76% good; peaches 15% fair, 70% good, 15% excellent; truck crops 32% fair, 66% good, 2% excellent; pasture 4% poor, 38% fair, 54% good, 4% excellent. Soybeans planted 85%; sweet potatoes transplanted 94%; wheat harvested 93%; oats harvested 92%; barley harvested 92%; rye harvested 90%; peaches harvested 33%; irish potatoes harvested 60%. Cotton squared 45%. Corn silked 46%.

NORTH DAKOTA: Temperatures normal west central, southwest to 3° above normal northeast, east central, southeast. Extremes 38° west central; 91° southeast. Precipitation 0.50 in. north central to 1.95 in. southeast.

Days suitable for fieldwork 4.7. Soil moisture above 1990 and avg. Topsoil 6% short, 92% adequate, 2% surplus. Subsoil 2% very short, 50% short, 48% adequate. Crop condition mostly good to excellent. Spring wheat 38% heading and beyond, 22% 1990, 26% avg.; durum wheat 16% heading and beyond, 8% 1990, 14% avg.; oats 26% heading and beyond, 24% 1990, 27% avg.; barley 48% heading and beyond, 26% 1990, 33% avg.; winter wheat 44% milk and beyond, 24% 1990, 39% avg. Corn 20 in. avg. height, 8 in. 1990, 12 in. avg.; sunflower 9 in. avg. height, 6 in. 1990, 7 in. avg. Flax 7% bloom, 1% 1990, 2% avg.; 7 in. avg. height, 5 in. 1990, 5 in. avg. Potatoes 12%

bloom, none 1990, 4% avg.; 11 in. avg. height, 7 in. 1990, 8 in. avg. Soybeans 1% bloom, none 1990, none avg.; 9 in. avg. height, 6 in. 1990, 7 in. avg. Dry edible beans 3% bloom, 0% 1990, 0%; 8 in. avg. height, 5 in. 1990, 6 in. avg. Sugarbeets 8 in. avg. height. Post emerged herbicide spraying for broadleaf weeds 90% complete, wild oats 97%. Pasture 82% of normal, furnished 99% roughage requirements. Alfalfa hay first cutting 35% complete, other hay 18%. Stockwater 6% very short, 28% short, 65% adequate, 1% surplus.

OHIO: Temperatures generally above normal. Very little precipitation, falling mostly as scattered thundershowers.

Days suitable for fieldwork 6.3. Soil moisture 65% short, 34% adequate, 1% surplus. Corn is heat stressed, leaves are curling. Condition good, deteriorating. Corn development averaged 10 leaves fully emerged. Wheat being harvested. All wheat has colored. Wheat is about two weeks ahead of schedule. All first cuttings of hay are completed. Second cuttings are well underway. Pasture 4% very poor, 8% poor, 35% fair, 46% good, 7% excellent. Hay 1% very poor, 7% poor, 35% fair, 47% good, 10% excellent. Oats 1% very poor, 8% poor, 29% fair, 53% good, 9% excellent. Strawberries are 99% harvested compared with 58% in 1990 and the five year average of 50%. Oats headed 96%, 72% 1990, 70% avg. Soybeans 22% blooming. Potatoes blooming.

OKLAHOMA: Temperatures 1 above normal Panhandle to 5 above normal northeast. Precipitation none west central to 1.90 in. south central.

Days suitable for fieldwork 6.2. Topsoil 20% short, 67% adequate, 13% surplus. Subsoil 25% short, 75% adequate. Wheat 91% harvested, 82% 1990, 72% avg.; 43% ground plowed, 35% 1990, 20% avg. Rains lowered test weights, contributed to weed growth. Cotton 92% planted, 95% 1990, 82% avg.; 78% up to stand, 84% 1990, 66% avg.; 4% squaring, 9% 1990, 4% avg. Sorghum 93% planted, 92% 1990, 76% avg.; 89% emerged, 82% 1990, 51% avg. 1% headed, none 1990, 1% avg. Soybeans 87% planted, 75% 1990, 76% avg. Peanuts 82% planted, 86% 1990, 84% avg. Corn 11% tasseling, 9% 1990, 17% avg. Pasture 97%. Grasshopper infestations plagued many areas. Cattle good; marketings average, prices mixed from preceding week.

OREGON: Unseasonably cold, wet statewide; few degrees below normal, coast; 5° below, Willamette Valley; 5 to 10° below normal, Cascades; greatest departure -14°, Klamath Falls; frost higher valleys, east of Cascades. Rainfall all areas 0.25 to 1.00 in., east of Cascades; 1.87 in., Portland airport; precipitation greatest, northern Willamette Valley.

Soil moisture 39% short, 59% adequate, 2% surplus. Rain damage hay; cool temperatures delayed crop progress, Willamette Valley. Rains aided soil conditions; warmer weather, more moisture needed, eastern counties. Strawberry harvest continued, cool, wet weather delayed season, limited size, number in most fields; early blueberries ready to harvest, Willamette Valley. Some cherry splitting reported, most areas. Damaged not too bad so far, Hood River, The Dalles. Briner varieties starting to pick, fresh pack harvest mostly start at weekend. Bees active on 21st in cranberry bogs, south coast. Early fruit set showing, McFarlin variety. Sweet corn, snap beans planting

continues. Onions planted. Potatoes making good progress, Morrow, Umatilla County. Potatoes coming up, slow in emerging, Klamath County. Livestock good to excellent. Pasture, range improving, later than normal, water shortages. Cattle movement from California completed, Klamath County. Range, pasture 2% fair, 63% good, 35% excellent.

PENNSYLVANIA: Above normal temperatures, below normal rainfall. Temperature 74°, 8° above normal. Extremes 49°; 100°. Precipitation 0.25 in., 0.65 in. below normal.

Days suitable for fieldwork 6. Soil moisture 98% short, 2% adequate. Corn 100% planted, 95% 1990, 96% avg.; height 19 in., 10 in. 1990, 13 in. avg.; 3% very poor, 21% poor, 36% fair, 30% good, 10% excellent. Tobacco 98% transplanted, 81% 1990, 80% avg. Soybeans 94% planted, 84% 1990, 81% avg.; 4% very poor, 21% poor, 44% fair, 26% good, 5% excellent. Barley 0% boot, 0% 1990; 13% heading or headed, 35% 1990; 21% turning yellow, 48% 1990; 16% ripe, 14% 1990; 50% harvested, 3% 1990. Wheat 0% boot, 0% 1990; 20% heading or headed, 71% 1990; 58% turning yellow, 29% 1990; 19% ripe, 0% 1990; 3% harvested, 0% 1990; 1% very poor, 7% poor, 26% fair, 50% good, 16% excellent. Oats 0% boot, 0% 1990; 88% heading or headed, 98% 1990; 10% turning yellow, 2% 1990; 2% ripe, 0% 1990; 5% very poor, 17% poor, 32% fair, 36% good, 10% excellent. Alfalfa first cutting 96% complete, 70% 1990. Second cutting alfalfa 18% complete, 4% 1990. First cutting clover timothy 88% complete, 48% 1990. Feed from pastures 35% very poor, 53% poor, 12% fair, 0% good. Peach 25% below avg., 70% avg., 5% above avg. Apple 8% below avg., 84% avg., 8% above avg.

PUERTO RICO: Data Not Available.

SOUTH CAROLINA: Temperatures 1 to 2° above normal. Extremes 62°; 97°. Rainfall 0.22 in. south to 5.99 in. central section.

Days suitable for fieldwork 4.9. Soil moisture 32% short, 66% adequate 27% surplus. Cotton 19% fair, 31% good; 57% squaring, 30% 1990, 38% avg. Sweet potatoes good; 89% planted, 93% 1990, 81% avg. Watermelons fair to good; 32% harvested, 18% 1990, 13% avg. Cantaloupes fair to good; 35% harvested, 20% 1990, 14% avg. Peaches good; 25% harvested, 34% 1990, 28% avg. Cucumbers fair to good; 63% harvested. Snap beans fair to good; 87% planted, 98% 1990, 98% avg.; 33% harvested. Sorghum good; 72% planted, 82% 1990, 72% avg. Soybeans 23% fair, 77% good; 82% planted, 86% 1990, 80% avg. Barley fair to good; 95% ripe, 95% 1990, 93% avg.; 86% harvested, 85% 1990, 73% avg. Oats fair to good; 97% ripe, 100% 1990, 97% avg.; 92% harvested, 95% 1990, 80% avg. Rye fair to good; 95% ripe, 93% 1990, 93% avg.; 79% harvested, 75% 1990, 74% avg. Wheat fair; 93% harvested, 91% 1990, 82% avg. Tobacco fair to good; 47% topped, 52% 1990, 28% avg. Corn fair to good; 79% silked, 62% 1990, 47% avg.; 30% dough stage, 16% 1990, 7% avg. Tomatoes good; 45% harvested, 32% 1990, 28% avg. Grain hay good; 90% harvested, 96% 1990, 95% avg. Pastures fair to good.

SOUTH DAKOTA: Combination of moist unstable air, a cold front brought above normal rain to northeast. Largest amount 6.38 in. Northeast received 2.00 to 4.00 in. Southeast received 1.00 to 2.00 in., other areas less than 1.00 in. Northwest received near 1.00 in., remains below normal for year. For year most of State over 2.00 in. above normal precipitation. Extremes 3.00 to 10.11 in. Temperatures near normal. Extremes 42°; 95°.

Days suitable for fieldwork 4.7. Rye 9% fair, 43% good, 48% excellent. Oats 10% fair, 55% good, 35% excellent. Barley 2% poor, 9% fair, 57% good, 32% excellent. Flax 2% poor, 11% fair, 56% good, 31% excellent. Sunflowers 18% fair, 57% good, 25% excellent. Livestock 2% fair, 54% good, 44% excellent. Pasture 101%. High moisture causing lodging, many diseases in small grains. Heavy rains, flooding, hail have hurt many fields.

TENNESSEE: Temperatures 6° above normal west, 3° below normal Plateau. Precipitation totals variable. Middle, Plateau averaged below normal; east, west above normal.

Days suitable for fieldwork 4.8. Soil moisture 14% short, 74% adequate, 12% surplus. Corn 14% tasseling, 8% 1990, 19% avg.; 5% poor, 34% fair, 59% good, 2% excellent. Cotton 18% squaring, 20% 1990, 37% avg.; 13% poor, 55% fair, 32% good. Sorghum 80% planted, 96% 1990, 95% avg.; 2% very poor, 36% fair, 62% good. Soybeans 62% planted, 72% 1990, 78% avg. Tobacco 98% transplanted, 98% 1990, 96% avg.; 27% fair, 72% good, 1% excellent. Wheat 92% ripe, 90% 1990, 91% avg.; 64% harvested, 58% 1990, 59% avg.; 33% very poor, 19% poor, 27% fair, 21% good. Alfalfa 30% 2nd cutting, 44% 1990, 45% avg.; hay 3% poor, 10% fair, 74% good, 13% excellent. Pastures 6% fair, 62% good, 32% excellent. Cattle 3% fair, 83% good, 14% excellent. Scattered showers delayed planting, wheat harvest.

TEXAS: Rich supply atmospheric moisture plus daily heating, number of weak weather features triggered thunderstorms across State. Thunderstorms almost daily occurrence on the High Plains. Thunderstorms broke out central, East Texas 22nd, produced totals 2.00 to 3.00 in. several locations. All sections of State recorded rainfall, amounts above normal only for the High Plains, Cross Timbers, southern East Texas. Temperatures were within 2° of normal statewide.

Crops: Small grain crops in Plains, except dryland wheat, benefitted from recent rains. Wheat harvest made good progress in High Plains as weather permitted. In Cross Timbers, Blacklands, harvest of wheat, oats winding down with producers moderate yields. Statewide wheat 57% of normal compared with 76% 1990. Corn fields developing well. Strong thunderstorms destroyed some fields in the High Plains. In Blacklands, corn developing well with good growth. Corn 88% of normal compared with 72% 1990. Sorghum planting on High Plains was very active. Headworms, yellow sugarcane aphids causing problems in some Blacklands fields. Central Texas, sorghum fields were starting to head. Harvest of dryland sorghum in Valley started early last week. Statewide sorghum 83% of normal compared with 70% 1990. High, Low Plains cotton producers continued to battle disease, weather damage. Cotton planting resumed in Hill Country with replanting of washed out cotton. Cotton in Coastal Bend, Central Texas looks good, cotton in Central Texas is blooming. Producers in Upper Coast were spraying for worms. First bale of 1991 cotton in United States was harvested, classed in Rio Grande Valley first week of June. Cotton 66% of normal compared with 75% 1990. Rice conditions continued to improve. Rice 88% of normal compared with 89% 1990. Soybean fields continued to make good progress. East Texas producers report good stalk growth. Excessive rainfall delayed peanut planting in Hill Country. Fields in Cross Timbers, Blacklands

remained too wet for planting to resume, existing stands continued good growth.

Commercial Vegetables: In Rio Grande Valley, onions continued in good shape. Land preparation for fall planting was underway. In the San Antonio Winter Garden, onion harvest continued in full swing as well as tomato, beet harvest. Excessive heat has slowed down vegetable production. East Texas, tomatoes continued to ripen, some plants are dying. Most vegetables are near harvest, insect, disease problems continue. High Plains, thrips continue to be a problem for onion crop. Potato plants are in bloom. Plant diseases because of high moisture conditions. In Trans Pecos, onion harvest continued in full swing. Peach harvest continued in High Plains. Harvest in other areas continued as peaches ripen.

Range and Livestock: Haying operations continued to make steady progress. Range, pastures excellent. Livestock good to excellent.

UTAH: Temperature maximums approximated 2° above normal, minimums about 2° below normal. Light scattered precipitation was in the northern Mountains, southeast divisions; none elsewhere.

Days suitable for fieldwork 6.9. Soil moisture 30% short, 70% adequate. Winter wheat, 83% headed, 97% 1990, 100% avg.; 12% turning color, 37% 1990, 49% avg. Spring wheat 72% booted, 90% 1990, 88% avg.; 49% headed, 67% 1990, 69% avg. Barley 83% booted, 87% 1990, 86% avg.; 54% headed, 75% 1990, 75% avg. Oats 78% jointed, 99% 1990 93% avg.; 50% booted, 58% 1990, 67% avg.; 27% headed, 36% 1990, 38% avg. Corn 99% emerged, 100% 1990, 100% avg.; height 8.6 in., 14 in. 1990, 16.4 in. avg. Alfalfa first cutting 56% complete, 79% 1990, 79% avg. Other hay 27% cut. Cattle movement to summer range 92% complete, 100% 1990, 100% avg. Sheep movement to summer range 79% complete, 100% 1990, 100% avg. Pasture, range mostly fair to good.

VIRGINIA: Temperatures well above normal, dropped off middle, recovered above normal weekend. Extremes 53°; 100°. Precipitation quite variable 0.10 to 3.50 in.

Days suitable for fieldwork 3.9. Topsoil 15% very short, 26% short, 47% adequate, 12% surplus. Soybeans 71% planted, 80% 1990, 67% avg.; 31% poor, 57% fair, 12% good. Wheat 64% harvested, 40% 1990, 22% avg. Oats 66% harvested, 30% 1990 and avg. Barley 95% harvested, 81% 1990, 67% avg. Tobacco 20% fair, 77% good, 3% excellent. Peanut 67% fair, 33% good. Apple 31% fair, 63% good, 6% excellent. Potato 50% poor, 50% fair. Corn 3% very poor, 33% poor, 36% fair, 18% good, 10% excellent. Alfalfa 14% poor, 31% fair, 52% good, 3% excellent. Other hay 5% very poor, 14% poor, 38% fair, 3% good. Pasture 11% very poor, 23% poor, 33% fair, 26% good, 7% excellent. Livestock 2% poor, 32% fair, 56% good, 10% excellent.

WASHINGTON: Temperatures normal, 4 to 6° below normal east; 2° above normal to 4° below normal west. Precipitation 0.10 to 1.53 in. east; 0.18 to 1.73 in. west.

Days suitable for fieldwork 4.9. Soil moisture 40% short, 56% adequate, 4% surplus. Hay, other roughage 12% short, 88% adequate. Range, pasture 25% poor, 7% fair, 51% good, 17% excellent. Wheat 43% fair, 57% good. Barley 39% fair, 61% good. Potato 100% good. Dry bean 100% good. Corn 5% poor, 6% fair, 89% good. Winter wheat headed 96%. Spring wheat headed 73%. Barley headed 73%. Dry beans planted 100%. Alfalfa hay, 1st cutting 85%. Alfalfa hay, 2nd cutting 3%. Cephalis spirium stripe appeared in winter wheat in

Whitman County. Alfalfa seed was beginning to bloom. Cherry harvest was underway in the Yakima Valley. Rain caused some cracking. Cherry harvest will begin later than usual in Chelan County. Some fire blight showed up in Gala, Golden Delicious, Winter Banana apples in central areas. Strawberry harvest began in western areas. Development of summer vegetables was slow throughout the State.

WEST VIRGINIA: Temperature 74°. Extremes 55°; 96°. Precipitation 1.04 in.

Days suitable for fieldwork 4.5. Soil moisture 16% very short, 56% short, 28% adequate. Wheat good; 100% headed, 86% ripe. Barley good; 100% ripe, 100% harvested. Corn fair; 100% planted, 93% emerged. Oats good; 100% emerged. Gardens, 12% poor, 19% fair, 63% good, 6% excellent; 100% planted, 82% emerged. Tobacco, fair; 97% set. Hay, 9% poor, 66% fair, 25% good; 80% first cutting. Apples, peaches good. Pastures, 13% poor, 56% fair, 31% good; 73% of normal. Cattle, good. Sheep, fair.

WISCONSIN: Temperature 67°, 1° above normal. Extremes 37°; 93°. Precipitation 0.30 to 2.30 in.

Days suitable for fieldwork 5.85. Soil moisture 15% short, 69% adequate, 16% surplus. Pasture 85% of normal, 85% 1990, 70% avg.

General condition of crops 1% poor, 6% fair, 78% good, 15% excellent. Winter wheat 2% very poor, 2% poor, 17% fair, 69% good, 10% excellent. Corn 1% poor, 7% fair, 60% good, 32% excellent; height 26 in., 9 in. 1990, 17 in. avg. Soybean 10% fair, 74% good, 16% excellent; 98% planted, 99% 1990, 99% avg. First crop hay 80% harvested, 52% 1990, 73% avg. Oats 48% headed, 27% 1990, 51% avg.

WYOMING: Temperatures near normal. Precipitation below normal.

Days suitable for fieldwork 6.0. Topsoil 14% short, 86% adequate. Winter wheat 5% not jointed, 5% 1990, 0% avg.; 15% jointed, 20% 1990, 10% avg.; 20% boot, 25% 1990, 25% avg.; 60% headed, 50% 1990, 65% avg. Barley 40% not jointed, 10% 1990; 15% avg.; 15% jointed, 15% 1990, 20% avg.; 25% boot, 25% 1990, 30% avg.; 20% headed, 50% 1990, 35% avg. Spring wheat 40% not jointed, 20% 1990, 15% avg.; 20% jointed, 35% 1990, 35% avg.; 30% boot, 25% 1990, 35% avg.; 10% headed, 20% 1990, 15% avg. Oats 35% not jointed, 30% 1990; 30% avg.; 30% jointed, 40% 1990, 35% avg.; 30% boot, 20% 1990, 30% avg.; 5% headed, 10% 1990, 5% avg. Sugarbeets 65% thinned, 85% 1990, 80% avg. Alfalfa first cutting 15% complete, 20% 1990, 25% avg. Other hay small amount harvested, 5% 1990, 5% avg. Livestock good to excellent. Stockwater 1% short, 99% adequate. Ranges, pastures good to excellent.

(Continued from p. 7)

corn, and tomatoes. Green pea harvest was nearly complete in Maryland. Sweet corn and green pea planting was nearing completion in Minnesota. Strawberry harvest continued in New England. New Jersey summer vegetable harvests picked up pace. Texas onion and tomato harvests continued in full swing. Development of summer vegetables was slow throughout Washington due to cool, wet weather conditions.

PASTURES AND LIVESTOCK: Timely rains improved pasture conditions in the Southeast and most areas report good forage growth. Pasture conditions continued to deteriorate in Pennsylvania and New York, as abnormally dry conditions persisted. Texas' range and pastures remained in excellent condition with recent rains. Grasshopper infestations plagued many areas in Oklahoma. Livestock movement to summer ranges neared completion in the West.

International Weather and Crop Summary

HIGHLIGHTS

June 16 - 22, 1991

USSR ... In Western USSR, showers continue in the west, but warm dry weather prevails in the east. In the New Lands, beneficial showers bring temporary relief from the prolonged drought.

EUROPE ... Beneficial showers cover most crop areas. Dry weather in the south favors harvesting. Cool weather in the northwest slows crop growth.

EASTERN ASIA ... Dry conditions return to most winter grains regions as wheat harvesting progresses. Southeastern areas receive much needed rains.

SOUTHEAST ASIA ... Dry pockets persist over central and northern Thailand. In the Philippines, beneficial rains are limited to western rice areas.

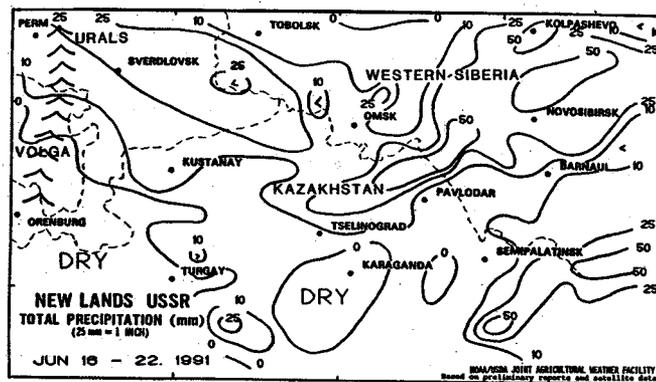
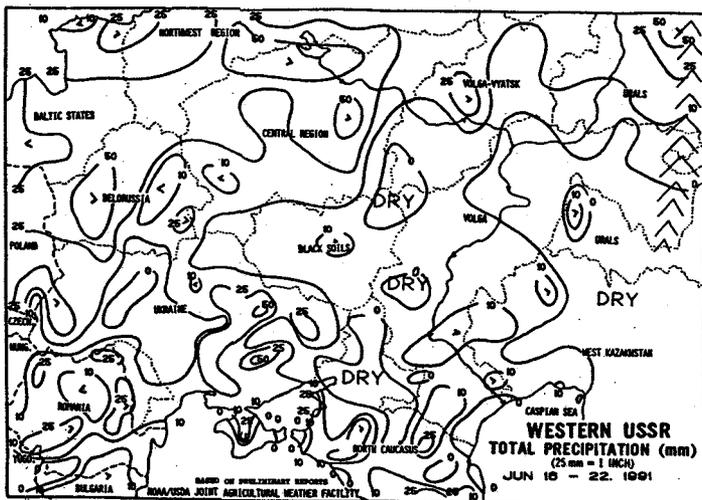
SOUTH ASIA ... Seasonable showers favor summer crop planting and establishment.

SOUTH AMERICA ... Rains delay soybean harvest in Argentina and wheat planting in Brazil.

AUSTRALIA ... Winter grain planting continues throughout the country. However, moisture is needed in the Queensland wheat region.

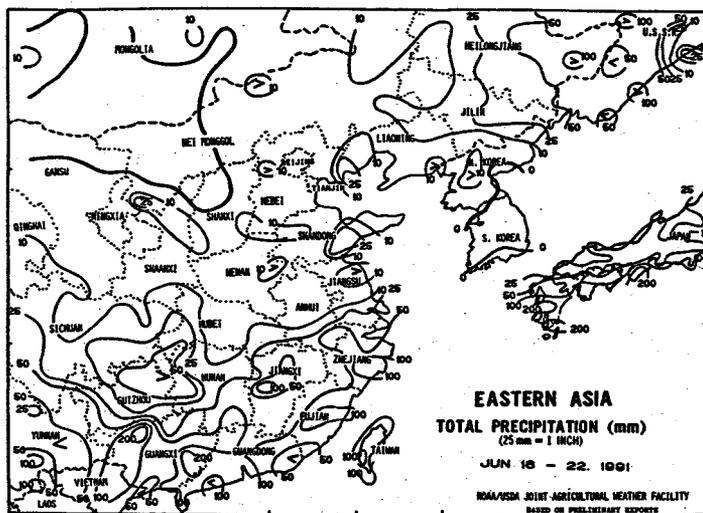
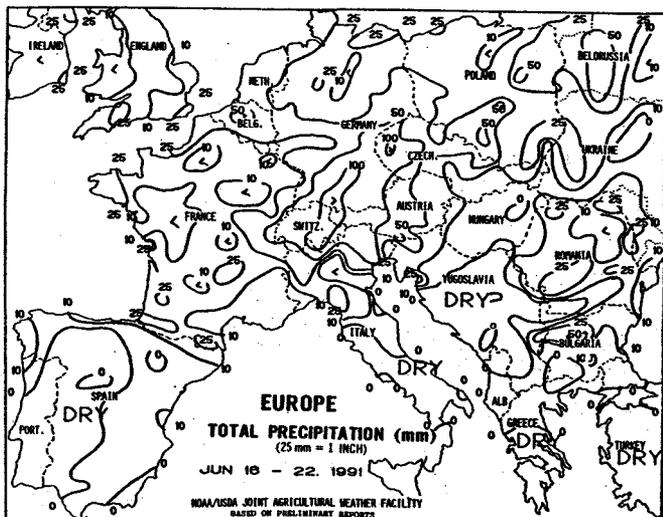
CANADA ... Cool, wet weather in the west maintains favorable soil moisture but slows vegetative growth of spring wheat.

MEXICO ... Rains benefit southern corn, but drier conditions prevail elsewhere.



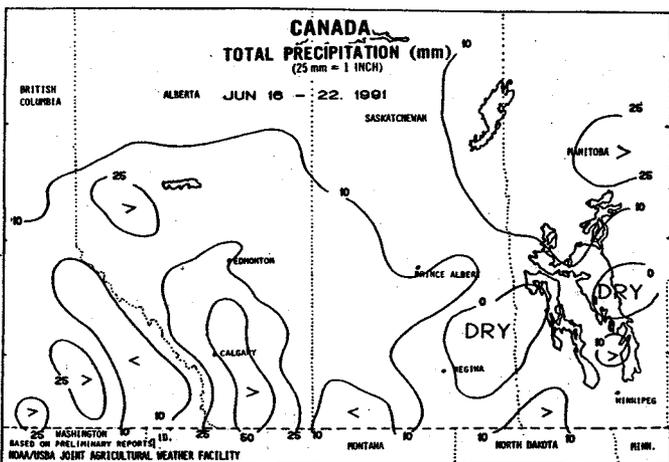
USSR ... In Western USSR, widespread showers (15-50mm) covered northwestern crop areas, with heavier storms (50-87mm) in western Belorussia and the Central Region. Thunderstorms in the eastern Ukraine also produced 25-50mm of rainfall, maintaining ample moisture for crop growth. Winter grains ranged from reproduction to grain development, spring grains varied from late vegetative growth to reproduction, and summer crops were in vegetative stages. Mostly dry weather continued for the second consecutive week from Volga to the Urals and south to the North Caucasus. Light showers (mostly 5mm or less) were scattered throughout these areas, with only a narrow band of 10-24mm rainfall in the lower Volga region. Temperatures averaged near normal in the west but warmed several degrees above average from the Black Soils Region through the middle Volga, increasing evapotranspiration rates in the recently drier areas.

In the New Lands, beneficial showers fell over much of the New Lands spring wheat region, temporarily easing drought conditions. Weekly rainfall generally averaged 10-25mm, moistening topsoils for vegetative spring grains. Heavier rainfall (25-43mm) helped crops from northeastern Urals to extreme western portions of Western Siberia. Substantial rainfall (25-89mm) also covered a broad area of Western Siberia, extending into north-central Kazakhstan, just north of Tselinograd and west of Pavlodar. Light, scattered showers (1-9mm) provided little relief to drought-stressed crops in southern crop areas of Kazakhstan. Dry weather also prevailed in the southern Urals. Temperatures averaged near normal across the region as cooler air accompanied the widespread shower activity.

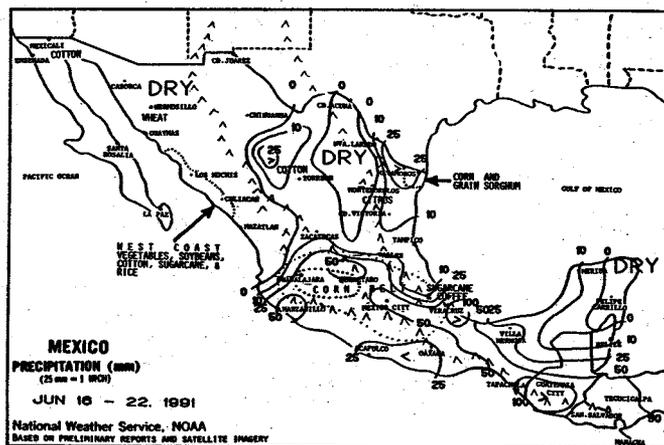


EUROPE ... Widespread showers covered most of the region, with mostly dry weather confined to the Mediterranean region from the Iberian Peninsula across southern Italy to Greece, and from Yugoslavia to Hungary. Rain (generally 10-30mm) benefited corn growth in France and Romania and immature grains from England to Poland. While the moisture favored crop development, growth rates continued to lag behind average in the west with weekly temperatures ranging from 2 to 4 degrees Celsius (C) below normal in France and the Benelux countries. Locally heavy rain (50 to over 100mm) soaked crop areas of southern Germany, western Czechoslovakia, and extreme northeastern Italy. The dry and generally mild weather in southern Europe promoted ripening and harvesting of winter grains. However, daily high temperatures in the low to middle thirties (C) in Spain have further reduced moisture supplies.

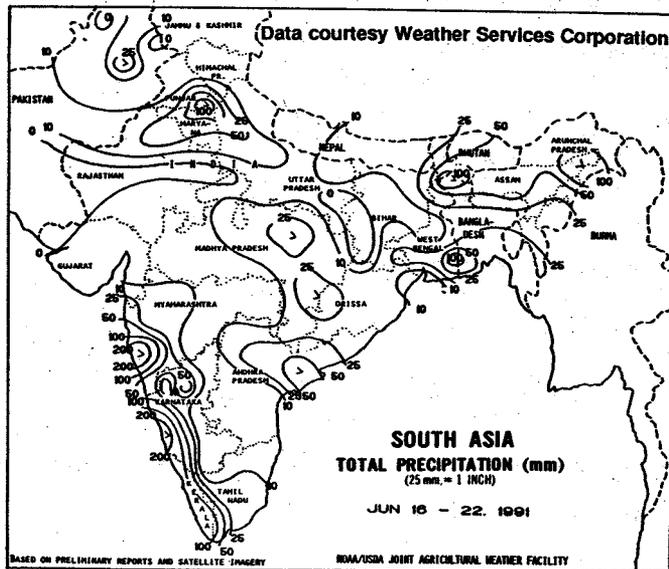
EASTERN ASIA ... In Manchuria, moderate to heavy rains (14-71mm) fell across eastern Heilongjiang and Jilin, boosting soil moisture levels for vegetative corn and soybeans, and germinating spring grains. Drier conditions returned to most of the North China Plain where previous wetness was a problem. Winter wheat harvesting should be progressing normally. Moderate to heavy rains (13-60mm) fell south of the Yangtze Valley, delaying early double-crop rice harvesting. Heavy rains (65-250mm) again fell across Guangxi and Guangdong, producing local flooding. Fujian and Taiwan received major relief from previous dryness, as 36-136mm fell last week. A couple of stations along the Fujian coast and in southwestern Taiwan received over 300mm in a few days, causing local flooding.



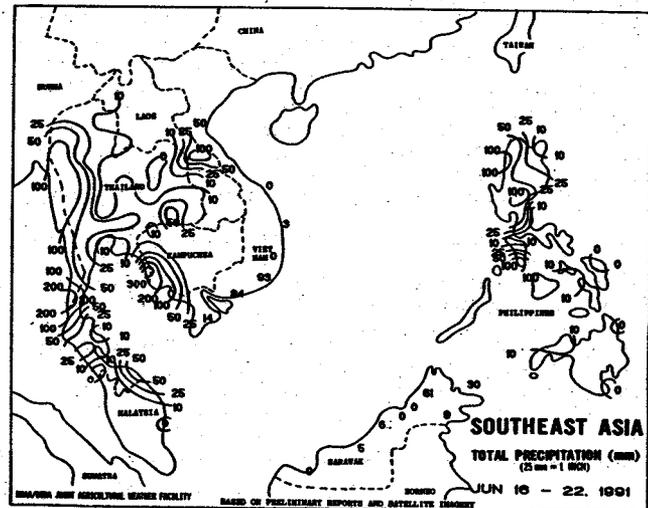
CANADA ... Cool, wet weather continued over Alberta and western Saskatchewan, slowing growth of early vegetative spring wheat. Rainfall ranged from 10 to 86mm over the region, maintaining favorable moisture levels for emerging to jointing grains, but weekly temperatures continued to average 1-3 degrees C below normal. Warmer and drier weather is needed in the western grain and oilseed areas to hasten crop growth and reduce the risk of pest and disease damage. Further east, drier weather (rainfall totaling 7mm or less) covered eastern Saskatchewan and Manitoba, but temperatures averaged near to below normal.



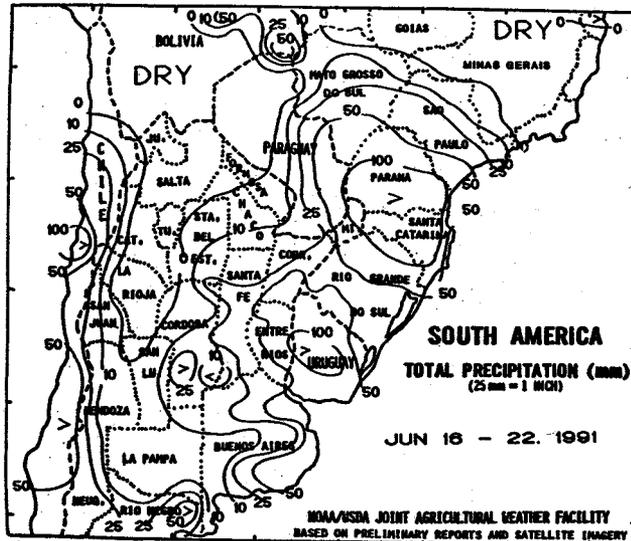
MEXICO ... Moderate to heavy rains (36-84mm) were confined to the southern Plateau corn region boosting topsoil moisture for corn germination. Light rains fell across the northeastern citrus and vegetables area. The rest of the country received little or no rainfall.



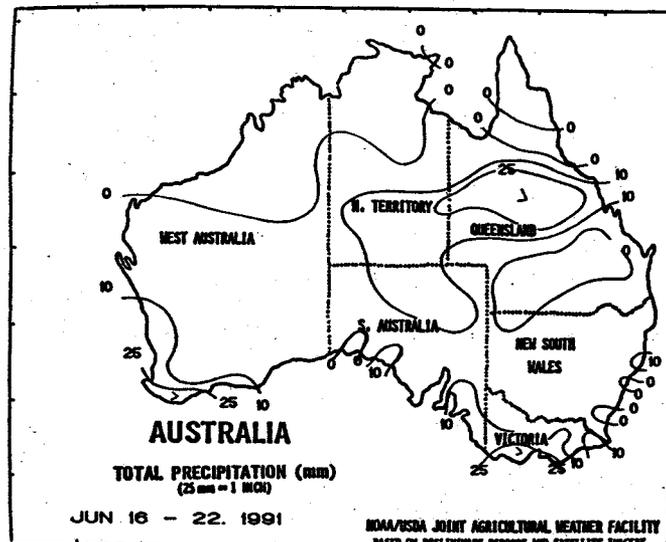
SOUTH ASIA ... The southwest monsoon continued its northwestward progress through India, bringing light to moderate showers (10-25mm or more) to many southern, central, and eastern crop regions. Locally heavy rain (100mm or more) in Bangladesh and Assam likely caused some more flooding. Temperatures throughout South Asia averaged near to below normal, reducing stress on newly planted grains and oilseeds. Although the monsoon does not reach northwestern India and Pakistan until July, this week's scattered rain (10-25mm or more) and favorably milder temperatures (3-6 degrees C below normal) were beneficial for irrigation reserves and livestock.



SOUTHEAST ASIA ... Rainfall continued to be highly variable over Thailand's major grain regions, with light rain (10mm or less) persisting from the central corn region northeastward through primary rainfed rice areas. Above-normal temperatures accompanied the dryness, adding to the stressful growing conditions. Elsewhere, mostly moderate to heavy showers (25-100mm or more) returned to peninsular Thailand and local areas of Vietnam. In the Philippines, moderate to heavy rain (25-50mm or more) fell in the west from northwestern Luzon southward to the west-central island of Panay, improving conditions for main season rice. However, rainfall in eastern and southern regions was light (10mm or less) and temperatures averaged 1-2 degrees C above normal, further reducing moisture reserves for normal crop development.



SOUTH AMERICA ... In Argentina, midweek light to moderate rains (5-40mm) delayed soybean harvesting in Santa Fe, Cordoba, and northern Buenos Aires. In central and southern Buenos Aires, moderate rains (31-89mm) improved pre-planting moisture and favored wheat germination but also caused winter wheat planting delays. Moderate to heavy rains (38-102mm) fell across the wheat areas of southern Brazil, causing planting delays, with possible flooding, in most areas but brought needed germination moisture to the just sown Parana wheat crop. Light rains slightly delayed the citrus and coffee harvest in Sao Paulo, but the remaining coffee areas had favorable harvest conditions. The crop regions in central Chile received beneficial rains.



AUSTRALIA ... Only light rains (4-13mm) fell across most winter grain areas, enabling planting to progress. Moisture is needed in the wheat areas for Queensland since the last significant rains fell in early June. Temperatures ranged from 1 to 2 degrees C above normal in the east to near normal in the west.

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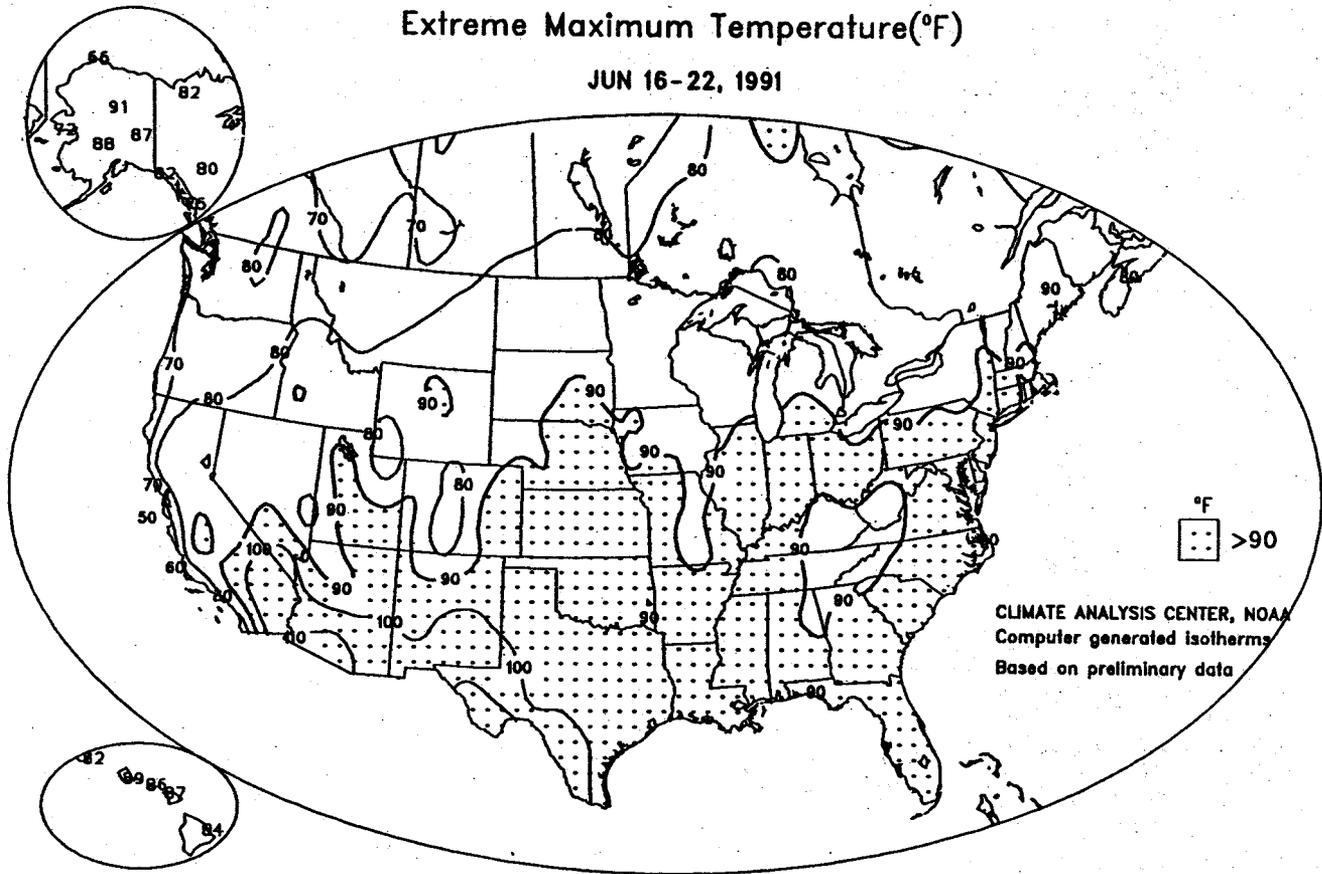
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Extreme Maximum Temperature(°F)

JUN 16-22, 1991



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