

# WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service  
and World Agricultural Outlook Board

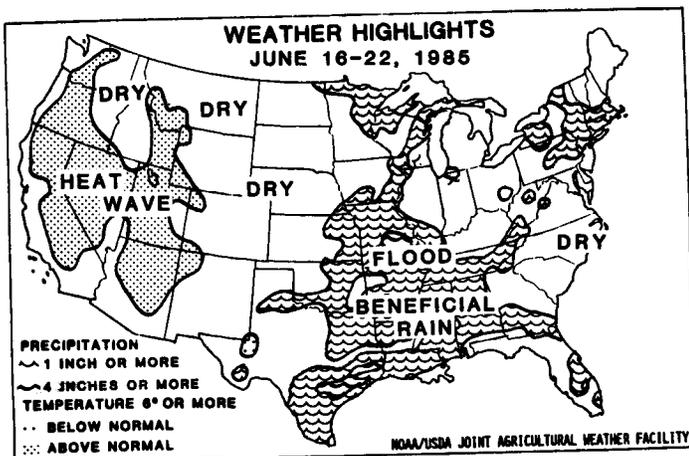
Volume 72, No. 25

WASHINGTON, D.C.

June 25, 1985

## National Weather Summary

June 16 to 22, 1985



TUESDAY...Heavy showers and severe weather concentrated from southeastern Texas through the lower Mississippi Valley. Less intense thundershowers fell in Alabama and the East Coast States. Florida had little rain. Lighter showers and thunderstorms were scattered over most of Texas and the upper Mississippi Valley. Hot weather continued in the West Coast States and pushed northward through Washington.

WEDNESDAY...Showers and thunderstorms were scattered along the gulf coast, the southeastern Atlantic Coast, over the western slopes of the Appalachia, and the eastern Great Lakes. Record-low temperatures were recorded in the northern Rockies, the central Plains, and the Lakes States, while record highs were in the Southeast.

THURSDAY...Thundershowers continued along the western gulf coast and in southern Florida. Elsewhere, showers and thunderstorms spread from Maryland and West Virginia to New England, through much of the Rockies, and into the central and northern Plains. Much cooler temperatures spread over the East, but the Plains were warming again.

**HIGHLIGHTS:** Showers and thunderstorms covered most areas east of the Rocky Mountains, but little or no rain fell in the West. Tornadoes, hail, heavy rain, and high winds accompanied many thunderstorms. Heavy downpours caused local flooding in southeastern Texas, southern Arkansas, the lower Missouri River, and in isolated parts of the Southeast. Although showers fell almost everywhere in the East, some parts of the Midwest, and the Southeast remained very dry. Temperatures were cooler than normal in most of the East and much warmer than normal in the West. Temperatures in the northern Sierra mountains averaged up to 12 degrees above normal. Afternoon high temperatures rose well above 100 degrees in central and southern California and the nineties reached northward into Canada.

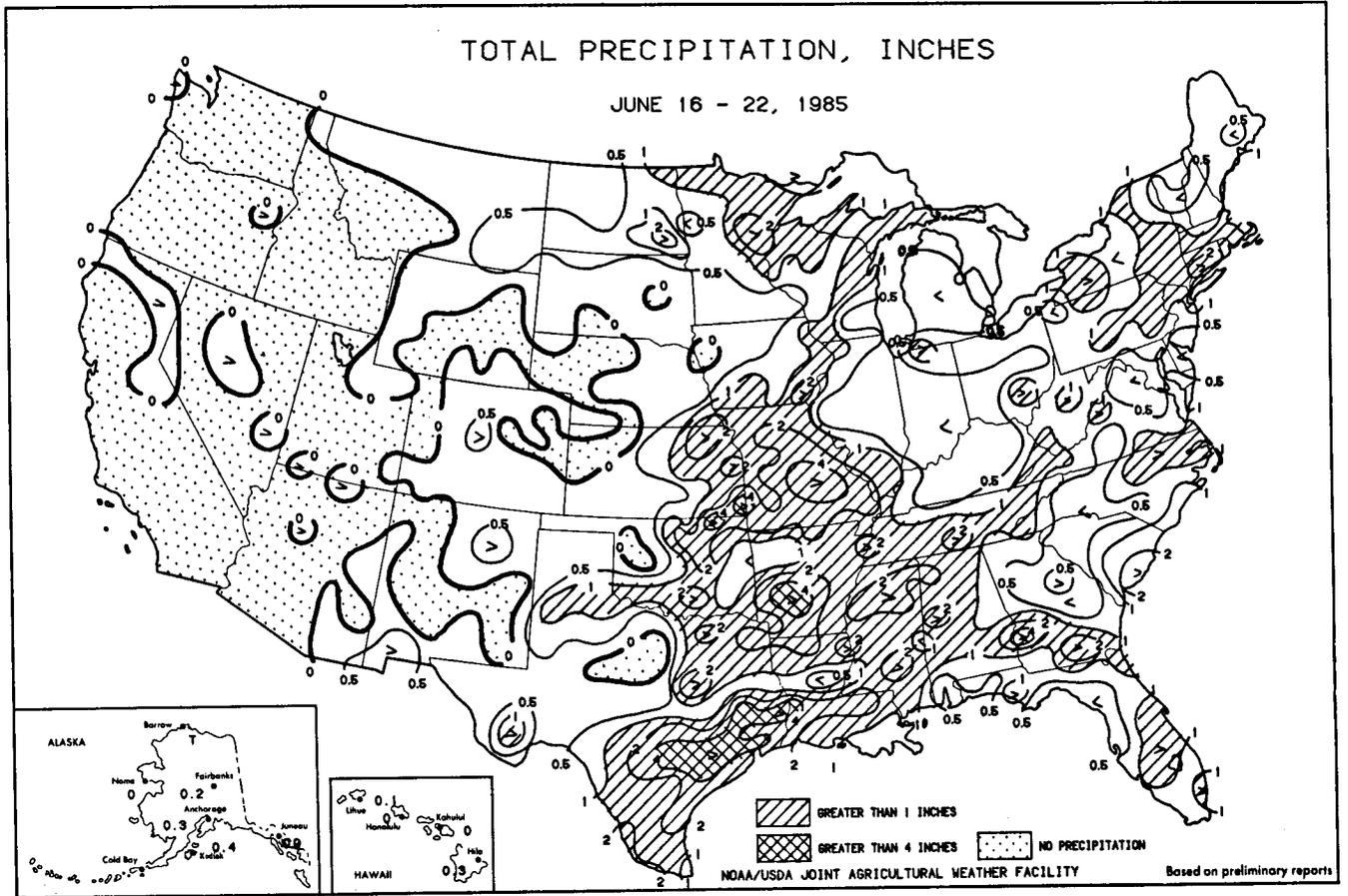
FRIDAY...Showers and thunderstorms covered the Mississippi Valley and western Great Lakes. The heaviest rain fell in the western Lakes region and in Missouri, Oklahoma, and Kansas. Record-cool temperatures were over parts of the Southeast, but daytime highs rose to near 90 degrees.

SATURDAY...Showers were concentrated from south central Texas through Arkansas and from the Ohio Valley to southern New England. The most violent thunderstorms were in Texas, Arkansas, and in southern Ontario, Canada. Another surge of cool air pushed into the northern Plains.

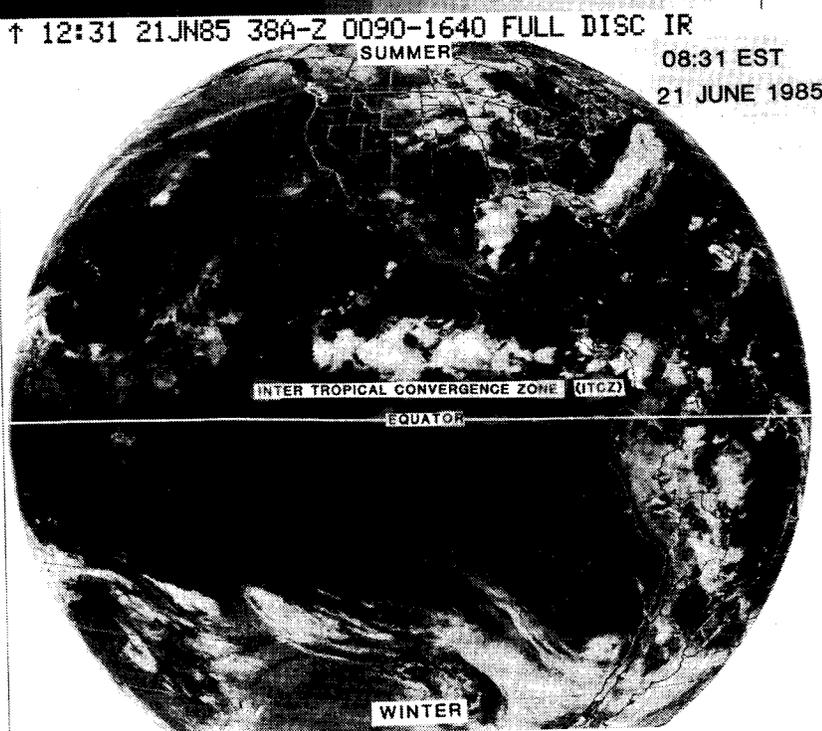
SUNDAY...Showers and thunderstorms fell throughout the East Coast States with isolated areas of severe weather. Showers fell in much of the central Plains and from the upper Mississippi Valley across the Great Lakes region. Severe weather was concentrated in a band from southeastern Nebraska to southern Illinois. Warm weather continued in the Southwest and pushed northward in the Plains.

MONDAY...Very heavy downpours of rain moved through southern Missouri to southern Arkansas, then to eastern Tennessee. Showers and thundershowers of less intensity fell from the upper Mississippi Valley through the Northeast, west of the southern Appalachians, from the lower Mississippi Valley into Georgia, and through Oklahoma, western Texas, and eastern Colorado.

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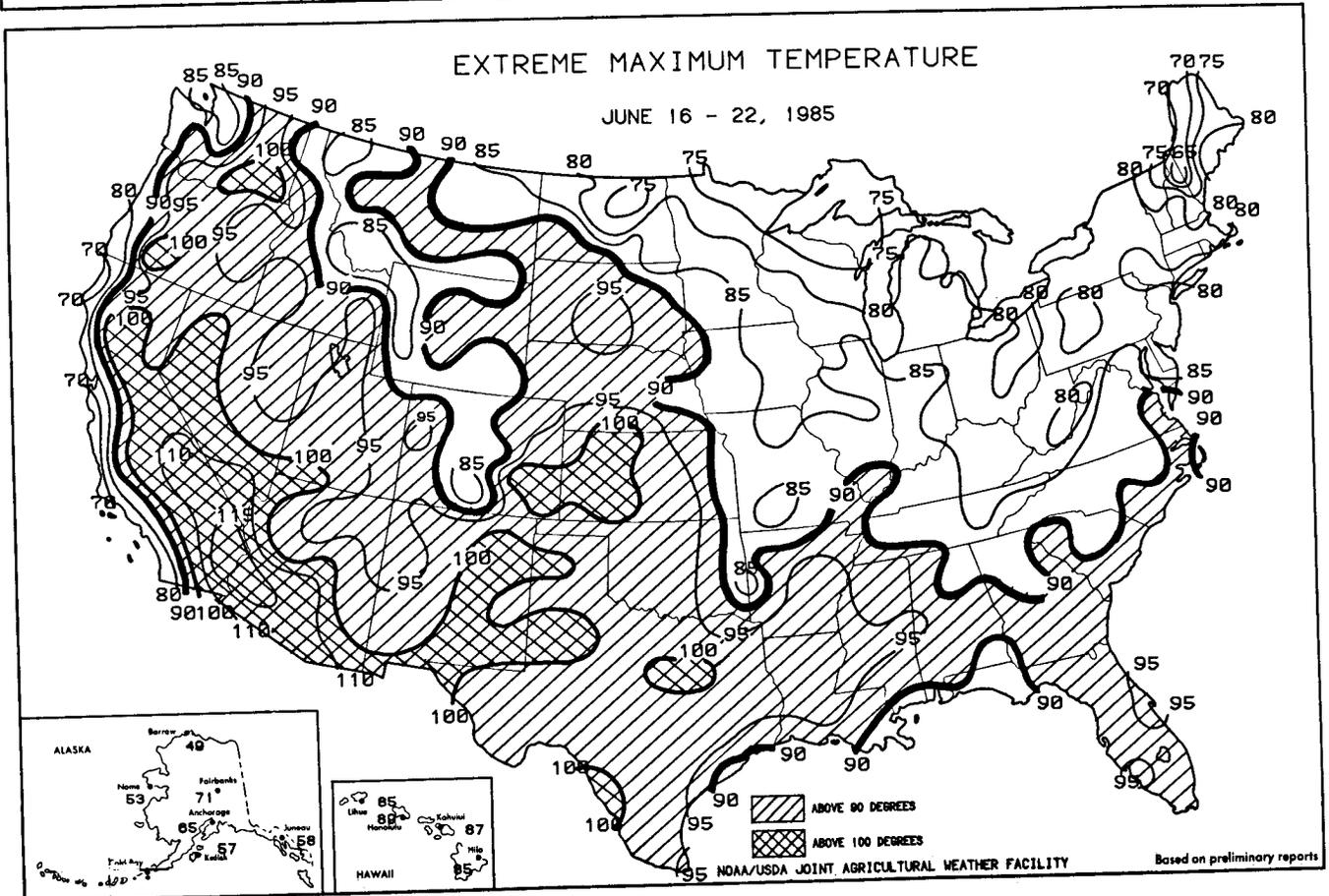
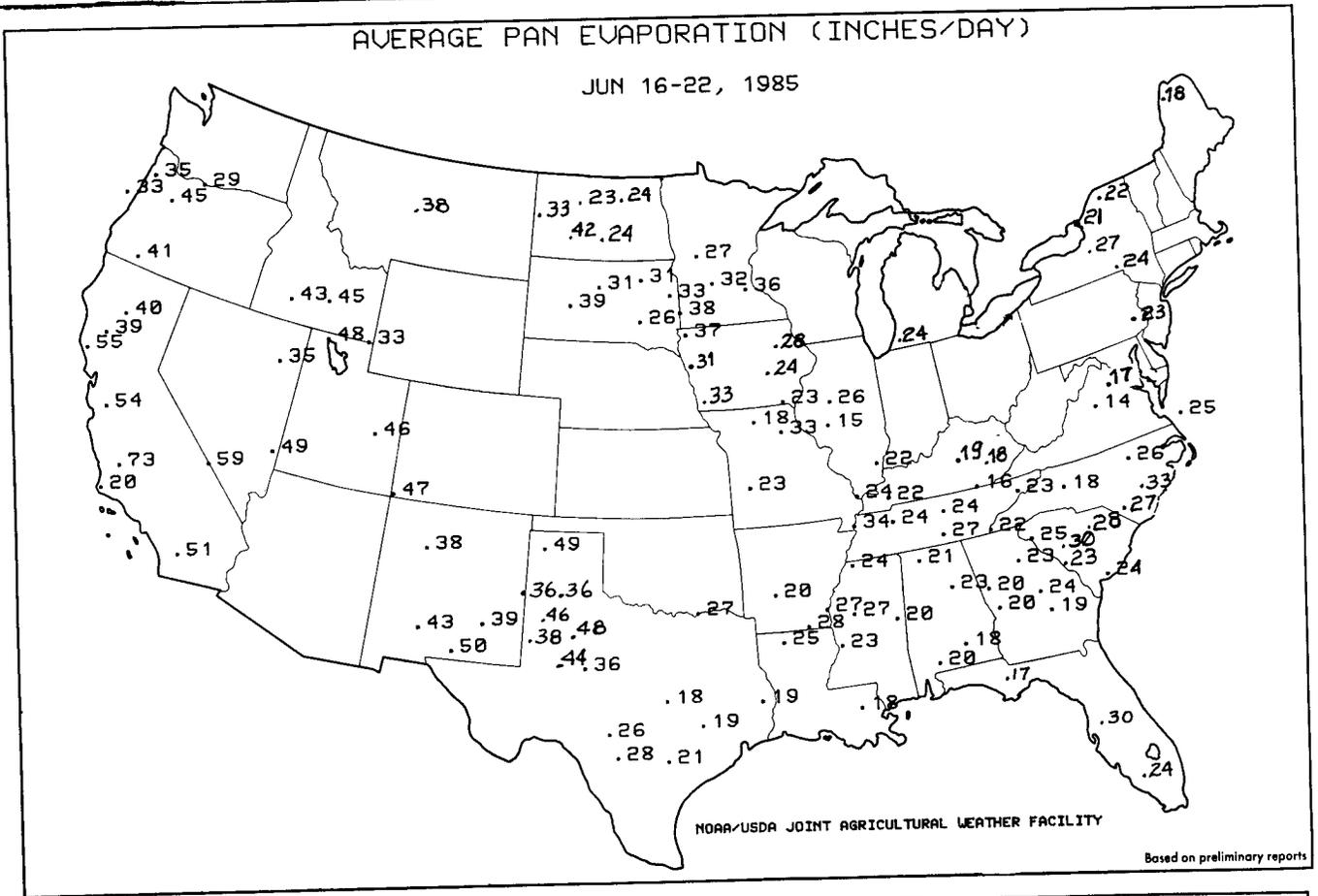
THE FULL DISC PICTURE FROM THE GEOSTATIONARY SATELLITE SHOWS NORTH AND SOUTH AMERICAS WITH REMARKABLE CLARITY.

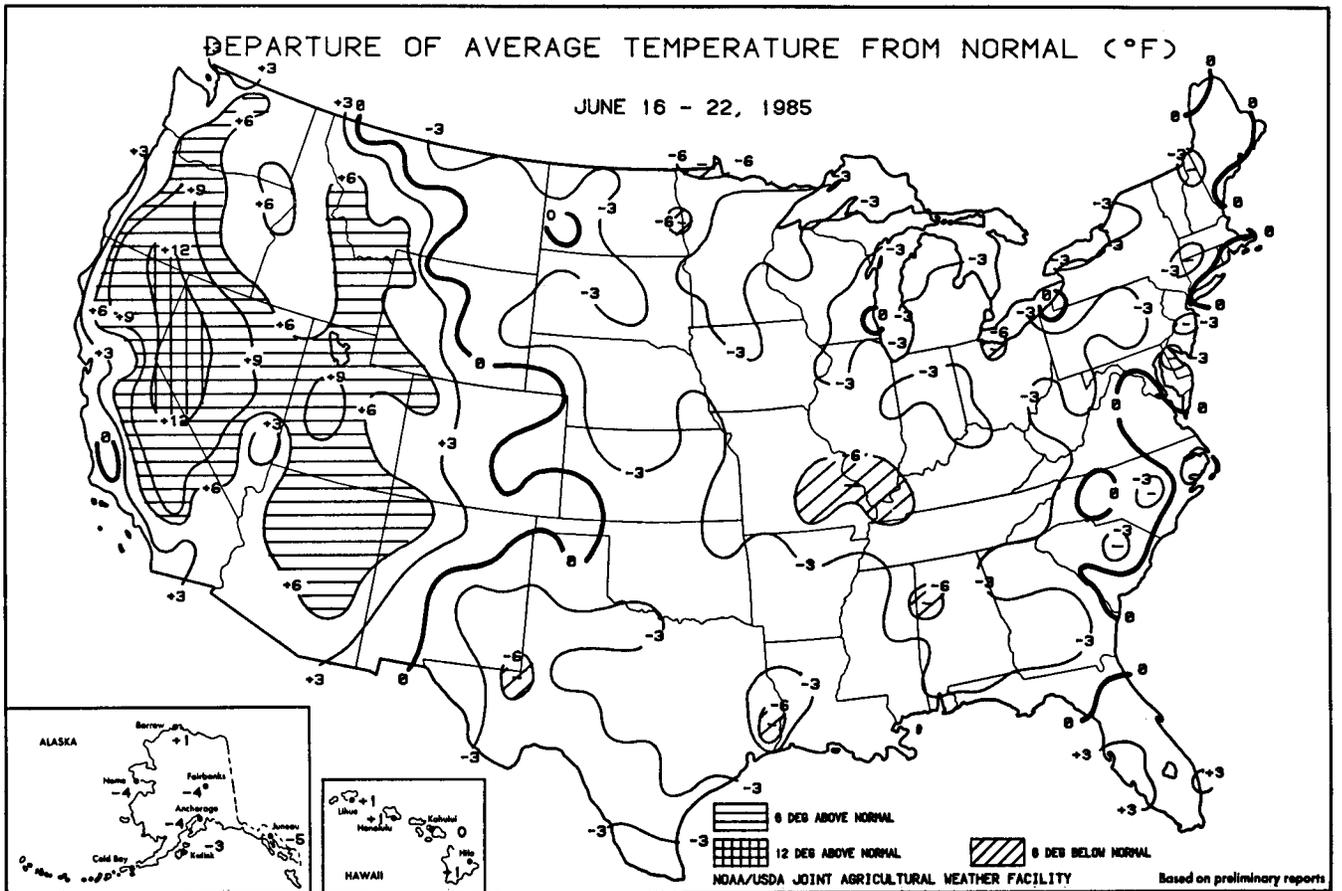
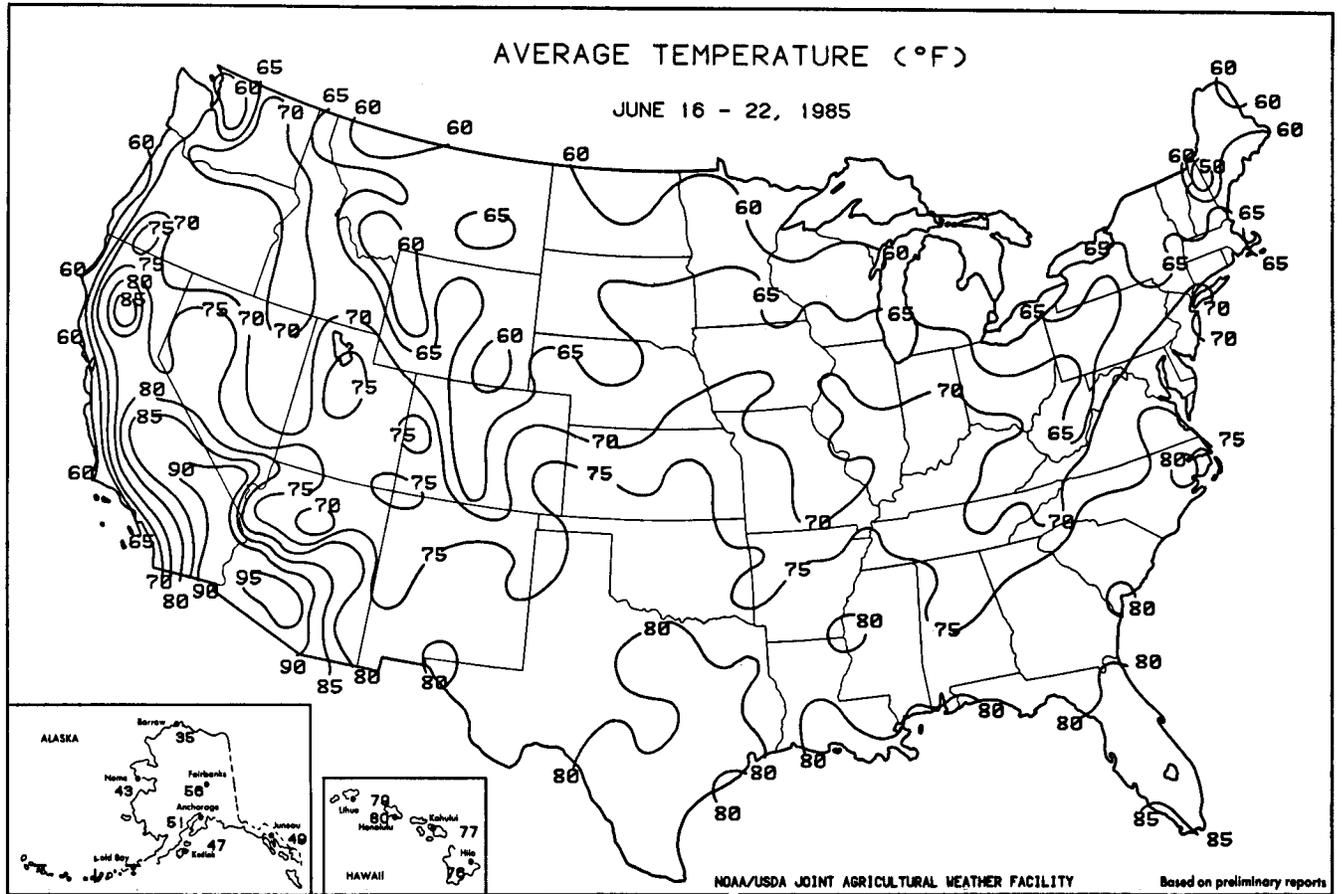


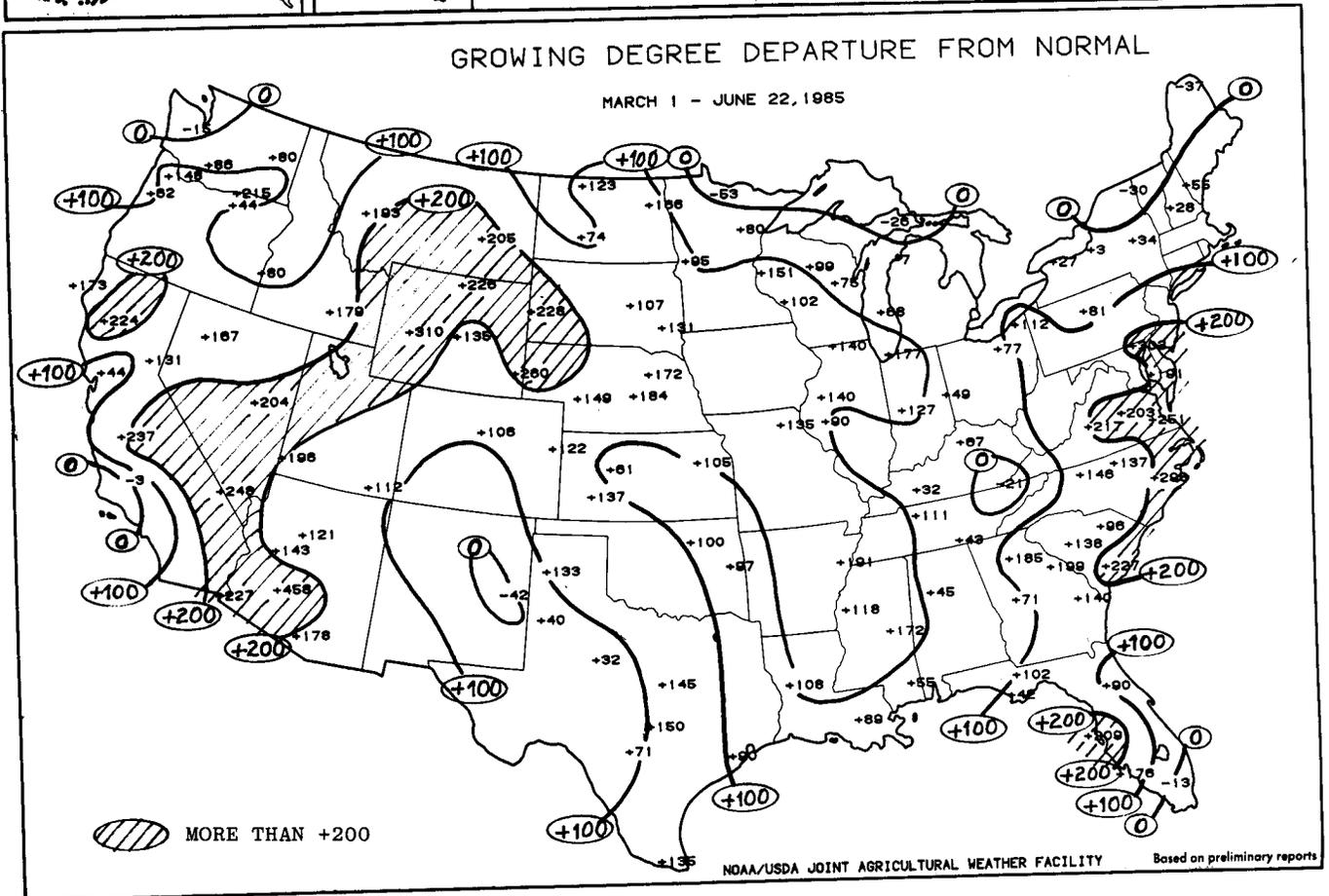
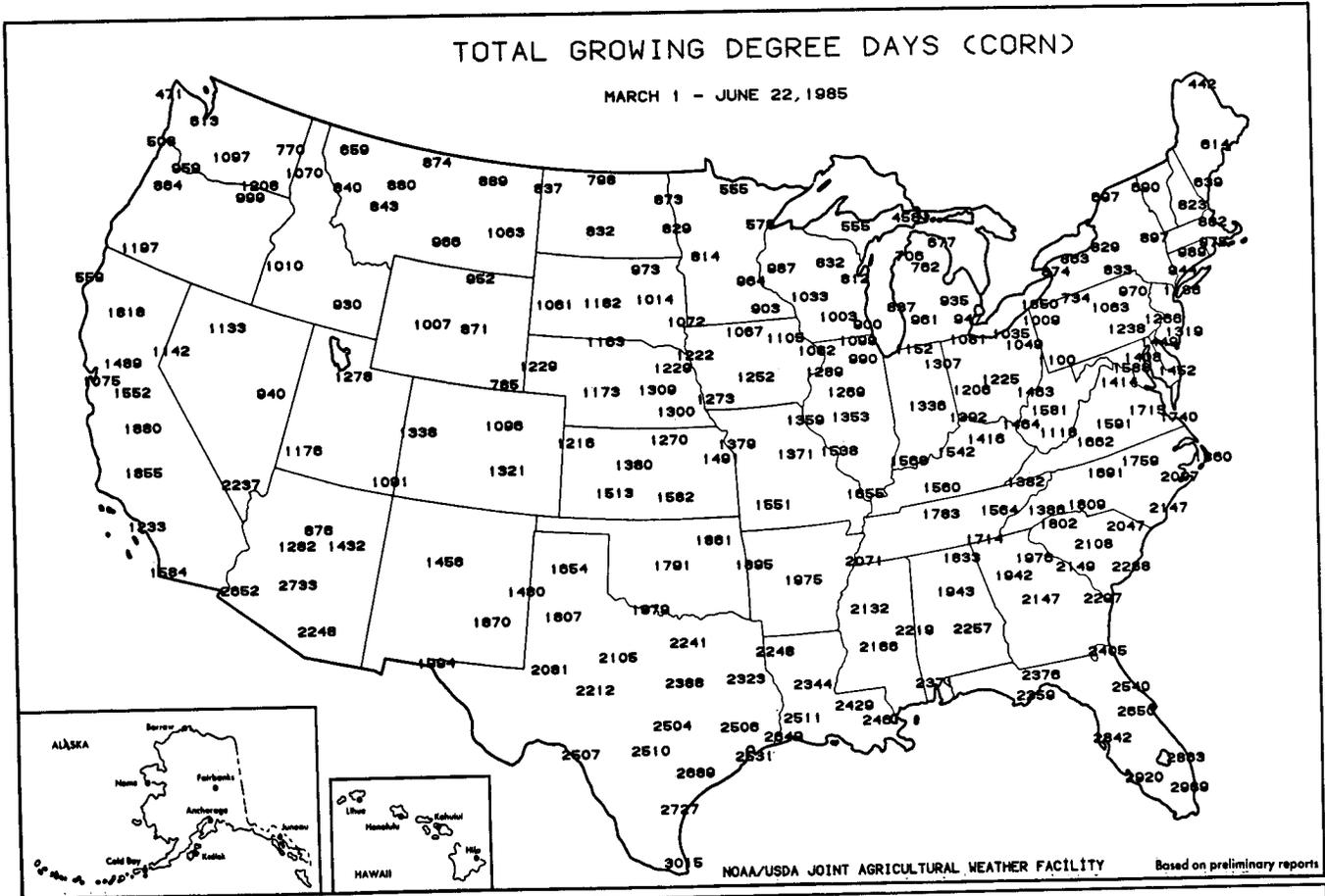
THE INTERTROPICAL CONVERGENCE ZONE (ITCZ) IS SHOWN LYING BETWEEN 5 AND 10 DEGREES NORTH OF THE EQUATOR. DURING THE NORTHERN HEMISPHERE WINTER, IT WOULD BE SOUTH OF THE EQUATOR. THIS ZONE IS VERY ACTIVE IN ITS EASTERN PORTION BUT RATHER WEAK FARTHER WEST.

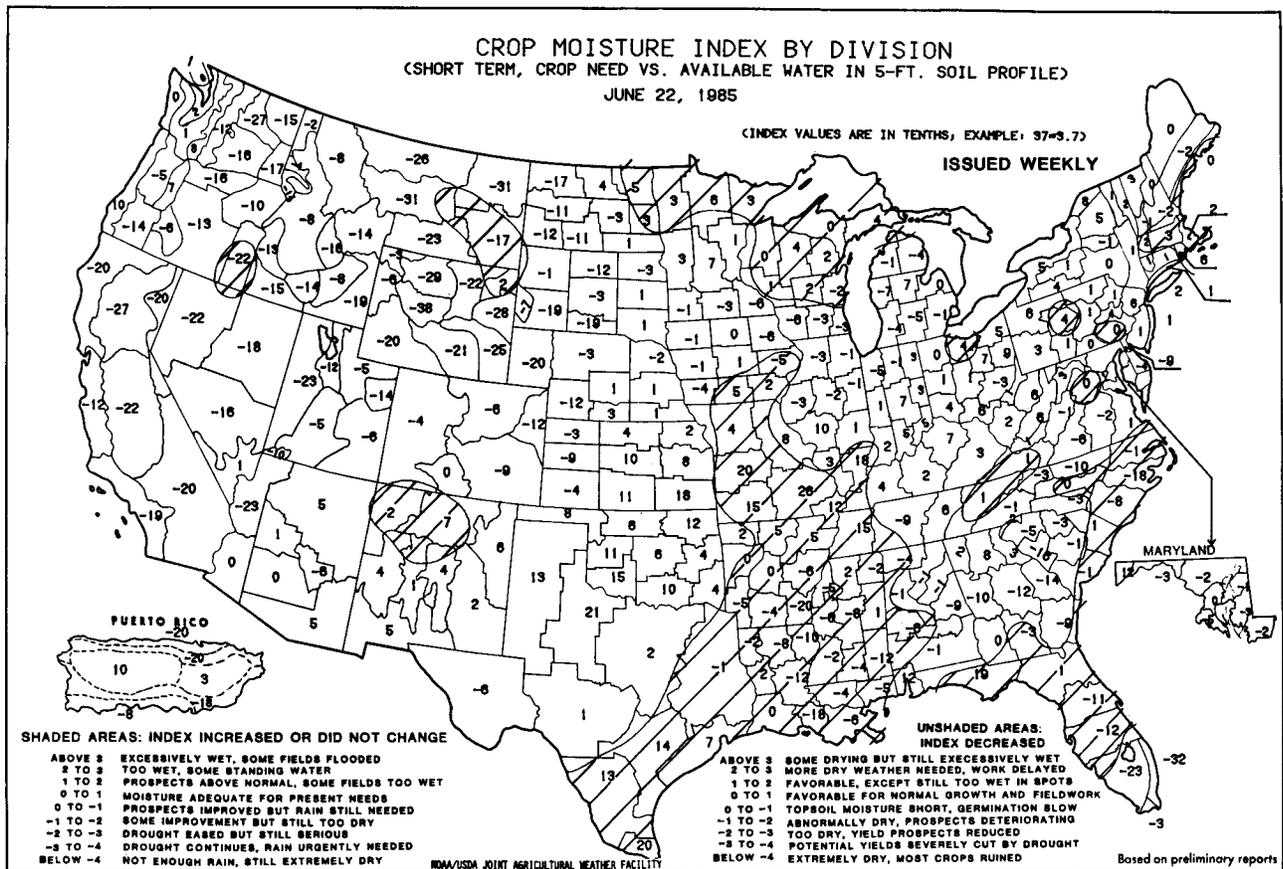
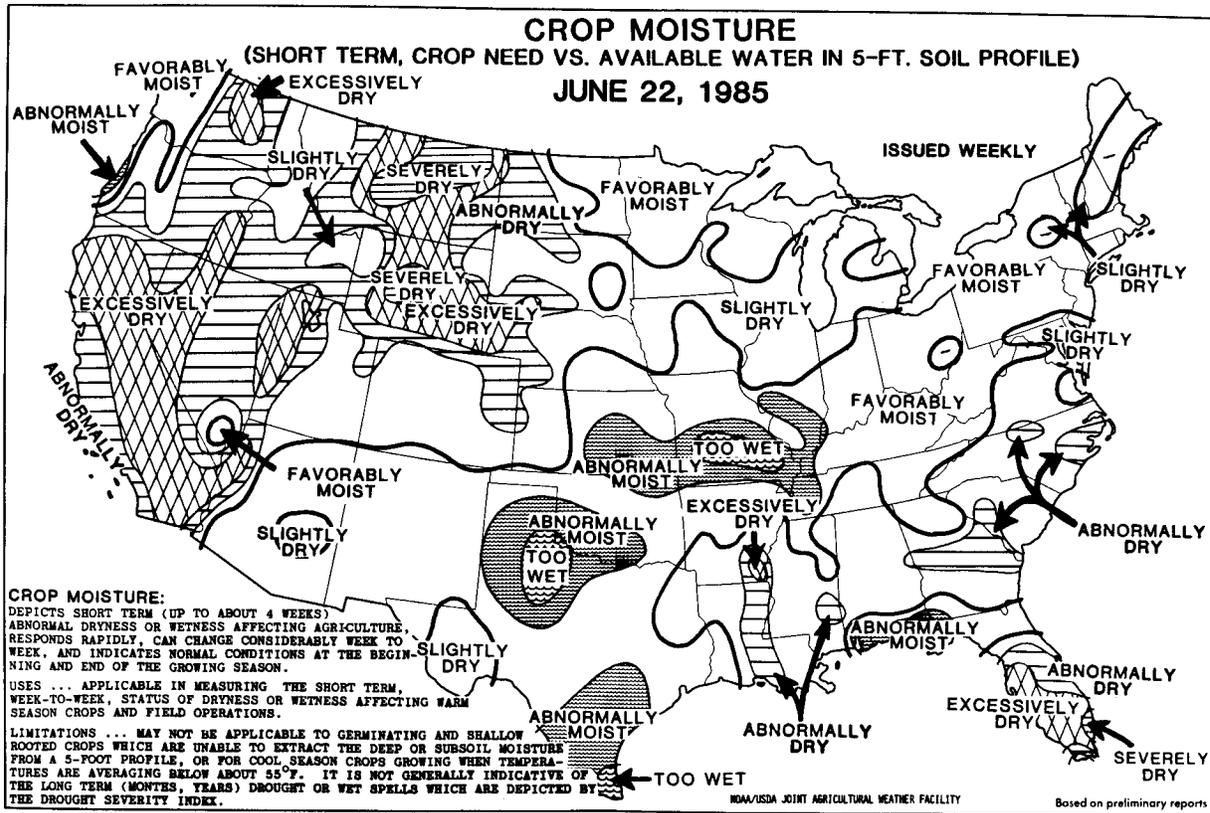
HEAVY CLOUDINESS INDICATES STRONG THUNDERSTORMS IN THE GULF OF MEXICO AND ALONG A COLD FRONT EAST OF THE UNITED STATES.

- \* SNOW
- RAIN
- ▽ RAINSHOWERS
- ⚡ THUNDERSTORMS
- ⊙ PRECIPITATION AREAS









Weather Data for the Week Ending June 22, 1985

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 June 1	PCT. NORMAL SINCE June 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
AL BIRMINGHAM	83	63	89	54	73	-5	1.1	.3	.6	3.3	131	21.3	74	100	59	0	0	3	1
MOBILE	86	69	89	67	78	-3	.2	-.9	.1	3.5	100	27.4	90	90	52	0	0	3	0
MONTGOMERY	86	66	91	61	76	-4	.8	.3	.3	2.0	81	22.3	88	96	55	1	0	3	0
AK ANCHORAGE	58	44	65	39	51	-4	.3	.1	.2	.5	73	4.8	109	82	46	0	5	1	0
BARROW	40	31	49	27	35	1	1	-.1	T	T	14	.6	55	94	75	0	0	0	0
FAIRBANKS	64	48	71	47	56	-4	.2	-.1	.1	1.1	118	3.4	110	91	43	0	0	5	0
JUNEAU	54	43	58	41	49	-5	.9	-.2	.7	2.6	121	12.0	65	93	56	0	0	5	1
KODIAK	54	41	57	37	47	-3	.4	-.3	.2	5.5	207	33.3	98	93	55	0	0	5	0
NOME	51	35	53	32	43	-4	0	-.3	0	.3	38	4.1	105	92	57	0	2	0	0
AZ PHOENIX	109	81	112	79	95	7	0	-.1	0	0	0	1.8	69	26	9	7	0	0	0
PRESCOTT	92	59	97	55	76	8	0	-.1	0	0	0	5.1	82	47	18	5	0	0	0
TUCSON	105	75	109	73	90	6	0	T	T	.1	400	3.5	135	37	9	7	0	0	0
YUMA	109	78	112	76	93	5	0	0	0	0	0	.3	30	51	14	7	0	0	1
AR PORT SMITH	88	64	94	55	76	-3	.9	0	.9	2.8	99	24.8	123	92	48	2	0	0	1
LITTLE ROCK	87	67	97	62	77	-2	2.1	1.4	-.9	2.2	89	21.7	87	83	52	2	0	4	2
CA BAKERSFIELD	99	70	105	65	85	6	0	0	0	.3	486	1.9	49	50	22	7	0	0	0
EUREKA	64	50	66	49	57	2	0	-.1	0	-.9	188	11.5	52	95	72	0	0	0	0
FRESNO	102	69	107	62	86	10	0	0	0	.3	413	3.3	46	60	22	7	0	0	0
LOS ANGELES	71	61	72	60	66	0	0	0	0	0	0	3.5	42	85	58	0	0	0	0
RED BLUFF	101	71	109	65	86	9	T	-.1	T	.1	20	4.9	38	64	23	7	0	0	0
SACRAMENTO	90	58	104	56	74	2	0	0	0	.2	136	4.4	41	88	38	3	0	0	0
SAN DIEGO	73	65	74	64	69	3	0	0	0	0	0	2.2	35	78	61	0	0	0	0
SAN FRANCISCO	75	56	80	55	65	4	T	-.1	T	.3	264	6.8	54	88	53	0	0	0	0
CO DENVER	85	56	94	48	70	2	T	-.4	T	.5	40	6.4	81	57	19	3	0	0	0
GRAND JUNCTION	94	62	96	57	78	4	T	-.1	T	.1	19	4.6	121	43	15	7	0	0	0
PUEBLO	90	54	102	47	72	0	.1	-.2	.1	.1	12	4.7	104	69	20	4	0	1	1
CT BRIDGEPORT	78	60	79	56	69	0	2.8	2.1	2.4	4.1	194	14.8	76	90	55	0	0	4	1
HARTFORD	79	55	83	49	67	-2	1.2	.4	.9	2.8	112	11.7	56	88	43	0	0	2	0
DC WASHINGTON	82	64	86	58	73	-3	.1	-.7	.1	1.9	77	14.8	84	89	45	0	0	1	0
FL APALACHICOLA	86	71	88	67	78	-2	.2	-1.0	.2	3.1	94	16.7	81	92	56	5	0	3	0
DAYTONA BEACH	91	74	99	72	82	3	.7	-.9	.5	5.9	125	15.2	81	92	56	5	0	1	1
JACKSONVILLE	86	69	93	63	78	-2	1.5	.2	1.5	2.7	71	11.3	50	90	56	3	0	1	0
KEY WEST	90	82	91	80	86	3	0	-1.2	0	.2	5	17.8	133	80	62	3	0	0	0
MIAMI	90	77	92	74	84	3	1.1	-1.1	1.0	1.8	26	10.0	44	85	58	6	0	3	1
ORLANDO	92	73	95	70	82	1	1.4	-.4	1.0	3.3	63	14.8	76	96	53	6	0	4	1
TALLAHASSEE	88	69	92	63	78	-2	.5	-1.0	.5	6.0	132	18.8	65	98	56	4	0	2	1
TAMPA	92	76	95	73	84	3	.1	-1.2	.1	5.2	141	12.3	70	87	52	6	0	1	0
WEST PALM BEACH	90	77	91	75	83	2	.1	-1.8	0	.7	12	13.5	58	91	57	4	0	2	0
GA ATLANTA	84	65	89	58	74	-2	T	-.7	T	1.7	71	20.1	77	86	47	0	0	1	0
AUGUSTA	89	66	93	57	78	0	.1	-.8	.1	2.0	71	15.8	69	93	43	4	0	2	0
MACON	88	67	93	61	78	-2	.2	-.8	.1	.8	30	14.9	62	89	44	4	0	3	0
SAVANNAH	88	69	93	65	79	0	.9	-.5	.8	6.2	154	13.5	62	87	47	0	0	3	0
HI HILO	83	68	85	65	76	1	.3	-1.1	.3	.9	21	68.3	108	88	58	0	0	0	0
HONOLULU	88	72	89	67	80	1	T	-.1	T	T	0	7.8	60	74	44	0	0	0	0
KAHULUI	86	68	87	62	77	0	0	-.1	0	T	0	5.9	47	89	52	0	0	2	0
LIHUE	84	73	85	68	79	1	.1	-.3	.1	.1	9	14.4	65	80	57	3	0	0	0
ID BOISE	90	54	99	48	72	5	T	-.2	T	.4	48	4.6	67	56	15	3	0	0	0
LEWISTON	89	56	98	49	73	6	0	-.4	0	.8	72	4.5	65	53	16	3	0	0	0
POCATELLO	87	52	96	43	69	6	0	-.2	0	.3	41	5.0	82	55	17	2	0	0	0
IL CHICAGO	76	54	83	44	65	-5	.3	-.7	.2	1.9	64	15.9	104	91	42	0	0	3	1
MOLINE	80	59	85	50	70	-3	1.0	0	.5	2.2	69	16.2	95	85	37	0	0	2	0
PEORIA	79	58	85	52	69	-4	.5	-.4	.2	2.2	76	15.8	96	91	41	0	0	5	0
QUINCY	80	59	87	53	69	-4	.2	-.7	.2	2.2	75	14.1	82	96	46	0	0	3	0
ROCKFORD	78	54	86	45	66	-4	.6	-.5	.3	1.8	54	12.8	78	96	42	0	0	3	0
SPRINGFIELD	80	59	87	51	70	-5	.1	-.8	.1	4.5	165	15.4	93	95	46	0	0	3	0
IN EVANSVILLE	82	63	87	56	72	-3	.3	-.5	.3	4.4	174	23.4	108	75	40	0	0	2	1
FORT WAYNE	79	58	85	52	68	-3	.6	-.3	.5	2.6	96	15.8	95	83	44	0	0	3	0
INDIANAPOLIS	79	60	85	55	70	-3	.1	-.8	.1	3.0	106	21.3	113	90	50	0	0	4	0
SOUTH BEND	75	57	83	51	66	-4	1.0	0	.5	2.9	101	17.1	99	85	43	0	0	1	1
IA DES MOINES	82	57	88	53	70	-3	.9	-.1	.9	2.8	87	10.6	72	85	41	0	0	0	0
SIOUX CITY	83	56	91	50	69	-3	T	-.9	T	.2	8	11.1	93	78	35	2	0	3	1
WATERLOO	78	54	83	47	66	-4	.8	-.2	.6	2.1	68	10.6	72	89	40	0	0	3	0
KS CONCORDIA	86	58	96	50	72	-3	.7	-.3	.5	2.7	84	12.4	97	86	32	2	0	3	0
DODGE CITY	90	62	102	49	76	0	T	-.7	T	1.9	86	7.9	81	65	24	4	0	1	0
GOODLAND	88	55	99	44	71	0	T	-.6	T	.4	20	7.0	89	65	21	3	0	0	1
TOPEKA	88	59	96	55	74	-2	1.3	0	1.2	4.3	113	16.8	112	88	33	3	0	3	0
WICHITA	88	63	96	53	75	-2	.1	-.9	.1	4.1	135	12.3	96	78	32	3	0	2	0
KY BOWLING GREEN	81	61	85	55	71	-5	.3	-.8	.2	2.5	74	15.4	60	96	46	0	0	2	0
LEXINGTON	79	59	82	51	69	-4	.2	-.8	.2	3.8	125	17.2	75	91	49	0	0	2	0
LOUISVILLE	81	61	85	54	71	-4	.1	-.8	.1	3.2	120	17.5	79	92	49	0	0	2	0
LA ALEXANDRIA	87	68	96	59	78	-4	.5	-.4	.4	1.4	47	21.8	73	91	56	3	0	3	1
BATON ROUGE	87	72	94	68	79	-2	2.2	1.5	1.9	3.8	191	22.8	86	89	55	3	0	3	1
LAKE CHARLES	87	73	94	70	80	-1	1.4	.5	1.3	1.5	49	20.2	86	97	65	2	0	3	0
NEW ORLEANS	86	72	89	69	79	-2	.5	-.5	.4	3.0	91	27.3	99	88	57	0	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending June 22, 1985

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 June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	89	68	95	59	78	-2	1.2	-.5	1.2	4.5	174	20.6	88	97	54	3	0	2	1
ME CARIBOU	70	50	78	45	60	-2	.4	-.4	.2	2.0	88	11.9	81	92	51	0	0	3	0
PORTLAND	72	55	80	51	63	0	1.1	-.4	.6	1.6	71	10.6	51	89	51	0	0	1	0
MD BALTIMORE	82	61	85	54	71	-2	.7	-.2	.5	2.3	82	16.1	83	89	47	0	0	2	0
SALISBURY	80	61	83	53	71	-2	.2	-.6	.2	1.6	64	13.4	68	98	54	0	0	2	0
MA HOSTON	76	60	80	56	68	-1	1.2	-.5	.6	2.8	127	12.9	61	89	51	0	0	3	1
CHATHAM	71	58	76	56	64	2	1.3	-.6	1.0	6.0	289	20.6	93	--	0	0	0	1	0
MI ALPENA	73	48	77	41	60	-2	.6	-.2	.3	1.0	42	13.5	107	97	42	0	0	4	0
DETROIT	73	52	81	48	62	-6	.2	-.6	.1	1.6	65	17.7	122	90	48	0	0	3	0
FLINT	73	52	83	46	62	-5	.4	-.4	.4	1.7	70	17.1	128	94	50	0	0	2	0
GRAND RAPIDS	73	54	82	48	63	-5	.3	-.7	.1	1.7	59	15.0	97	90	42	0	0	2	0
HOUGHTON LAKE	70	51	77	43	60	-3	.4	-.4	.3	1.2	55	12.7	106	94	45	0	0	4	0
LANSING	73	53	83	45	63	-5	.4	-.4	.3	2.2	84	15.6	115	93	44	0	0	2	0
MARQUETTE	68	46	73	39	57	-3	.9	0	.6	1.4	50	22.1	128	94	49	0	0	4	1
MUSKOGON	72	52	82	43	62	-5	T	-.6	T	1.0	52	14.0	99	85	49	0	0	1	0
SAULT STE. MARIE	69	46	77	40	57	-2	1.3	-.5	.5	1.6	67	18.5	136	98	55	0	0	5	1
MN ALEXANDRIA	74	53	84	49	64	-3	.7	-.3	.4	2.4	80	12.1	111	91	44	0	0	3	0
DULUTH	69	47	76	40	58	-2	1.3	-.3	.8	1.4	49	11.2	93	91	50	0	0	5	1
INT'L FALLS	68	46	75	40	57	-6	1.7	-.8	1.1	2.5	97	14.1	150	93	47	0	0	4	1
MINNEAPOLIS	76	55	82	50	65	-4	.6	-.4	.3	2.0	67	13.4	115	87	43	0	0	4	0
ROCHESTER	75	50	82	44	63	-5	.1	-.9	.1	.4	14	7.7	64	75	35	0	0	3	0
MS GREENWOOD	87	69	94	61	78	-2	.5	-.3	.3	1.7	71	15.6	54	96	53	3	0	2	0
JACKSON	88	66	96	56	77	-3	1.3	-.7	1.0	1.6	78	20.6	73	99	48	4	0	2	1
MERIDIAN	87	66	93	57	77	-2	.9	-.1	.5	2.6	110	21.4	76	100	56	3	0	2	0
MO CAPE GIRARDEAU	83	62	91	56	73	-	2.0	1.2	1.3	4.3	165	28.9	126	93	46	1	0	2	2
COLUMBIA	79	59	86	54	69	-5	3.0	2.2	2.4	9.2	329	27.5	155	96	48	0	0	3	2
KANSAS CITY	82	58	87	53	70	-5	.7	-.4	.6	2.7	79	17.2	109	90	41	0	0	3	1
SAINT LOUIS	81	62	89	56	72	-4	1.1	-.2	.8	8.7	325	25.1	149	92	48	0	0	3	1
SPRINGFIELD	82	60	84	56	71	-3	1.8	-.6	1.3	7.2	207	27.0	142	84	53	0	0	2	1
MT BILLINGS	82	51	94	47	67	2	T	-.5	T	.6	37	4.9	56	55	15	3	0	0	0
GLASGOW	78	50	87	42	64	-1	T	-.6	T	.1	5	3.7	65	73	22	0	0	1	0
GREAT FALLS	80	47	94	42	64	1	.1	-.6	.1	.6	27	5.7	65	67	19	1	0	1	0
HAVRE	78	44	93	36	61	-3	T	-.5	T	T	2	3.2	55	70	19	1	0	1	0
HELENA	83	50	93	42	67	6	0	-.5	0	.1	5	2.3	38	52	12	1	0	0	0
KALISPELL	77	42	83	37	59	0	.1	-.5	.1	1.6	90	6.1	75	92	28	0	0	1	0
MILES CITY	81	50	92	42	66	-2	.7	-.1	.6	.8	41	4.0	55	70	26	2	0	2	1
MISSOULA	84	48	93	42	66	6	T	-.4	T	.4	26	3.8	54	74	17	1	0	0	0
NE GRAND ISLAND	85	56	98	49	70	-2	.1	-.8	.1	1.3	47	12.0	100	77	28	1	0	1	0
LINCOLN	84	58	93	52	71	-2	T	-.9	T	1.1	38	10.1	77	79	32	1	0	1	0
NORFOLK	84	56	93	50	70	-2	T	-1.0	T	1.2	35	11.4	95	79	31	2	0	1	0
NORTH PLATTE	86	48	98	38	67	-3	T	-.8	T	.4	13	7.4	74	71	20	3	0	1	0
OMAHA	82	58	91	51	70	-2	.2	-.8	.1	1.6	50	11.0	80	74	42	1	0	2	0
SCOTTSBLUFF	86	49	94	43	68	-1	0	-.7	0	1.2	52	4.4	54	64	15	3	0	0	0
VALENTINE	84	47	98	38	66	-3	T	-.7	T	.4	17	3.8	45	68	20	3	0	0	0
NV ELY	91	46	93	42	68	8	T	-.2	T	T	6	3.5	70	58	12	5	0	0	0
LAS VEGAS	108	76	113	70	92	8	0	0	0	T	200	.6	33	17	5	7	0	0	0
RENO	97	56	101	53	76	13	T	-.1	T	.1	46	2.1	48	60	11	7	0	1	0
WINNEMUCCA	96	54	101	42	75	10	T	-.2	T	T	6	2.5	54	43	14	7	0	1	0
NH CONCORD	77	53	85	45	65	-1	.6	-.1	.4	1.5	70	10.4	64	99	49	0	0	3	0
NJ ATLANTIC CITY	84	63	86	57	73	3	.2	-.4	.2	.9	45	13.0	68	88	42	0	0	2	0
NM ALBUQUERQUE	92	63	97	58	77	2	.1	0	.1	.4	44	4.7	188	56	18	5	0	2	0
CLOVIS	86	58	95	53	72	-3	T	-.6	T	2.5	140	10.3	161	85	31	2	0	1	0
ROSWELL	91	64	99	57	78	-2	T	-.2	T	1.4	214	6.4	246	78	27	5	0	0	0
NY ALBANY	77	53	83	47	65	-2	1.8	1.0	1.4	3.1	126	12.7	78	97	45	0	0	4	1
BINGHAMTON	74	53	80	48	63	-2	1.0	-.2	.4	1.8	69	11.7	70	92	47	0	0	6	0
BUFFALO	74	56	84	51	65	-2	1.3	.6	.5	3.2	159	19.9	122	91	48	0	0	4	0
NEW YORK	79	64	81	60	71	-1	1.2	.5	1.2	3.4	150	14.4	73	84	48	0	0	2	1
ROCHESTER	75	54	85	48	65	-3	1.0	-.3	.6	2.4	118	13.6	94	94	49	0	0	4	1
SYRACUSE	76	54	85	46	65	-3	.5	-.3	.2	2.4	91	13.5	77	93	49	0	0	5	0
NC ASHEVILLE	81	53	87	46	67	-4	.2	-.8	.1	.8	25	13.6	58	97	39	0	0	2	0
CHARLOTTE	85	65	89	59	75	-1	.4	-.4	.4	4.3	166	21.2	96	91	43	0	0	1	0
GREENSBORO	84	62	87	55	73	-2	.1	-.8	.1	2.1	74	16.2	81	85	39	0	0	1	0
HATTERAS	82	68	85	62	75	0	.9	-.1	.5	1.4	46	18.1	78	97	61	0	0	3	1
NEW BERN	90	68	94	60	79	3	.4	-.8	.3	.9	26	15.0	66	86	39	4	0	2	0
RALEIGH	84	63	88	57	74	-1	1.8	-.9	1.4	2.3	86	17.1	86	88	41	0	0	3	1
WILMINGTON	87	70	93	63	79	1	1.0	-.4	1.0	2.8	71	15.0	67	92	49	2	0	1	1
ND BISMARCK	74	49	88	41	61	-4	.5	-.2	.3	1.4	61	8.4	109	90	37	0	0	2	0
FARGO	73	50	84	43	62	-5	.4	-.3	.2	1.4	64	8.7	107	90	44	0	0	2	0
GRAND FORKS	72	49	85	39	61	-4	.9	-.2	.8	1.0	46	7.9	107	77	37	0	0	3	1
WILLISTON	76	49	88	41	62	-3	0	-.6	0	.4	18	4.4	66	65	26	0	0	0	0
OH AKRON-CANTON	74	53	79	48	64	-5	.5	-.2	.3	2.7	116	18.4	106	96	56	0	0	4	0
CINCINNATI	79	60	83	54	70	-3	.2	-.8	.2	4.3	145	22.6	112	87	50	0	0	3	0
CLEVELAND	75	53	81	47	64	-5	.5	-.3	.5	2.9	113	17.1	101	81	46	0	0	2	0
COLUMBUS	77	57	82	55	67	-4	.2	-.8	.1	1.4	48	13.8	75	83	44	0	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending June 22, 1985

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 June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	76	58	82	51	67	-5	.2	-.8	.1	2.3	80	17.0	96	80	45	0	0	3	0
TOLEDO	77	54	84	50	65	-4	.6	-.2	.6	2.9	114	17.1	115	91	49	0	0	2	1
YOUNGSTOWN	74	53	80	48	64	-4	.6	-.2	.2	2.6	101	15.2	87	85	44	0	0	6	0
OK OKLAHOMA CITY	87	66	95	59	76	-2	T	-.8	T	6.4	215	24.5	156	73	40	1	0	1	0
TULSA	85	65	91	59	75	-3	1.7	.7	1.7	7.5	216	29.6	156	88	45	1	0	2	1
OR ASTORIA	70	51	88	41	61	4	T	-.6	T	3.1	162	19.7	55	89	55	0	0	0	0
BURNS	85	44	95	42	65	3	0	-.2	0	.1	17	3.4	106	78	19	2	0	0	0
MEDFORD	96	56	104	49	76	10	0	-.1	0	.4	67	4.8	47	89	55	0	0	0	0
PENDLETON	88	56	96	47	72	5	0	-.1	0	.8	134	4.4	68	52	14	2	0	0	0
PORTLAND	84	55	96	51	69	6	0	-.3	0	2.3	197	9.8	51	79	31	2	0	0	0
SALEM	86	47	96	40	66	5	0	-.3	0	2.4	243	11.4	54	90	29	2	0	0	0
PA ALLENTOWN	78	58	81	52	68	-2	1.5	-.6	1.0	4.5	180	15.2	75	89	45	0	0	2	2
ERIE	74	57	84	53	66	0	0	-.4	.3	3.2	117	18.2	106	88	53	0	0	3	0
HARRISBURG	75	56	81	52	66	-6	.6	-.3	.3	2.6	96	16.8	90	91	47	0	0	4	0
PHILADELPHIA	80	60	82	53	70	-3	.8	-.3	.4	1.7	61	13.2	68	90	48	0	0	3	0
PITTSBURGH	75	53	81	49	64	-5	.6	.1	.5	2.2	91	15.9	88	93	50	0	0	6	0
SCRANTON	75	56	80	48	65	-3	1.3	.4	.7	2.1	83	14.6	94	97	50	0	0	5	1
RI PROVIDENCE	77	58	83	54	68	0	2.0	1.3	1.6	3.6	171	16.1	75	95	49	0	0	4	1
SC CHARLESTON	87	68	91	64	78	-1	2.6	1.0	2.6	5.7	121	14.6	64	91	49	2	0	1	1
COLUMBIA	88	66	94	56	77	-2	.6	-.4	.6	2.2	69	17.6	73	95	42	2	0	2	1
FLORENCE	87	67	90	61	77	-1	.9	-.3	.8	2.8	84	13.5	66	94	46	1	0	2	1
GREENVILLE	85	62	91	54	74	-2	.2	-1.0	.2	2.5	70	16.6	63	90	39	1	0	1	0
SD ABERDEEN	76	51	85	45	64	-4	.1	-.7	.1	1.0	40	6.6	73	86	35	0	0	0	0
HURON	81	52	91	44	67	-2	T	-.8	T	1.4	55	9.3	97	83	34	1	0	2	0
RAPID CITY	80	47	94	42	63	-3	.1	-.7	.1	1.1	46	4.7	52	69	21	2	0	2	0
STIOUX FALLS	81	52	90	46	66	-3	.3	-.6	.2	.9	33	12.3	108	83	37	2	0	2	0
TN CHATTANOOGA	83	61	92	54	72	-4	.9	.1	.6	2.1	89	19.9	73	94	45	1	0	2	1
KNOXVILLE	83	57	89	51	70	-5	1.8	.9	1.3	4.2	149	18.1	73	95	51	0	0	3	2
MEMPHIS	86	68	91	63	77	-3	1.8	1.1	1.6	3.5	132	25.0	90	88	52	2	0	3	1
NASHVILLE	84	63	89	54	74	-3	.5	-.3	.4	1.2	45	15.9	61	92	41	0	0	2	0
TX ABILENE	91	68	99	60	79	-2	T	-.6	T	1.2	61	11.0	105	76	33	4	0	0	0
AMARILLO	89	63	100	57	76	0	.3	-.5	.3	2.9	111	9.8	117	77	33	3	0	2	0
AUSTIN	88	72	95	69	80	-2	2.8	2.1	2.6	5.4	225	14.7	95	93	55	3	0	3	1
BEAUMONT	86	64	94	7	75	-7	2.4	1.5	1.6	3.2	113	24.5	110	97	68	3	1	4	1
BROWNSVILLE	88	75	92	73	82	-1	.7	.1	.7	3.8	185	12.4	136	97	64	4	0	3	1
CORPUS CHRISTI	86	72	91	68	79	-4	2.2	1.5	1.3	3.8	149	17.6	152	93	65	1	0	4	2
DEL RIO	88	70	96	65	79	-5	.7	.4	.4	2.7	210	9.8	138	86	46	3	0	2	0
EL PASO	96	64	105	58	80	-2	.1	0	.1	.1	33	1.9	100	70	19	6	0	2	0
FORT WORTH	91	70	98	64	80	-3	.1	-.4	.1	3.1	154	16.1	101	87	41	3	0	4	1
GALVESTON	84	74	88	71	79	-3	3.2	2.4	2.4	3.4	134	20.5	130	92	69	0	0	4	1
HOUSTON	88	71	95	68	79	-2	3.5	2.6	3.1	5.2	171	23.1	109	96	63	2	0	4	1
LUBBOCK	89	64	100	57	76	-2	.8	.2	.4	4.0	191	9.3	122	90	31	4	0	3	0
MIDLAND	92	64	99	56	78	-3	T	-.3	T	2.2	207	5.5	100	84	30	4	0	1	0
SAN ANGELO	91	65	98	57	78	-4	.1	-.4	.1	1.4	93	9.3	116	89	34	4	0	1	0
SAN ANTONIO	87	71	94	67	79	-4	4.0	3.3	3.0	7.3	309	20.4	151	93	57	2	0	4	2
VICTORIA	88	73	94	71	81	-2	4.6	3.6	2.6	6.4	183	26.8	168	96	65	2	0	5	2
WACO	91	71	100	63	81	-2	2.3	1.8	2.2	4.8	236	15.1	93	88	48	5	0	2	1
WICHITA FALLS	90	68	98	58	79	-3	.5	-.1	.5	6.1	276	21.4	161	78	39	3	0	1	0
UT BLANDING	88	56	91	52	72	4	T	0	T	18	5.8	129	51	18	4	0	1	0	0
CEDAR CITY	95	55	99	47	75	8	0	-.1	0	T	0	4.9	107	41	11	7	0	0	0
SALT LAKE CITY	91	62	96	56	77	7	0	-.2	0	.1	12	7.3	83	55	17	6	0	4	0
VT BURLINGTON	74	55	82	50	65	-1	.9	0	.5	3.2	121	13.8	97	88	45	0	0	3	1
VA NORFOLK	84	66	91	63	75	0	1.6	.8	1.4	5.5	227	18.8	94	91	46	1	0	1	0
RICHMOND	86	63	90	55	75	0	T	-.8	T	4.1	162	15.7	83	82	42	1	0	1	0
ROANOKE	83	60	89	52	71	-1	.3	-.5	.3	1.9	76	18.5	98	79	38	0	0	2	0
WA COLVILLE	83	50	91	44	66	4	0	-.3	0	1.5	126	6.2	71	52	21	2	0	0	0
QUILLAYUTE	72	45	88	35	59	3	T	-.7	T	2.2	94	27.5	52	93	41	0	0	2	0
SEATTLE-TACOMA	76	53	88	48	64	4	T	-.3	T	2.8	264	10.7	57	82	38	0	0	0	0
SPOKANE	83	50	92	43	66	4	0	-.3	0	.7	66	4.7	53	56	13	2	0	0	0
YAKIMA	88	51	99	45	70	4	0	-.1	0	.4	84	2.2	51	66	16	2	0	0	0
WV BECKLEY	73	55	80	49	64	-3	.8	-.1	.5	4.1	149	18.6	89	96	48	0	0	5	1
CHARLESTON	81	59	85	54	70	-2	.8	.1	.5	2.8	123	20.1	100	87	45	0	0	4	1
HUNTINGTON	79	59	82	53	69	-4	.7	-.2	.5	3.0	118	18.7	93	93	49	0	0	3	0
PARKERSBURG	78	58	84	53	68	-3	.7	-.4	.3	1.2	37	15.3	71	93	46	0	0	2	0
WI GREEN BAY	74	53	78	43	63	-2	1.5	.7	.9	2.0	86	12.9	105	78	37	0	0	4	1
LA CROSSE	77	52	82	45	65	-5	.2	-.8	.2	1.4	47	10.2	76	85	37	0	0	3	0
MADISON	76	52	82	43	64	-3	.5	-.5	.4	1.3	44	12.6	93	92	45	0	0	3	0
MILWAUKEE	76	56	83	49	66	0	.2	-.7	.1	1.3	49	14.2	100	92	42	0	0	4	0
WAUSAU	73	51	78	42	62	-3	.8	-.1	.4	1.3	44	10.1	76	91	40	0	0	4	0
WY CASPER	81	46	90	38	64	-1	0	-.3	0	.2	18	4.7	70	70	16	1	0	0	0
CHEYENNE	80	48	89	39	64	1	0	-.4	0	.4	26	3.7	54	66	20	0	0	1	0
LANDER	84	53	91	48	69	6	1	-.3	0	.1	5	2.9	35	42	15	1	0	0	0
SHERIDAN	80	47	89	36	64	1	T	-.5	T	1.0	58	5.1	59	73	19	0	0	0	0
PR SAN JUAN	90	76	91	74	83	1	1	-.1	.1	.1	4	14.0	70	87	60	5	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-MESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 6-22-1985
ACCUMULATIONS ARE FROM JANUARY 1
\*\* = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK TOTAL, WEEK DEV FROM, WEEK DEV FROM NORM, CUM TOTAL, CUM DEV FROM, CUM DEV FROM NORM, CUM DEV FROM L YR, CUM DEV FROM L YR PRCT. Rows list various cities and their corresponding weather data.

## National Agricultural Summary

JUNE 17 to 23

**HIGHLIGHTS:** Rains interfered with fieldwork over the Eastern half of the Nation, but aided crop development, especially in the Delta and Corn Belt States. Most of the Nation had 4-6 days available for fieldwork, despite rain. Soil moisture was adequate throughout the Delta and Corn Belt, but the lack of moisture began returning to the Southeast and across the Great Plains. Moisture shortage continued in the Northern Mountain States.

Winter wheat was mostly good across the Nation. Winter wheat was 32 percent(%) harvested in 18 major producing States, compared with 21% last year and the 18% average. Spring wheat was 30% headed, 18 and 10 points ahead of 1984 and the average, respectively. Additional moisture advanced corn development in most areas. Corn was mostly good. Soybean planting was 93% finished in the 18 major producing States, 5 points ahead of last year and the 5-year average. Sorghum was 92% seeded, 5 points ahead of the 87% average. Cotton squaring was more than one-third complete, 8 points ahead of 1984 and 7 points above the average. Bolls were setting on 9% of the crop, slightly ahead of normal. Peach harvest continued gaining momentum in the Southeast. Livestock were mostly good, but a few areas developed hay shortages.

**SMALL GRAINS:** Winter wheat was mostly good across the Nation, except Montana and Washington where wheat rated fair to poor. Insufficient moisture slowed growth and forced early maturity in both States. Wheat was 97% headed in 17 of the 18 major producing States, 1 point ahead of normal. Wheat was 32% harvested in the 18 major producing States, compared with 21% last year and the 18% average. Harvest continued moving northward into Nebraska and Ohio. Frost damage and dry conditions may cause yield reductions in Nebraska's Panhandle area. Wheat harvest neared completion in Georgia, Mississippi, and South Carolina. Oklahoma's harvesting pace more than doubled the average. Texas' harvest was nearly 20 points ahead of normal and was finished in the Blacklands area.

Spring wheat was 30% headed, 18 and 10 points ahead of 1984 and the average, respectively. Seventy-six percent of South Dakota's spring wheat was headed, normally only about 44% would be headed. Last year, only 12% of the spring wheat was headed. Even though most of the crop rated good, moisture remained short in South Dakota and Montana.

**CORN:** Additional moisture advanced crop development in most regions, except where moisture shortages remained. Corn was mostly good, and conditions leaned towards excellent in a few States. Georgia's corn was 87% silked, 56% reached dough, and 16% was dented. In Louisiana, corn was 91% silked, 56% dough, and 1% mature.

**SOYBEANS:** Soybean planting was 93% finished in the 19 major producing States, 5 points ahead of last year and the 5-year average. Planting was complete in Iowa, Nebraska, and South Dakota, and neared completion in the Corn Belt States. Planting equalled or exceeded last year and the average in all States, except Kansas and Kentucky. Soybeans reached the blooming stage in Louisiana and Georgia. Soybeans were mostly good.

**SORGHUM:** Sorghum was 92% planted in the 7 major producing States. Normally, 87% of the crop was planted by this time, and last year 86% was in the ground. Sorghum rated mostly good. Planting was finished in Nebraska, 15 points ahead of last year. Texas' sorghum was 95% planted, 51% headed, 24% turned color, and 5% matured. Rain delayed harvest, but planting neared completion in some areas. Sorghum was 32 and 14% headed in Louisiana and Mississippi, respectively.

**COTTON:** Cotton planting continued in Oklahoma and Texas but was finished in the 12 other major producing States. Squaring was more than one-third complete, 8 points ahead of 1984, and 7 points above the average. Nine percent of the cotton was setting bolls, 2 points ahead of last year and the average. Overall, crop condition was good. More than half the crop was setting bolls in Arizona, compared with 40% last year and 20% normally. Texas High Plains cotton was recovering from the recent rain and hail. Many of the acres, destroyed by excess rain and hail, were replanted to other crops. Harvest was underway in Texas, with the first bale of cotton ginned from Starr County.

**OTHER CROPS:** Peanuts were 88% planted in Texas, 14 points ahead of 1984 and the average. Early planted peanuts were progressing well, but later planted peanuts could use additional rain. Georgia peanuts were 83% bloomed and 43% were pegging. The crop rated mostly good. Peanuts in Alabama were good to excellent.

Tobacco transplanting continued in most burley and northern States. Flue-cured tobacco was 7% harvested in Georgia, 3 points behind normal.

Hay cutting was active in most areas but slowed by rain in the eastern half of the Nation. Moisture damaged some hay.

**FRUIT AND NUTS:** Nearly all of Florida's citrus received rain, which eliminated the need for irrigation. New growth was abundant in groves receiving good care, and new-crop fruit progressed well. Valencia harvest was virtually complete. Arizona citrus groves were in good condition and new-crop fruit sized and developed normally. South coast lemon and Valencia orange harvests were active in California.

Peach harvest continued gaining momentum in the Southeast. Georgia peach harvest was slightly more than half finished, which was about normal. Louisiana, Mississippi, and South Carolina peaches were 35, 34, and 26% harvested, respectively. Peaches were mostly fair in the Southeast. Texas peaches were good with good quality and quantity from most areas.

**VEGETABLES:** Florida vegetable shipments continued declining, down 38% from the previous week. Watermelons and sweet corn were actively harvested. California lettuce supplies were heavy. Desert cantaloupe harvest was in full swing, and carrot harvest increased in the San Joaquin Valley. Cantaloupes, honeydew melons, and watermelons were harvested in Arizona. Most Texas vegetables prospered from moisture. Harvest was active in all areas, but slowed by rain.

**PASTURES AND LIVESTOCK:** Livestock were mostly good. Pastures and ranges were good to fair. However, growth was restricted in areas with moisture shortages.

**CROP PROGRESS**

FOR WEEK ENDING JUNE 23, 1985

WINTER WHEAT % HEADED			
	1985	1984	AVG.
ARK	100	100	NA
CALIF	100	100	100
COLO	99	91	93
GA	100	100	100
IDAHO	64	40	60
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MICH	98	95	95
MO	100	100	100
MONT	70	55	60
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	97	95	96
S DAK	100	78	93
TEX	100	100	100
WASH	90	71	89
18 STATES	97	94	NA
EXCL. STATES WITH NA	97	93	96

THESE 18 STATES PRODUCED 88% OF THE 1984 WINTER WHEAT CROP.

NA - NOT AVAILABLE

WINTER WHEAT % HARVESTED			
	1985	1984	AVG.
ARK	88	80	77
CALIF	60	54	55
COLO	0	0	0
GA	94	89	92
IDAHO	0	0	0
ILL	10	9	7
IND	5	3	3
KANS	30	5	5
MICH	0	0	0
MO	20	12	15
MONT	0	0	0
NEBR	1	0	0
OHIO	1	0	0
OKLA	85	60	40
OREG	0	0	0
S DAK	0	0	0
TEX	69	64	51
WASH	0	0	0
18 STATES	32	21	18

THESE 18 STATES PRODUCED 88% OF THE 1984 WINTER WHEAT CROP.

SPRING WHEAT % HEADED			
	1985	1984	AVG.
IDAHO	13	18	22
MINN	27	19	28
MONT	20	10	10
N D	20	6	12
S DAK	76	19	44
5 STATES	30	12	20

THESE 5 STATES PRODUCED 92% OF THE 1984 SPRING WHEAT CROP.

SORGHUM % PLANTED			
	1985	1984	AVG.
ARK	97	95	95
KANS	85	80	75
MO	90	88	81
NEBR	100	85	100
OKLA	85	90	80
S DAK	93	61	90
TEX	95	95	94
7 STATES	92	86	87

THESE 7 STATES PRODUCED 83% OF THE 1984 SORGHUM CROP.

COTTON % PLANTED			
	1985	1984	AVG.
ALA	100	100	100
ARIZ	100	100	100
ARK	100	100	100
CALIF	100	100	100
GA	100	100	100
LA	100	100	100
MISS	100	100	100
MO	100	100	100
N MEX	100	100	100
N C	100	100	100
OKLA	95	85	90
S C	100	100	100
TENN	100	100	100
TEX	97	95	97
14 STATES	98	97	98

THESE 14 STATES PRODUCED 100% OF THE 1984 COTTON CROP.

COTTON % SQUARING			
	1985	1984	AVG.
ALA	60	49	35
ARIZ	91	85	65
ARK	55	33	30
CALIF	70	31	36
GA	79	58	73
LA	53	22	38
MISS	68	40	53
MO	33	45	28
N MEX	25	5	23
N C	58	28	21
OKLA	5	0	0
S C	63	43	70
TENN	30	10	25
TEX	14	22	20
14 STATES	37	29	30

THESE 14 STATES PRODUCED 100% OF THE 1984 COTTON CROP.

COTTON % SETTING BOLLS			
	1985	1984	AVG.
ALA	7	1	0
ARIZ	60	40	20
ARK	13	0	0
CALIF	5	1	2
GA	17	15	19
LA	5	1	3
MISS	0	0	2
MO	0	0	0
N MEX	5	5	2
N C	0	0	0
OKLA	0	0	0
S C	13	6	10
TENN	0	0	0
TEX	9	9	10
14 STATES	9	7	7

THESE 14 STATES PRODUCED 100% OF THE 1984 COTTON CROP.

SOYBEANS % PLANTED			
	1985	1984	AVG.
ALA	88	80	83
ARK	86	83	77
GA	91	82	86
ILL	98	96	96
IND	95	98	92
IOWA	100	93	97
KANS	70	85	70
KY	64	72	64
LA	95	94	88
MICH	99	98	96
MINN	98	97	98
MISS	89	80	83
MO	88	73	76
NEBR	100	90	99
N C	86	76	76
OHIO	99	100	90
S C	83	79	82
S DAK	100	65	96
TENN	80	75	75
19 STATES	93	88	88

THESE 19 STATES PRODUCED 94% OF THE 1984 SOYBEAN CROP.

## 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 SRS State Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Rain over 1.00 in. northwest and west central; less than 0.50 in. northeast, east central, extreme south. Temperatures 2 to 50 below normal.

Fieldwork 4.0 days. Soil moisture 21% short, 73% adequate, 6% surplus. Sorghum planted 89%, 83% 1984, 77% avg. Soybeans planted 88%, 80% 1984, 83% avg. Wheat harvested 88%, 81% 1984, 75% avg. Corn silked 66%, 59% 1984, 47% avg. Cotton squaring 60%, 49% 1984, 35% avg. Cotton setting bolls 7%, 1% 1984. Peanuts pegging 32%, 10% 1984. Activities: Planting soybeans and sorghum, controlling insects on fruit, vegetable, crops; harvesting wheat, vegetables, peaches. Conditions: Corn 6% very poor, 16% poor, 44% fair, 28% good, 6% excellent; soybeans 6% poor, 40% fair, 54% good; cotton 23% fair, 65% good, 13% excellent; peanuts 8% poor, 9% fair, 83% good; wheat 2% very poor, 2% poor, 49% fair, 44% good, 3% excellent; sorghum 28% fair, 70% good, 2% excellent; pastures 4% very poor, 6% poor, 37% fair, 51% good, 2% excellent; livestock 2% poor, 42% fair, 54% good, 2% excellent.

**ALASKA:** Temperatures cooler than normal, heaviest rainfall Tanana, Matanuska Valley. Cloudy, cool with showers activity general throughout Railbelt. Topsoil moisture supplies 10% short, 80% adequate, 10% surplus. Subsoil moisture supplies 8% adequate and 20% surplus. Days available for fertilizing, seeding, spraying herbicides 5 to 7. Oats, barley emergence average 75% Matanuska to 95% Tanana. Crop growth slow to mostly moderate, conditions generally below average. Winter-kill damage to hayfields ranged nothing to moderate.

**ARIZONA:** Mostly sunny except partly cloudy afternoons over Grand Canyon, Mogollon Rim, White Mountains, southeast. Isolated showers, thunderstorms over these areas 19th through 21st. Precipitation varied from traces to 0.50 in. Afternoon temperatures 4 to 60 lower last half-week, 2 to 70 above seasonal normals.

Wheat, barley 90% harvested, yields lower than 1984. Cotton 2% fair, 53% good, 45% excellent; 91% squaring, 85% 1984, 65% avg.; 60% setting bolls, 40% 1984, 20% avg. Insect damage generally light to none. Alfalfa harvest active, good quality hay baled. Stands good to excellent condition. Prices continued lower than usual, current supplies moving, few growers stacking hay. Cantaloup, honeydew harvest reached peak. Cantaloup demand light, market lower. Watermelon harvest active, demand fairly good. Grape picking increased, demand moderate. Figs, apricots, plums harvested. Citrus groves good condition; new-crop fruit sizing, developing normally.

**ARKANSAS:** Temperatures normal to 40 below normal. Rainfall above normal. Temperature extremes: 490, 1020. Precipitation 0.16 in. to 4.72 in.

Soil moisture 21% short, 76% adequate, 3% surplus. Days suitable for fieldwork 5.0. Rice 97% emerged, 97% 1984, 97% avg.; 20% fair, 70% good, 10% excellent. Cotton 100% planted, 100% 1984, 100% avg.; 35% squared, 33% 1984, 30% avg.; 6% setting bolls, none 1984, none avg.; 20% fair, 65% good, 15% excellent. Winter wheat 88% harvested, 80% 1984, 77% avg. Sorghum 97% planted, 95% 1984, 95% avg.; 2% poor, 11% fair, 73% good, 14% excellent. Soybeans 86% planted, 83% 1984, 77% avg.; 11% fair, 83% good, 6% excellent. Livestock good condition.

**CALIFORNIA:** Dry weather, temperatures well above normal for second consecutive week. Precipitation light, restricted to Sierra Nevada in form of afternoon thundershower activity. Temperatures ranged from a low of 450 at Tulelake, 1160 at Blythe.

Ideal weather continued. Harvesting of wheat, barley, oats active. Wheat 100% headed, 100% 1984, 100% avg.; 60% harvested, 54% 1984, 55% avg. Rice fields showing good growth. Cotton 100% planted, 100% 1984, 100% avg.; 70% squared, 31% 1984, 36% avg.; 5% setting bolls, 1% 1984, 2% avg. Alfalfa continued to be baled, green chopped. Crop conditions throughout State 50% good, 50% excellent for cotton, wheat. Recent heat wave, minimal damage, speeded maturity. Apricot, Coachella Valley table grape, nectarine, Freestone peach, plum, summer grapefruit, south coast lemon, Valencia orange harvest active. Standard cultural practices almonds, walnuts. Artichokes light supply. Broccoli fairly heavy supply central coast, some curtailment of harvest. Cantaloup harvest full swing desert. Carrot harvest increasing San Joaquin Valley. Cauliflower fairly light supply. Sweet corn harvest slowed desert, increased south coast. Lettuce heavy supply, some curtailment of harvest. Harvest dry market onions active San Joaquin Valley. Dehydrator onion harvest increased desert. Spring potato harvest active Kern district. Strawberry harvest almost complete south coast, continued central coast. Market tomato harvest increased south coast, southern San Joaquin Valley, started Merced district. Processing tomato harvest active Imperial Valley, started Palo Verde Valley. Ranges, pastures lower elevations extremely dry, fire danger increased. Several grass, brush fires. Water supplies below normal, hot weather compounded problem. Movement livestock summer pastures, market continued.

**COLORADO:** Warm, dry statewide with few widely scattered showers, thunderstorms. Temperatures above normal west, normal elsewhere.

Days suitable for fieldwork 6.0. Soil moisture 66% short, 34% adequate. Winter wheat condition 4% fair, 29% good, 67% excellent; 99% headed, 91% 1984, 93% avg.; 78% turning color, 31% 1984, 38% avg. Corn condition 4% fair, 36% good, 60% excellent. Sorghum 96% planted, 87% 1984, 84% avg. Barley headed 63%, 42% 1984, 45% avg. Dry beans 87% emerged, 65% 1984, 70% avg. Alfalfa hay 71% cut one time, 54% 1984, 54% avg. Livestock good.

**FLORIDA:** Drier, warmer, sunny most areas through 20th. Scattered to numerous thunderstorms 21st, 22nd statewide and mostly south 23rd. Rainfall amounts 0.50 to 1.00 in. common. Temperatures few degrees below normal north, few degrees above normal south.

Topsoil moisture adequate except few isolated areas remain short. Rains improved growing conditions, crops recovering. Corn condition variable, yield less than expected on dryland corn. Cutting silage increasing. Soybean planting active; early beans growing rapidly. Tobacco harvest underway, quality fair to good. Cotton squaring, condition good. Peanuts good condition, some weed problems. Sugarcane growth good. Hay crops recovering. Pasture conditions improved greatly with recent rainfall; conditions good to excellent lower southern Peninsula, vary from fair to good elsewhere. Cattle condition

good to excellent lower Peninsula, fair to good elsewhere. Rain nearly all citrus areas; most irrigation stopped. New growth abundant groves receiving good care. New-crop fruit progressing well; some light, scattered late bloom. Valencia harvest almost over, caretakers active all areas. Hot days, warm nights continued vegetable areas. Light to moderate showers many areas. Rains becoming more frequent as summer season begins. Overall shipments declined 38% from previous week. Harvest of most crops nearing completion for season. Watermelons, sweet corn harvest continued active.

**GEORGIA:** Most locations received rain, total amounts varied widely. Heavier amounts extreme north, extreme south. Totals mostly under 0.50 in. Local amounts over 1.00 in. extreme north, south mostly less than 0.25 in. central counties. Average temperatures 2 to 50 below normal. Total precipitation since January 1 still 3 to 13 in. below normal.

Soil moisture 3% very short, 28% short, 66% adequate, 3% surplus. Days suitable for fieldwork 4.6. Main activities: Haying, small grain harvesting, planting, pest control. Corn 87% silked, 70% 1984, 75% avg.; 56% dough, 40% 1984, 43% avg.; 16% dent, 12% 1984, 14% avg.; 3% very poor, 13% poor, 36% fair, 45% good, 3% excellent. Cotton 79% squaring, 58% 1984, 73% avg.; 17% setting bolls, 15% 1984, 19% avg.; 37% fair, 61% good, 2% excellent. Grain sorghum 89% planted, 79% 1984, 79% avg.; 1% very poor, 2% poor, 35% fair, 61% good, 1% excellent. Peanuts 83% blooming, 73% 1984, 78% avg.; 43% pegging, 26% 1984, 36% avg.; 2% poor, 21% fair, 70% good, 7% excellent. Soybeans 91% planted, 82% 1984, 86% avg.; 2% blooming, 1% 1984, 5% avg.; 1% very poor, 1% poor, 37% fair, 60% good, 1% excellent. Tobacco 7% harvested, 7% 1984, 10% avg.; 4% poor, 42% fair, 54% good. Watermelons 19% harvested, 10% 1984, 16% avg.; 42% fair, 56% good, 2% excellent. Wheat 94% harvested, 89% 1984, 92% avg.; 2% very poor, 10% poor, 50% fair, 37% good, 1% excellent. Rye 2% poor, 63% fair, 35% good. Other small grains 4% very poor, 6% poor, 52% fair, 38% good. Apples 7% poor, 54% fair, 34% good, 5% excellent. Peaches 51% harvested, 46% 1984, 52% avg.; 15% very poor, 17% poor, 42% fair, 24% good, 2% excellent. Pastures 1% very poor, 8% poor, 37% fair, 52% good, 2% very poor, 9% poor, 42% fair, 45% good, 2% excellent. Hay excellent. Cattle 1% very poor, 3% poor, 29% fair, 67% good. Hogs 19% fair, 80% good, 1% excellent.

**HAWAII:** Hot, mostly dry conditions continued over State. Strengthening in tradewinds during midweek helped to relieve some of heat and responsible for blowing light, scattered showers onshore. Temperatures averaged above normal all week.

Irrigated crops continued to make good progress under sunny skies and heavy irrigation. No water shortages reported; however, board of water supply on Oahu urging users to start conserving water to ensure adequate supplies during usually dry summer months. Head lettuce production expected to decrease. Head cabbage supplies will increase through next week, be of good quality. Papaya supplies to keep increasing seasonally.

**IDAHO:** Sunny warm weather prevailed over State, only few isolated showers. Average temperatures ranged from 3 to 70 above normal. Only measurable rainfall Porthill 0.20 in., Parma with 0.12 in., Coldwell with 0.04 in., 0.03 in. at Ashton.

Days suitable for fieldwork 7.0. Alfalfa first cutting 56% harvested. Grasshopper infestation 9% none, 14% light, 29% moderate, 48% severe. Potatoes 6% fair, 83% good, 11% excellent. Winter

wheat 32% fair, 68% good. Spring wheat 3% poor, 17% fair, 76% good, 4% excellent. Barley 3% poor, 7% fair, 55% good, 35% excellent. Winter wheat 3% pre-boot, 33% boot, 64% headed. Spring wheat 49% pre-boot, 38% boot, 13% headed. Barley 59% pre-boot, 25% boot, 16% headed. Livestock good. Range, pasture dry.

**ILLINOIS:** Temperatures 2 to 60 below normal. Precipitation 0.05 to 2.75 in.

Days suitable for fieldwork 4.0. Soil moisture 31% short, 48% adequate, 21% surplus. Corn height of all fields 34 in., 19 in. 1984, 23 in. avg.; height most advanced fields 52 in., 30 in. 1984, 36 in. avg.; 10% fair, 64% good, 26% excellent. Soybeans planted 98%, 96% 1984, 96% avg.; 17% fair, 68% good, 15% excellent. Winter wheat headed 100%, 100% 1984, 100% avg.; turning yellow 95%, 83% 1984, 91% avg.; ripe 65%, 11% 1984, 34% avg.; harvested 10%, 9% 1984, 7% avg.; 5% poor, 18% fair, 66% good, 11% excellent. Oats filled 88%, 41% 1984, 46% avg.; turning yellow 25%, 10% 1984, 9% avg.; ripe 4%, none 1984, none avg.; 2% poor, 17% fair, 72% good, 9% excellent. Alfalfa second crop 20% cut, 11% 1984, 12% avg.; 1% poor, 13% fair, 70% good, 16% excellent. Clover hay cut 85%, 78% 1984, 77% avg.; 1% poor, 7% fair, 76% good, 16% excellent. Sorghum grain planted 80%, 85% 1984, 90% avg. Pastures 2% poor, 22% fair, 62% good, 14% excellent.

**INDIANA:** Average maximum temperatures for week ranged from mid 70's north to around 80 south, from 3 to 50 below normal. Morning lows averaged from mid 50's to around 60. Precipitation totals under 1.00 in were below normal. Seven day rain totals ranged from as low as 0.04 to 0.82 in.

Fieldwork averaged 3.5 days. Topsoil moisture 3% short, 85% adequate, 12% surplus. Subsoil moisture 11% short, 81% adequate, 8% surplus. Soybeans 93% planted, 98% 1984, 92% avg. Soybeans 29% fair, 66% good, 5% excellent. Soybeans 7 in. tall, 5 in. 1984, 5 in. avg. Corn 1% poor, 17% fair, 73% good, 9% excellent. Corn 29 in tall, 18 in. 1984, 20 in. avg. Wheat 100% headed, 100% 1984, 100% avg. Wheat 35% ripe, 10% 1984, 15% avg. Wheat 5% combined, 3% 1984, 3% avg. Wheat 90% turing color, 45% 1984, 70% avg. Alfalfa 95% cut once, 95% 1984, 85% avg. Clover 85% cut, 70% 1984, 75% avg. Tobacco 85% set, 75% 1984, 85% avg.

**IOWA:** Temperatures averaged slightly below normal. Rainfall varied from over 2.00 in. southern half to less than 0.25 in. northern half. Heaviest rain 3.82 in. Some crop-hail damage. Pan evaporation 0.29 in.

Days suitable for fieldwork 6.1. Topsoil moisture 59% short, 41% adequate. Subsoil moisture 41% short, 58% adequate, 1% surplus. Corn acreage cultivated 95%, 38% 1984, 63% avg. Corn avg, height 26 in.; 1% poor, 9% fair, 66% good, 24% excellent. Soybean acreage planted 100%, 93% 1984, 97% avg. Soybean acreage cultivated 65%, 22% 1984; 2% poor, 24% fair, 64% good, 10% excellent. Oat acreage headed 95%, 62% 1984, 68% avg. Oat acreage turning color 11%; 2% poor, 22% fair, 58% good, 18% excellent. Winter wheat 2% poor, 25% fair, 57% good, 16% excellent. Second crop alfalfa hay harvested 6%. First crop clover hay harvested 85%, 32% 1984, 52% avg.; 9% poor, 32% fair, 49% good, 10% excellent. Pasture 5% very poor, 19% poor, 38% fair, 33% good, 5% excellent. Livestock good.

**KANSAS:** Precipitation averaged little or none west and south central, 0.50 in. north central and central, 1.50 in. east. Temperatures averaged 73 to 77; 1 to 30 above normal west, 1 to 20 below normal central and east.

Average 5.5 days suitable for fieldwork. Soil moisture 18% short, 68% adequate, 14% surplus. Wheat 100% headed, 100% 1984, 100% avg.; wheat 30% harvested, 5% 1984, 5% avg.; 4% poor, 3% fair, 24% good, 68% excellent. Sorghum 85% planted, 80% 1984, 75% avg. Soybeans 70% planted, 85% 1984, 70% avg. Pasture and range good to excellent.

**KENTUCKY:** Temperatures below normal, mean departure around 30 below normal. Precipitation averaged between 0.25 and 0.50 in. Locally heavier amounts over 1.00 in.

Days suitable fieldwork 4.5. Soil moisture 1% short, 80% adequate, 19% surplus. Corn height average 32 in., 18 in. 1984, 24 in. average. Some damage by excess moisture, rootworms, cornborers. Condition 1% poor, 12% fair, 59% good, 28% excellent. Soybean planting 64% complete, 72% 1984, 64% avg.; 2% very poor, 5% poor, 22% fair, 58% good, 13% excellent. Tobacco setting virtually complete. Resetting minimal, over 12 in. tall, 10% over 24 in. Wheat harvest 29% complete, 15% 1984, 29% avg. Grain sorghum planting 78% complete. Hay harvest active, quality poor, rained on, overripe in wet fields. Pastures good to excellent.

**LOUISIANA:** Temperatures averaged normal to 20 below normal. Temperatures extremes: 570, 1000. Rain totals averaged 0.50 to 2.40 in.

Days suitable for fieldwork 4.2. Soil moisture 37% short, 51% adequate, 12% surplus. Cotton 43% fair, 57% good; 53% squaring, 22% 1984, 38% avg; 5% setting bolls, 1% 1984, 3% avg. Rice 21% fair, 78% good, 1% excellent; 19% headed, 9% 1984, 12% avg. Soybeans 66% fair, 34% good; 95% planted, 94% 1984, 88% avg.; 90% emerged, 89% 1984, 81% avg.; 2% blooming. Corn fair to good; 91% silked, 75% 1984, 70% avg.; 56% dough stage, 37% 1984, 36% avg.; 1% mature stage. Sorghum 54% fair, 41% good, 5% excellent; 32% headed, 18% 1984, 16% avg. Hay 1st cutting 95% complete, 90% 1984, 85% avg. Sweetpotatoes fair to good; 95% planted, 88% 1984, 89% avg. Peaches fair to good; 35% harvested, 22% 1984, 34% avg. Pastures, vegetables fair; livestock fair to good; sugarcane good.

**MARYLAND & DELAWARE:** Maryland: Weather cool with light rains. Temperatures averaged 2 to 30 below normal. Temperatures extremes: High 40's to mid 80's. Precipitation averaged 0.52 in. ranging from 0.10 in. to 1.50 in. Rain over entire State but only as scattered showers. Soil moisture short on Eastern Shore after one week of being adequate; adequate west of Bay.

Days suitable for fieldwork 5.3. Major activities: Harvesting small grains; planting soybeans, tobacco. Small grains mostly good condition. Oats 100% turned, 80% 1984, 80% avg. Oats 5% harvested, none 1984, 10% avg. Wheat 95% turned, 90% 1984, 90% avg. Wheat 30% harvested, 2% 1984, 25% avg. Barley 90% harvested, 60% 1984, 70% avg. Rye 20% harvested, none 1984, 25% avg. Tobacco 100% planted, 85% 1984, 90% avg. Soybeans 80% planted, 75% 1984, 75% avg. Alfalfa hay 95% cut once, 90% 1984, 80% avg.

Delaware: Weather cool with scattered showers throughout State. Temperatures mostly 2 to 40 below normal. Temperatures extremes: 50's to mid 80's. Precipitation averaged 0.46 in. ranging from 0.28 to 0.71 in.

Soil moisture short. Days suitable for fieldwork 6.0. Soybeans 75% planted, 75% 1984, 80% avg. Barley 95% harvested, 65% 1984, 85% avg. Wheat harvested 10%, 10% avg.

**MICHIGAN:** Third consecutive week below normal temperatures. Temperatures averaged 3.50 below normal. Precipitation light to moderate.

Nearly 5.5 days suitable for fieldwork. Cool weather slowed crop growth. Development remains ahead of normal. Soil moisture supplies 32% short, 66% adequate, 2% surplus. Corn 10% poor, 25% fair, 45% good, 20% excellent. Soybeans 99% planted, 98% 1984, 96% avg. Soybeans 5% poor, 25% fair, 55% good, 15% excellent. Winter wheat 98% headed, 95% 1984, 95% avg.; none harvested, none 1984, none avg. Winter wheat 5% poor, 15% fair, 55% good, 25% excellent. Dry beans 90% planted, 75% 1984, 82% avg. Cool temperatures slow fruit, vegetable development. Cherry picking started Southwest. Strawberry picking 70% complete.

**MINNESOTA:** Cool week; temperatures 2 to 60 below normal. Temperature extremes: 300; 920. Precipitation average 0.20 to 0.41 in. above normal, northern third; 0.14 to 0.85 in. below normal, elsewhere.

Days suitable fieldwork 5.2. Topsoil moisture 24% short, 68% adequate, 8% surplus. Corn 15 in. height, 13 in. 1984, 12 in. avg.; 5% poor, 45% fair, 45% good, 5% excellent. Soybeans 97% emerged, 95% 1984, 94% avg.; 5 in. height, 4 in. 1984, 5 in. avg.; 1% very poor, 4% poor, 51% fair, 43% good, 1% excellent. Spring wheat 83% jointing, 80% 1984, 79% avg.; 27% heading 19% 1984, 28% avg.; 3% poor, 28% fair, 60% good, 9% excellent. Oats 89% jointing, 76% 1984, 79% avg.; 49% heading, 27% 1984, 33% avg. Barley 86% jointing, 81% 1984, 79% avg.; 34% heading, 28% 1984, 37% avg. Sunflowers 5 in. height, 6 in. 1984, 6 in. avg.

**MISSISSIPPI:** Temperatures averaged near normal for week. Extremes: 520; 980. Greatest 24-hour rainfall 3.69 in. on 18th.

Soil moisture 9% surplus, 72% adequate, 19% short. Fieldwork: 4.0 days suitable, 6.1 1984, 4.5 avg. Wheat 96% harvested, 86% 1984, 79% avg.; 19% poor, 38% fair, 38% good, 5% excellent. Cotton 68% squaring, 40% 1984, 53% avg.; 4% poor, 17% fair, 67% good, 12% excellent. Soybeans 89% planted, 80% 1984, 83% avg.; 79% emerged, 63% 1984; 3% poor, 38% fair, 56% good, 3% excellent. Sorghum 99% planted, 90% avg.; 91% emerged; 14% heading; 3% poor, 35% fair, 55% good, 7% excellent. Rice 8% heading; 50% fair, 50% good. Corn 51% silked, 38% 1984, 40% avg; 29% dough, 15% 1984, 25% avg.; 3% very poor, 16% poor, 23% fair, 48% good, 10% excellent. Sweetpotatoes 93% planted, 81% 1984, 89% avg. Peanuts 97% planted. Watermelons 7% harvested, 3% 1984. Hay 49% harvested, 37% 1984, 42% avg. Peaches 34% harvested, 29% 1984, 24% avg; 9% very poor, 27% poor, 27% fair, 37% good. Pasture 6% very poor, 7% poor, 39% fair, 45% good, 3% excellent.

**MISSOURI:** Temperatures averaged 40 below normal. Precipitation heavy central, southern section on 17th.

Days suitable 3.6. Topsoil moisture 16% short, 49% adequate, 35% surplus. Corn 3% poor, 26% fair, 55% good, 16% excellent. Cotton 100% planted, 100% 1984, 100% avg.; 33% squaring, 45% 1984, 28% avg. Winter wheat 16% poor, 47% fair, 33% good, 4% excellent, 100% headed, 100% 1984, 100% avg.; 20% harvest 12% 1984, 15% avg. Sorghum 90% planted, 88% 1984, 81% avg. Soybeans 88% planted, 73% 1984, 76% avg. Second crop alfalfa 23% cut, other hay 66% cut. Pasture 2% poor, 16% fair, 67% good, 15% excellent.

**MONTANA:** Only rain over State late in week, moved from north to south. North central areas received around 0.30 in., central area about 0.25 in., southeast anywhere from 0.50 to 1.25 in., rest of State dry. Temperatures into 90's most areas, 2 to 50 above normal west and central areas, 1 to 20 below normal northeast and southeast.

Topsoil moisture 88% short, 12% adequate. Subsoil moisture 94% short, 6% adequate. Days suitable for fieldwork 6.3. Winter wheat 29% very poor, 33% poor, 35% fair, 3% good. Spring wheat 11% very poor, 33% poor, 47% fair, 9% good. Barley 13% very poor, 34% poor, 42% fair, 11% good. Oats 14% very poor, 27% poor, 47% fair, 12% good. Sugarbeets 17% poor, 40% fair, 43% good. Winter wheat boot 30%, 40% 1984, 35% avg.; headed 65%, 55% 1984, 60% avg. Spring wheat preboot 40%, 60% 1984, 60% avg.; boot 45%, 30% 1984, 30% avg.; headed 15%, 10% 1984, 10% avg. Barley preboot 40%, 60% 1984, 60% avg.; boot 40%, 35% 1984, 35% avg.; headed 20%, 5% 1984, 5% avg. Oats preboot 35%, 60% 1984, 60% avg.; boot 45%, 30% 1984, 30% avg.; headed 20%, 10% 1984, 10% avg. Irrigation water supplies 75% short, 25% adequate. First cutting alfalfa hay 35% done, 10% 1984, 15% avg. Sugarbeets 80% thinned. Pasture, range 30% very poor, 35% poor, 35% fair.

**NEBRASKA:** Week cool beginning, hot end. Average temperatures ranged from 1 to 30 below normal. Rainfall scattered, very light until 23rd. Heavy thunderstorms moved across southeastern one-third of State on 23rd. High winds, hail, heavy rain widespread.

Topsoil moisture 75% short, 25% adequate. Subsoil moisture 25% short, 75% adequate. Average 6.5 days suitable for fieldwork. Winter wheat 5% poor, 39% fair, 56% good. Wheat turning 70%, 35% 1984, 55% avg.; ripe 10%, none 1984, 2% avg.; harvested 1%, none 1984, none avg.; headed 100%, 100% 1984, 100% avg. Frost damage, extreme dry conditions Panhandle possible yield reduction. Sorghum planted 100%, 85% 1984, 100% avg.; emerged 100%, 70% 1984, 90% avg.; 32% fair, 66% good, 2% excellent. Soybeans planted 100%, 90% 1984, 99% avg.; emerged 100%, 70% 1984, 85% avg.; 23% fair, 70% good, 7% excellent. Corn 1% poor, 11% fair, 64% good, 24% excellent. Frost affected corn stands Panhandle stunted growth 7 to 10 days. Alfalfa, wild hay mostly good to fair. Persistent drought reduced hay prospects northwest. Pasture, range adequate except northwest. Producers may be forced to market cattle if dry conditions persist.

**NEVADA:** Much above normal temperatures, light precipitation despite numerous outbreaks of thunderstorm activity. High winds, hail accompanied severe thunderstorms extreme western areas early in period. As bases of cumulonimbus/thunderstorm clouds quite high, most of associated rain evaporate before reaching ground. Numerous range fires started by lightning strikes. Record high temperatures record many areas. State weekly maximum of 119° recorded extreme south.

Good progress alfalfa hay harvest all areas. Vegetative growth pushed by warmer weather. High temperatures increased irrigation requirements.

**NEW ENGLAND:** Average precipitation ranged from 0.50 to 1.00 in. over northern region; 1.00 to 1.50 in. elsewhere. Mean temperatures ranged from low 60's north to upper 60's along south coast.

Soil moisture 15% surplus, 75% adequate, 10% short. Days suitable for fieldwork 4.7. Fieldwork progress: 1 day ahead of schedule. Grazing availability 100% adequate. Field corn 100% planted, 90% 1984, 95% avg. Field corn emergence 95%, 80% 1984, 90%. Maine potatoes 80% emerged; 100% good. Maine oats 100% emerged; 100% good. First cut hay 50%, 55% 1984, 50% avg. Apple set and June drop average; scab incidence light. Strawberry harvest active, berry set and quality excellent. Cranberries 20% bloom. Crop looks good.

**NEW JERSEY:** Temperatures averaged 1° below normal. Extremes: 43°; 87°. Weekly rainfall

averaged 9.44 in. north, 0.21 in. central, 0.18 in. south. Heaviest 24-hour total 0.78 in. on 17th, 18th. Estimated soil moisture, in percent of field capacity, averaged 91% north, 76% central, 46% south. Four inch soil temperatures averaged 66° north, 69° central, 70° south.

Days suitable 5.7. Thundershowers during period left soil moisture ranging short to surplus. Harvest of summer vegetables increasing. Irish potato digging getting underway. Blueberry movement heavy. Apples and peaches sizing, some hail damage past two weeks. Barley, wheat combining advancing as weather conditions permit. Some first cutting hay rained on. Pasture growth good. Soybeans being planted as wheat, barley harvested.

**NEW MEXICO:** Average temperatures as much as 7° above normal over northwest plateau, near normal over south and east. Temperatures 39° northern mountains to 104° southern desert. Precipitation none to 1.17 in. northern mountains.

Soil moisture 24% short, 76% adequate. Days suitable for fieldwork 6.3. Alfalfa 7% poor, 20% fair, 66% good, 7% excellent. Cotton 40% fair, 60% good; planting 100%, 100% 1984, 100% avg.; squaring 25%, 5% 1984, 23% avg.; setting bolls 5%, 5% 1984, 2% avg. Corn 40% fair, 50% good, 10% excellent. Barley 17% fair, 50% good, 33% excellent. Irrigated wheat 78% good, 22% excellent. Dryland wheat 40% fair, 40% good, 20% excellent. Irrigated grain sorghum 20% fair, 60% good, 20% excellent. Dryland grain sorghum 33% fair, 34% good, 33% excellent. Pecans 50% good, 50% excellent. Apples 38% fair, 62% good. Chile 43% fair, 57% good. Onions 50% good, 50% excellent. Cattle 19% fair, 62% good, 19% excellent. Sheep 13% fair, 67% good, 20% excellent. Range 6% poor, 19% fair, 56% good, 19% excellent.

**NEW YORK:** Temperatures below normal most areas. Little warming start and very end of week. Otherwise weather continued on cool side. Spotty precipitation almost every day of week. Rainfall around or above normal throughout most of State. Series of cold fronts which slowed down as they passed through State weather makers entire week.

Soil moisture adequate. Average 4.0 days suitable for fieldwork. Corn growth slowed by cool weather. Haying slowed by rain, some hay rotting in fields. Alfalfa hay 46% harvested, 53% 1984, 38% avg. Clover-timothy hay 26% harvested, 31% 1984, 25% avg. Grass silage harvest 46% complete, 44% 1984, 36% avg. Wheat good to excellent shape. Grapes good condition. Sweet cherry harvest underway. Lettuce harvest full swing. Pastures fair to good.

**NORTH CAROLINA:** Temperatures ranged 3 to 5° below normal to normal along coast. Precipitation ranged from none to 2.06 in. across State.

Soil moisture 10% very short, 51% short, 39% adequate. Days suitable for fieldwork 5.7. Pasture 18% poor, 45% fair, 34% good, 3% excellent. Soybeans 1% poor, 37% fair, 50% good, 2% excellent. Hay 13% poor, 47% fair, 38% good, 2% excellent. Sweetpotatoes 32% fair, 64% good, 4% excellent. Peanuts 6% poor, 44% fair, 50% good. Apples 15% poor, 70% fair, 10% good, 5% excellent. Irish potatoes 8% poor, 35% fair, 50% good, 7% excellent. Tobacco in field 46% fair, 51% good, 3% excellent. Corn 6% poor, 33% fair, 47% good, 14% excellent. Cotton 42% fair, 53% good, 5% excellent. Plantings: Sorghum 85%, 80% 1984, 82% avg.; soybeans 86%, 76% 1984, 76% avg.; burley tobacco 96%, 91% 1984, 94% avg.; sweetpotatoes 97%, 86% 1984, 84% avg. Harvest: Wheat 88%, 62% 1984, 55% avg.; oats 91%, 70% 1984, 65% avg.; barley 92%, 85% 1984, 70% avg.; rye 77%, 63% 1984, 62% avg. Phenological stages:

Cotton squared 58%, 28% 1984, 21% avg.; corn silked 45%, 7% 1984, 13% avg. Major farm activities: Planting soybeans, small grain harvest, cutting hay, cultivating tobacco, corn, peanuts and cotton, planting sweetpotatoes and sorghum, harvesting truck crops and potatoes, and spraying herbicide.

**NORTH DAKOTA:** Cool, wet week. Temperatures averaged from near normal northwest to 50 below normal north central. Extremes ranged from 940 at Dickinson and Breien at 350 Trotters. Precipitation remained below normal northwest and west central, near or above normal elsewhere. Northeast received most precipitation - just over 1.00 in. Williston, Roseglen, Washburn recorded no significant precipitation, Wahpeton most just under 2.00 in.

Fieldwork: 5.8 days suitable. Topsoil, subsoil moisture supplies mostly adequate. Topsoil supplies 30% short to very short, 68% adequate, 2% surplus. Subsoil supplies 29% short or very short, 71% adequate. Small grain development continued ahead of normal, good condition. Hard red spring wheat 14% fair, 76% good, 10% excellent. Hard red spring wheat progress 55% boot or beyond, 31% 1984, 36% avg. Durum 34% boot or beyond, 18% 1984, 25% avg. Barley 65% boot or beyond, 38% 1984, 45% avg. Oats 57% boot or beyond, 30% 1984, 37% avg. Row crops good condition, crop development slightly ahead of normal. Sunflower 6 in. average height, 5 in. 1984, 4 in. avg. Corn 11 in. height, 8 in. 1984, 6 in. avg. Potatoes 7 in. height, 7 in. 1984, 6 in. avg. Dry beans 5 in. height, 4 in. 1984, 3 in. avg.

**OHIO:** Temperatures below seasonal levels, averaging 2 to 50 below normal. Precipitation widespread, 0.25 to 0.75 in. less than usual, averaging 0.10 to 0.50 in.

Fieldwork 3.0 days. Soil moisture 4% short, 68% adequate, 28% surplus. Corn 13% fair, 73% good, 14% excellent; nitrogen sidedressing, slugs, armyworms, cornborer reported. Soybeans 21% fair, 75% good, 4% excellent; 99% planted, 100% 1984, 90% avg.; uneven emergence. Winter wheat 1% poor, 11% fair, 75% good, 13% excellent; 100% headed, 100% 1984, 100% avg.; 1% harvested, none 1984, none avg. Oats fair to good; 90% headed, 45% 1984, 55% avg. All hay good. Alfalfa first cut 90% complete, 90% 1984, 80% avg. Alfalfa second cut 10%, none 1984, none avg. Other hay first cut 70%, 75% 1984, 60% avg. Cut hay in fields deteriorated due to damp conditions. Sugarbeet fair to good. Livestock enjoyed cool weather. Pasture rated good. Cutting cabbage, preparing for sweet corn and potato harvests, early potato harvest, liming and hoeing pickles. Strawberry harvest 90% complete, apples look good, black raspberries ripened.

**OKLAHOMA:** Temperatures averaged 30 below normal southwest to 10 above normal Panhandle. Precipitation averaged 0.01 in. Panhandle to 1.14 in. southeast.

Days suitable for fieldwork 5.5. Topsoil moisture 9% short, 73% adequate, 18% surplus. Subsoil moisture 4% short, 96% adequate. Wheat 32% fair, 68% good; 100% headed, 100% 1984, 100% avg.; 85% harvested, 60% 1984, 40% avg.; harvest week ahead of average. Majority remaining for harvest in wet fields. Sorghum 29% fair, 71% good; 85% planted, 90% 1984, 80% avg. Cotton 20% fair, 80% good; 95% planted, 85% 1984, 90% avg.; 5% squaring, none 1984, none avg.; none setting bolls, none 1984, none avg. Little row crop planting because of wheat harvest. Cattle marketings, prices down from last week.

**OREGON:** Temperatures above normal due to unseasonable warming early week. Some stations

reached over 1000 north central, southwest on 17th, 18th; in southeast on 19th. Except for light drizzle at north coast only significant rainfall on 20th southeast.

Soil moisture 62% short, 38% adequate. Recent rain helped, but more needed. Winter wheat 30% fair, 70% good; headed 97%, 95% 1984, 96% avg. Hot, dry winds caused rapid maturing in east. Fall barley harvest started north central region. Haying continued across State, quality good. Grass seed windrowing began Willamette Valley. Crimson clover seed harvest began. Growers irrigating wherever water supplies available. Sweet cherry harvest started; crop better than expected Columbia gorge region; fruit quality good in Valley. Strawberry harvest west half completed, yields down. Raspberry picking started. Heavy peach crop thinned. Filbert crop looks heavy. Medford pear crop sizing well. Cranberries in bloom. Potatoes at Hermiston-Boardman growing well, early harvest to begin on schedule; in central area good crop closing rows; Klamath Basin growing well under irrigation; other areas also report good crop. Most Willamette Valley growers continued irrigation of other vegetables. Broccoli harvest continued, also some fresh market crop harvested. Livestock condition good. Low elevation ranges east dry. Some grasshopper problems; spraying Malheur, Lake counties. Higher elevation ranges good condition.

**PENNSYLVANIA:** Average temperature 650, 30 below normal. Lowest temperature 400 Phillipsburg 20th, highest temperature 850 Reading 18th. Average precipitation 0.09 in., 0.03 in. below normal.

Days suitable: 4.0. Soil moisture 8% short, 73% adequate, 19% surplus. Corn 1% very poor, 2% poor, 15% fair, 43% good, 39% excellent. Average corn height 16 in., 10 in. 1984. Soybeans 90% planted, 83% 1984, 87% avg.; 7% very poor, 2% poor, 15% fair, 55% good, 21% excellent. Wheat 47% headed, 65% 1984; 45% turning color, 30% 1984; 8% ripe, 7% 1984; 1% poor, 14% fair, 45% good, 40% excellent. Oats 90% headed, 30% 1984; 2% turning color, 12% 1984; 2% poor, 12% fair, 50% good, 36% excellent. Barley 19% headed, 18% 1984; 38% turning color, 51% 1984; 27% ripe 10% 1984; 16% harvested, 8% 1984. First cutting alfalfa 71% complete, 70% 1984. Second cutting alfalfa 13% complete, 7% 1984. First cutting clo-tim 53% complete, 53% 1984. Quality of hay 28% poor, 66% fair, 6% good. Feed from pastures 12% below avg., 70% avg., 18% above avg. Activities for the week: Planting and spraying soybeans; filling silos; cultivating corn; combining barley; baling straw; spreading fertilizer; spraying fruit trees and vegetables; harvesting broccoli, onions, raspberries, blueberries.

**PUERTO RICO:** Island average rainfall 0.52 in. or 1.27 in. below normal. Highest weekly total 3.34 in. Highest 24-hour total 2.20 in. Temperatures averaged about 81 to 820 on coasts, 75 to 770 interior divisions. Mean station temperatures ranged for 840 to 690. Extremes: 560, 930. Total rainfall 0.05 in. minus 1.00 in.

**SOUTH CAROLINA:** Temperatures averaged near normal. Rainfall below normal. Scattered showers early week, thunderstorms over weekend.

Soil moisture 19% very short, 60% short, 21% adequate. Days available for fieldwork activities 5.1. Soybeans 30% fair, 70% good; 83% planted, 79% 1984, 82% avg. Cotton 3% poor, 3% fair, 94% good; 100% planted, 100% 1984, 100% avg.; 63% squaring, 43% 1984, 70% avg. Corn condition fair to good; 76% silked, 40% 1984, 53% avg. Tobacco good. Peaches fair; 26% harvested, 18% 1984, 19% avg. Tomatoes fair to good; 46% harvested, 53% 1984, 40% avg. Wheat fair; 91% harvested, 91%

1984, 81% avg. Oats fair; 87% harvested, 91% 1984, 85% avg. Pasture fair; recent rains beneficial, more needed.

**SOUTH DAKOTA:** Average temperatures ranged from 4 below to 10 above normal. Extremes: 35; 101. Black Hills low 21. Rainfall generally light.

Days suitable for fieldwork 6.0. Topsoil moisture short and critically short west, central, adequate east, 23% critically short, 34% short, 42% adequate, 1% surplus. Winter wheat 4% very poor, 17% poor, 48% fair, 28% good, 3% excellent. Winter wheat 100% headed, 78% 1984, 93% avg. Winter wheat none harvested, none 1984, none avg. Spring wheat 2% very poor, 9% poor, 40% fair, 35% good, 14% excellent. Spring wheat 76% headed, 19% 1984, 44% avg. Sorghum 3% very poor, 8% poor, 40% fair, 47% good, 2% excellent. Sorghum 93% planted, 61% 1984, 90% avg. Soybeans 7% fair, 83% good, 10% excellent. Soybeans 100% planted, 65% 1984, 96% avg. Livestock good condition. Range, pasture 17% very poor, 21% poor, 39% fair, 21% good, 2% excellent.

**TENNESSEE:** Rainfall received statewide on 17th, 18th. Totals in west neared 3.00 in., weekend amounts generally less than 0.50 in. Temperatures averaged 2 to 50 below normal.

Farmers averaged 4.0 days suitable for fieldwork. Soil moisture 12% short, 73% adequate, 15% surplus. Corn 20% tasseling, 3% 1984, 5% avg.; 3% very poor, 4% fair, 65% good, 28% excellent. Cotton 30% squaring, 10% 1984, 25% avg.; 4% very poor, 4% poor, 17% fair, 50% good, 25% excellent. Soybeans 80% planted, 75% 1984, 75% avg.; 1% very poor, 14% fair, 74% good, 11% excellent. Sorghum 91% planted, 75% 1984; 11% fair, 73% good, 16% excellent. Wheat 95% ripe, 80% 1984, 91% avg.; 55% harvested, 45% 1984, 45% avg.; 5% very poor, 10% poor, 28% fair, 51% good, 6% excellent. Tobacco 100% transplanted, 92% 1984, 93% avg.; 1% very poor, 1% poor, 30% fair, 63% good, 4% excellent. Alfalfa 55% 2nd cutting, 50% 1984, 50% avg. Pastures 2% very poor, 1% poor, 27% fair, 60% good, 10% excellent. Livestock good condition.

**TEXAS:** Cold front pushed through State 17th, 18th causing widespread showers, thunderstorms. Another front Panhandle 21st, 22nd stalling out, returning north as warm front on 23rd. Tropical airmass over State produced scattered to numerous thundershowers mainly over central, southern sections. Temperatures below normal. Rainfall above normal over east, south central, south with other areas near normal.

**Crops:** Sorghum 95% planted, 95% 1984, 94% avg.; 51% headed, 52% 1984, 54% avg.; 24% turning color, 36% 1984, 31% avg.; 5% mature, 19% 1984, 9% avg. Planting Plains good progress; nearing completion some areas. Blacklands, fields good progress. Greenbug, mite infestations increasing. Spraying for midge started. Fields turning color central, south. Harvest delayed by rain deep south, Rio Grande Valley. Sorghum 89% normal compared with 64% 1984; 2% poor, 17% fair, 54% good, 27% excellent. Corn 59% silked, 42% doughing, 21% dented. Good progress most areas. Most fields Plains good growth. Fields Blacklands, central dough stage, look good. Rain along coast should benefit later fields. Rain east gave fields needed boost. Corn 91% of normal compared with 69% 1984; 19% fair, 54% good, 27% excellent. Cotton 97% planted, 95% 1984, 97% avg.; 14% squaring, 22% 1984, 20% avg.; 9% setting bolls, 9% 1984, 10% avg. Fields Plains recovering from recent rain, hail drying conditions existed. Many acres destroyed by excess rain, hail, being replanted to another crop. Spraying insects Blacklands.

Plants heavy bolls set. Some minor irrigating underway few areas. First bale of 1985 U.S. cotton ginned Starr County on 17th. Rain showers could hurt some cotton south. Open weather needed most fields. Cotton 67% of normal; 22% poor, 33% fair, 36% good, 9% excellent. Wheat 100% turning color, 100% 1984, 96% avg.; 69% harvested for grain, 64% 1984, 51% avg. Dryland harvesting progressed very well Plains, good progress irrigated fields later in week. Producers reporting reduced yields dryland fields because rust infestation. Harvest over Blacklands, central. Wheat 79% of normal compared with 60% a year ago; 4% poor, 36% fair, 47% good, 13% excellent. Rice 5% headed, 15% 1984, 23% avg. Rain upper coast helped fields make good growth. Most fields good condition present. Peanut 88% planted, 74% 1984, 74% avg. Planting good progress many areas. Some irrigating underway Cross-Timbers. Early fields making good growth. Later fields could use additional rain. Soybean 75% planted, 92% 1984, 76% avg. Planting increased Plains many producers replanting destroyed cotton with soybeans. Other crops: Oats 75% harvested, 77% 1984, 71% avg. Sunflower 88% planted, 88% 1984, 78% avg.

**Commercial Vegetables:** Rio Grande Valley, harvest slowed showers. Melon harvesting winding down before rain. San Antonio-Winter Garden, harvesting continued slow pace sweet corn, tomatoes, squash, cucumbers, onions, some cabbage. East, harvesting tomatoes, beans, squash, peppers continued. Melons, sweetpotatoes good condition. Carrot planting continued. Potato harvest Knox-Haskell area continued with varied yields. Trans-Pecos, melons good progress. Onion harvest continued. Good peach crop most areas; good quality, quantity. Pecan development most places. Nut casebearers plentiful untreated groves. Spraying second generation casebearers begin soon central.

**Range and Livestock:** Range, pasture condition improving many areas, rainfall benefitted grasslands. Haying operations continued, some delays wetter areas. Grasshopper problems some areas. Livestock conditions remain steady.

**UTAH:** No precipitation except occasional isolated sprinkle southeast. Maximums averaged 90 above normal, ranging 3 to 120 above. Minimums averaged 50 above, ranging from normal to 110 above.

Days suitable for fieldwork 6.7. Soil moisture mostly short, some central areas adequate to short. Crops progressing well, some fall grains beginning to turn color, harvest of barley underway extreme southwest statewide, 96% winter wheat, 80% barley, 72% spring wheat, 55% oats heading or beyond. First cutting alfalfa 78% completed; quality good, yields somewhat low. Spraying for hoppers, weevils continues. Good control reported. Cherry harvest beginning, apples, tart cherries good condition. Range feed good, 90% livestock moved to summer range.

**VIRGINIA:** Temperatures near normal. Precipitation averaged 0.05 in. Most precipitation during first part of period. Little precipitation mid, late period. Temperatures, humidity increased later part of period.

Topsoil moisture ratings 23% short, 77% adequate. Days suitable for fieldwork averaged 4.4. Corn condition rated good to mostly excellent. Corn 12% in silk stage, 2% 1984, 6% avg. Soybeans 77% planted, 73% 1984, 76% avg. Condition good to excellent. Peanuts rated good to mostly excellent. Tobacco rated mostly excellent. Topping of flue-cured tobacco beginning. Burley tobacco transplanting virtually complete. Barley 80% harvested, 76% 1984, 77% avg. Wheat 50% harvested, 32% 1984, 39% avg.

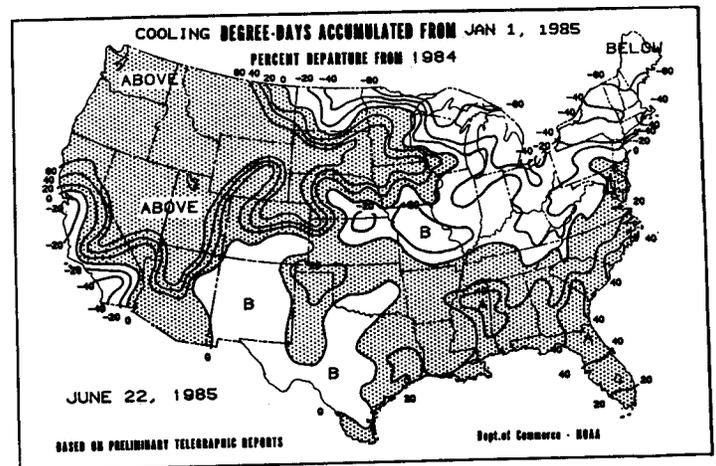
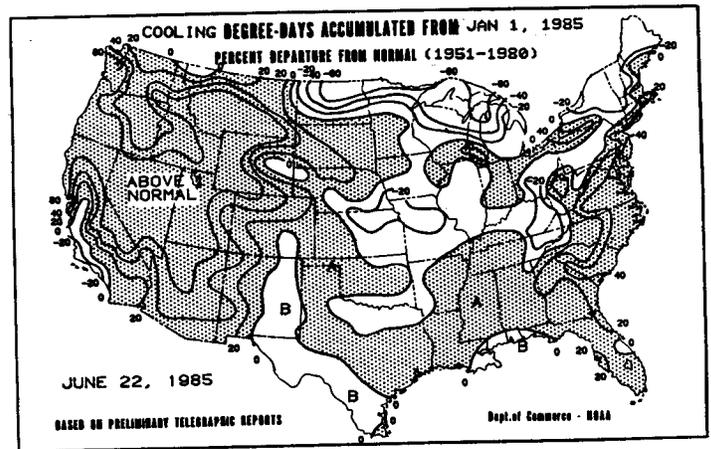
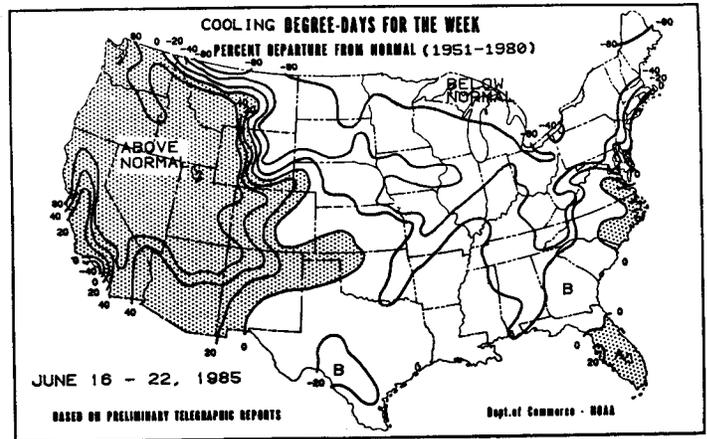
Oats 42% harvested, 33% 1984, 35% avg. Potato harvest now in progress, ahead of normal. Potato conditions excellent. Pasture, hayland conditions good. Second cutting hay yields near normal. Livestock condition good to excellent.

**WASHINGTON:** Large, high pressure system dominated State's weather, keeping temperatures above normal and precipitation to minimal levels. Warm, sunny weather advanced crop development. State averaged 7.0 days suitable for fieldwork. Soil moisture 28% short, 72% adequate. Winter wheat fair; 90% headed, 72% 1984, 89% avg. Cherry harvest in full swing. Strawberry harvest beginning. Green pea, broccoli harvest underway. Warm conditions increased demand for irrigation water. Ranges, pastures short in east, adequate west. Livestock in good condition.

**WEST VIRGINIA:** Temperatures averaged 1 to 40 below normal. Unseasonably cool temperatures midweek. Low Greenbank 370, high Williamson 920. Weekly average Statewide 67°. Precipitation averaged slightly below normal. Most rainfall Wheeling 1.40 in., least Greenbank 0.12 in. Statewide average 0.60 in. Soil moisture adequate to surplus. Days worked 3.0. Making hay, clipping pastures, general maintenance.

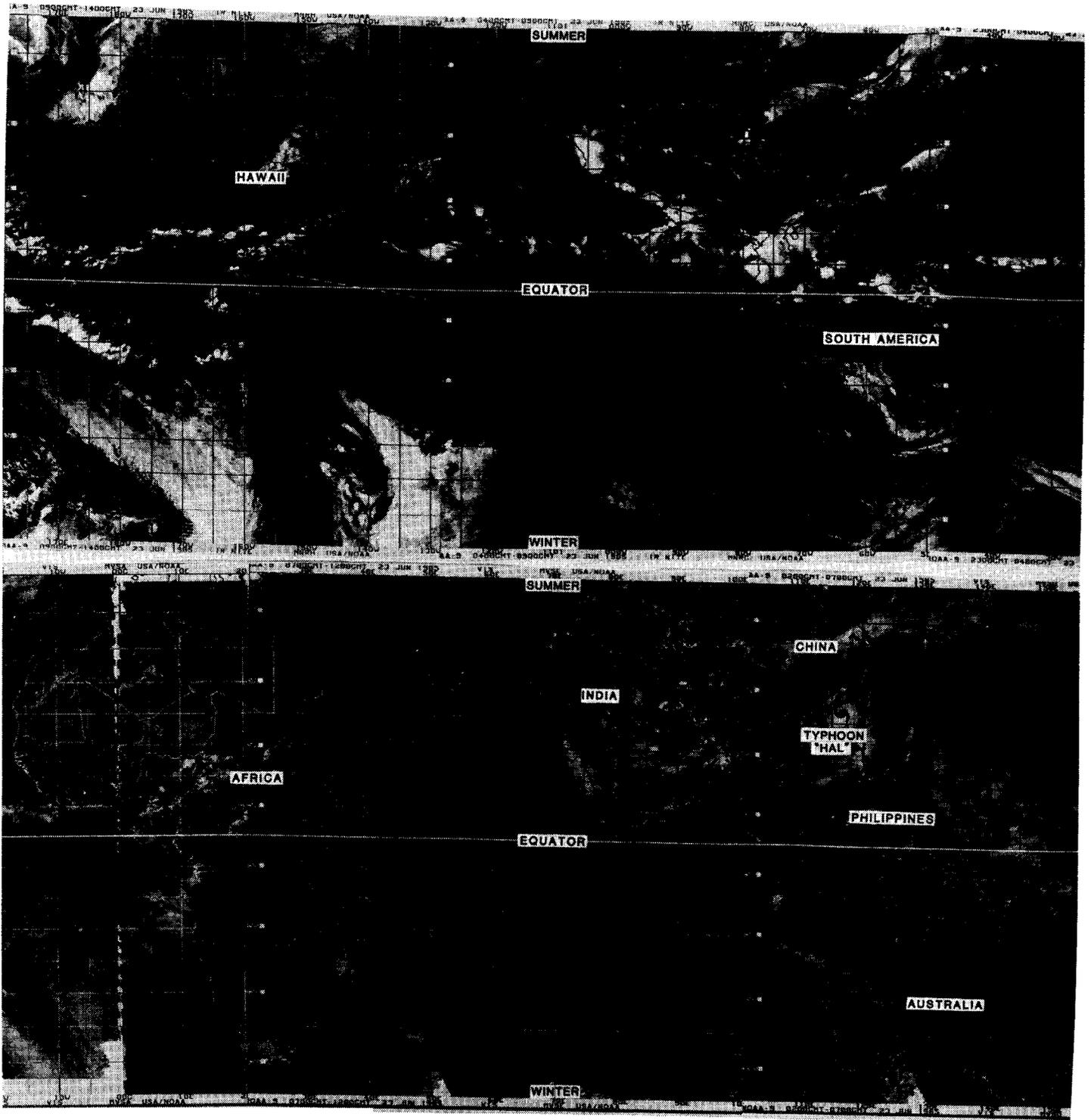
**WISCONSIN:** Average temperatures 4 to 90 below normal. Precipitation 1.20 to 1.50 in. north, 1.20 to 1.30 in., central, 0.20 to 0.50 in. south. Days suitable for fieldwork 6.1. Soil moisture 77% short, 23% adequate. General crop condition 1% very poor, 5% poor, 43% fair, 49% good, 2% excellent. Corn 1% very poor, 5% poor, 30% fair, 57% good, 7% excellent; corn height 14 in., 12 in. 1984, 11 in. avg. Soybeans 99% planted, 100% 1984, 98% avg.; some planted after peas harvested. First cutting hay 80% complete, 56% 1984, 61% avg. Hay yields below average, regrowth below average due to dryness. Oats 45% headed, 24% 1984, 25% avg.; below average height, some harvested for oat silage. Pasture 70% normal, 96% 1984, 84% avg. Winter wheat headed, below average height. Tobacco set north, south growing areas. Some wind damage to cherries along Green Bay. Cranberry pollination underway some bogs.

**WYOMING:** Temperatures above normal except extreme northeast. Precipitation generally below normal with northwest, southeast being very dry. Days suitable for fieldwork 7.0. Topsoil moisture 96% short, 4% adequate. Subsoil moisture 93% short, 7% adequate. Small grains developing faster than normal. Winter wheat 15% boot, 25% 1984; 80% headed, 40% 1984, 60% avg. Barley 25% boot, 30% 1984; 35% headed, 15% 1984. Spring wheat 30% boot, 10% 1984; 25% headed, 5% 1984. Oats 45% boot, 15% 1984; 15% headed; none 1984. Most potatoes, dry beans emerged. Sugarbeets thinned 85%, 80% 1984, 70% avg. Alfalfa first cutting 35%, 5% 1984, 10% avg. Other hay 10%, 10% 1984, 10% avg. Small amount livestock moved to summer ranges 80%, 85% 1984. Grass short many areas. Stockwater becoming problem.



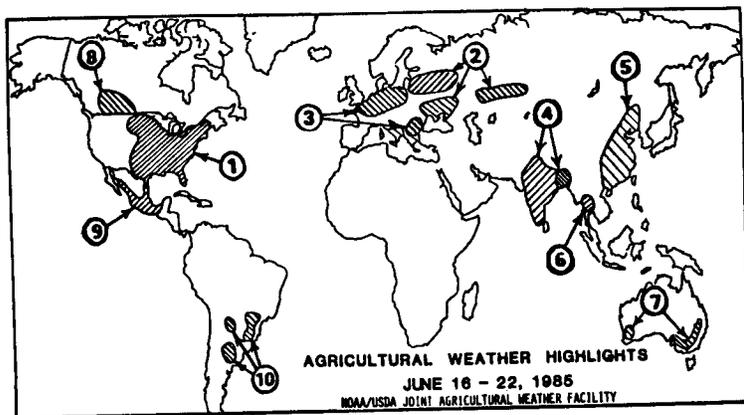
# GLOBAL WEATHER SATELLITE PHOTO

June 23, 1985



International Weather and Crop Summary

June 16 - 22

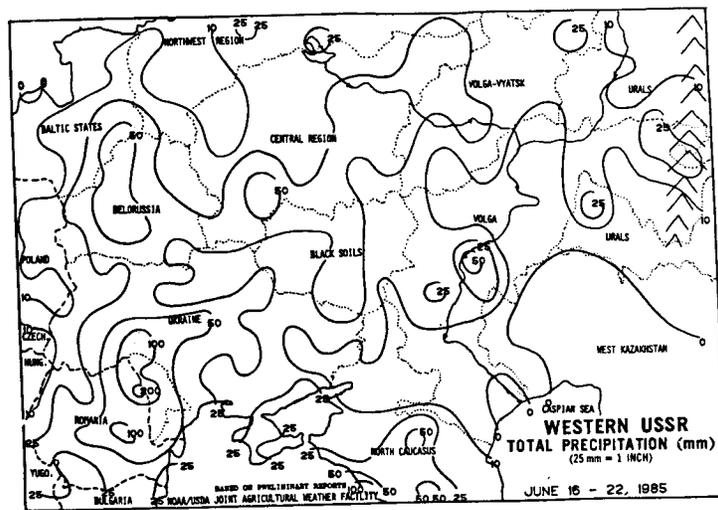
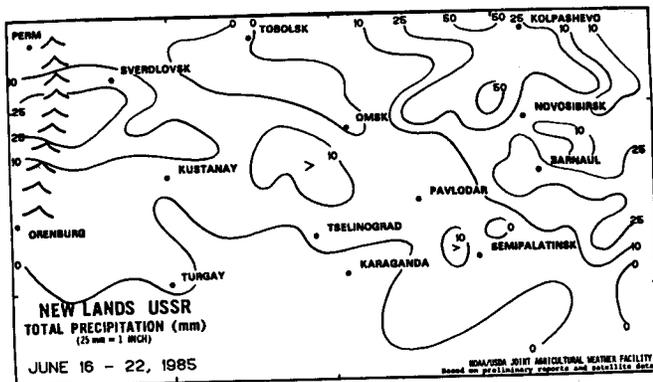


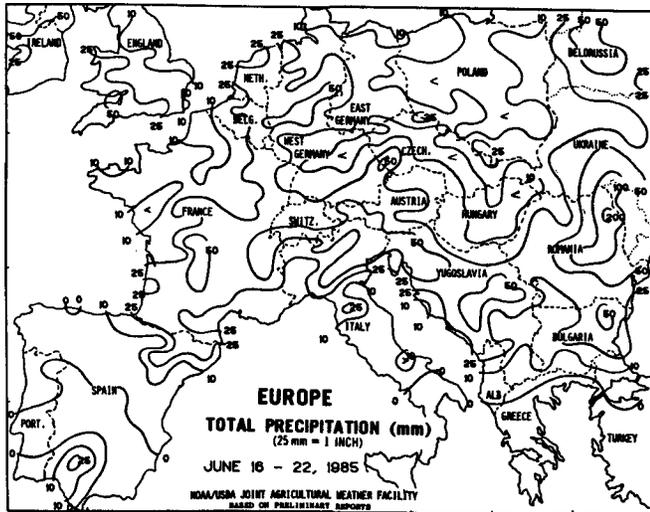
HIGHLIGHTS:

- UNITED STATES** ... Rain dampens most of the Eastern half of the Nation, but parts of the Southeast remain dry.
- USSR** ... Showers and unseasonably cool weather benefits crops in Western USSR. However, hot, dry weather in the southern Urals stresses grain crops in the vegetative stage.
- EUROPE** ... Showers benefit summer crops in southeast Romania, while unseasonably cool weather slows crop growth in the north.
- SOUTH ASIA** ... Heavy rain in the west and east floods some autumn rice. Below-normal rain covers interior areas.
- EASTERN ASIA** ... Moderate rain benefits southern cotton, corn, and soybeans; however, much of the North China Plain remains drier than normal.
- SOUTHEAST ASIA** ... Typhoon Hal floods rice, corn, and tobacco in the Philippines' northern Luzon. Heavy rain also falls over Vietnam and Laos, while lighter showers help crop growth in Thailand.
- AUSTRALIA** ... Moisture is becoming limited for crop establishment.
- CANADA** ... Rain benefits vegetative growth of Prairie crops, but moisture is limited in the southwest.
- MEXICO** ... Abundant rain aids most southern and central crops.
- SOUTH AMERICA** ... Mostly dry weather aids Argentina's soybean harvest but limits moisture for wheat planting. In Brazil, showers slow late wheat planting in the south, while dry weather favors the coffee harvest in the north.

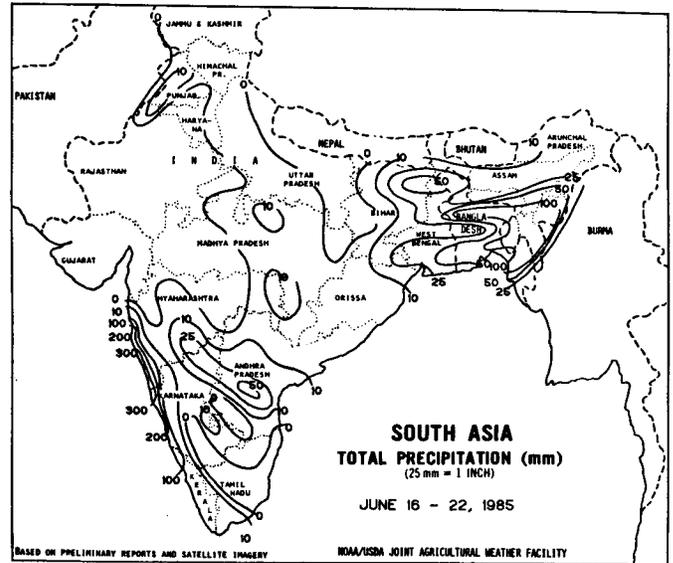
**WESTERN USSR...** Showers covered most areas in Western USSR, but rainfall amounts varied. The heaviest rain (50-100mm) covered crops in central Belorussia, the southwestern Ukraine, and Moldavia. Although localized flooding is possible, overall moisture benefited crops, especially southern crops which received below-normal precipitation since March. Beneficial showers (25-50mm) spread across the southeastern Central Region, the central Black Soils Region, and the central Volga. Mostly dry weather stretched northeastward from the northern North Caucasus, through the southern Volga, into the southern Urals. In the southern portion of Western USSR, winter grains reached the filling stage, and spring grains reached the heading stage. Weekly temperatures were 2C to 4C below normal in these southern areas.

In the New Lands, unseasonably warm, dry weather in the southern Urals covered crops in the vegetative stage. Late-week maximum temperatures exceeded 35C in areas from Orenburg to Turgay, further stressing crops which received small amounts of rain since May. These areas historically account for about 15% of spring wheat production and 5% of spring barley production. Most spring barley is grown in Western USSR where weather conditions have been favorable for crop growth. Spring wheat over the remainder of the New Lands experienced mostly favorable weather. Temperatures continued below normal in the east where warmer weather is needed to enhance crop growth.

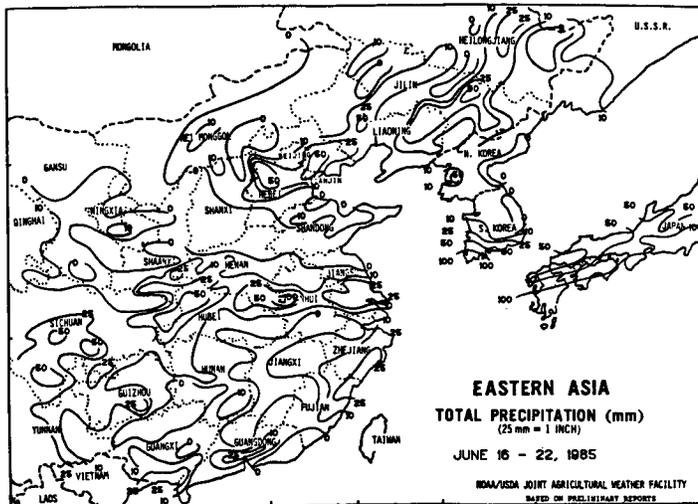




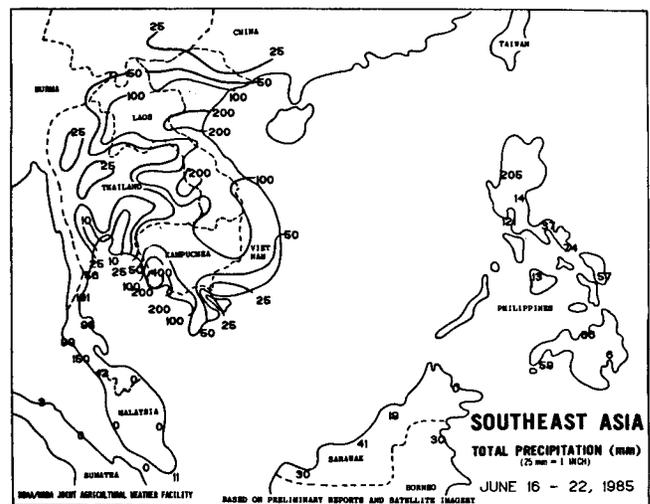
**EUROPE...**Several frontal systems traversed the region, spreading showers over most crop areas. Significant showers (25-50mm) relieved persistent dryness in southeast Romania. Rain in these areas may have come too late to help the winter wheat crop, which is probably maturing, but was highly beneficial for summer crop growth. Wet weather continued over much of northern Europe, and below-normal temperatures slowed crop growth, particularly in northcentral areas. Crop areas in central Poland and Hungary were mostly dry, but moisture supplies were likely adequate to meet crop moisture requirements. Elsewhere, wet weather benefited winter and summer crops in northern Italy.



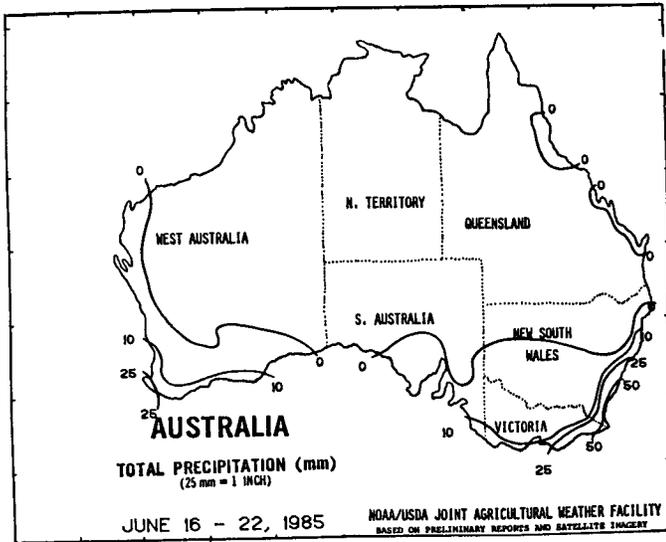
**SOUTH ASIA...**Heavy rain continued along the southwest coast providing abundant moisture for autumn rice planting. Heavy rain also fell in eastern India and Bangladesh, flooding rice areas. Drier-than-normal weather covered most of southern interior India. However, scattered rain (25-45mm) benefited cotton and groundnut planting in Karnataka and Andhra Pradesh. An increase in rain is needed for winter rice planting, which normally begins in July. The major winter rice producing provinces are West Bengal, Bihar, Anhra Pradesh, and Orissa.



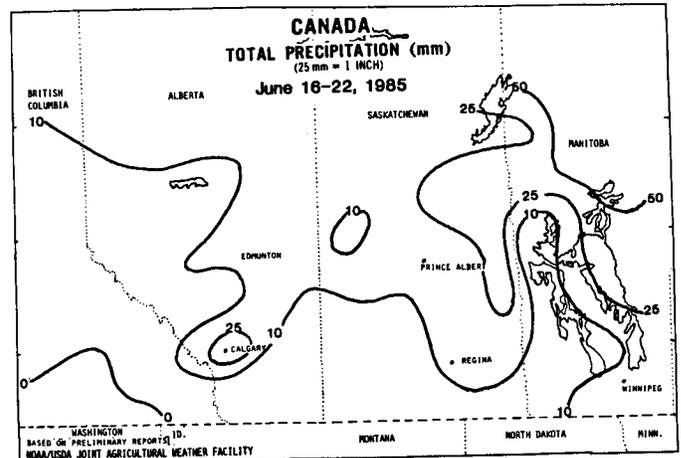
**EASTERN ASIA...**Following moderate rain last week, relatively dry weather covered the rice region this week. Early rice is in the filling stage, and intermediate rice is nearing the reproductive stage. A frontal system stretched across central China late in the week, producing a band of moderate to heavy rain (25-100mm) north of the Yangtze River. Rain was mostly beneficial for cotton, corn, and soybeans entering the reproductive stage, but showers interrupted some winter wheat harvesting. Much of the North China Plain remained drier than normal forcing heavy reliance on irrigation in Shandong, Henan, and Hebei as late-week temperatures reached the mid-30'sC. Variable rain in Manchuria benefited corn and soybeans entering the reproductive stage.



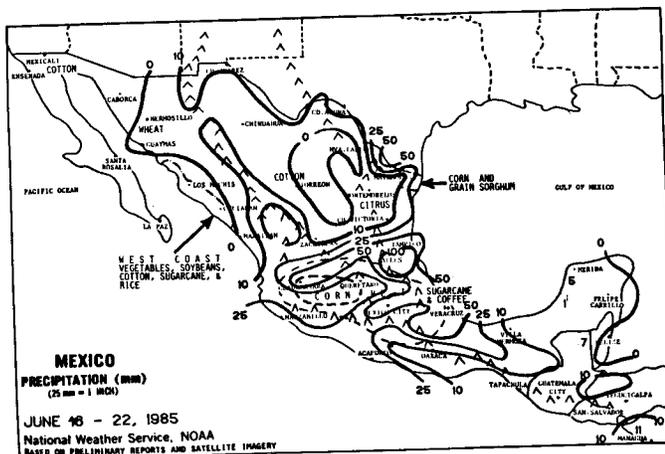
**SOUTHEAST ASIA...**Late-week Typhoon Hai passed over the northern Philippines producing inundative rains and high winds in northern Luzon. Rice, corn, and tobacco are main crops in the areas which were likely flooded. Remnants of a tropical depression contributed to heavy rain (100-200mm or more) over northern Vietnam, all of Laos, and extreme eastern Thailand. Locally heavy rain also fell in Kampuchea. In Thailand, substantial showers (25-75mm) covered the remainder of the country, except in the west where weekly rainfall was below average. Moisture is generally adequate for corn and rice, in vegetative growth phases. Crop moisture demands are increasing as crops approach reproduction.



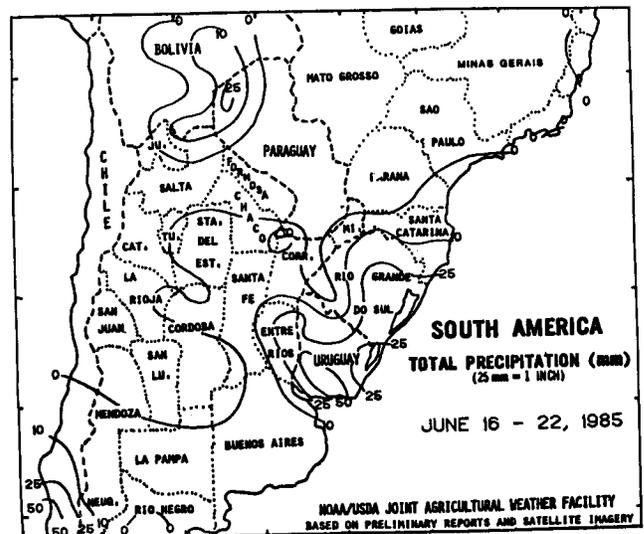
**AUSTRALIA**...Relatively dry weather covered the eastern wheat belt. Only light showers (1-4mm) at midweek fell in wheat areas of South Australia, Victoria, and New South Wales, while northern New South Wales and Queensland were dry. Additional moisture is needed throughout the wheat belt to complete planting and for crop establishment. Temperatures averaged a little cooler than normal, lowering evaporation rates and conserving the limited soil moisture. Moderate rain (20-50mm) fell along the south coast but did not reach the major wheat region. Light showers (5-10mm) in West Australia kept topsoils moist for wheat establishment, but rainfall has been below normal during the last 3 weeks.



**CANADA**...Some rain fell over the entire Prairie Provinces, but heavier rain (10-25mm) mostly occurred over eastern and southern areas. The rainfall distribution was quite similar to the previous week, leaving southwestern Saskatchewan and southern Alberta with only limited moisture. In general, crop conditions were reported good to excellent. Recent rainfall in Manitoba significantly improved moisture for vegetative growth. Frequent showers benefited crop establishment in northern portions of the grain belt. Light rain in the southwest marginally met early growth needs. Crop conditions likely rated fair in this area as spring wheat advances from tillering to jointing phases of vegetative growth. Temperatures averaged below normal throughout the region.



**MEXICO**...Beneficial rain continued dousing most of the southern and central parts of the Nation, keeping crops developing well. Over 50mm fell across the eastern and northwestern sections of the southern Plateau corn belt. Thunderstorms also dumped heavy rain along the northeastern border, helping pastures and late corn and grain sorghum. However, the early crops started maturing in the northeast, and rain slowed harvesting and damaged any open stored grain sorghum. The rainy season began developing over the northwestern mountain watersheds on the 19th, but moisture has been light so far.



**SOUTH AMERICA**...Rainfall concentrated mostly over Uruguay and Rio Grande do Sul, Brazil. Very light showers (less than 5mm) fell over Argentina's crop areas, causing minimal harvest interruptions. Argentina's soybean crop is nearly 95% harvested. Harvesting continues in central Buenos Aires but is mostly finished elsewhere. Wheat planting is underway, but rainfall in recent weeks has been light especially in southern Buenos Aires and Cordoba. In Brazil, wheat planting is nearing completion in the south where showers may have slowed fieldwork, especially in eastern Rio Grande do Sul. Dry weather extended northward aiding Brazil's coffee harvest and maturing its citrus crop.

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 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 \$25, foreign \$33 (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 NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C., and additional mailing offices.

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