

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

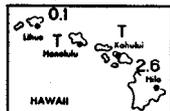
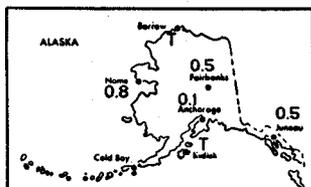
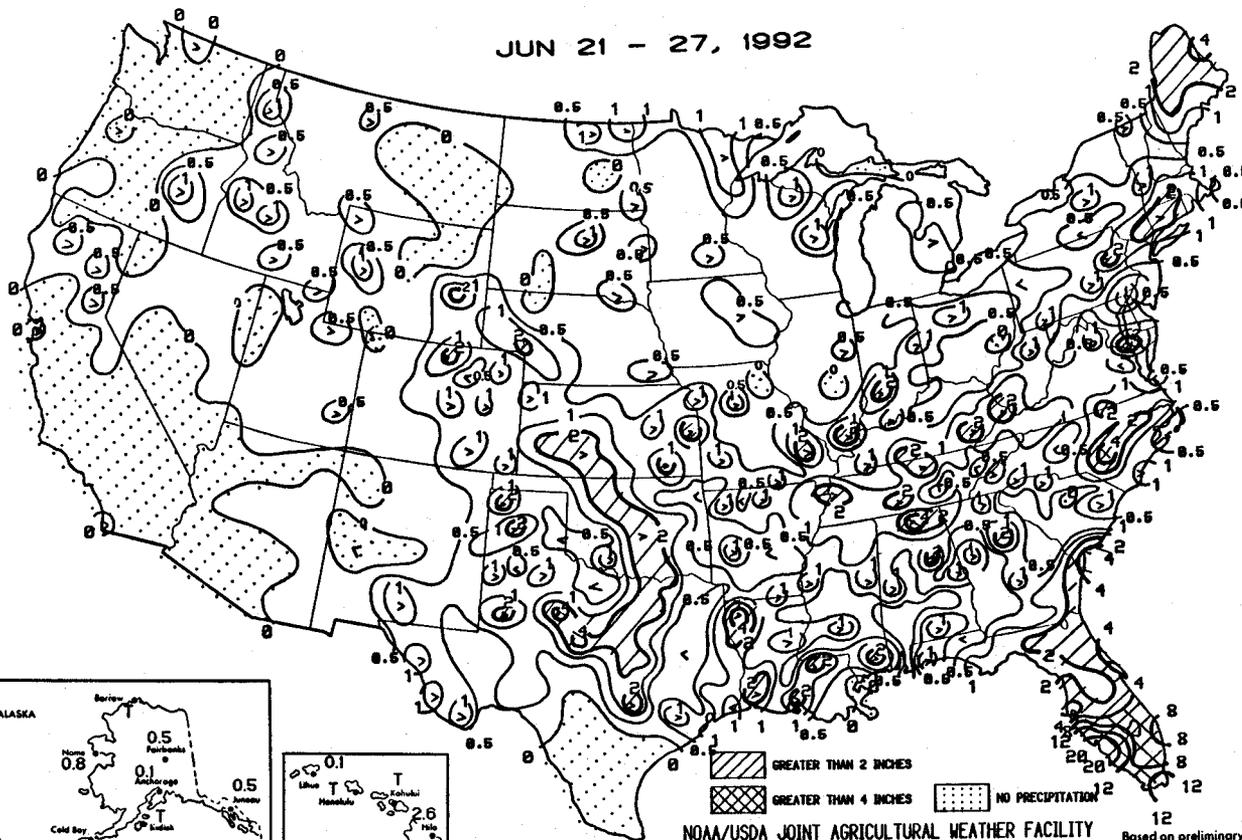
Volume 79, No. 26

Washington, D.C.

June 30, 1992

TOTAL PRECIPITATION, INCHES

JUN 21 - 27, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

HIGHLIGHTS

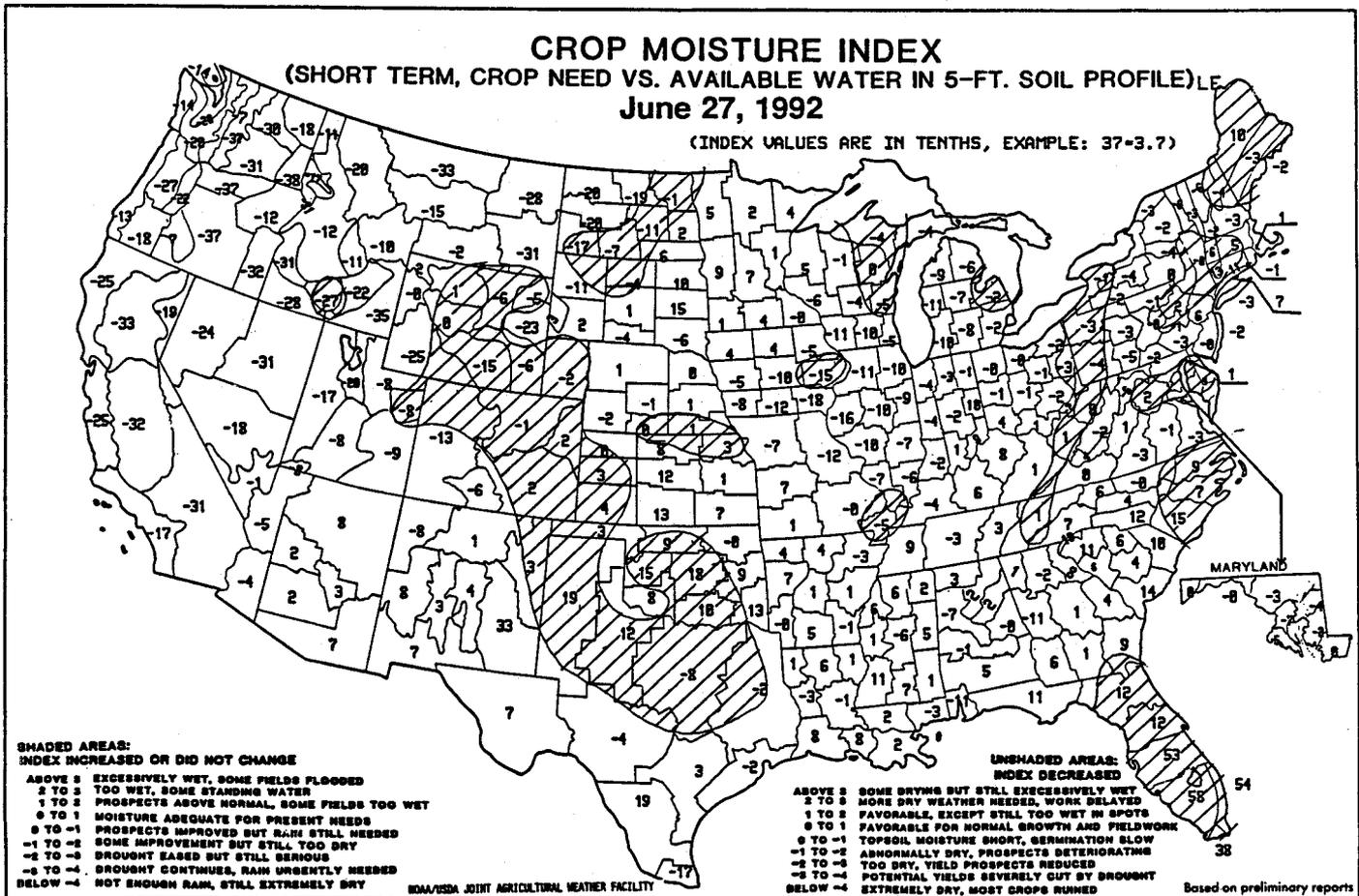
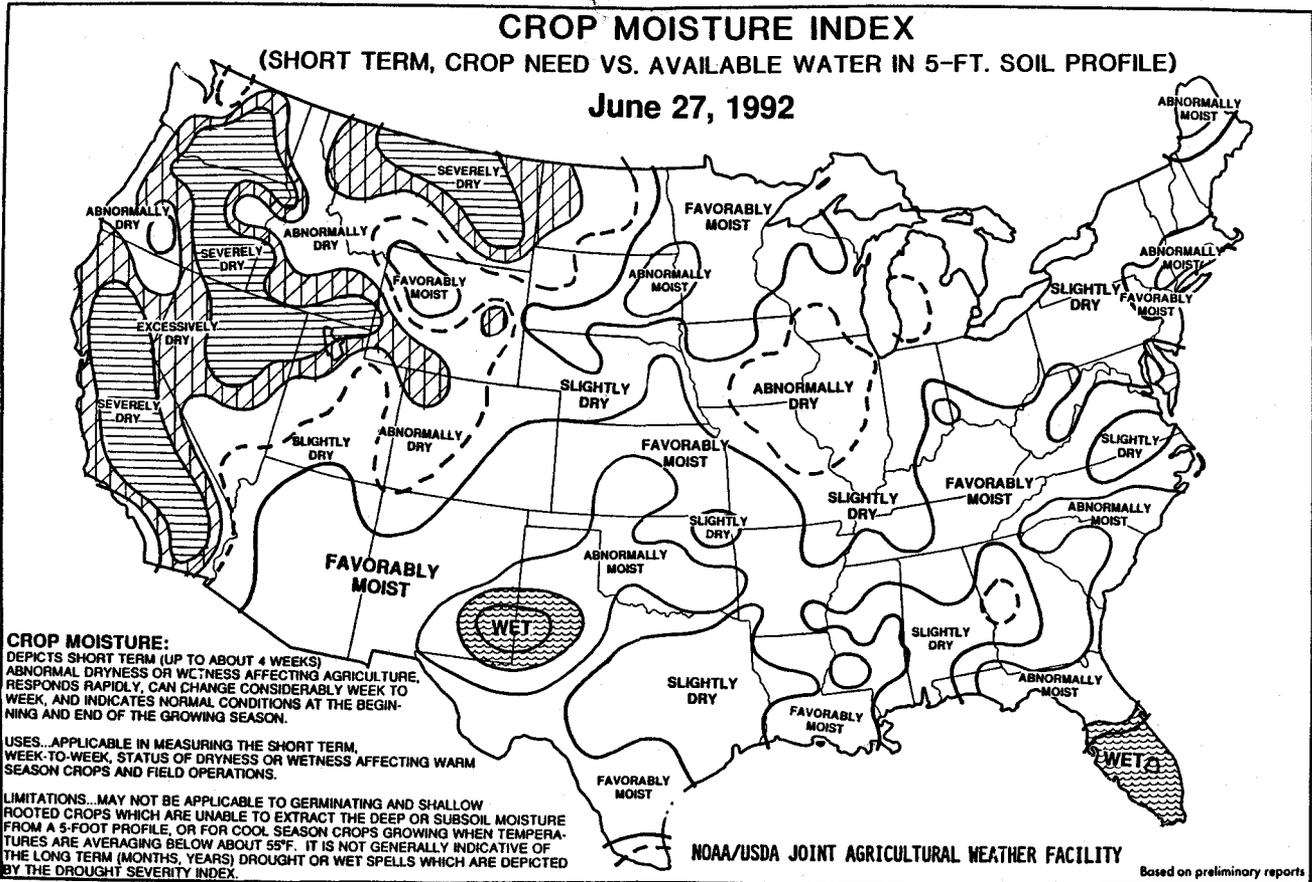
June 21 - 27, 1992

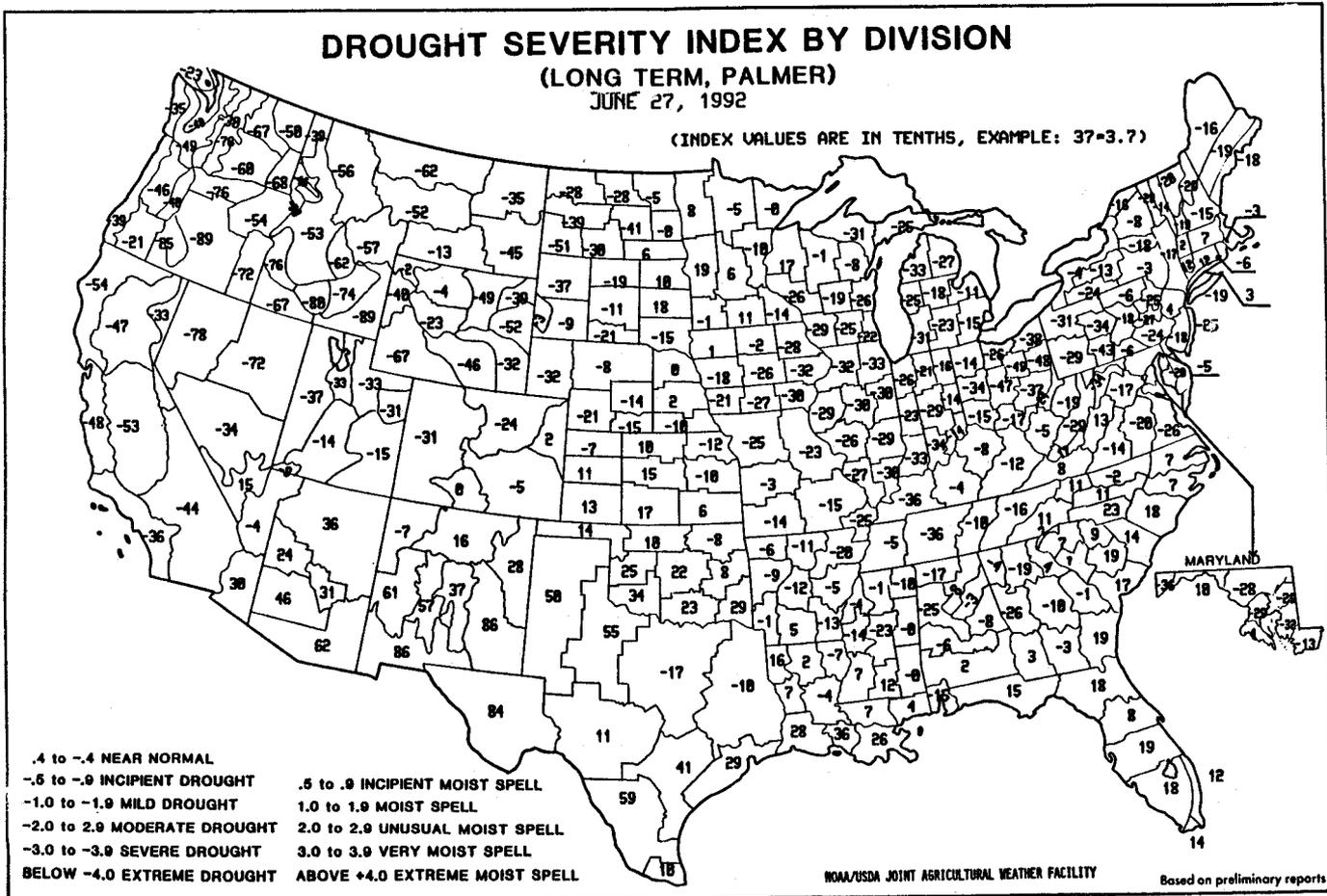
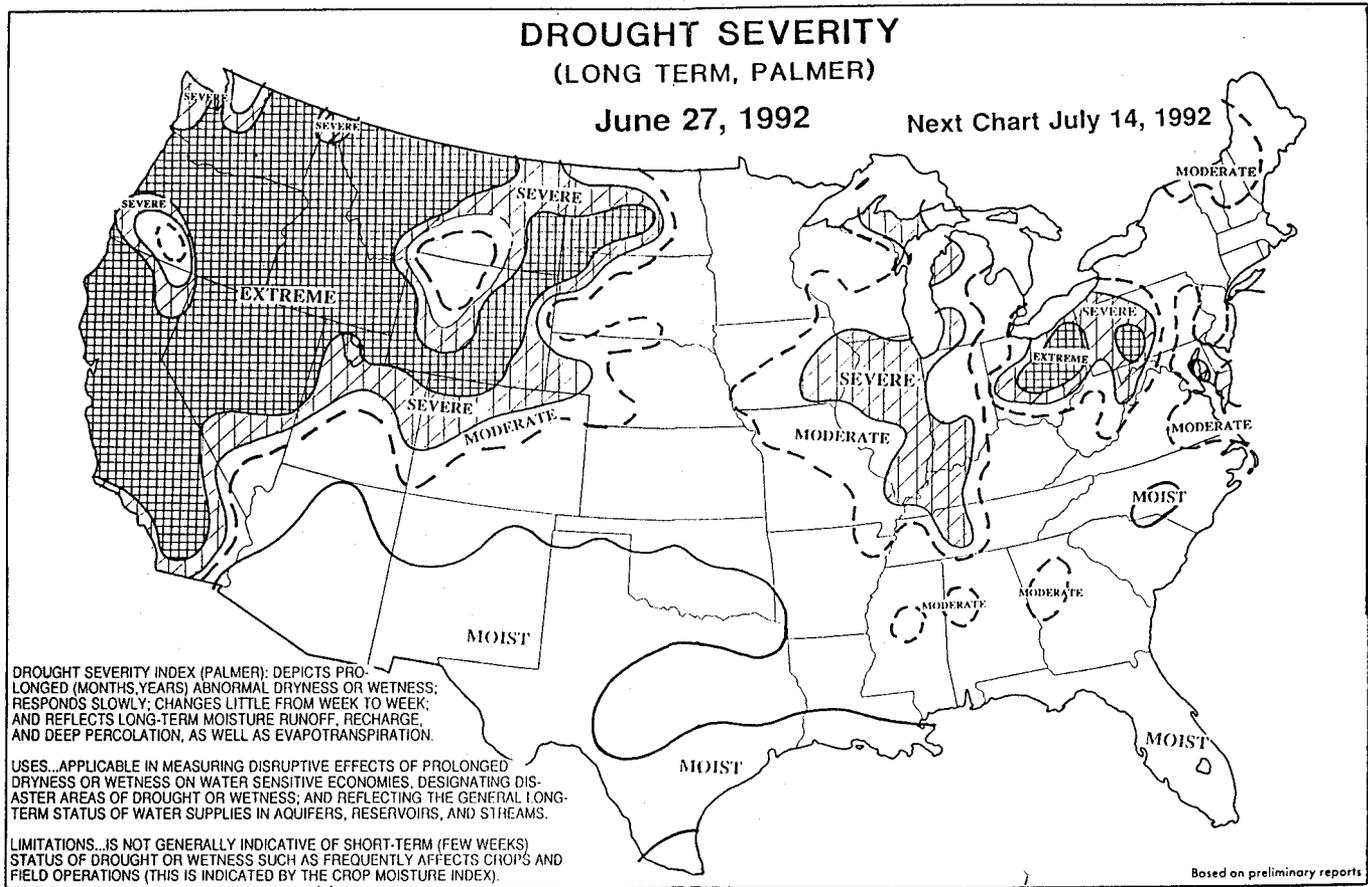
Record cold in the **East**, heat in the **Northwest**, torrential rains in **Florida**, dryness in the **Corn Belt**, and widespread severe thunderstorms highlighted the week's weather. The unseasonably cold air mass, which dropped out of **Canada** and traveled southeastward across the northeastern quadrant of the country on June 21-23, tied or broke at least 122 low-temperature records, including 67 on Monday morning. Readings in the 30's and 40's were common. **Chicago** dipped to 38 degrees F on Sunday morning. On Monday, **Cleveland, OH**, hit 39 degrees F, while **Muskegon** and **Marquette, MI**, recorded frosty 32-degree F readings. **Atlantic City, NJ**, saw 39 degrees F on Tuesday. A heat wave set numerous records in the **Pacific Northwest** on June 21-24, including 101 degrees on Tuesday at **Seattle, WA**, creating a new June record. The tropical depression that soaked **Florida** brought huge

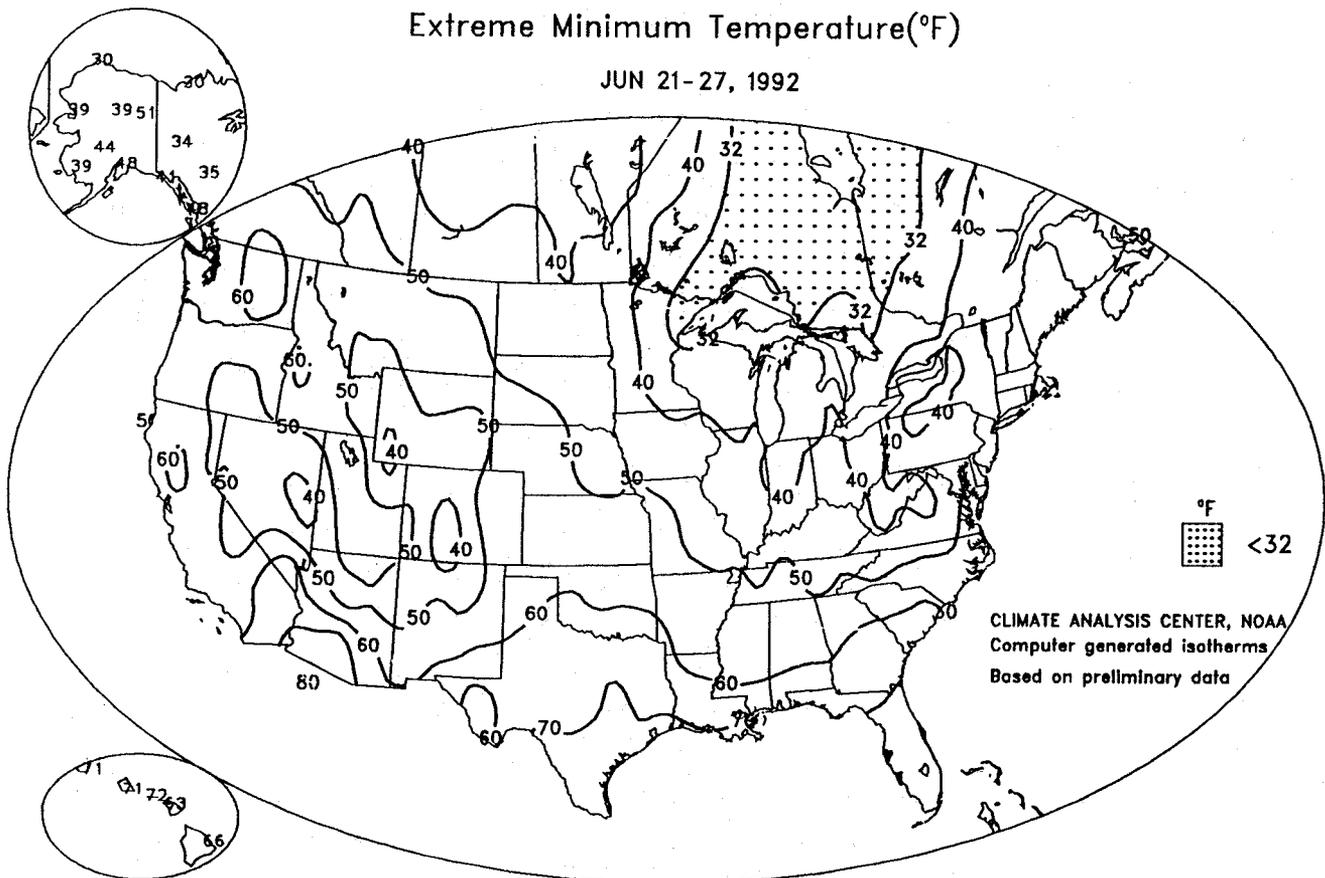
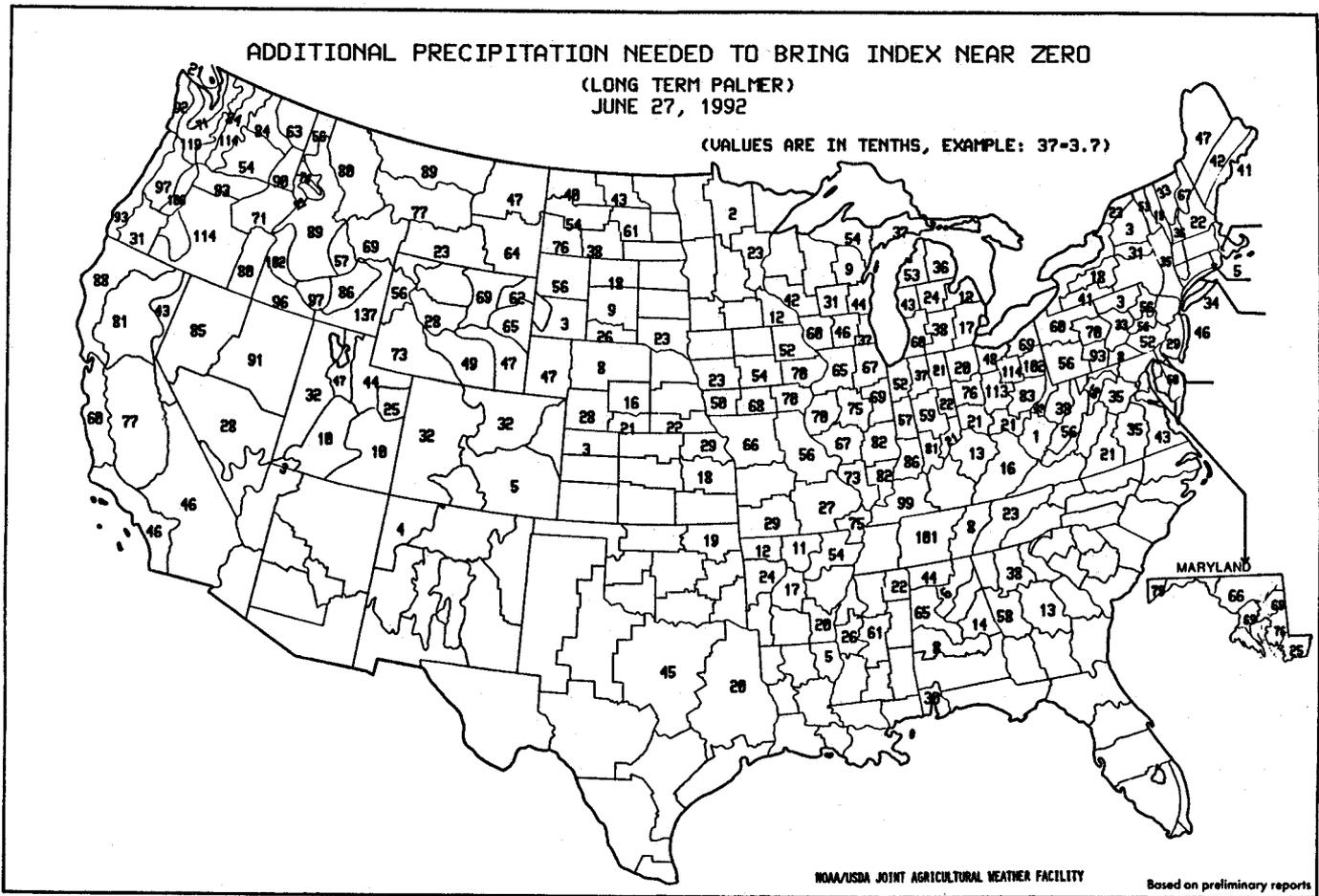
(Continued to back cover)

Contents

	Page
Highlights & Total Precipitation Map	1
Crop Moisture Maps	2
Drought Severity Maps	3
Precipitation Needed to End Drought & Extreme Minimum Temperature Maps	4
Temperature Departure & Extreme Maximum Temperature Maps	5
Total Growing Degree Days & Departure Maps	6
National Weather Data for Selected Cities	7
National Agricultural Summary	10
Crop Progress and Condition Tables	11
State Summaries of Weather and Agriculture	13
International Weather and Crop Summary	20
Subscription and Mailing Permit Information ..	24

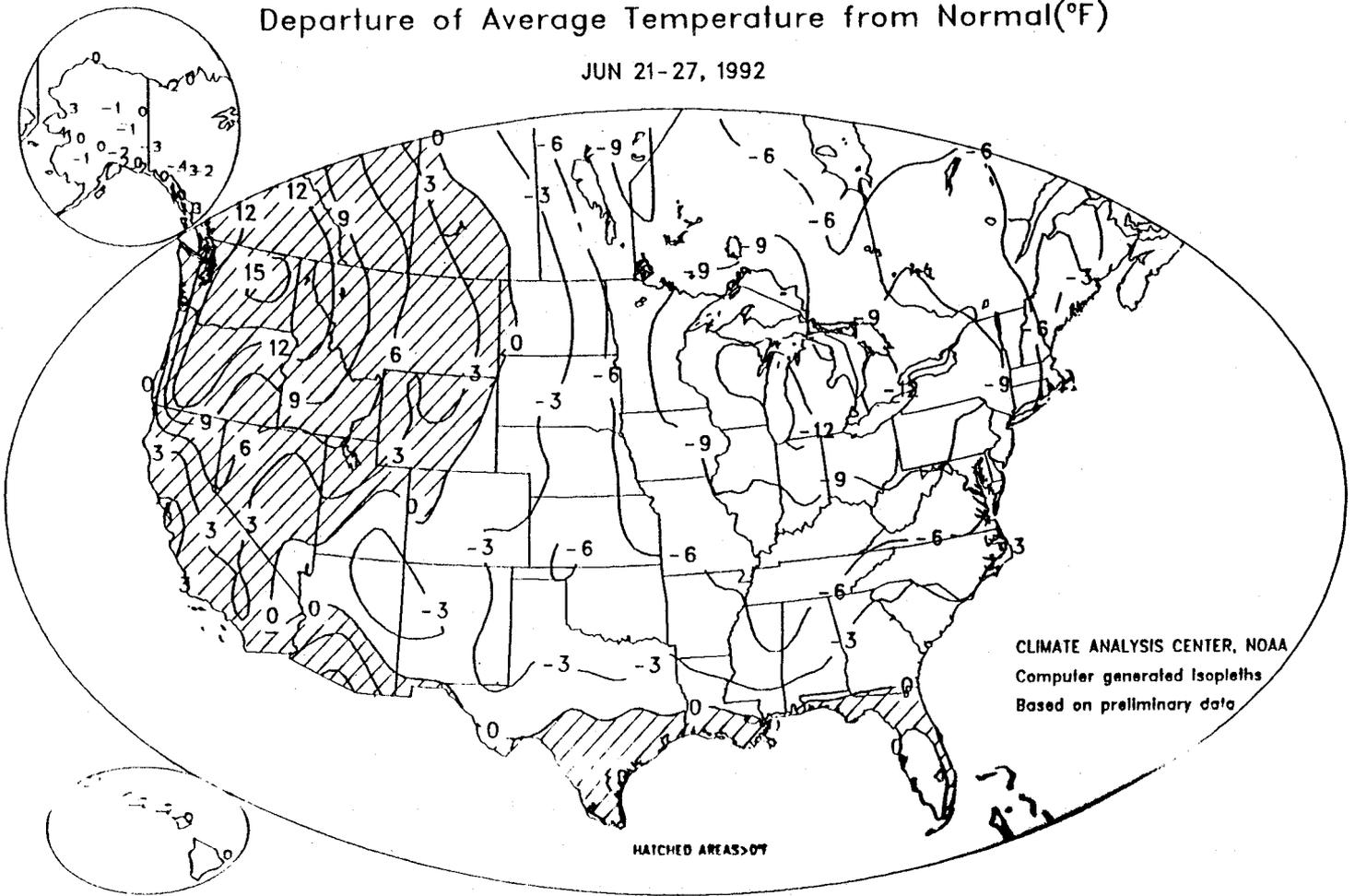






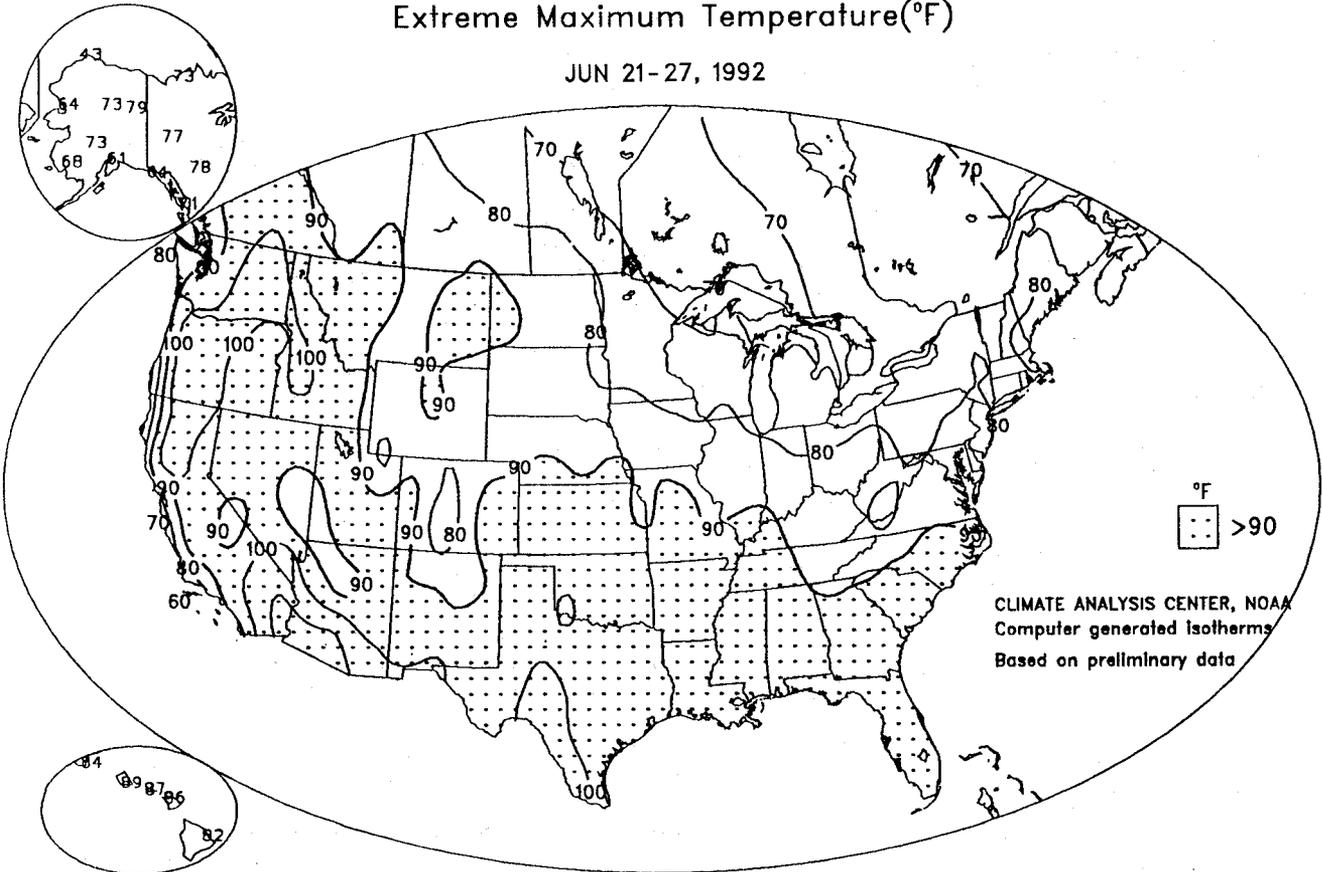
Departure of Average Temperature from Normal(°F)

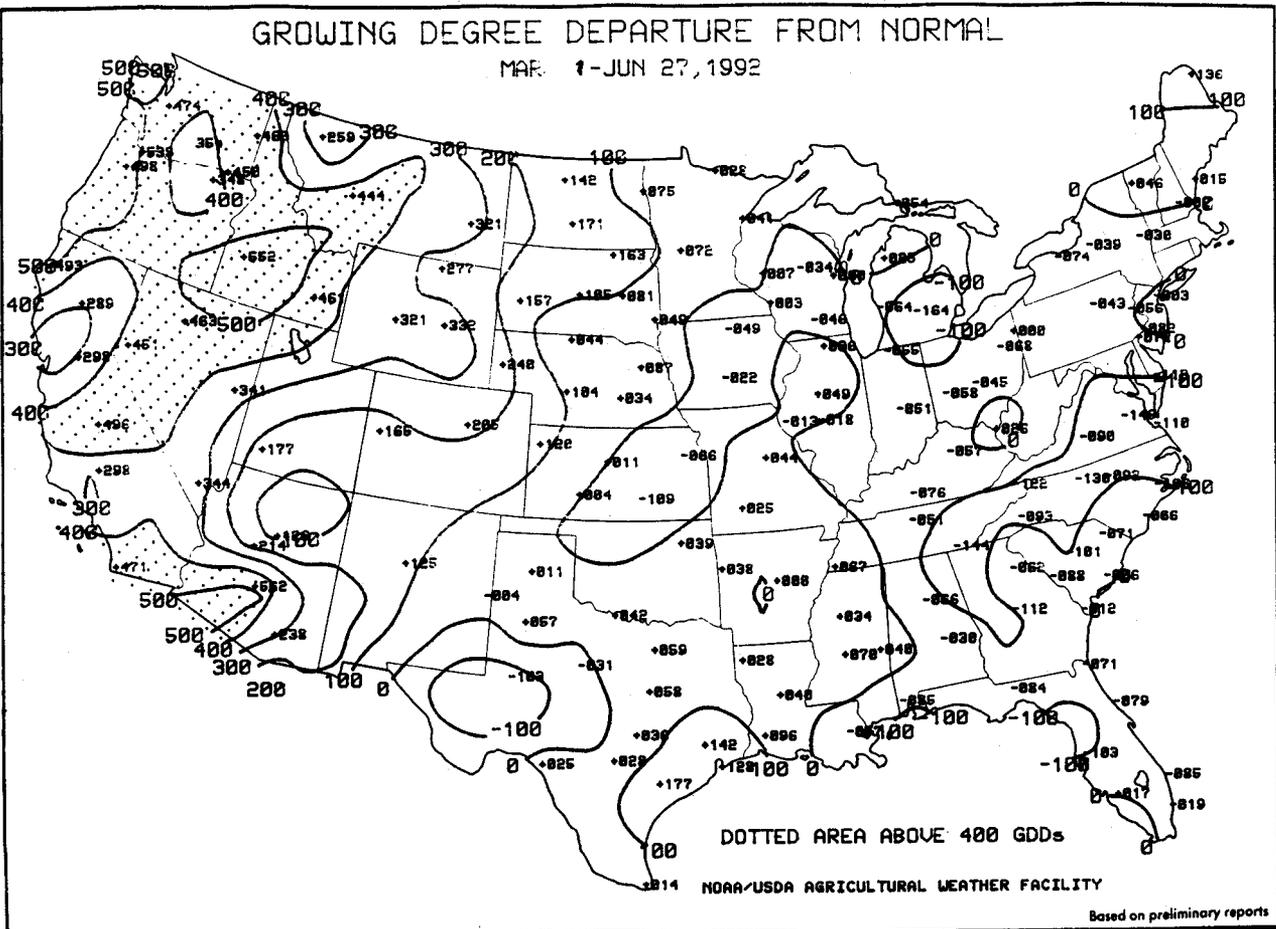
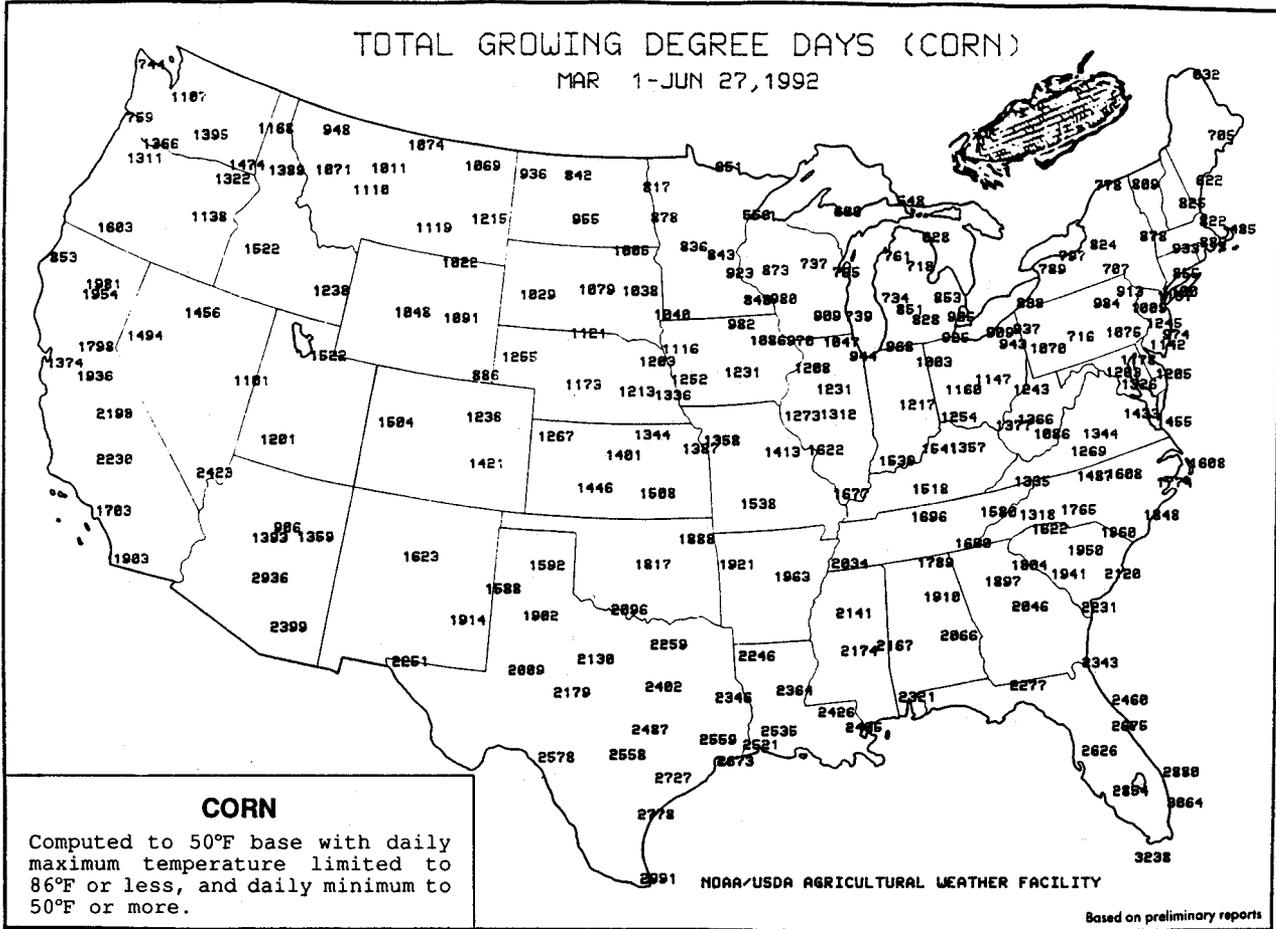
JUN 21-27, 1992



Extreme Maximum Temperature(°F)

JUN 21-27, 1992





National Weather Data for Selected Cities

Weather Data for the Week Ending June 27, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.
													90 AND ABOVE				32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	86	61	93	51	74	-5	.3	-.6	.3	5.0	155	19.9	68	93	41	2	0	1	0
MOBILE	92	70	94	66	81	-1	T	-1.3	T	4.1	91	31.0	99	93	43	6	0	1	0
MONTGOMERY	89	64	93	57	76	-4	T	-.9	T	7.1	231	31.1	119	97	43	3	0	0	0
AK ANCHORAGE	58	49	61	48	54	-3	1.1	.8	.4	1.2	125	4.4	99	91	61	0	0	5	0
BARROW	39	32	43	30	36	-1	T	-.1	T	.42	.6	.6	54	98	81	0	4	0	0
FAIRBANKS	72	49	78	44	60	-1	.4	.1	.3	1.9	164	5.2	154	88	38	0	0	3	0
JUNEAU	64	44	74	40	54	0	.2	-.5	.2	3.0	112	37.8	192	92	44	0	0	1	0
KODIAK	56	45	61	39	51	-1	1.8	.9	1.5	4.7	130	31.2	114	95	71	0	0	5	1
NOME	59	44	64	33	52	4	.3	-.1	.1	.4	34	2.7	66	91	55	0	0	4	0
AZ PHOENIX	107	82	111	78	94	5	.0	-.1	.0	T	31	6.6	254	29	14	7	0	0	0
PRESCOTT	88	56	92	52	72	0	.1	-.2	.1	.2	60	7.7	201	52	15	2	0	0	0
TUCSON	105	74	108	67	90	4	T	-.2	T	.1	33	6.5	237	38	10	7	0	0	0
YUMA	108	80	110	72	94	4	.0	.0	.0	.0	0	3.2	354	--	--	7	0	0	0
AR FORT SMITH	86	67	95	60	76	-4	.3	-.5	.3	8.1	247	22.8	111	93	53	2	0	1	0
LITTLE ROCK	85	66	92	58	75	-5	.1	-.7	.1	4.2	128	21.5	81	81	53	1	0	0	0
CA BAKERSFIELD	97	68	100	63	83	2	.0	.0	.0	.0	0	5.6	146	61	22	7	0	0	0
EUREKA	65	54	67	53	60	5	T	.0	T	.7	148	14.5	65	93	71	0	0	2	0
FRESNO	96	67	102	63	81	4	T	.0	T	.0	0	9.0	129	76	23	7	0	0	0
LOS ANGELES	73	60	76	59	66	0	.0	.0	.0	.0	0	11.6	140	93	67	0	0	0	0
REDDING	96	67	110	61	81	2	.7	.6	.7	1.1	138	19.6	80	81	27	7	0	1	1
SACRAMENTO	89	60	96	58	74	1	T	.0	T	.1	64	9.9	93	84	34	3	0	0	0
SAN DIEGO	76	63	86	61	69	2	T	.0	T	.0	100	9.9	162	90	63	0	0	1	0
SAN FRANCISCO	76	59	80	57	67	6	T	-.2	T	.0	0	12.9	98	87	49	0	0	0	0
CO DENVER	82	58	90	55	70	0	.3	-.1	.2	1.9	138	8.4	104	88	35	1	0	4	0
GRAND JUNCTION	90	61	96	53	76	0	T	-.1	T	.2	50	4.4	119	61	15	4	0	1	0
PUEBLO	84	56	93	50	70	-4	.9	.6	.5	2.8	278	5.2	111	84	36	2	0	4	1
CT BRIDGEPORT	72	56	79	49	64	-6	1.4	.7	.8	5.2	200	17.6	88	86	50	0	0	2	2
HARTFORD	74	52	81	46	63	-8	1.4	.6	.9	5.8	189	20.9	98	92	47	0	0	2	1
DC WASHINGTON	80	59	84	51	69	-7	.7	-.1	.7	2.0	66	16.5	90	87	44	0	0	4	1
FL APALACHICOLA	90	73	94	70	81	0	1.4	.1	1.3	4.7	110	23.1	106	--	--	3	0	2	1
DAYTONA BEACH	91	73	94	72	82	2	4.7	3.2	3.0	9.7	167	22.0	110	97	56	4	0	5	3
JACKSONVILLE	92	73	95	71	82	1	2.5	1.1	1.3	6.4	124	30.2	134	93	54	6	0	3	3
KEY WEST	88	79	91	75	83	0	7.8	6.6	5.1	11.0	240	18.4	127	90	72	3	0	4	2
MIAMI	88	74	94	72	81	-1	5.1	3.1	1.9	11.5	139	20.5	84	97	66	4	0	6	3
ORLANDO	88	73	94	73	81	-1	1.1	-.7	.6	7.3	115	25.0	119	99	66	3	0	6	1
TALLAHASSEE	93	69	94	66	81	0	1.7	.0	1.4	9.0	153	31.4	103	95	48	7	0	3	1
TAMPA	88	75	92	73	82	0	1.6	.2	.8	4.5	96	12.9	69	93	64	3	0	5	2
WEST PALM BEACH	89	73	95	72	81	-1	9.4	7.6	3.3	12.0	168	23.8	97	96	63	3	0	7	5
GA ATLANTA	86	65	92	59	76	-2	.2	-.7	.2	4.1	137	18.2	68	90	46	1	0	2	0
AUGUSTA	88	64	94	60	76	-2	.2	-.6	.3	4.4	126	21.0	89	97	53	4	0	2	0
MACON	90	66	95	60	78	-2	.3	-.6	.3	5.5	163	22.7	92	92	42	4	0	3	0
SAVANNAH	88	71	93	69	79	0	3.8	2.4	3.8	11.6	227	28.5	123	92	57	5	0	1	1
HI HILO	82	69	83	67	76	0	1.3	-.1	.4	8.3	152	24.4	38	95	66	0	0	6	0
HONOLULU	89	74	89	71	81	2	.0	-.1	.0	T	10	3.8	29	76	44	0	0	0	0
KAHULUI	85	70	86	63	78	0	T	.0	T	.3	119	6.5	57	86	62	0	0	1	0
LIHUE	84	74	84	71	79	1	T	-.2	T	.3	17	11.8	53	81	59	0	0	1	0
ID BOISE	94	62	100	60	78	9	T	-.2	T	.0	131	3.2	46	80	23	6	0	1	0
LEWISTON	99	66	103	62	83	14	.0	-.3	.0	.1	11	4.3	59	55	16	7	0	0	0
POCATELLO	89	53	95	47	71	5	.1	-.1	.1	1.3	132	3.5	57	81	24	4	0	1	0
IL CHICAGO	71	47	80	38	59	-12	T	-1.0	T	1.4	35	8.8	53	90	41	0	0	0	0
MOLINE	76	50	83	43	63	-10	.5	-.6	.2	2.1	55	9.5	53	96	36	0	0	3	0
PEORIA	78	52	87	43	65	-9	.2	-.8	.2	.8	23	8.4	49	89	37	0	0	1	0
QUINCY	78	53	88	45	66	-9	T	-.9	T	1.5	41	11.8	66	88	39	0	0	0	0
ROCKFORD	74	49	82	39	62	-10	T	-1.1	T	1.2	29	9.6	56	86	35	0	0	2	0
SPRINGFIELD	78	53	86	44	66	-9	T	-.8	T	2.3	73	10.7	63	91	39	0	0	0	0
IN EVANSVILLE	83	57	91	46	70	-7	.8	.0	.8	1.4	46	12.9	58	86	34	1	0	2	1
FORT WAYNE	74	51	79	41	62	-10	.2	-.7	.1	3.3	101	16.2	93	92	41	0	0	0	0
INDIANAPOLIS	76	51	83	37	64	-10	.4	-.5	.4	4.1	114	15.0	76	91	44	0	0	3	0
SOUTH BEND	70	47	79	39	58	-13	.1	-.8	.1	1.7	47	11.3	63	94	39	0	0	0	0
IA DES MOINES	81	54	89	46	67	-7	.1	-.8	.1	.9	24	11.6	76	85	31	0	0	2	0
SIoux CITY	79	54	87	45	66	-7	.1	-.9	.1	2.3	65	11.9	93	91	37	0	0	2	0
WATERLOO	74	51	81	41	63	-9	.5	-.5	.4	1.9	50	12.1	77	93	40	0	0	3	0
KS CONCORDIA	83	60	91	53	72	-5	T	-.9	T	6.4	167	16.1	119	89	40	1	0	2	0
DODGE CITY	81	61	91	58	71	-6	2.4	1.7	1.2	6.4	239	11.9	116	98	56	1	0	5	1
GOODLAND	82	57	95	52	70	-3	1.6	1.0	.8	6.7	275	10.7	128	96	46	1	0	4	1
TOPEKA	82	58	91	52	70	-6	.9	-.3	.9	3.3	72	15.7	98	95	43	1	0	1	1
WICHITA	85	63	97	57	74	-5	.8	-.1	.8	6.7	187	16.3	120	88	43	2	0	1	1
KY BOWLING GREEN	79	58	87	47	69	-8	1.6	.5	1.5	3.6	87	20.6	77	90	46	0	0	2	1
LEXINGTON	77	56	84	46	67	-7	.1	-.9	.1	7.4	193	24.4	102	89	48	0	0	2	0
LOUISVILLE	80	59	88	49	70	-6	.2	-.6	.2	3.1	95	18.8	82	88	42	0	0	1	0
LA ALEXANDRIA	90	72	93	60	81	-1	.6	-.3	.3	4.6	131	30.1	106	92	50	3	0	3	0
BATON ROUGE	92	71	96	66	81	0	.8	-.1	.6	10.3	382	36.5	133	89	51	5	0	2	1
LAKE CHARLES	91	74	94	70	82	1	2.2	1.3	2.0	7.3	199	36.2	149	97	61	4	0	4	1
NEW ORLEANS	92	71	94	68	82	0	T	-1.2	T	7.4	179	36.4	127	94	48	6	0	0	0

Based on 1951-80 normals.

Weather Data for the Week Ending June 27, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE	MAXIMUM	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	MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	89	69	95	60	79	-3	1.4	.6	1.4	3.7	120	26.8	112	92	51	3	0	2	1			
ME CARIBOU	65	53	76	45	59	-4	3.0	2.3	1.5	4.2	149	17.0	112	97	67	0	0	7	3			
PORTLAND	72	52	80	45	62	-3	.6	-1.1	.2	4.0	145	19.7	93	94	48	0	0	4	0			
MD BALTIMORE	80	55	85	46	68	-7	.4	-1.5	.3	1.2	35	14.2	71	92	48	0	0	2	0			
SALISBURY	77	57	85	46	67	-7	.8	-1.1	.4	2.9	92	17.2	83	98	55	0	0	3	0			
MA BOSTON	75	58	81	53	67	-4	1.1	.5	.6	4.6	176	17.3	80	87	42	0	0	4	1			
CHATHAM	71	57	74	54	64	0	.2	-1.5	.1	4.3	172	15.4	68	90	58	0	0	3	0			
MI ALPENA	66	43	71	35	55	-9	.2	-1.6	.1	1.6	57	10.2	78	98	44	0	0	2	0			
DETROIT	70	51	76	42	60	-10	.5	-1.3	.3	2.4	77	14.7	97	93	43	0	0	2	0			
FLINT	70	49	76	39	59	-9	.7	.0	.5	2.3	78	13.0	94	96	42	0	0	3	1			
GRAND RAPIDS	70	48	75	39	59	-11	.7	-1.8	.7	1.6	48	13.1	82	97	40	0	0	1	0			
HOUGHTON LAKE	66	46	71	34	56	-9	.2	-1.5	.1	1.9	67	10.0	78	95	44	0	0	2	0			
LANSING	69	47	74	34	58	-11	.2	-1.8	.1	2.0	57	14.2	99	98	43	0	0	3	0			
MARQUETTE	61	40	70	32	51	-11	.7	-1.9	.7	.6	17	11.0	62	85	44	0	1	0	0			
MUSKEGON	65	45	72	32	55	-13	.2	-1.4	.2	1.5	67	10.1	70	95	44	0	1	2	0			
SAULT ST. MARIE	65	42	70	31	53	-8	.0	-1.7	.0	1.0	34	10.5	74	86	45	0	1	0	0			
MN ALEXANDRIA	68	50	76	46	59	-8	.4	-1.5	.2	3.1	85	10.5	90	86	51	0	0	3	0			
DULUTH	62	42	71	30	52	-10	1.4	.4	.8	4.5	126	12.3	96	94	55	0	1	3	1			
INT'L FALLS	67	44	70	33	55	-8	1.1	.2	.4	2.0	62	8.5	84	94	44	0	0	5	0			
MINNEAPOLIS	70	51	76	39	60	-10	.7	-1.9	.7	3.5	94	9.4	76	92	39	0	0	1	0			
ROCHESTER	69	49	74	37	59	-10	.1	-1.8	.1	1.6	47	10.5	83	94	43	0	0	2	0			
MS GREENWOOD	88	64	96	55	76	-5	.2	-1.6	.2	6.1	205	20.8	71	92	43	3	0	1	0			
JACKSON	89	64	96	56	76	-4	.7	-1.7	.7	3.6	131	16.6	59	99	47	2	0	1	0			
MERIDIAN	88	65	95	56	77	-3	.0	-1.9	.0	7.3	235	29.8	102	90	40	2	0	0	0			
MO CAPE GIRARDEAU	84	60	94	48	72	-7	.8	-1.1	.8	2.9	92	16.3	69	87	42	1	0	1	1			
COLUMBIA	82	56	91	47	69	-7	.1	-1.1	.1	1.6	49	11.3	60	89	36	1	0	1	0			
KANSAS CITY	82	58	89	50	70	-8	1.1	.0	.7	3.9	91	16.8	98	94	43	0	0	2	1			
SAINT LOUIS	82	62	89	51	72	-5	.5	-1.4	.5	1.2	36	11.5	65	79	36	0	0	1	1			
SPRINGFIELD	82	58	90	52	70	-6	.9	-1.2	.7	5.5	130	15.3	77	93	48	1	0	2	1			
MT BILLINGS	86	58	91	57	72	5	.7	-1.4	.7	2.1	111	7.0	78	76	29	1	0	1	0			
GLASGOW	84	56	93	50	70	4	.2	-1.4	.2	2.3	100	4.0	72	79	26	1	0	1	0			
GREAT FALLS	85	56	91	50	70	6	.7	-1.5	.7	2.7	106	7.3	79	82	26	1	0	1	0			
HAVRE	86	57	92	53	72	6	.7	-1.4	.7	2.6	28	1.8	28	83	27	2	0	1	0			
HELENA	88	58	94	56	73	10	.1	-1.4	.1	1.7	92	3.9	60	73	25	2	0	1	0			
KALISPELL	88	56	92	50	72	11	.3	-1.2	.3	2.0	100	7.1	85	84	31	1	0	2	0			
MILES CITY	90	59	97	57	74	5	.7	-1.6	.7	2.9	29	4.9	61	71	22	4	0	0	0			
MISSOULA	91	56	95	50	74	11	.1	-1.3	.0	1.8	110	6.0	81	82	24	5	0	3	0			
NE GRAND ISLAND	81	56	87	46	69	-5	.2	-1.6	.1	5.3	160	15.4	122	90	46	0	0	3	0			
LINCOLN	84	56	91	44	70	7	.1	-1.7	.1	2.4	70	10.5	75	87	36	1	0	2	0			
NORFOLK	80	56	88	46	68	-5	.1	-1.9	.1	4.0	102	11.4	89	88	37	0	0	2	0			
NORTH PLATTE	81	57	90	44	69	-6	.6	-1.2	.2	2.6	78	11.3	106	96	44	1	0	5	0			
OMAHA	80	58	87	49	69	-6	.1	-1.9	.1	1.4	36	12.7	87	79	41	0	0	2	0			
SCOTTSBLUFF	84	56	90	50	70	-1	1.1	.5	.5	2.9	107	8.1	94	96	36	1	0	5	1			
VALENTINE	80	55	84	52	68	-3	.2	-1.5	.2	3.7	137	7.4	82	88	44	0	0	2	0			
NV ELY	83	43	89	38	63	1	.1	-1.1	.1	.6	83	3.8	76	65	19	0	0	1	0			
LAS VEGAS	100	73	105	69	86	0	.7	.0	.7	.1	180	6.7	380	33	12	7	0	0	0			
RENO	89	55	94	52	72	7	.4	.3	.4	1.1	367	2.5	58	71	15	4	0	1	0			
WINNEMUCA	91	54	101	46	72	6	.3	-1.1	.3	.4	44	1.8	39	70	21	5	0	1	0			
NH CONCORD	74	50	82	42	62	-5	.5	-1.2	.5	3.3	123	13.5	80	95	40	0	0	1	0			
NJ ATLANTIC CITY	76	53	83	39	65	-7	.1	-1.6	.1	3.6	146	13.5	69	95	49	0	0	1	0			
NM ALBUQUERQUE	91	59	93	55	75	-3	.1	-1.1	.0	.7	156	4.1	162	63	17	5	0	2	0			
CLOVIS	85	61	92	58	73	-3	1.4	.8	.7	3.4	144	12.7	189	86	41	2	0	5	1			
ROSWELL	91	64	96	60	78	-2	.5	-1.2	.2	2.2	254	9.3	292	76	33	5	0	2	0			
NY ALBANY	72	49	81	44	60	-9	.5	-1.2	.4	1.9	65	13.1	78	95	47	0	0	3	0			
BINGHAMTON	66	48	75	39	57	-10	.1	-1.7	.1	1.3	41	18.1	105	92	44	0	0	1	0			
BUFFALO	67	48	78	43	57	-11	.9	-1.3	.4	2.2	91	17.8	106	93	42	0	0	5	0			
NEW YORK	76	59	81	53	68	-6	.6	-1.1	.5	3.3	116	14.6	72	83	45	0	0	2	0			
ROCHESTER	68	48	77	41	58	-11	.8	-1.2	.5	2.0	78	15.1	101	95	49	0	0	3	0			
SYRACUSE	69	48	79	41	58	-10	1.0	.2	1.0	1.8	55	19.4	107	94	45	0	0	3	1			
NC ASHEVILLE	81	57	85	49	69	-3	.7	-1.2	.7	6.6	197	27.0	122	93	46	0	0	1	1			
CHARLOTTE	85	65	91	55	75	-2	.5	-1.3	.4	6.3	196	24.9	111	87	46	2	0	2	0			
GREENSBORO	82	59	89	47	71	-4	.3	-1.6	.2	2.7	76	20.2	97	91	47	0	0	2	0			
HATTERAS	82	65	86	50	74	-2	.3	-1.7	.3	.9	24	22.2	92	96	60	0	0	2	0			
NEW BERN	85	65	94	53	75	-2	.2	-1.1	.2	4.1	90	21.3	90	94	48	1	0	1	0			
RALEIGH	81	60	90	50	71	-5	1.3	.4	.9	5.0	153	18.5	90	96	56	1	0	4	1			
WILMINGTON	85	65	92	58	75	-3	1.1	.4	1.0	7.0	138	32.5	138	96	56	1	0	3	1			
ND BISMARCK	81	51	87	44	66	-1	.1	-1.6	.1	2.9	105	5.5	68	91	32	0	0	2	0			
FARGO	72	50	81	41	61	-7	.3	-1.4	.2	4.9	179	10.6	122	90	42	0	0	3	0			
GRAND FORKS	72	50	83	41	61	-5	.5	-1.2	.2	3.3	128	9.4	117	90	51	0	0	4	0			
WILLISTON	84	50	95	42	67	0	.1	-1.6	.0	.8	34	5.7	80	89	24	1	0	2	0			
OH AKRON-CANTON	69	50	80	38	59	-10	.6	-1.2	.5	1.6	54	16.1	90	94	47	0	0	2	1			
CINCINNATI	76	54	83	43	65	-8	.5	-1.5	.5	3.7	100	17.3	83	94	48	0	0	2	0			
CLEVELAND	69	50	79	39	59	-11	.4	-1.4	.3	2.7	85	18.5	106	93	47	0	0	4	0			
COLUMBUS	74	53	82	41	64	-9	.3	-1.6	.2	2.3	65	14.6	77	90	39	0	0	3	0			

Based on 1951-80 normals.

Weather Data for the Week Ending June 27, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																				90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	76	55	82	46	66	-8	T	-8	T	3.2	94	18.9	103	90	45	0	0	0	0	2	0		
TOLEDO	72	50	79	40	61	-9	-1	-7	-1	1.3	40	14.3	92	94	39	0	0	0	0	3	0		
YOUNGSTOWN	69	45	81	34	57	-11	-1	-5	-1	2.0	31	14.4	79	98	49	0	0	0	0	2	0		
OK OKLAHOMA CITY	85	65	95	59	75	-1	1.0	1.0	1.0	4.7	137	16.7	103	90	53	1	0	0	0	1	1		
TULSA	86	67	94	59	76	-4	-1	-1	-1	5.4	132	19.1	97	86	46	2	0	0	0	1	0		
OR ASTORIA	73	54	89	51	63	-9	1.2	1.1	1.1	3	12	24.5	69	95	51	0	0	0	0	2	1		
BURNS	89	55	98	49	72	-9	1.2	1.1	1.1	1.6	306	4.0	73	83	23	4	0	0	0	0	0		
MEDFORD	99	64	111	58	82	14	T	T	T	7	120	5.0	49	83	21	6	0	0	0	0	0		
PENDLETON	98	68	102	61	83	14	T	T	T	8	127	3.8	58	53	14	7	0	0	0	0	0		
PORTLAND	92	61	100	60	77	12	T	T	T	4	14	14.4	74	87	33	4	0	0	0	0	0		
SALEM	95	56	105	52	75	13	T	T	T	32	14.9	76	88	27	4	0	0	0	0	0	0		
PA ALLENTOWN	74	54	81	46	64	-8	-4	-4	-4	3.4	111	15.7	75	93	49	0	0	0	0	2	0		
ERIE	65	51	76	45	58	-9	-6	-3	-3	1.7	48	14.1	71	86	42	0	0	0	0	1	0		
HARRISBURG	74	55	81	46	65	-8	-1	-8	-1	2.0	61	13.8	71	86	42	0	0	0	0	1	0		
PHILADELPHIA	78	58	84	50	68	-6	-1	-1	-1	1.9	55	11.3	56	86	42	0	0	0	0	2	0		
PITTSBURGH	71	50	81	39	61	-9	-2	-7	-1	6	18	12.6	67	91	42	0	0	0	0	4	1		
SCRANTON	71	51	79	42	62	-8	-9	-1	-5	46	46	12.6	77	93	46	0	0	0	0	2	1		
RI PROVIDENCE	75	56	82	50	65	-4	1.0	4	8	4.3	173	19.0	86	91	42	0	0	0	0	3	1		
SC CHARLESTON	87	70	92	62	78	-1	-1	-1.5	-1	5.8	98	24.4	102	95	55	3	0	0	0	1	0		
COLUMBIA	89	65	95	59	77	-2	-2	-1.1	-1	5.6	140	21.3	85	96	45	5	0	0	0	0	0		
FLORENCE	87	66	94	60	77	-2	-1	-1.1	-1	4.1	98	16.5	77	96	45	2	0	0	0	3	0		
GREENVILLE	85	62	90	53	73	-4	-1	-1	-1	4.6	117	28.4	106	94	47	1	0	0	0	3	0		
SD ABERDEEN	77	52	81	44	64	-4	-2	-1	-1	3.5	119	6.3	66	89	40	0	0	0	0	3	0		
HURON	78	54	84	45	66	-4	-1	-1	-1	3.8	127	9.0	89	91	38	0	0	0	0	3	0		
RAPID CITY	81	54	85	52	67	-1	-2	-1	-1	2.0	70	7.6	79	90	39	0	0	0	0	1	0		
SIoux FALLS	78	55	83	45	66	-5	-1	-8	-1	1.9	58	10.6	89	86	37	0	0	0	0	2	0		
TN CHATTANOOGA	82	60	89	51	71	-6	6	-2	6	7.4	249	25.3	91	97	47	0	0	0	0	1	0		
KNOXVILLE	81	60	88	51	71	-6	1	-8	-1	3.1	87	19.6	77	97	52	0	0	0	0	2	0		
MEMPHIS	86	64	95	53	75	-5	1.6	8	1.5	7.3	229	23.5	83	86	42	2	0	0	0	1	0		
NASHVILLE	81	60	92	51	71	-7	5	-3	5	4.1	125	18.1	68	94	49	1	0	0	0	3	0		
TX ABILENE	90	69	97	64	80	-3	2.1	1.6	1.8	3.9	172	15.7	143	94	48	3	0	0	0	4	1		
AMARILLO	84	61	92	58	72	-5	2.1	1.3	1.0	7.5	240	14.2	158	97	49	2	0	0	0	4	2		
AUSTIN	93	73	95	69	83	0	1.6	1.0	1.6	4.9	178	32.7	206	93	50	7	0	0	0	1	1		
BRAUNTON	92	74	95	72	83	1	1.0	-2	6	9.2	212	37.7	151	97	60	6	0	0	0	3	1		
BROWNSVILLE	93	74	94	72	84	0	1.0	-6	0	1.5	61	16.8	178	95	48	7	0	0	0	0	0		
CORPUS CHRISTI	92	73	93	71	82	-1	1.0	-8	0	1.5	44	26.4	207	98	53	7	0	0	0	0	0		
DEL RIO	97	74	102	72	85	0	1	-3	0	2.6	166	16.2	217	69	32	7	0	0	0	2	0		
EL PASO	99	68	103	65	83	0	2	0	1	3	57	6.6	333	70	16	7	0	0	0	2	0		
FORT WORTH	89	70	96	68	80	-4	2.0	1.5	8	3.6	169	21.9	132	94	57	4	0	0	0	4	2		
GALVESTON	90	78	92	75	84	1	1	-8	-1	2.8	87	31.8	190	89	63	5	0	0	0	2	0		
HOUSTON	92	73	95	68	82	0	2	-8	-1	3.3	81	34.1	154	97	57	5	0	0	0	2	0		
LUBBOCK	89	64	97	61	77	-2	4	-2	2	3.6	145	14.9	185	97	39	2	0	0	0	5	0		
MIDLAND	91	66	96	63	79	-3	1	-2	1	2.1	164	15.5	276	92	38	5	0	0	0	1	0		
SAN ANGELO	96	70	102	65	83	0	1	-3	1	4.7	280	13.9	169	90	37	7	0	0	0	1	0		
SAN ANTONIO	95	75	96	71	85	1	0	-6	0	5.1	185	34.4	247	90	44	7	0	0	0	0	0		
VICTORIA	96	75	97	73	86	3	0	-1.0	0	1.3	32	36.7	218	96	46	7	0	0	0	0	0		
WACO	93	72	97	70	82	-1	1.3	8	5	2.7	115	24.7	149	95	55	6	0	0	0	6	0		
WICHITA FALLS	90	68	101	63	79	-4	2	-1	1	6.5	254	15.3	112	92	52	3	0	0	0	3	0		
UT CEDAR CITY	86	52	91	48	69	0	1	-1	1	3	77	5.2	110	56	19	1	0	0	0	2	0		
SALT LAKE CITY	91	62	97	58	77	5	1	-1	1	4	41	6.3	71	64	18	5	0	0	0	2	0		
VT BURLINGTON	69	50	81	43	59	-8	4	-5	2	1.7	52	12.0	81	98	45	0	0	0	0	3	0		
VA NORFOLK	80	64	87	55	72	-4	2	-7	2	2.2	71	16.1	78	92	51	0	0	0	0	1	0		
RICHMOND	79	58	85	48	69	-7	5	-5	2	2.3	71	19.9	101	96	53	0	0	0	0	3	0		
ROANOKE	77	57	82	46	67	-7	1.0	-2	8	6.4	213	26.1	135	91	49	0	0	0	0	4	1		
WA QUILLAYUTE	76	52	89	48	64	8	T	-6	T	8	30	49.0	91	94	46	0	0	0	0	0	0		
SEATTLE-TACOMA	87	60	92	55	73	12	T	-3	T	4	31	17.3	91	81	32	3	0	0	0	0	0		
SPOKANE	95	63	101	57	79	15	0	-2	0	1.2	106	6.4	72	63	18	7	0	0	0	0	0		
YAKIMA	99	62	105	56	81	14	0	-1	0	T	8	2.1	50	66	18	7	0	0	0	0	0		
WV BECKLEY	72	52	77	38	62	-6	5	-5	2	3.4	97	19.6	92	92	53	0	0	0	0	4	0		
CHARLESTON	77	54	83	40	65	-8	1.2	4	1.2	2.9	101	20.0	96	96	51	0	0	0	0	4	1		
HUNTINGTON	77	55	83	42	66	-8	1	-8	1	3.1	103	18.7	91	93	47	0	0	0	0	2	0		
PARKERSBURG	76	52	85	39	64	-9	T	-9	T	3.1	89	16.1	83	95	43	0	0	0	0	0	0		
WI GREEN BAY	66	45	73	37	55	-12	6	-1	2	1.5	52	9.8	77	95	46	0	0	0	0	5	0		
LACROSSE	71	50	77	40	61	-10	2	-7	2	9	25	11.0	78	88	43	0	0	0	0	1	0		
MADISON	71	46	81	36	59	-10	1	-8	1	1.5	44	9.9	69	91	40	0	0	0	0	2	0		
MILWAUKEE	64	50	73	42	57	-11	T	-8	T	3.1	96	11.4	77	87	47	0	0	0	0	3	0		
WAUSAU	65	44	71	36	55	-12	3	-6	2	1.4	39	12.2	87	98	53	0	0	0	0	3	0		
WY CASPER	83	54	90	49	69	3	3	-1	2	7	61	4.6	68	86	31	2	0	0	0	4	0		
CHEYENNE	76	53	84	49	64	0	7	3	5	1.8	101	6.2	86	89	41	0	0	0	0	5	1		
LANDER	82	55	90	52	69	3	4	-2	2	1.1	87	7.2	85	82	28	1	0	0	0	2	0		
SHERIDAN	83	54	87	50	69	4	T	-5	T	3.1	149	7.6	84	89	36	0	0	0	0	0	0		

Based on 1951-80 normals.

National Agricultural Summary

June 22 - 28, 1992

HIGHLIGHTS: Cold weather in the Great Lakes and Ohio Valley caused freeze damage to some field crops and fruit. Active storm systems dropped hail in the Pacific Northwest, Rocky Mountains, Ohio Valley, and central Atlantic coast. Heavy rains slowed activities in northern Texas, Oklahoma, and Florida.

SMALL GRAINS: Winter wheat condition showed a slight improvement for the 19 major producing States, as some additional rainfall was received in the Central States. Good progress was made harvesting winter wheat in California, the central and southern Plains, and the Southeast. Harvest reached 34 percent (%) complete in the 19 major producing States, 23 percentage points behind last year and 14 points behind the 5-year average, due primarily to earlier rain delays. Spring wheat condition suffered from dry weather in eastern Montana and western North Dakota, showed little change in Idaho, and continued to improve in Minnesota and South Dakota. Spring wheat heading was well advanced in South Dakota and extended to 53% in the five major States, 7 points behind last year and 3 points behind the average. Heading of spring-seeded barley and oats continued to advance in the Rocky Mountains, and was well along from the Mississippi Valley eastward. Harvest of spring-seeded grains advanced in the southern and central Atlantic Coast States.

CORN: Crop condition deteriorated for the 17 major producing States, as low temperatures caused freeze damage to some acreage in the Great Lakes and eastern Corn Belt. Wisconsin showed the largest drop in condition ratings, with 27% of the acreage rating very poor or poor, compared with 9% the previous week. Corn silking was advancing in Texas and the Southeast, and beginning as far north as Missouri and Illinois. Silking was evident on 3% of the acreage in the 19 major producing States, compared with 9% last year and 5% average.

SOYBEANS: Soybean condition rated a little lower in the 19 major producing States due to the colder weather in the Mississippi Valley. The most significant declines were recorded in Minnesota and Missouri. Planting was 95% complete in the major States, 1 point behind last year and matching the historic average. Planting was complete in the northern producing States, but continued in the southern producing States, where planting of second-crop acreage awaits completion of first-crop harvests.

COTTON: Cotton condition showed a slight improvement in the 14 major States, with higher ratings in Arkansas, Georgia, New Mexico, and Tennessee more than offsetting declines in Alabama, Missouri, and the Carolina's. Extensive acreage in New Mexico and Texas, however, remained in poor or very poor condition due to earlier rain and hail damage. Cotton squaring advanced to 45%, 2 points ahead of last year, but 2 points behind the historic average. The crop was advancing well ahead of schedule in the Delta, but was behind in the southern Atlantic Coast States. Bolls were setting on 7% of the acreage, matching last year's progress, but lagging the average by 2 points. Spraying for boll weevils continued in Arkansas, as trap counts remained high.

GRAIN SORGHUM: Grain sorghum condition showed little change for the 12 major producing States,

with lower ratings in the middle and lower Mississippi Valley being offset by improvements in Colorado, New Mexico, and Illinois. Planting reached 92% complete in the 12 major States, compared with 95% last year and the 93% average. Planting was complete in the southern Mississippi Valley and nearing completion in the other major States. Planting increased on the Texas Plains, however, due to replacement of failed cotton acreage.

RICE: Rice condition continued to show improvement in the five major producing States, with ratings of mostly good in each of the States. Crop condition showed significant improvement in response to good weather in Arkansas and Mississippi. Water weevil were becoming a problem in southeastern Arkansas, and blast and sheath blight were becoming common in southwestern Louisiana.

OTHER FIELD CROPS: The first cutting of hay was nearly complete in the Midwest and the second cutting was progressing. The first cutting was in full swing in the northern Rocky Mountains. Summer potato harvest started in California's Perris-Hemet district, and spring potato digging continued in the Kern-Tulare district. Early-potato fields in Washington were being sprayed to kill the vines. Sugar beet thinning was virtually completed in the Rocky Mountains. Tobacco harvest continued in Florida and Georgia. Sweetpotato planting was well along in the southern Delta. Peanuts were pegging in the Southeast, while planting continued in Texas and Mississippi. Some replanting was necessary in Texas due to flooding.

FRUIT AND NUTS: Frost damaged some young fruit in the Great Lakes and Ohio Valley. Freestone peaches and nectarines were almost half picked in California. California's plum, apricot, pear, and Valencia orange harvests continued. Florida citrus responded to rains with good growth, while the Valencia harvest was ending. Georgia's peach harvest continued with the crop in good condition. Cherry picking was nearing completion in the Pacific Northwest.

VEGETABLES: Arizona's melon, onion, and cabbage harvests continued. California broccoli, cauliflower, carrot, celery, sweet corn, lettuce, and melon harvests remained active. California's Desert region melon harvest was nearly finished, as heavy whitefly populations increased. Fresh market tomato picking was active in the central San Joaquin Valley. Northern Florida tomato and watermelon harvests got underway, while pepper, cucumbers, and sweet corn harvesting continued. Cucumber and snap bean harvests were beginning in Maryland and Delaware.

PASTURES AND LIVESTOCK: Lack of moisture from the Pacific Northwest to the Great Plains, coupled with high temperatures, further contributed to the deterioration of ranges and pastures. High insect populations were adversely affecting Texas cattle.

Crop Progress

for the Week Ending June 28, 1992

COTTON (Percent Squaring)

	Current	Last Wk	1991	Avg.
AL	69	54	68	74
AZ	88	78	75	91
AR	76	45	70	69
CA	65	45	60	60
GA	45	33	78	71
LA	89	86	64	64
MS	80	61	43	68
MO	48	14	51	61
NM	51	48	59	57
NC	27	5	67	44
OK	19	10	6	8
SC	32	16	71	51
TN	44	20	26	45
TX	23	20	27	30
14 States	45	34	43	47

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

COTTON (Percent Setting Bolls)

	Current	Last Wk	1991	Avg.
AL	4	NA	3	10
AZ	25	NA	18	50
AR	2	NA	0	2
CA	1	NA	0	3
GA	5	NA	17	21
LA	15	NA	4	9
MS	9	NA	0	7
MO	0	NA	0	6
NM	0	NA	5	1
NC	2	NA	5	4
OK	0	NA	0	0
SC	0	NA	0	0
TN	0	NA	0	0
TX	8	NA	11	11
14 States	7	NA	7	9

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

SPRING WHEAT (Percent Headed)

	Current	Last Wk	1991	Avg.
ID	66	54	22	40
MN	57	26	87	74
MT	44	25	32	42
ND	45	21	57	50
SD	91	74	90	86
5 States	53	30	60	56

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

GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1991	Avg.
AR	100	100	99	98
CO	90	81	86	91
IL	99	98	100	94
KS	85	65	95	90
LA	100	99	90	97
MS	100	100	90	100
MO	100	95	97	95
NE	100	100	100	100
NM	86	79	92	NA
OK	89	80	92	91
SD	96	90	91	94
TX	93	88	94	96
12 States	92	83	95	NA
Excl. states with NA	92	83	95	94

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

CORN (Percent Silking)

	Current	Last Wk	1991	Avg.
CO	0	NA	0	0
GA	88	NA	94	91
IL	1	NA	16	6
IN	0	NA	20	0
IA	0	NA	0	0
KS	5	NA	15	5
KY	5	NA	25	9
MI	0	NA	4	1
MN	0	NA	0	0
MO	6	NA	19	8
NE	0	NA	0	1
NC	24	NA	61	33
OH	0	NA	0	0
PA	0	NA	0	0
SD	0	NA	0	0
TX	56	NA	70	64
WI	0	NA	0	0
17 States	3	NA	9	5

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

WINTER WHEAT (Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	92	55	95	93
CA	60	45	50	56
CO	1	0	0	0
GA	91	64	98	98
ID	0	0	0	0
IL	15	2	78	59
IN	9	2	58	35
KS	40	10	80	60
MI	0	0	0	0
MO	26	15	86	62
MT	0	0	0	0
NE	0	0	17	15
NC	54	25	96	77
OH	1	0	60	15
OK	80	45	89	89
OR	2	0	0	0
SD	0	0	0	0
TX	54	38	78	71
WA	1	0	0	0
19 States	34	17	57	48

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

SOYBEANS (Percent Planted)

	Current	Last Wk	1991	Avg.
AL	93	84	82	84
AR	85	71	86	85
GA	84	77	95	91
IL	99	99	100	99
IN	99	99	99	97
IA	100	100	100	100
KS	85	75	96	90
KY	85	68	89	82
LA	94	87	66	83
MI	100	100	99	98
MN	100	99	100	100
MS	87	81	74	81
MO	91	85	92	88
NE	100	100	100	100
NC	76	70	92	83
OH	100	99	100	97
SC	77	61	88	86
SD	100	100	100	100
TN	88	70	74	82
19 States	95	92	96	95

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

SOYBEANS (Percent Blooming)

	Current	Last Wk	1991	Avg.
AL	2	NA	0	0
AR	4	NA	0	1
GA	6	NA	6	6
IL	7	NA	40	21
IN	1	NA	15	0
IA	2	NA	0	6
KS	5	NA	15	5
KY	2	NA	3	4
LA	3	NA	0	2
MI	0	NA	0	0
MN	0	NA	0	0
MS	3	NA	0	3
MO	2	NA	2	4
NE	1	NA	5	4
NC	0	NA	0	0
OH	9	NA	40	8
SC	0	NA	0	0
SD	4	NA	9	9
TN	5	NA	0	0
19 States	3	NA	12	6

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

**Crop Condition
(Percent)**

for the Week Ending June 28, 1992

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	0	8	67	25
CA	0	0	10	70	20
CO	8	11	37	38	6
GA	0	9	42	49	0
ID	4	14	24	54	4
IL	10	7	35	45	3
IN	3	17	50	29	1
KS	11	22	41	19	7
MI	1	9	30	50	10
MO	4	8	55	25	8
MT	16	30	30	20	4
NE	15	31	41	13	0
NC	0	1	21	67	11
OH	3	11	35	44	7
OK	0	7	47	46	0
OR	6	23	51	20	0
SD	15	28	37	20	0
TX	1	3	40	50	6
WA	0	59	29	12	0
19 State	6	16	40	33	5
Prev Week	7	16	41	32	4
Prev Year	6	13	42	33	6

SOYBEANS

State	VP	P	F	G	EX
AL	0	0	23	77	0
AR	0	5	24	71	0
GA	0	0	38	60	2
IL	0	9	62	29	0
IN	0	6	47	45	2
IA	1	4	37	53	5
KS	1	7	12	65	15
KY	0	1	21	77	1
LA	0	2	66	32	0
MI	2	8	30	45	15
MN	1	8	42	46	3
MS	0	0	46	50	4
MO	5	9	63	22	1
NE	0	1	18	79	2
NC	0	1	17	81	1
OH	2	6	32	48	12
SC	0	0	44	56	0
SD	1	2	23	67	7
TN	0	1	27	70	2
19 State	1	5	41	49	4
Prev Week	1	4	40	50	5
Prev Year	1	3	28	60	8

CORN

State	VP	P	F	G	EX
CO	2	4	28	54	12
GA	0	2	19	57	22
IL	0	3	61	35	1
IN	2	7	35	52	4
IA	2	4	34	50	10
KS	6	1	28	53	12
KY	0	1	14	66	19
MI	5	10	30	45	10
MN	1	8	40	46	5
MO	2	10	61	26	1
NE	0	7	26	64	3
NC	0	0	17	68	15
OH	1	6	28	50	15
PA	1	6	20	54	19
SD	1	4	32	56	7
TX	0	0	12	58	30
WI	13	14	50	23	0
17 State	2	6	37	48	7
Prev Week	0	6	35	52	7
Prev Year	0	4	21	57	18

COTTON

State	VP	P	F	G	EX
AL	0	2	23	66	9
AZ	0	0	12	63	25
AR	0	0	39	61	0
CA	0	0	5	80	15
GA	0	3	66	31	0
LA	0	2	29	59	10
MS	0	4	38	54	4
MO	0	0	85	15	0
NM	18	40	24	18	0
NC	0	13	55	29	3
OK	0	7	62	31	0
SC	0	1	64	35	0
TN	0	0	63	37	0
TX	17	28	44	9	2
14 State	8	14	42	32	4
Prev Week	10	13	41	33	3
Prev Year	1	5	46	45	3

GRAIN SORGHUM

State	VP	P	F	G	EX
AR	0	8	41	47	4
CO	0	3	29	56	12
IL	0	4	27	69	0
KS	0	6	35	49	10
LA	0	0	55	45	0
MS	0	0	48	52	0
MO	1	13	64	21	1
NE	0	5	31	63	1
NM	0	0	33	64	3
OK	0	1	12	87	0
SD	0	1	54	43	2
TX	0	3	31	52	14
12 State	0	5	35	52	8
Prev Week	1	5	33	53	8
Prev Year	0	1	22	62	15

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

SPRING WHEAT

State	VP	P	F	G	EX
ID	7	12	23	53	5
MN	0	3	33	59	5
MT	14	22	34	22	8
ND	0	9	31	51	9
SD	1	12	43	42	2
5 State	3	11	33	46	7
Prev Week	2	9	34	48	7
Prev Year	0	3	13	67	17

RICE

State	VP	P	F	G	EX
AR	0	5	32	63	0
CA	0	0	10	85	5
LA	0	0	46	54	0
MS	0	0	33	67	0
TX	0	0	21	56	23
5 State	0	2	31	64	3
Prev Week	0	0	39	56	5
Prev Year	1	0	28	67	4

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall mostly 0.50 to 2.00 in. north, southeast; over 5.00 in. isolated areas; little to none elsewhere. Temperatures near normal extreme south; 3 to 6° below normal central, south; 4 to 7° below normal north.

Days suitable for fieldwork 6.3. Soil moisture 38% short, 60% adequate, 2% surplus. Corn 58% silked, 70% 1991, 73% avg.; 11% dented, 12% 1991, 11% avg.; 25% fair, 48% good, 27% excellent. Sorghum 90% planted, 87% 1991, 88% avg.; 22% fair, 78% good. Peanuts 39% pegging, 31% 1991, 41% avg.; 54% fair, 46% good. Winter wheat 84% harvested, 92% 1991, 87% avg. First hay 95% harvested, 91% 1991, 92% avg. Pasture 7% poor, 33% fair, 51% good, 9% excellent. Livestock 17% fair, 72% good, 11% excellent. Primary activities: Harvesting wheat, hay, sweet corn, potatoes, fruits, vegetables; cultivating row crops; planting soybeans, sorghum; scouting fields for insects, diseases; applying fungicides, herbicides, insecticides to crops, vegetables; spraying cattle; general care of livestock, poultry, catfish.

ALASKA: Rain showers delayed haying activities in central, southern areas of the Railbelt while in the northern region hot, dry weather permitted cutting. Highs 9° below normal to 2° above normal. Lows 1° below normal to 6° above normal. Seasonal precipitation 1.67 in. wetter than normal at Fairbanks to 0.54 in. drier than normal at Kenai.

Days suitable for fieldwork 3.0. Topsoil 25% short, 74% adequate, 1% surplus. Subsoil 20% short, 78% adequate, 2% surplus. Small grain pre boot stage, heights 2 to 12 in. First cutting hay underway on a few farms versus 25% complete 1991. Commercial potato heights: 1 to 10 in. Crop growth; 18% slow, 65% moderate, 17% rapid.

ARIZONA: Breezy, cloudy 21st to 24th. Sunny, hot 25th to 28th. Temperature 4° below normal to 5° above normal. Extremes 37°; 101° higher elevations, 55°; 112° deserts. Precipitation mainly mountains, southeast, trace to 0.43.

Cotton squaring 88%, 75% 1991, 91% avg.; setting bolls 25%, 18% 1991, 50% avg.; 12% fair, 63% good, 25% excellent; weeds, insects, mostly light. Alfalfa good to excellent; insects mostly light statewide, weeds light to moderate; harvest, moderate to active. Small grains harvested 93%, 81% 1991, 91% avg. Oranges, grapefruit, cantaloupe, watermelon, honeydews, grapes harvested west, central. Potatoes, mixed vegetables harvested, central. Dry onions, cabbage harvested central, east.

ARKANSAS: Temperatures little below normal, scattered showers mid week, heaviest northeast. Extremes 45°; 95°. Rainfall none to 1.95.

Days suitable for fieldwork 6. Soil moisture 15% short, 76% adequate, 9% surplus. Main farming activities: Planting, applying herbicide, fertilizer to rice, harvesting wheat, oats, scouting, cultivating cotton, weevil treatment, pasture weed control, hay harvesting, harvesting fescue seed, working cattle. Rice mostly fair to good. Mid season nitrogen being applied in east central. Some problems with rice water weevil in southeast. Wheat mostly good. Wheat harvesting nearing end. Yields, quality reported good to excellent statewide. Cotton mostly fair to good. Spraying for boll weevils continue as trap counts

remain at a very high level. Producers began center pivot irrigation on cotton. Soybeans emerged 74%, 73% 1991, 73% avg. Plantings progressing as wheat is harvested. Some fields flooded in east. Grain sorghum headed 10%, 9% 1991, 6% avg. Corn 3% poor, 76% good, 21% excellent. Oat harvested nearing end, 91% harvested, 96% 1991, 93% avg. Peach harvest continuing in west central. Peach fair to good. Watermelon harvest began in southwest; mostly good. Tomatoes good. Blueberries, grapes good. Livestock good. Producers continue seasonal spraying for ticks, flies. Pastures mostly good. Hay harvesting accelerating with drying conditions.

CALIFORNIA: Temperatures continued above normal early in week. Low pressure off central coast brought cooling, thunderstorms, mid week.

Open weather permitted good progress field activities. Small grain harvest active. Straw baling, stubble burning, discing followed harvest. Corn, cotton, rice, safflower growth improved, warmer temperatures. Cotton irrigated, treated lygus, mites, pink boll worm, weeds, whitefly. Rice fertilized, sprayed broadleaf weeds, water weevils. Seeding completed. Alfalfa, small grains cut hay, green chopped. Alfalfa treated insects. Corn sprayed mite control. New sugarbeets irrigated, thinned. Bermuda grass seed, garbanzo beans, over wintered sugarbeets harvested. As stonefruit harvest continued, growers treated with pesticides, fungicides. Freestone peach crop almost half picked. About 40% nectarines picked. Plum harvest one third complete. Apricot harvest continued. Early Bartlett pears shipped Lodi. Desert table grape harvest slowing. Vineyards treated mildew, insects. Valencia orange harvest continued, approximately 30% picked. Cool weather good for avocados. Strawberry harvest continued, light demand, variable quality central coast. Broccoli moderate good quality Salinas Watsonville, Santa Maria. Cauliflower fairly light, good quality Salinas Watsonville; variable quality Santa Maria. Carrot harvest started westside area, movement continued steady Kern district. Celery moderate good quality Salinas Watsonville, moderate Santa Maria variable quality. Harvest continued steady Oxnard. Sweet corn harvest continued statewide, good quality. Iceberg lettuce moderate variable quality central coast. Leaf, Romaine lettuce moderate variable quality Salinas Watsonville. Cantaloupe, honeydew, watermelon, mixed melons continued westside, desert areas good quality. Melon harvest nearly finished desert areas as heavy whitefly population settled in. Spring onion packing continued central valley, desert growing areas. Harvest of onions for dehydration about done Imperial Valley. Summer potato harvest started Perris Hemet district good quality. Digging spring potatoes continued Kern Tulare district. Fresh market tomato picking active central valley areas. Processing tomato harvest winding down desert, central valley fields continued to mature well. Other vegetables harvested: Beans, cucumbers, garlic, peppers, various oriental vegetables. Range, pasture poor to good most areas. Remained poor northeast. Fire hazard present. Water supplies adequate, critical some areas. Supplemental feeding continued light to moderate. Cattle grazing sugarbeets. Sheep good. Bees pollinate seed alfalfa, melon fields.

COLORADO: Severe weather was a daily occurrence on the eastern plains 22th to 28th. Severe thunderstorm or tornado watches were reported somewhere in the eastern plains each day. Large hail, locally heavy rain some areas. Temperatures within 1 to 2° of normal.

Days suitable for fieldwork 4.7. Soil moisture 2% very short, 27% short, 63% adequate, 8% surplus. Alfalfa 1st cutting 76%, 51% 1991, 68% avg. Barley headed 48%, 42% 1991, 55% avg. Oats headed 65%, 62% 1991, 52% avg. Spring wheat headed 39%, 19% 1991, 25% avg. Dry beans planted 91%, 90% 1991, 95% avg.; emerged 73%. Sorghum planted 90%, 86% 1991, 91% avg.; emerged 80%. Fall potatoes emerged 100%, 62% 1991, 84% avg. Winter wheat turning color 83%, 63% 1991, 67% avg.; ripe 21%. Winter wheat 8% very poor, 11% poor, 37% fair, 38% good, 6% excellent. Harvest just underway in south eastern area. Sugarbeets thinned 99%, 89% 1991, 91% avg. Corn 2% very poor, 4% poor, 28% fair, 54% good, 12% excellent. Livestock mostly good. Pasture, range feed improved to good to excellent.

FLORIDA: Heavy rainfall especially in Peninsula south of Orlando. Extensive showers, thunderstorms. Scattered precipitation north. Rainfall varied; less than 0.50 in. western Panhandle to over 4.00 in. northeast coast. Central Peninsula 2.00 to 5.00 in. rainfall. South of Orlando, rainfall 6.00 to 12.00 in. common with Bradenton over 16.50 in. Temperatures 80s in rain areas, low to mid 90s elsewhere. Morning lows; upper 60s north, low 70s south.

Soil moisture adequate to surplus, except for scattered areas where moisture is short. Heavy rains caused flooding on both coasts in central Peninsula. Soybean planting active. Haying, tobacco harvest active. Cotton, corn, peanuts, sugarcane making good progress. Hard rains most citrus areas, 5.00 to 10.0 in. many groves. Abundant new foliage. Good progress on new crop fruit. Valencia harvest all but over. Limited grove activities. Some caretakers cutting cover crops. Summer weather prevailed over major vegetable producing areas. Showers, thunderstorms common. Tomato, watermelon harvesting underway north. Pepper, cucumbers, watermelon, sweet corn harvesting continues, squash harvesting finishing north. Sweet corn, pepper supplies decreasing. Season complete for most crops central. States pastures fair to excellent. Pasture 20% fair, 55% good, 25% excellent. Moisture levels mostly adequate to surplus. States cattle herds fair to good.

GEORGIA: Temperatures normal south, 1 to 3° below normal central, north. Unseasonably cool beginning week, warmed above normals latter half. Extreme lows, lower to mid 60s, mid 40s mountains, 70 south. Highs upper 80s mountains, mid 90s central, south. Rain 1 to 3 days Statewide, 0.50 to 2.00 in. Exceptions 8.36 in. Doctortown, 6.61 in. Jesup, 4.98 in. Savannah.

Days suitable for fieldwork 5.9. Soil moisture 1% very short, 43% short, 51% adequate, 5% surplus. Corn 41% dough, 79% 1991, 65% avg.; 10% dent, 46% 1991, 28% avg.; 0% mature, 9% 1991, 3% avg.; Moisture needed dryland fields many areas. Cotton development about two weeks behind normal. Sorghum 42% fair, 58% good; 92% planted, 96% 1991, 94% avg. Peanuts 35% fair, 64% good, 1% excellent; 78% blooming, 86% 1991, 86% avg.; 29% pegging, 48% 1991, 49% avg.; disease, weed, insect problems some areas. Soybean planting several days behind normal. Tobacco 16% fair, 78% good, 6% excellent; 7% harvested, 23% 1991, 15% avg. Wheat test weights lowered by frequent rains. Other small grains 13% poor, 41% fair, 46% good. Watermelons 9% poor, 57% fair, 34% good; 19% harvested, 50% 1991, 40% avg. Other vegetables 3% poor, 51% fair, 44% good, 2% excellent; harvest active southern

area. Apples 2% fair, 98% good. Peaches 1% very poor, 2% poor, 6% fair, 91% good; 62% harvested, 75% 1991, 72% avg. Hay, pasture fair to good, mostly good. Cattle, hogs good. Irrigating corn, harvesting hay, small grain straw.

HAWAII: High pressure system north of the island chain brought gusty trade winds, rainfall. Many crop areas benefitted from rain showers, others continued to depend on irrigation to maintain adequate crop development. Temperatures high 60s to high 80s with warm days, cool nights. Rainfall none to 3.30 in.

Days suitable for fieldwork 7.0. Banana production steady, papaya output increased. Sweet corn harvesting active, moderate to heavy picking. Watermelon crop made good progress. Sugarcane, pastures benefitted from rain.

IDAHO: Temperatures above normal. Precipitation fell, with the north recording the greatest amounts.

Days suitable for fieldwork 6. Soil moisture 36% very short, 37% short, 27% adequate. Spring barley headed 65%, 22% 1991, 41% avg. Sugarbeets thinned 99%, 99% 1991, 98% avg. Potatoes 67% over twelve inches, 21% closing middles. Potato good. First cutting alfalfa 91%, 71% 1991, 75% avg. Dry beans emerged 95%, 94% 1991, 96% avg. Cherries harvested 80%, 4% 1991, 48% avg. Irrigation water supplies 20% very poor, 28% poor, 30% fair, 22% good. Activities: Cultivating, cutting alfalfa, irrigation, preparation of harvest machinery. Pasture, range 59% of normal. Livestock good.

ILLINOIS: Cool Canadian type air brought lower than normal temperatures. Temperatures mid 50s to low 80s. Precipitation mostly less than 0.20 in.

Days suitable for fieldwork 6.5. Soil moisture 91% short, 9% adequate. Corn average height 31 in., 53 in. 1991, 43 in. avg. Average height advanced 46 in., 71 in. 1991, 59 in. avg. Soybeans setting pods 1%, 8% 1991, 2% avg. Winter wheat turning yellow 98%, 100% 1991, 99% avg.; ripe 51%, 99%, 1991, 87% avg. Alfalfa second cutting 22%, 47% 1991, 35% avg.; 30% good, 53% fair, 14% poor, 3% very poor. Red clover cut 91%, 89% 1991, 84% avg. Oats headed 96%, 98% 1991, 96% avg.; filled 57%, 93% 1991, 78% avg.; turning yellow 14%, 68% 1991, 43% avg.; 1% excellent, 43% good, 51% fair, 5% poor. Pasture 66% of normal.

INDIANA: Temperatures 3 to 10° below normal. Highs low 70s to low 80s. Lows, low 50s to around 60. Precipitation 0.10 to 1.00 in. Precipitation spotty, more south, less north. Frost north, west central areas.

Days suitable for fieldwork 5.0. Topsoil 31% short, 58% adequate, 11% surplus. Subsoil 42% short, 55% adequate, 3% surplus. Corn height 30 in., 50 in. 1991, 37 in. avg. Soybean height 9 in., 13 in. 1991, 10 in. avg. Wheat turned color 78%, 98% 1991, 98% avg. Wheat ripe 25%, 95% 1991, 61% avg. Oats headed 90%, 100% 1991, 85% avg. Alfalfa hay 1st cutting 99%, 100% 1991, 97% avg. Pasture 81%, 82% last week, 77% 1991. Farmers are estimating their crop damage, some are replanting an alternate crop.

IOWA: Temperatures 4 to 7° below normal. Extremes 40°; 89°. Precipitation none to 1.52 in.; average 0.25 in., normal 1.02 in.

Days suitable for fieldwork 6.3. Topsoil 70% short, 30% adequate. Subsoil 34% short, 66% adequate. Winter wheat 16% very poor, 20% poor, 50% fair, 14% good. Hay 4% very poor, 28% poor, 42% fair, 24% good, 2% excellent. Oats 2% very poor, 7% poor, 44% fair, 42% good, 5% excellent. Pasture 12% very poor, 32% poor, 34% fair, 20% good, 2% excellent. Corn cultivated first time 90%, 80% 1991, 87% avg. Soybeans cultivated first time

65%, 54% 1991, 69% avg. Oats headed 93%, 92% 1991, 96% avg.; turning color 10%, 44% 1991, 37% avg. First cutting alfalfa 99% harvested, 95% 1991, 94% avg. First cutting clover 80% harvested, 78% 1991, 78% avg. Livestock mostly good.

KANSAS: Temperatures 1 to 6° below normal; 6° below normal northeast, 5° below normal southwest, south central, 1° below normal northwest. Temperatures remaining areas 4° below normal. Precipitation all districts. Rainfall 0.46 in. northeast to 1.64 in. southwest.

Days suitable for fieldwork 4.5. Surface moisture 11% short, 71% adequate, 18% surplus. Subsurface moisture 25% short, 69% adequate, 6% surplus. Wheat mostly fair to poor. Wheat harvest progressed considerably despite scattered rains. Weeds are becoming a problem. Sorghum, soybean planting progressed, slowed by wet fields. Pasture good. Pastures fair northwest, southwest, good elsewhere. Stockwater adequate over State. Virtually all alfalfa cut first time. Thirty percent cut second time.

KENTUCKY: Temperatures below normal, highs 70s. Lows, low to mid 40s. Temperatures near normal 26th, 5 to 10° below normal. Rainfall 0.25 to 1.50 in. southeast.

Days suitable for fieldwork 4.1. Soil moisture 1% very short, 13% short, 61% adequate, 25% surplus. Cool temperatures limited crop growth. Tobacco 1% very poor, 6% poor, 49% fair, 42% good, 2% excellent. Blue mold, angular leaf spot, black shank on tobacco in many areas. Emerged soybeans 1% poor, 21% fair, 77% good, 1% excellent. Wheat harvested increased dramatically, 60% complete. Pasture mostly good to excellent.

LOUISIANA: Temperatures 0.2 to 4.5° below normal. Extremes 56°; 96°. Rainfall 0.06 in. southeast to 1.60 in. southwest.

Days suitable for fieldwork 5.5. Soil moisture 3% very short, 12% short, 73% adequate, 12% surplus. Corn 10% fair, 87% good, 3% excellent; 99% silked, 97% 1991, 87% avg; 62% dough stage, 60% 1991, 46% avg. 3% mature, 3% 1991, 2% avg. Hay 90% first cutting, 54% 1991, 77% avg. Peaches 2% poor, 74% fair, 23% good, 1% excellent; 64% harvested, 41% 1991, 41% avg. Rice 40% headed, 20% 1991, 17% avg. Blast, sheath blight becoming common, southwest. Sorghum 98% emerged, 86% 1991, 95% avg.; 36% headed, 34% 1991, 20% avg. Soybeans 87% emerged, 56% 1991, 74% avg. Weed control active. Sugarcane 3% fair, 58% good, 39% excellent. Sweet potatoes 21% fair, 79% good; 84% planted, 80% 1991, 85% avg. Wheat 99% harvested, 97% 1991, 96% avg. Livestock 18% fair, 71% good, 11% excellent. Pastures 1% poor, 5% fair, 94% good. Vegetables 7% poor, 37% fair, 48% good, 8% excellent. Scouting for insects, weed active in cotton.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.77 in. Temperature 66.7°, normal 73.7°. Extremes 39°; 89°.

Days suitable for fieldwork 5.2. Topsoil 5% very short, 27% short, 59% adequate, 9% surplus. Subsoil 19% short, 81% adequate. Soybeans 78% planted, 84% 1991, 76% avg.; balance awaiting small grain harvest. Sorghum 98% seeded, 97% 1991. Small grains good, remain 10 to 14 days late; barley 60% harvested, 96% 1991, 79% avg. wheat 85% turned, 100% 1991, 99% avg.; harvest 4%, 65% 1991, 35% avg. Pastures mostly excellent. Active cutting, baling hay. Alfalfa second cutting 23%. Tobacco 93% transplanted, 97% 1991, 96% avg. Some strawberries still available. Apples, peaches good; fruit near normal. Cucumber, snap bean harvest early stages. Most crops need warmer temperatures. Scattered wind, hail damage. Slugs on young corn, Mexican bean beetles on snap beans.

DELAWARE: Precipitation 0.69 in. Temperature 65.6°, normal 74.3°. Extremes 44°; 82°.

Days suitable for fieldwork 6.6. Topsoil 43% short, 57% adequate. Subsoil 17% short, 83% adequate. Soybeans 75% planted, 84% 1991, 80% avg. Small grains good, barley 81% harvested, 97% 1991, 75% avg. Rye, wheat harvest beginning. Planting lima, snap beans; green pea harvest past mid point. Almost all hay fields have been cut once, second cutting 30% on alfalfa; some problems curing with scattered showers. Scattered wind, hail damage to wheat, corn. Potatoes, some corn laid by.

MICHIGAN: Temperatures 8 to 13° below normal. Extremes 29°; 79°. Precipitation none to 1.34 in.

Days suitable for fieldwork 5.5. Soil moisture 55% short, 45% adequate. Corn 0% silked, 4% 1991 1% avg.; 5% very poor, 10% poor, 30% fair, 45% good, 10% excellent. Soybeans 100% planted, 99% 1991, 98% avg.; 2% very poor, 8% poor, 30% fair, 45% good, 15% excellent. Winter wheat 5% turning, 70% 1991, 45% avg.; 1% very poor, 9% poor, 30% fair, 50% good, 10% excellent. Pasture 60% of normal. Major activities: Equipment cleaning, haying, weed spraying, hoping for a warm soaking rain.

MINNESOTA: Temperatures 5 to 8° below normal. Extremes 34°; 86°. Precipitation 0.14 to 1.11 in. Greatest weekly total 1.41 in.

Days suitable for fieldwork 3.9. Topsoil moisture 5% short, 79% adequate, 16% surplus. Spring wheat 57% heading, 87% 1991, 74% avg. Oats 88% heading, 83% 1991, 83% avg. Barley 51% heading, 93% 1991, 75% avg. Corn 84% cultivated once, 71% 1991 86% avg.; 23 in. avg. height, 27 in. 1991, 28 in. avg. Soybean 67% cultivated once, 45% 1991, 69% avg.; 9 in. avg. height, 7 in. 1991, 9 in. avg. Alfalfa Hay 91% first cutting, 90% 1991, 88% avg.

MISSISSIPPI: Temperatures 75°, 4.4° below normal. Extremes 45°; 96°. Small amount of rainfall. Rainfall 0.50, 0.39 below normal. Soil temperature 81°.

Days suitable for fieldwork 5.5, 4.0 1991, 4.6 avg. Soil moisture 3% very short, 38% short, 50% adequate, 6% surplus, 3% excessive. Corn 64% silking, 55% 1991, 57% avg.; dough 23%, 20% avg.; 22% fair, 68% good, 10% excellent. Cotton 80% squaring, 43% 1991, 68% avg.; 9% setting bolls, 7% avg.; 4% poor, 38% fair, 54% good, 4% excellent. Peanuts 95% planted, 92% 1991, 97% avg. Rice 1% heading, 33% fair, 67% good. Sorghum 99% emerged, 89% 1991, 95% avg.; 28% heading, 12% avg.; 48% fair, 52% good. Soybeans 87% planted, 74% 1991, 81% avg.; 80% emerged, 62% 1991, 71% avg.; 3% blooming, 3% avg.; 46% fair, 50% good, 4% excellent. Sweet potatoes 80% planted, 90% 1991, 94% avg. Watermelons 2% harvested, NA 1991, NA avg. Wheat 98% mature, 100% 1991, 99% avg.; 83% harvested, 93% 1991, 93% avg.; 43% fair, 44% good, 13% excellent. Hay harvested 55%, 44% 1991, 44% avg. Peaches 63% harvested, 41% 1991, 50% avg.; 8% very poor, 8% poor, 25% fair, 59% good. Pecans 20% very poor, 20% poor, 40% fair, 20% good. Livestock 15% fair, 77% good, 8% excellent. Pasture 86% of normal. Activities: Harvesting wheat, planting soybeans.

MISSOURI: Temperatures 5 to 9° below normal. Rainfall 0.39 in., varying less than 0.25 in. northern districts to over 1.00 in. southeast. Localized parts Dunklin County received over 5.00 in.

Days suitable for fieldwork 6.0. Topsoil 72% short, 27% adequate, 1% surplus, driest areas north central, northeast. Cool, dry weather slowing growth, development of crops. Double crop soybeans planting 40%, 72% 1991, 53% avg. Wheat harvest nearing completion southeastern district, just

beginning northern districts. Oat harvesting 6%, 34% 1991, 26% avg. Alfalfa second cutting 26%, 37% 1991, 41% avg. Other hay cut 71%, 75% 1991, 72% avg. Pasture 11% very poor, 25% poor, 32% fair, 30% good, 2% excellent.

MONTANA: Temperatures 5 to 15° above normal. Shower, thunderstorm activity spotty. Southwest picking up most precipitation.

Days suitable for fieldwork 6.5. Topsoil 45% short, 55% adequate. Subsoil 60% short, 40% adequate. Winter Wheat 94% headed, 82% 1991, 74% avg. Barley 49% headed, 26% 1991, 40% avg. Oats 39% headed, 31% 1991, 42% avg. Pasture, range feed 66%, increased 2 points from last week. Alfalfa hay 46% harvested, 30% 1991, 52% avg.

NEBRASKA: Temperatures near normals west, 4° below normals remainder of State. Scattered precipitation varying 0.10 in. east to 2.65 in. west.

Days suitable for fieldwork 5.8. Topsoil 19% short, 80% adequate, 1% surplus. Subsoil 17% short, 83% adequate. Wheat 15% very poor, 31% poor, 41% fair, 13% good; 100% turning color, 89% 1991, 90% avg.; 11% ripe, 34% 1991, 37% avg. Corn 7% poor, 26% fair, 64% good, 3% excellent. Soybean 1% poor, 18% fair, 79% good 32% excellent; 1% blooming, 5% 1991, 4% avg. Sorghum 5% poor, 31% fair, 63% good, 1% excellent. Alfalfa 3% poor, 38% fair, 53% good, 6% excellent; second cutting 8%, 5% 1991, 9% avg. Pasture, range 87% of normal.

NEVADA: Cold, moist low pressure system brought cooler temperatures, rain to northern, central areas. Precipitation generally light, some northern areas received up to 0.50 in.; southern areas only light scattered amounts. Temperatures northern areas 8° below normal; south central, extreme south only slightly below normal.

Alfalfa hay harvest about 2 weeks ahead of normal. First cutting complete, second cutting well along most northern areas. Potato crop growing rapidly due to above normal temperatures. Range poor, anticipate livestock will come off summer ranges much earlier than normal. Stockwater very short some areas.

NEW ENGLAND: Precipitation 2.90 to 3.95 in. in northern Maine. Northern New England received 0.10 to 2.75 in., while the southern region received 0.75 to 3.45 in. Temperatures mid 50s to mid 60s throughout the region; 3 to 8° below normal. Maximum temperatures mid 70s to low 80s; minimum temperatures high 30s to low 50s.

Days suitable for fieldwork 5. Soil moisture 3% very short, 34% short, 50% adequate, 13% surplus. Available grazing 39% short, 58% adequate, 3% surplus. Fieldwork progress 3 days behind schedule. Maine potatoes 100% emerged, 96% 1991, 97% avg.; good. Rhode Island potatoes good. Connecticut River Valley potatoes good. Maine oats; fair to good. Field corn 100% planted, 100% 1991, 99% avg.; 95% emerged, 98% 1991, 93% avg.; good. Sweet corn 96% planted, 97% 1991, 93% avg.; 92% emerged, 94% 1991, 87% avg.; good. First cut hay 69% harvested, 83% 1991, 70% avg.; fair to good. Shade tobacco 97% transplanted; good. Outdoor tobacco 95% transplanted; good. Apple set, fruit drop average, scab infection light. Pear, peach set average. Cranberries going into bloom stage. Strawberries set average, 34% harvested. Blueberries set average. Major farm activities: Nitrate testing, pesticide, fungi spraying, harvesting vegetables, strawberries. haying.

NEW JERSEY: Temperatures much below normal. Extremes 37°; 85°. Rainfall 1.05 in. north, 0.24 in. central, 0.46 in. south. Heaviest 24 hour total 1.37 in. on 24th, 25th. Estimated soil

moisture, in percent field capacity, averaged 81% north, 75% central, 52% south. Four inch soil temperatures averaged 66 north, 67 central, 68 south.

Soil moisture content is short to adequate depending on area. Potatoes, lettuce, green beans, sweet corn being irrigated. Green bean, blueberry harvest beginning. Tomatoes, long hot peppers, cucumbers in light, increasing volume. Lettuce, leafy greens, endive, escarole, spinach in light, decreasing volume. Beets, Chinese cabbage, leeks, green onions, turnips, parsley in moderate supply. Squash, cabbage, in good volume. Barley cutting nearly complete in south Jersey. Pastures in some areas could use more rain.

NEW MEXICO: Temperatures generally within 1 to 2° of normals, areas in the east, over the mountains slightly cooler than average, slightly warmer than usual elsewhere. Cooler areas marked the general range of showers, thunderstorms with heaviest amounts over the northeastern, southeastern plains. Once again, heavy rain was accompanied by strong winds, large hail in the eastern plains, southeast.

Days suitable for fieldwork 6.0. Soil moisture 18% short, 70% adequate, 12% surplus. Hail damage light to moderate in some areas with damage to cotton, corn, chile, alfalfa, wheat. Crop conditions: Alfalfa, 6% poor, 22% fair, 69% good, 3% excellent. Corn 11% fair, 83% good, 6% excellent. Irrigated wheat, 24% fair, 76% good, with 52% harvested. Dryland wheat 40% fair, 60% good, with 66% harvested. Onions 22% fair 78% good with harvest active. Chile 55% fair, 45% good. Apples 21% fair, 79% good. Pecans 25% fair 75% good. Cattle, sheep good to excellent. Range, pasture 99% of normal.

NEW YORK: Unusually cold week. Started very cold, barely returned to normal by weekend. Several areas had lows in the 30s. On average, temperatures 8 to 12° below normal. Rainfall was highly variable. Light showers early week, widespread thunderstorms, hail mid week, scattered showers weekend. Rain 0.14 in. at Binghamton to 1.67 in. at Poughkeepsie, Bloomingburg.

Days suitable for fieldwork 5.0. Soil moisture mostly adequate. Pasture 87% of normal. Hay, wheat good. Some lodging in wheat due to thunderstorms, high winds. Corn planting finished. Early planted fields up, good. Wheat heading. Potato planting completed. First cutting of hay in full swing. Regrowth good. Apple thinning near completion. Peaches, pears in good condition. Isolated reports of hail damage to fruit. Strawberry harvest gained momentum. Onions good. Pea harvest underway. Cool temperatures slowed vegetable crop development.

NORTH CAROLINA: Temperatures 2 to 5° below normal with the largest negative departures occurring in the central section. Precipitation 5.48 in. at Williamston to no rainfall at a number of locations. Hail storms with strong winds early in the week caused scattered damage to some crops in eastern areas.

Days suitable for fieldwork 4.9. Soil moisture 3% short, 79% adequate, 18% surplus. Crop condition: Wheat 1% poor, 21% fair, 67% good, 11% excellent. Pasture 13% fair, 82% good, 5% excellent. Tobacco 1% very poor 1% poor, 31% fair, 64% good, 3% excellent. Corn 17% fair, 68% good, 15% excellent. Cotton 13% poor, 55% fair, 29% good, 3% excellent. Peanuts 27% fair, 73% good. Soybeans 1% poor, 17% fair, 81% good, 1% excellent. Hay 3% poor, 21% fair, 72% good, 4% excellent. Irish potatoes 26% fair, 70% good, 4% excellent. Sweet potatoes 3% poor, 15% fair 79% good, 3% excellent. Apples 4% poor, 50% fair, 46% good. Peaches 12% very poor,

27% poor, 42% fair, 19% good. Truck crops 2% very poor, 30% fair, 68% good. Sorghum planted 78%, 82% 1991, 85% avg. Soybeans planted 76%, 92% 1991, 83% avg. Burley tobacco transplanted 97%, 100% 1991, 84% avg. Sweet potatoes 96%, 97% 1991, 93% avg. Cotton setting bolls 2%, 5% 1991, 4% avg.; squaring 27%, 67% 1991, 44% avg. Soybeans blooming 3%, 38% 1991, 27% avg. Corn silking 24%, 61% 1991, 33% avg. Winter wheat harvested 54%, 96% 1991, 77% avg. Oats harvested 54%, 96% 1991, 81% avg. Barley harvested 49%, 96% 1991, 84% avg. Rye harvested 61%, 95% 1991, 76% avg. Peaches harvested 38%, 39% 1991, 35% avg. Hay, roughage supplies 93% adequate, 7% surplus. Hay first cutting 83% Hay second cutting 26%. Major activities: Planting soybeans, cultivating tobacco, harvesting small grains. Other activities: Harvesting hay; spraying tobacco for insect, sucker control; tending livestock; equipment repair; general farm maintenance.

NORTH DAKOTA: Early part of week cool, scattered showers followed by a warming trend at the end. Temperatures 6° below normal east central, southeast to average northwest. Extremes 37° central; 95° northwest, west central. Precipitation 0.06 in. southwest to 0.82 in. northeast.

Days suitable for fieldwork 6.4. Topsoil 16% very short, 30% short, 51% adequate, 3% surplus. Subsoil 21% very short, 31% short, 48% adequate. Small grain development behind 1991, average. Spring wheat 9% poor, 31% fair, 51% good, 9% excellent; 6% milk to dough and beyond, 15% 1991, 12% avg. Durum 6% poor, 33% fair, 54% good, 7% excellent; 2% milk to dough and beyond, 6% 1991, 6% avg. Barley 7% poor, 19% fair, 62% good, 12% excellent; 10% milk to dough and beyond, 26% 1991, 19% avg. Oats 19% poor, 43% fair, 37% good, 1% excellent; 12% milk to dough and beyond, 15% 1991, 14% avg. Winter wheat 14% poor, 34% fair, 52% good; 39% milk to dough and beyond, 58% 1991, 60% avg. Sugarbeets 100% good; 10 in. avg height, 11 in. 1991, NA avg. Corn 6% poor, 27% fair, 67% good; 12 in. avg. height, 26 in. 1991, 19 in. avg. Flax 2% poor, 27% fair, 71% good; 7 in. avg. height, 9 in. 1991, 7 in. avg. Potatoes 100% good; 8 in. avg. height, 10 in. 1991, 11 in. avg. Soybeans 10% fair, 90% good; 7 in. avg. height, 10 in. 1991, 9 in. avg. Dry beans 18% fair, 82% good; 7 in. avg. height, 10 in. 1991, 8 in. avg. Sunflower 1% poor, 20% fair, 79% good; 7 in. avg. height, 13 in. 1991, 11 in. avg. Post emerged herbicide applications for broadleaf control 93% complete, wild oats 98%. Range, pasture 62% of normal. Hay 44% of normal. Stockwater supplies 13% very short, 36% short, 50% adequate, 1% surplus.

OHIO: Record breaking cold dominated the State the morning of the 23rd with areas of frost common across the north. Temperatures low 30s to low 40s. Temperatures rose weekend, overall temperatures 5 to 10° below normal. Precipitation varied from little to none far west, south to moderate north, east. Isolated heavier amounts noted throughout the State up to 1.50 in. Storms also dumped hail on scattered locations. Rainfall was below normal for nearly all the state with deficits of between 0.25 to 0.75 in.

Days suitable for fieldwork 3.6. Soil moisture 12% short, 74% adequate, 14% surplus. Pasture 1% very poor, 6% poor, 30% fair, 51% good, 12% excellent. Hay 1% very poor, 7% poor, 33% fair, 46% good, 13% excellent. Oats 1% very poor, 5% poor, 31% fair, 57% good, 6% excellent. Strawberry harvest 85% complete, 100% 1991, 76% avg. Cool temperatures have slowed plant development, continued warm weather is needed to speed development.

OKLAHOMA: Temperatures 3° below normal north central, Panhandle, southeast to normal northeast. Precipitation 0.64 in. northeast to 3.03 in. central.

Days suitable for fieldwork 4.4. Topsoil 51% adequate, 49% surplus. Subsoil 3% short, 97% adequate. Wheat 7% poor, 47% fair, 46% good; 80% harvested, 89% 1991, 89% avg.; 27% plowed 52% 1991, 41% avg. Corn 21% tasseling, 25% 1991, 27% avg.; 3% milk to soft, 7% 1991, 9% avg. Crop insect activity light. Livestock insect activity mostly moderate. Cattle good; marketings mostly average; prices steady to higher.

OREGON: Temperatures 10 to 17° above normal; coastal areas 2 to 5° above normal. On 25th, isolated heavy thunderstorms, hail in northern central areas; 1.03 in. rain, Burns; 0.60 in. at Crater Lake.

Soil moisture 83% short, 17% adequate. Winter wheat 6% very poor, 23% poor, 51% fair, 20% good; 100% headed, 2% harvested. Barley 5% harvested. Grass seed, Crimson Clover seed harvesting continued, Willamette Valley, southwest. Sugarbeet seed setting, west. Raspberry, strawberry picking finished, Blueberry, Marionberry, Boysenberry picking continued, Willamette Valley. Sweet cherry, tart cherry harvest starting, Yamhill Co. Cranberry development continues excellent, so. coast; bloom ending, beekeepers collecting hives. Irrigation, vegetables good, west; green beans blooming, Lane Co.; broccoli, snap beans harvested, Marion Co.; onions good, Washington Co. Livestock good; range, pastures deteriorate, east, cattle moved to stockwater; grasshopper damage, spraying continued, Lake, Harney Co. Non irrigated pastures drying fast in west; supplementary feeding expected to be early. Range, pasture condition 54% of normal. Week Ending

PENNSYLVANIA: Temperature 65°, 2° below normal. Extremes 34°; 84°. Precipitation 0.58 in., 0.36 in. below normal.

Days suitable for fieldwork 5. Soil moisture 98% short, 2% adequate. Corn 0% silk, 0% 1991, 0% avg.; height 11 in., 24 in. 1991, 17 in. avg.; 1% very poor, 6% poor, 20% fair, 54% good, 19% excellent. Tobacco 95% transplanted, 99% 1991, 89% avg. Soybeans 90% planted, 95% 1991, 86% avg.; 4% poor, 17% fair, 59% good, 20% excellent. Barley 43% heading or headed, 5% 1991; 36% turning yellow, 20% 1991; 18% ripe, 20% 1991; 3% harvested, 55% 1991. Wheat 71% heading or headed, 14% 1991; 27% turning yellow, 40% 1991; 2% ripe, 29% 1991; 0% harvested, 17% 1991; 2% poor, 17% fair, 60% good, 21% excellent. Oats 94% heading or headed, 69% 1991; 3% turning yellow, 27% 1991; 3% ripe, 3% 1991; 0% harvested, 1% 1991; 5% poor, 21% fair, 52% good, 22% excellent. Alfalfa first cutting 90% complete, 98% 1991. Second cutting alfalfa 5% complete, 34% 1991. Quality of hay made 41% poor, 47% fair, 12% good. Feed from pastures 5% very poor, 6% poor, 54% fair, 35% good. Peach 29% below avg., 55% avg., 16% above avg. Apple 20% below avg., 65% avg., 15% above avg. Activities: Spraying; hauling manure; spreading fertilizer; maintaining machinery; planting; cutting, baling hay; combining; caring for livestock.

PUERTO RICO: Temperatures averaged about 80-82 degrees on the coasts and 75-78 degrees in the interior, with mean station temperatures ranging from 66.71 degrees at Pico Del Este-Luquillo to 84.4 degrees at San Juan. The extremes were 96 degrees at Mayaguez City on June 22, 23, 25, and 26, and 62 degrees at Adjuntas, Rio Piedras, and Pico Del Este-Luquillo on June 23 and 25.

Average rainfall of 0.52 inches was 0.70 inches below normal. The highest weekly total rainfall was 1.90 inches at Paraiso followed by 1.74 inches at San Lorenzo and 1.66 inches at Adjuntas. The highest 24-hour total was 1.44 inches at San Lorenzo on June 21. At San Juan, mean temperature was 84.4 degrees, which is 2.4 degrees above

normal, and total rainfall was 0.15, which is normal.

SOUTH CAROLINA: Temperatures across State 2° below normal Midlands, Upstate to normal Coast. Rainfall 0.40 in. statewide.

Days suitable for fieldwork 6.1. Soil moisture 50% short, 48% adequate, 2% surplus. Tobacco fair to good; 50% topped, 62% 1991, 44% avg.; 4% harvested, 6% 1991, 0% avg. Corn fair to good; 71% silked, 85% 1991, 62% avg.; 18% dough stage, 44% 1991, 19% avg. Cotton fair to good; 32% squaring, 71% 1991, 51% avg. Soybeans fair to good; 77% planted, 88% 1991, 86% avg. Peaches fair; 25% harvested, 29% 1991, 30% avg. Watermelons fair to good; 21% harvested, 48% 1991, 29% avg. Cantaloupes fair to good; 30% harvested, 50% 1991, 31% avg. Tomatoes fair to good; 24% harvested, 61% 1991, 50% avg. Cucumbers fair to good; 71% harvested, 66% 1991. Snap beans fair to good; 90% planted, 91% 1991, 97% avg. Oats fair to good; 94% ripe, 99% 1991, 98% avg.; 74% harvested, 94% 1991, 88% avg. Wheat fair to good; 97% ripe, 100% 1991, 100% avg.; 72% harvested, 96% 1991, 90% avg. Rye fair to good; 86% ripe, 97% 1991, 95% avg.; 59% harvested, 84% 1991, 82% avg. Barley fair to good; 89% ripe, 96% 1991, 94% avg.; 72% harvested, 88% 1991, 80% avg. Grain hay fair to good; 90% harvested, 94% 1991, 95% avg. Peanuts fair to good. Sorghum fair to good; 59% planted, 76% 1991, 73% avg. Pastures fair to good. Some concern about short soil moisture.

SOUTH DAKOTA: Temperatures 7° below normal to 2° above normal. Extremes 37°; 89°. Precipitation spotty, variable, some areas over an inch, many other areas less than a tenth. Maximum 3.25 in.

Days suitable for fieldwork 4.8. Topsoil 2% very short, 29% short, 62% adequate, 7% surplus. Subsoil 16% very short, 44% short, 35% adequate, 5% surplus. Rye 7% very poor, 16% poor, 49% fair, 28% good. Barley 1% very poor, 10% poor, 40% fair, 46% good, 3% excellent. Oats 1% very poor, 12% poor, 36% fair, 43% good, 8% excellent. Flax 3% very poor, 15% poor, 38% fair, 44% good. Sunflowers 1% very poor, 1% poor, 36% fair, 60% good, 2% excellent. Crop conditions have improved due to precipitation received the last two weeks. Livestock 6% fair, 82% good, 12% excellent. Pasture 76% of normal. Pasture, water supplies have improved due to last weeks rains. Alfalfa 74% first cut complete. Production less than normal in some areas.

TENNESSEE: Two frontal systems moved through the State. Rain accompanied each passage. Temperatures cooler than normal for all sections. Precipitation above normal west; normal Middle, east.

Days suitable for fieldwork 4.8. Soil moisture 1% very short, 7% short, 78% adequate, 14% surplus. Corn 28% tasseling, 28% 1991, 26% avg.; 5% dough, 2% 1991, 2% avg.; 10% fair, 76% good, 14% excellent. Sorghum 10% fair, 90% good. Soybeans 88% planted, 74% 1991, 82% avg.; 5% blooming, 0% 1991, 0% avg.; 1% poor, 27% fair, 70% good, 2% excellent. Tobacco 100% transplanted, 98% 1991, 99% avg.; 31% fair, 65% good, 4% excellent. Wheat 98% ripe, 94% 1991, 96% avg.; 74% harvested, 78% 1991, 75% avg.; 2% poor, 17% fair, 62% good, 19% excellent. Alfalfa 54% 2nd cutting, 47% 1991, 54% avg. Hay 1% very poor, 8% poor, 45% fair, 43% good, 3% excellent. Pastures 1% poor, 10% fair, 77% good, 12% excellent.

TEXAS: Series upper air disturbances triggered thunderstorms over North, Central. Rainfall limited late week High Plains. Upper level high pressure restricted shower development far South, Coastal Bend while generally dry weather prevailed Trans Pecos. All districts but Lower Valley

reported rainfall. However, amounts below normal much South, West above normal North. Temperatures generally few degrees below normal in North, West, close to normal in South.

Crops: Corn fields High Plains suffered hail damage. Corn maturing well minimal disease, insect problems southern areas. Corn 10% mature, 10% 1990, 13% avg. Harsh weather Plains caused producers to replant failed cotton acreage, sorghum or soybeans. Edwards Plateau, cotton affected by excess rains, cool temperatures. Eastern half state, spraying remained active. Cotton 98% planted, 95% 1990, 96% avg. Rice flooding nearing completions most areas. Disease problems increased. Rice 17% headed, 42% 1991, 24% avg. Grain sorghum planting increased Plains due failed cotton acreage. Some herbicide damage occurred on replanted cotton ground. Produces in Blacklands seen damaging number sorghum midge late blooming fields. Few early fields being harvested in Valley. Sorghum 52% headed, 53% 1990, 50% avg. Sorghum turning color 19%, 37% 1990, 30% avg. Sorghum mature 1%, 12% 1990, 8% avg. Sorghum harvested none, 1% 1990, 1% avg. Small grain harvest continues. Seed sprouting continued to occur. Blacklands harvest operations nearing completion. Early peanut growth slow recent winds caused damage. Cross Timbers replanting peanuts due to flooding. Producers Blacklands treating early planted peanuts for foliar disease. Planting nearing completion. Statewide peanut 81% normal. Soybean planting increased Plains due lost cotton acreage. Blacklands soybeans stands good, some weather damage exists. Soybeans planted 86%, 88% 1990, 87% avg. Other crops: Sunflowers 77% planted, 77% 1990, 71% avg.

Commercial Vegetables: Rio Grande Valley, land preparation underway for fall vegetables. East Texas, harvest tomatoes continued, red spider mites causing foliage loss. High Plains, cabbage, peppers responded warm weather. Onions harvest continued. Quality fair due extremes moisture supply. Trans Pecos, onion harvest full swing. Peach crop Low Plains being picked. Harvest Hill Country good excellent size, yields, with wind damage. Most areas state brown rot a problem. Pecan trees Hill Country developed powdery mildew nutlets. Scab problems, aphids showing Central Texas.

Range and Livestock: Livestock good. High population flies, mosquitoes adversely affecting cattle areas. Hay baling was active. Range, Pasture 3% poor, 14% fair, 50% good, 33% excellent.

UTAH: Temperature maximums 4° above normal, minimums 3° above normal. Very light precipitation in all areas, except the Uinta Basin Division where it was moderate.

Days suitable for fieldwork 6.9. Soil moisture 78% short, 22% adequate. Winter wheat turning or better 78%, 16% 1991, 50% avg.; ripe 18%. Spring wheat turning or better 42%, 2% 1991; ripe 8%. Barley turning 53%, 8% 1991; ripe 13%. Oats headed or better 59%, 35% 1991, 53% avg. Corn height 25 in., 12 in. 1991, 22 in. avg. Alfalfa 1st cutting 95% complete, 79% 1991. Alfalfa 2nd cutting 10% complete, 2% 1991. Other hay cutting 45%, 29% 1991. Sweet cherries picked 98%. Apricots 15%. Cattle moved to summer range 100%, 95% 1991. Sheep moved to summer range 90%, 83% 1991. Pasture, range poor to fair.

VIRGINIA: Temperatures below normal. Extremes 34°; 92°. Precipitation was normal to above normal.

Days suitable for fieldwork 4.6. Topsoil 3% short, 88% adequate, 9% surplus. Pasture 2% poor, 23% fair, 57% good, 18% excellent. Alfalfa 21% fair, 62% good, 17% excellent. Apples 23% fair, 71% good, 6% excellent. Other hay 48% fair, 44% good, 8% excellent. Corn silked 3%, 10% 1991, 6% avg.; 2% poor, 46% fair, 38% good, 14% excellent.

Soybeans 67% planted, 83% 1991, 79% avg.; 58% fair, 42% good. Peanut 75% fair, 25% good. Burley tobacco nearly all transplanted. Tobacco 11% poor, 40% fair, 48% good, 1% excellent. Wheat 13% harvested, 77% 1991, 49% avg. Barley 75% harvested, 99% 1991, 84% avg. Oats 50% harvested, 75% 1991, 45% avg. Potato harvest commenced. Cutting hay, spraying fruit, harvesting snap beans, cultivating side dressing tobacco, laying by tobacco. Tomato harvest delayed by cool, wet weather.

WASHINGTON: Temperatures 5 to 15° above normal, west; 9 to 19° above normal east. Rainfall none on the west; none to 0.07 in. east.

Days suitable for fieldwork 7. Soil moisture 73% short, 27% adequate. Hay, other roughage 23% short, 61% adequate, 16% surplus. Range, pasture 15% very poor, 43% poor, 33% fair, 9% good. Winter wheat 59% poor, 29% fair, 12% good; 100% headed, Barley 75% poor, 20% fair, 5% good; 100% headed. Potatoes 100% emerged, 100% 1991, 100% avg.; early potato fields were being sprayed to kill vines. Harvest of early potatoes will start next week. Spring wheat 100% headed, Corn 100% planted, 100% 1991, 100% avg. Dry beans 100% planted, 100% 1991, 100% avg. Alfalfa hay first cut 98% complete, 94% 1991, 93% avg.; second cut 40% complete, 7% 1991, 10% avg. Hot weather engulfed the State doing no favors to crops already suffering from drought. Grass seed growers were harvesting, the earliest in memory. Fruit thinning was a little over half complete, cherry harvest was complete for the most part. Non irrigated crops on the west side were at severe risk of being lost due to a lack of moisture. Water sources were drying up for livestock in some areas.

WEST VIRGINIA: Temperature 64°. Extremes 37°; 91°. Precipitation 0.60 in.

Days suitable for fieldwork 4.4. Soil moisture 29% short, 65% adequate, 6% surplus. Tobacco 35% fair, 65% good. Gardens good; 100% planted, 96% emerged. Wheat good; 99% jointed, 98% headed, 35% ripe. Barley poor; 100% ripe, 25% harvested. Corn good; 96% planted, 91% emerged. Oats good; 68% headed. Hay 12% fair, 88% good; 65% first cut. Apples fair. Peaches good. Soybeans good; 72% planted, 58% emerged. Pastures 21% fair, 47% good,

32% excellent; 88% of normal. Cattle good. Sheep good. Farm activities: General maintenance, cutting hay, planting corn, soybeans, shearing sheep.

WISCONSIN: Temperature 58°; 8° below normal. Extremes 30°; 87°. Frost in all areas. Precipitation 0.10 to 1.30 in.

Days suitable for fieldwork 4.7. Soil moisture 57% short, 42% adequate, 1% surplus. Pasture 62% of normal, 82% 1991, 69% avg. General condition of crops 3% very poor, 15% poor, 58% fair, 24% good. Oats 45% headed, 63% 1991, 68% avg.; 6% very poor, 16% poor, 49% fair, 28% good, 1% excellent. Corn height 15 in., 36 in. 1991, 26 in. avg.; 13% very poor, 14% poor, 50% fair, 23% good. First crop hay 80% harvested, 87% 1991, 82% avg. Soybean 5% very poor, 13% poor, 58% fair, 23% good, 1% excellent.

WYOMING: Temperatures varied 1 to 5° above normal. Most of State received some precipitation, except southwestern corner, most of the southern half received above normal precipitation.

Days suitable for fieldwork 5.3. Topsoil 40% short, 60% adequate. Spring wheat 5% emerged not jointed, 17% 1991, 7% avg.; 20% jointed not in boot, 15% 1991, 18% avg.; 32% boot, 35% 1991, 34% avg.; 40% headed, 33% 1991, 39% avg.; 3% turning color. Oats 9% emerged not jointed, 15% 1991, 14% avg.; 16% jointed not in boot, 22% 1991, 25% avg.; 34% boot, 42% 1991, 37% avg.; 40% headed, 21% 1991, 24% avg.; 1% turning color. Barley 2% emerged not jointed, 15% 1991, 10% avg.; 8% jointed not in boot, 11% 1991, 13% avg.; 17% boot, 22% 1991, 23% avg.; 65% headed, 51% 1991, 52% avg.; 8% turning color, 1% 1991. Winter wheat 3% jointed not in boot, 3% 1991, 4% avg.; 6% boot, 16% 1991, 12% avg.; 73% headed, 77% 1991, 73% avg.; 18% turning color, 4% 1991. Dry beans 90% emerged. Sugarbeet acreage thinned 91%, 89% 1991, 91% avg. Alfalfa: percent of first cutting completed 42%, 39% 1991, 49% avg. Other hay: percent of acreage harvested 9%, 9% 1991, 16% avg. Insect infestation 33% none, 30% light, 25% moderate, 12% severe. Hail damage to crops 44% none, 43% 1991; 40% light, 33% 1991; 16% moderate, 17% 1991; 0% severe, 5% 1991. Stockwater 56% short, 4% 1991; 44% adequate, 96% 1991.

International Weather and Crop Summary

Highlights

June 21 - 27, 1992

FSU ... In western areas, cooler weather accompanies light precipitation in Volga Valley, bringing relief from hot, dry conditions. In the New Lands, hot, dry weather covers vegetative spring grains in southern Urals and Kazakhstan.

EUROPE ... Unusual wetness continues over Mediterranean areas. Dry weather persists in the north.

EASTERN ASIA ... Dryness continues across the North China Plain, hampering summer crop establishment. Rains keep rice irrigation levels high across the south.

SOUTHEAST ASIA ... Rainfall diminishes over Thailand, reducing moisture for rainfed corn and rice.

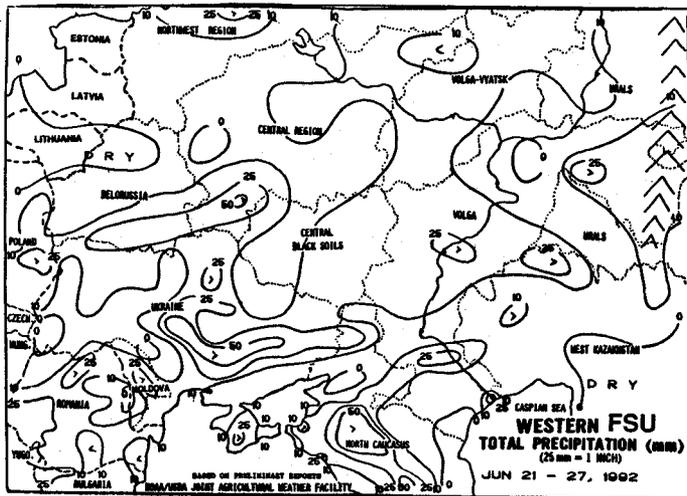
SOUTH ASIA ... The monsoon brings rain to primary rainfed oilseed areas of central India.

SOUTH AMERICA ... Moisture levels remain favorable for winter grains throughout the region. Soybean harvesting continues in Argentina.

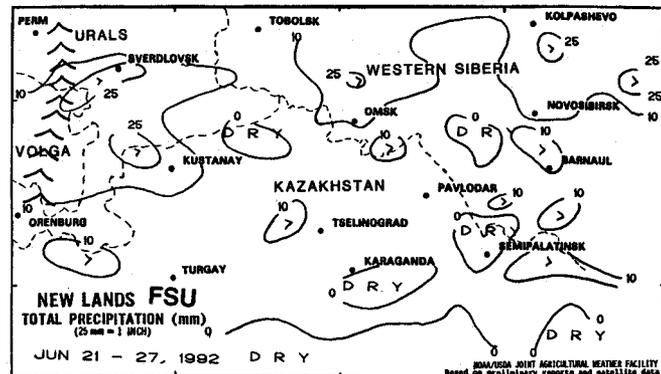
AUSTRALIA ... Moisture is needed for eastern winter grains germination, while beneficial moisture continues across the west.

CANADA ... Warm, drier weather develops in the western Prairies as beneficial rain moves through the east. Unseasonable cold continues in Ontario.

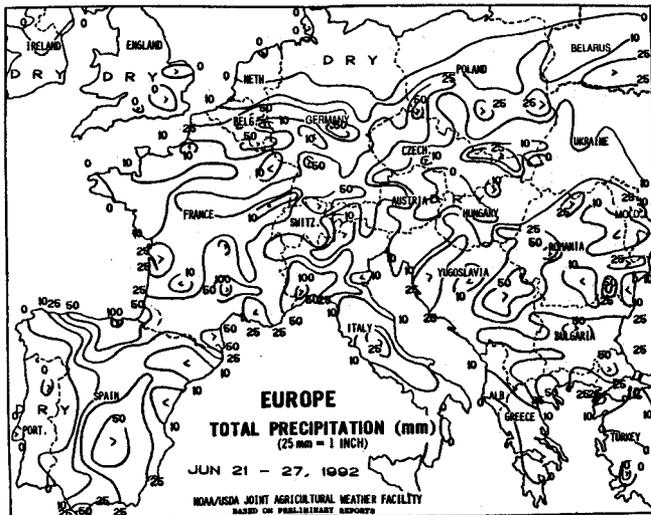
MEXICO ... Soil moisture levels remain adequate across central Mexico despite continued dryness.



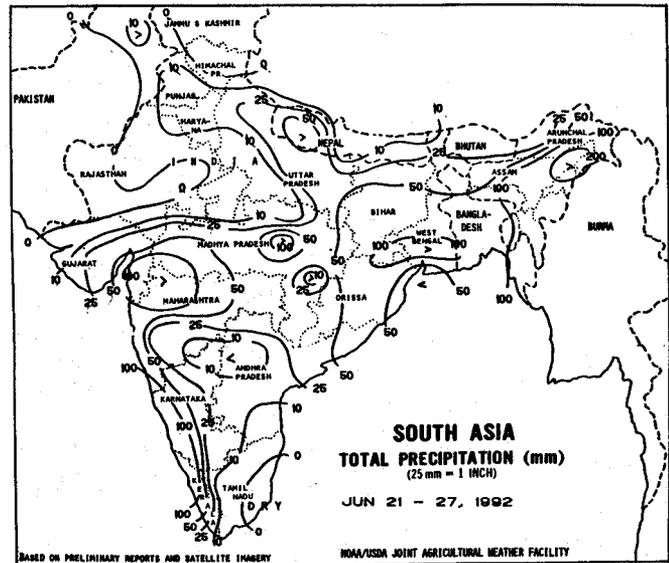
FSU ... In western areas of the former Soviet Union, winter grains were maturing in the extreme south and filling over the remainder of the region. Crop progress for spring barley ranged from filling in the south to heading in the north. Corn, sugarbeets, and sunflowers were in the vegetative growth stage. As the week began, hot, dry weather covered extreme eastern Ukraine, northern North Caucasus, eastern Black Soils Region, and lower and middle Volga. Maximum temperatures ranged from 32 to 36 degrees Celsius (C), increasing stress on crops. Cooler weather began over these areas on June 24 and lasted until week's end, accompanied by light precipitation (10-25 mm). Little, if any, precipitation covered the Baltic States, northern Belarus, and the western portion of the Central Region. In contrast, moderate to heavy rain (25-50 mm, with local amounts in excess of 60 mm) covered southern Belarus, the southwestern portions of the Central Region, south-central Ukraine, and western North Caucasus. Average temperatures were 1-2 degrees C above normal in the south and 1-3 degrees C below normal in the north.



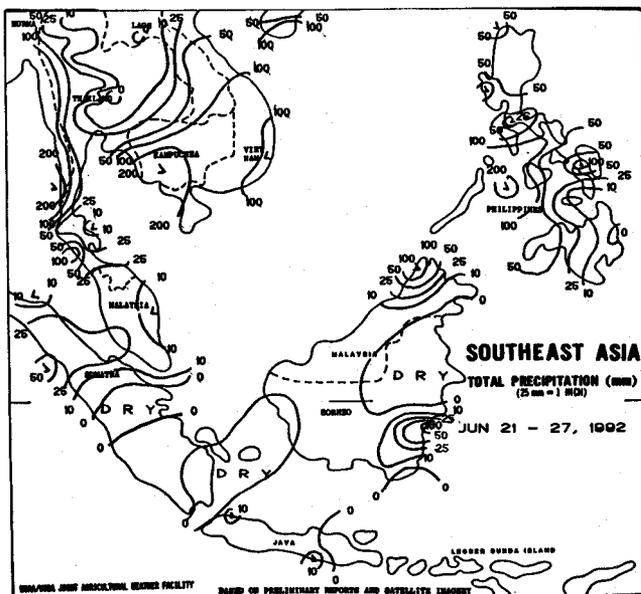
In the New Lands, crop progress for spring grains ranged from jointing in the south to tillering in the north. Little, if any, precipitation covered the southern Urals, Kazakhstan, and Altay Kray. In addition, several days of hot weather accompanied the dryness, with maximum temperatures ranging from 30 to 36 degrees C. Minimum temperatures ranged from 15 to 20 degrees C, helping crops to recover from daytime heat stress. In the north, light, scattered showers maintained favorable conditions for crops. Greatest amounts of moisture (10-25 mm) covered the upper Volga, northern Urals, and areas in and around Omsk. Average temperatures were 1-3 degrees below normal in the north and 1-2 degrees above normal in the south.



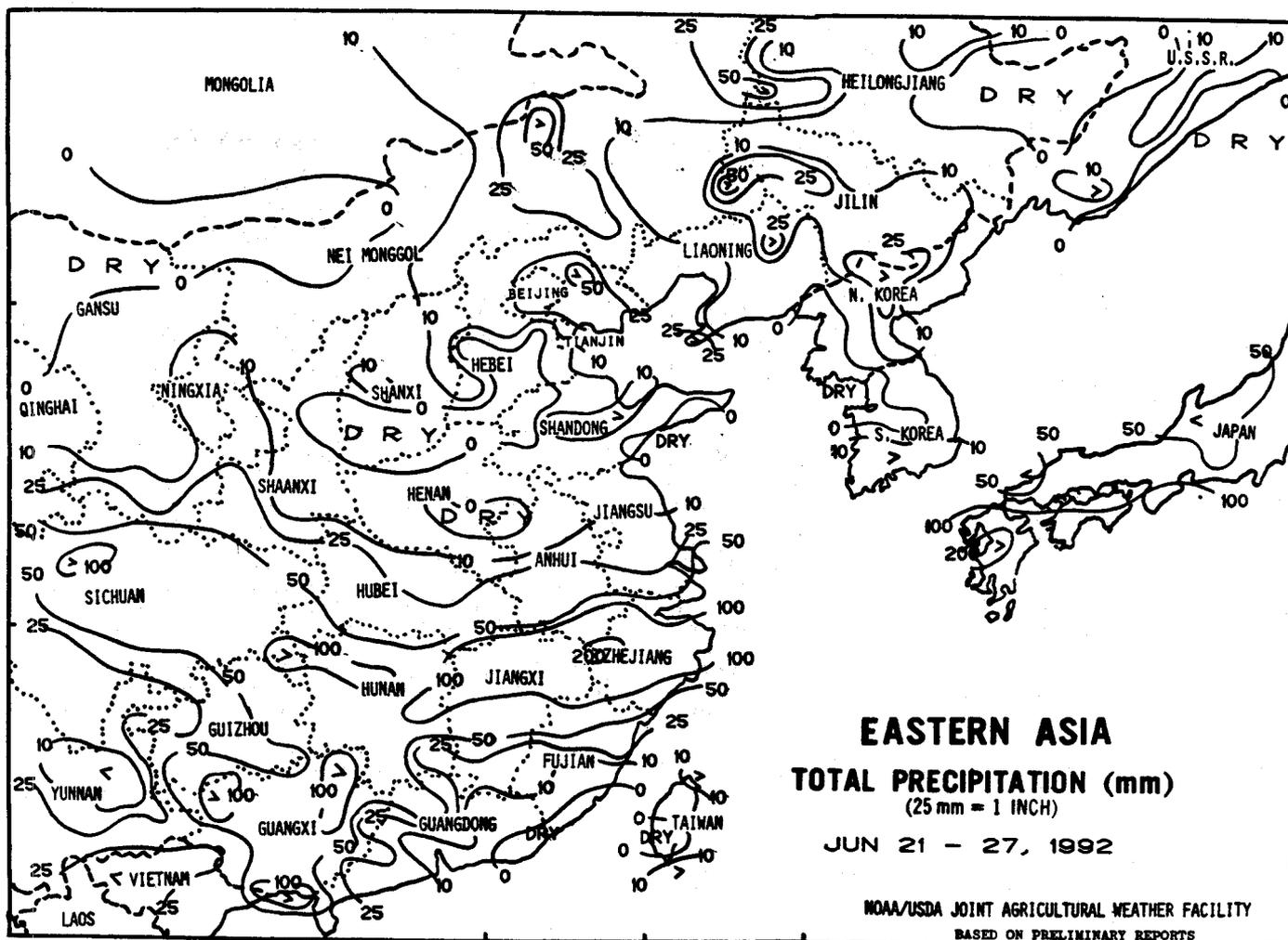
EUROPE ... Unusual wetness continued over Mediterranean crop areas. Rainfall ranged from 25 to 62 mm in Spain, 10 to 25 mm in Italy, and 25 to 92 mm in northern Greece, benefiting summer crops. Light to moderate rain (10-25 mm, with local amounts in excess of 50 mm) returned to corn areas in southwestern France, maintaining abundant moisture for corn. Dry weather persisted over England, the Netherlands, northern Germany, and northern Poland, increasing stress on winter and spring crops. Elsewhere, light to moderate rain (10-25 mm, with local amounts in excess of 40 mm) benefited crops in southern Poland, Czechoslovakia, Romania, Bulgaria, Italy's Po Valley, and eastern Yugoslavia. Dry weather returned to crop areas in Hungary. Average temperatures were 4-7 degrees C below normal in Spain, and 1-3 degrees C above normal in Eastern Europe.



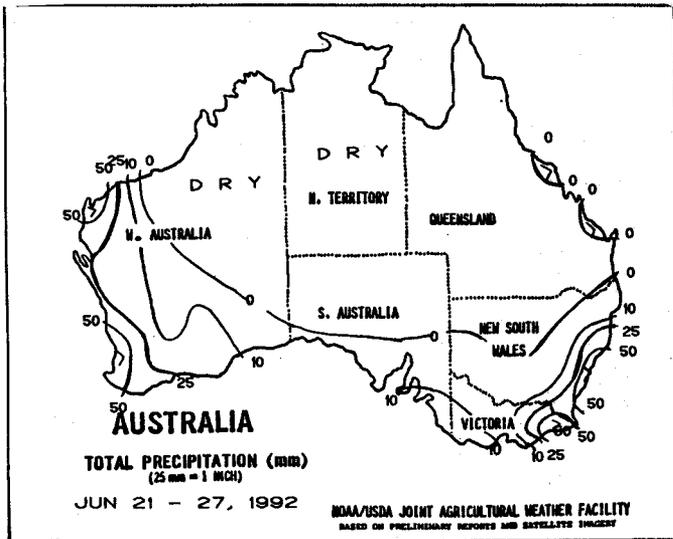
SOUTH ASIA ... Seasonal showers from the advancing southwest monsoon reached primary rainfed oilseed areas of Gujarat and Madhya Pradesh, with most of the region receiving 29 to 152 mm. Moderate to heavy rain (25-100 mm or more) was also widespread throughout eastern India and Bangladesh. Summer grain, oilseed, and cotton planting will become more widespread in central and northern India as the monsoon becomes established. In contrast, drier weather (25 mm or less) developed over much of India's southern interior, where more rain is needed for crop establishment. In northern India and Pakistan, where the monsoon is not yet established, scattered showers (3-23 mm) accompanied seasonably hot weather (highs in the low to mid 40's C).



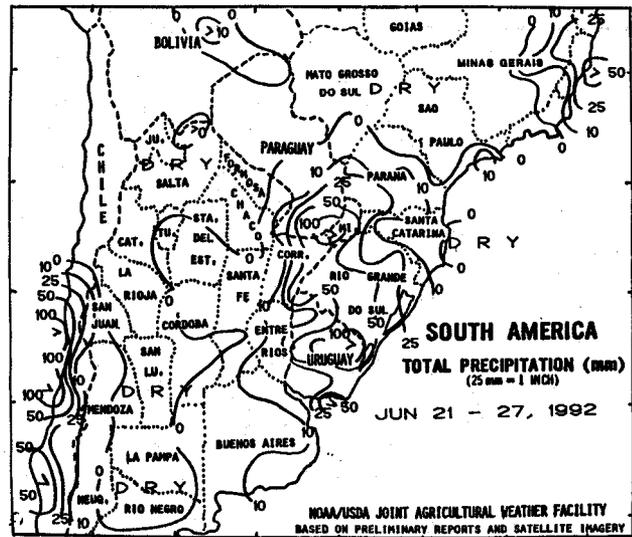
SOUTHEAST ASIA ... Rainfall tapered off over Thailand's rainfed rice and corn areas, with only local areas receiving more than 25 mm. Temperatures averaged near to above normal, with highs reaching the middle to upper 30's C. More rain is needed for corn and rice in or nearing reproduction, especially after the late start to the rainy season. The driest and warmest areas continued to be the drought-plagued Northern Hills region. In contrast, heavy showers (100-346 mm) fell over the Mekong Delta. In the Philippines, light to moderate showers continued throughout the islands, but rainfall averaged less than 25 mm over Mindanao. Typhoon Bobbie brought moderate to heavy rain to western Luzon as it passed near the island.



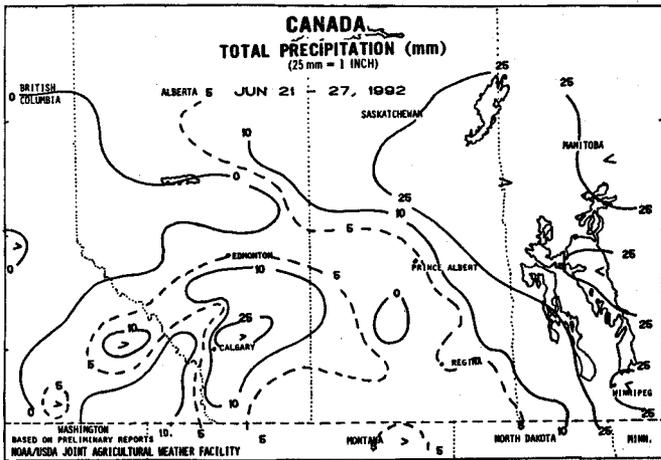
EASTERN ASIA ... Scattered light to moderate rain fell across the North China Plain, heaviest of which fell in Shandong, but significant portions of the region received little or no rain. Moisture is needed for corn, soybean, and cotton germination and early growth. However, the dryness helped wheat harvest, nearing completion. Temperatures were not as warm as previous weeks, averaging 2-3 degrees C below normal. Manchuria received light to moderate rain (6-33 mm), aiding germinating summer crops and vegetative to reproductive spring wheat. Widespread moderate (40-75 mm) rains prevailed from the Yangtze Valley southward, keeping irrigation supplies abundant. Heavier rain (110-201 mm) fell across northern Jiangxi and Zhejiang, replenishing reservoirs but causing some flooding. However, the rains delayed early double-crop rice harvesting across the south. Toward week's end, a tropical cyclone threatened Hainan Island. Temperatures averaged 2-5 degrees C below normal across central China and near normal across Manchuria and the extreme south.



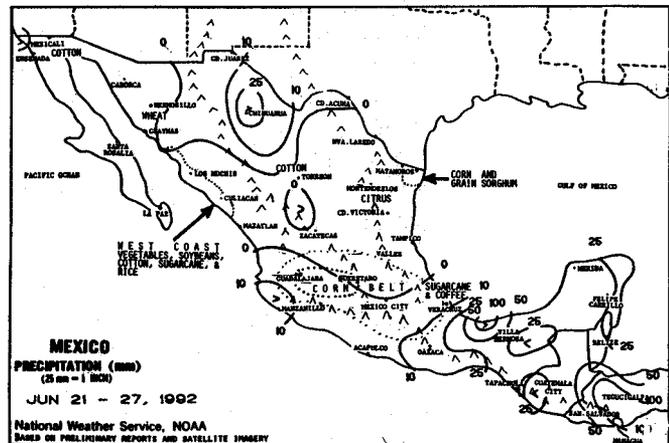
AUSTRALIA ... Little or no rain fell across the eastern winter grain areas, favoring late planting. However, moisture is needed across southern Queensland and northern New South Wales for winter wheat establishment. Moisture levels are adequate for germination in South Australia and Victoria. The western winter grain areas received light to moderate rainfall (5-57 mm), aiding germination. Favorable rainfall the last 2 weeks has improved crop establishment prospects across the west. Temperatures averaged near normal across most winter grain areas.



SOUTH AMERICA ... In Argentina, light rain (3-19 mm) fell across Buenos Aires, favoring topsoil moisture for winter wheat, but slowing wheat planting and soybean harvesting. Soybean harvesting should be greater than 90 percent completed. Moderate to heavy rain (54-144 mm) fell from extreme southern Paraguay, across northeastern Argentina and southern Brazil, and into Uruguay, causing possible local flooding. The winter wheat region of southern Brazil (eastern portions of Parana and Rio Grande do Sul) received light to moderate rain (11-51 mm) favoring vegetative wheat. Seasonal rains (25-127 mm) favored winter crops, vegetables, and irrigation levels across central Chile. Temperatures averaged 3-7 degrees above normal across central Argentina and southern Brazil, favoring winter grain development.



CANADA ... Dry, warm weather developed over the western Prairies, with only local crop areas of Alberta and western Saskatchewan receiving more than 5 mm. Temperatures in the west averaged near to above normal, with highs in the southwest reaching the low 30's C. Newly planted spring wheat, while recently receiving beneficial rain, is developing with limited moisture and more is needed soon to compensate for the elevated temperatures. In contrast, milder and wetter weather (rainfall of 5-38 mm) improved topsoil moisture in eastern Saskatchewan and Manitoba. Temperatures were cooler than normal in the eastern Prairies, but no freezing temperatures were reported in grain or oilseed areas. In the east, light rain (10-23 mm) fell through southern Ontario and Quebec, but temperatures averaged 3 to 7 degrees C below normal, slowing development of heading winter wheat. Temperatures remained above freezing in winter wheat areas of southern Ontario, but local frosts were possible. Further north, freezing weather caused minor damage to corn.



MEXICO ... Dry weather again prevailed across central Mexico, where soil moisture levels still remain adequate for vegetative to reproductive corn. Temperatures averaged 2-3 degrees C above normal across the Southern Plateau corn belt. The wet season usually begins in earnest by late June. There is plenty of time for growing season moisture with significant July and August rainfall. Tropical showers (24-100 mm) remained confined to southeastern Mexico.

The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic second class \$35, first class \$50, foreign \$50 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, DC, and additional mailing offices.

U.S. DEPARTMENT OF COMMERCE

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

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

U.S. DEPARTMENT OF AGRICULTURE

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

(Continued from front cover)

rainfall amounts to coastal west-central areas. The strip between **Tampa** and **Fort Myers** accumulated 10 to 24 inches of rain on June 24-26. Little rain fell in the western half of the **Corn Belt**, with less than one-half inch in central and northern **Illinois**, southern **Wisconsin**, and eastern **Iowa**. Much of this region has recorded less than one inch of rain so far this month. Strong thunderstorms triggered scores of severe weather reports during the week in the **Mountain States**, the **southern Plains**, the **Southeast**, and the **Northeast**. Over 2-inch rainfall totals plagued farmers from **Kansas** south to **Texas**.

**WEEKLY NEWS BULLETIN
SECOND CLASS**

NOAA/USDA Joint Agricultural
Weather Facility
USDA South Building, Room 5844
Washington, DC 20250

SECOND CLASS MAIL
POSTAGE AND FEES PAID
NOAA PERMIT NO.
ISSN 0043 1974

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300