

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

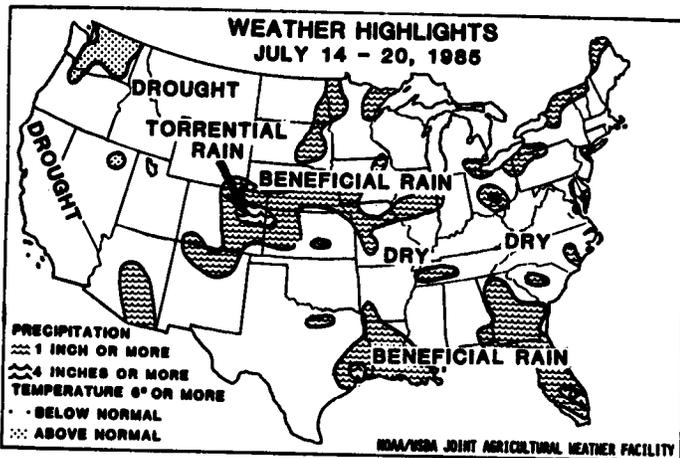
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July 23, 1985

National Weather Summary

July 14 - 20



TUESDAY...Thunderstorms were scattered from the Southwest through the Rockies and across the northern Plains. Elsewhere, showers and thunderstorms were triggered along and ahead of a cold front moving off the east coast and across the South from Oklahoma to Florida. Heavy showers fell from southeastern Texas through Louisiana and at isolated points along the east coast.

WEDNESDAY...Showers and thunderstorms were widespread in the Southwest, the central and northern Rockies, and the northern Plains. A few showers fell along the west coast. Thundershowers also covered the gulf coast from southeastern Texas, through Florida and the Atlantic Coast from Florida to Cape Hatteras. Warmer temperatures were pushing back over the central and southern High Plains..

THURSDAY...Thunderstorms covered nearly all of the Southwest and along a broad band from the central Rockies through the upper Great Lakes. Showers were heavy from southern Nebraska through central Iowa. Thunderstorms continued along the gulf coast and through Florida. Another surge of cooler air pushed through the northern Plains.

FRIDAY...Thunderstorms reached from the central Rockies across the Plains to the southern Great Lakes. Heavy rains drenched portions of the central Plains and Rockies. Thundershowers again developed over the Southwest in the afternoon. Showers and thunderstorms continued along the eastern gulf coast and Florida. Afternoon temperatures soared into the high eighties in the Northeast and topped 100 degrees in parts of the West Coast States. (continued to back cover)

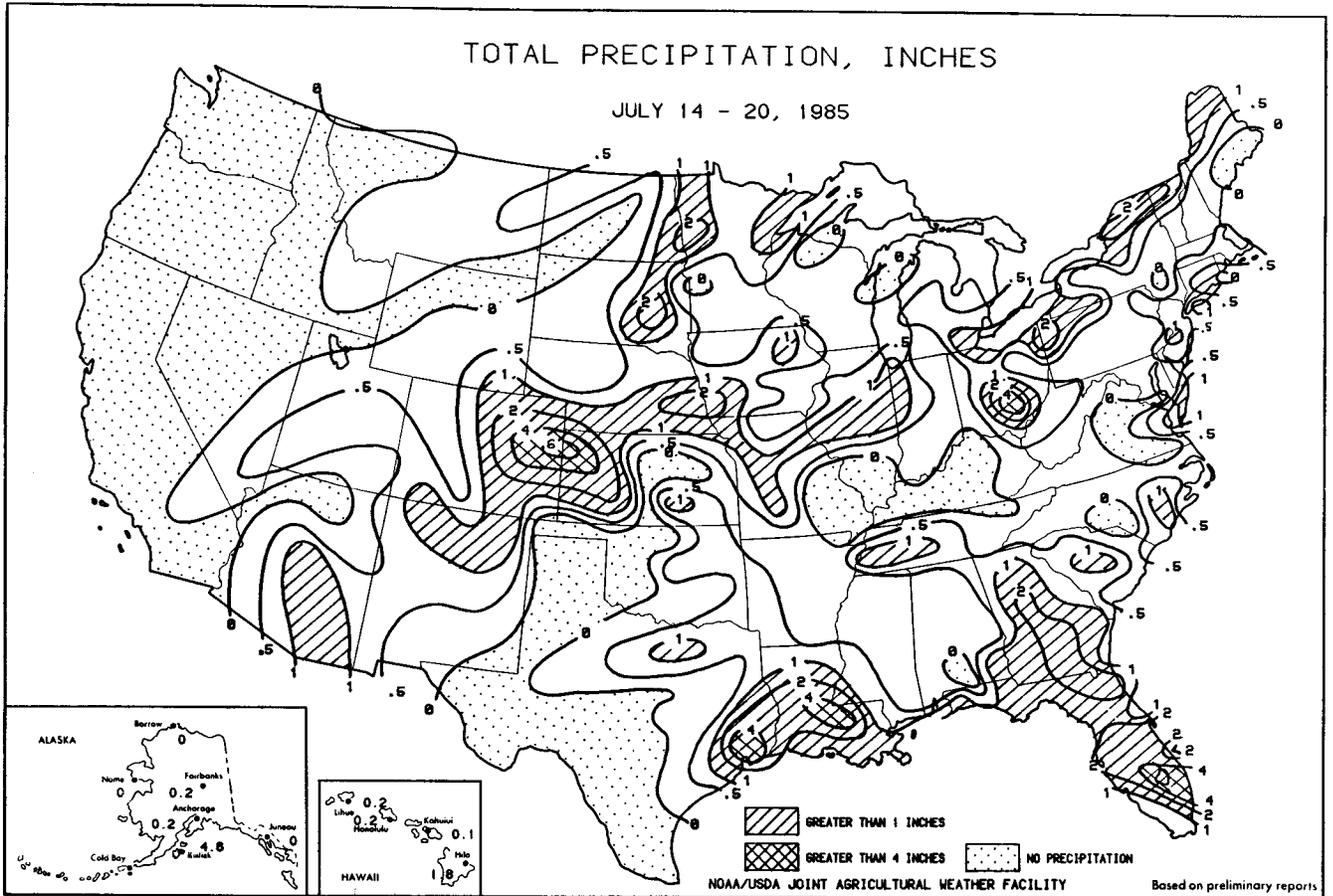
HIGHLIGHTS: Beneficial rain fell in much of the western Corn Belt, the eastern portion of the Dakotas, and in the Southeast. Showers and thunderstorms covered much of the Nation, but some dry areas had little or no rain. It remained very dry from western North Carolina and Virginia through the lower Ohio Valley into Missouri. Heavy rain accompanied thunderstorms in parts of the upper Ohio Valley. Torrential rain in eastern Colorado caused some severe local flooding. Temperatures were seasonable over most of the Nation but were well-above normal in the Northwest and parts of New England.

SUNDAY...Thunderstorms reached from Arizona to New England. Heavy rain fell in the upper Ohio Valley and more isolated, moderate showers were scattered from the central and northern Plains to New England. Showers and thunderstorms were also scattered along the gulf coast and through the Southeast. Hot weather covered the central Plains and the Southwest.

MONDAY...Showers and thunderstorms continued in the Southwest and spread through the High Plains from Texas to southern Montana. Thunderstorms also spread through Oklahoma and southeastern Texas to Florida, through the Appalachians, and the Northeast. Showers were heavy along the east coast of Florida and from central New York into New England. Cooler air spread further into the Plains while the hot temperatures spread through Arkansas to the Tennessee Valley.

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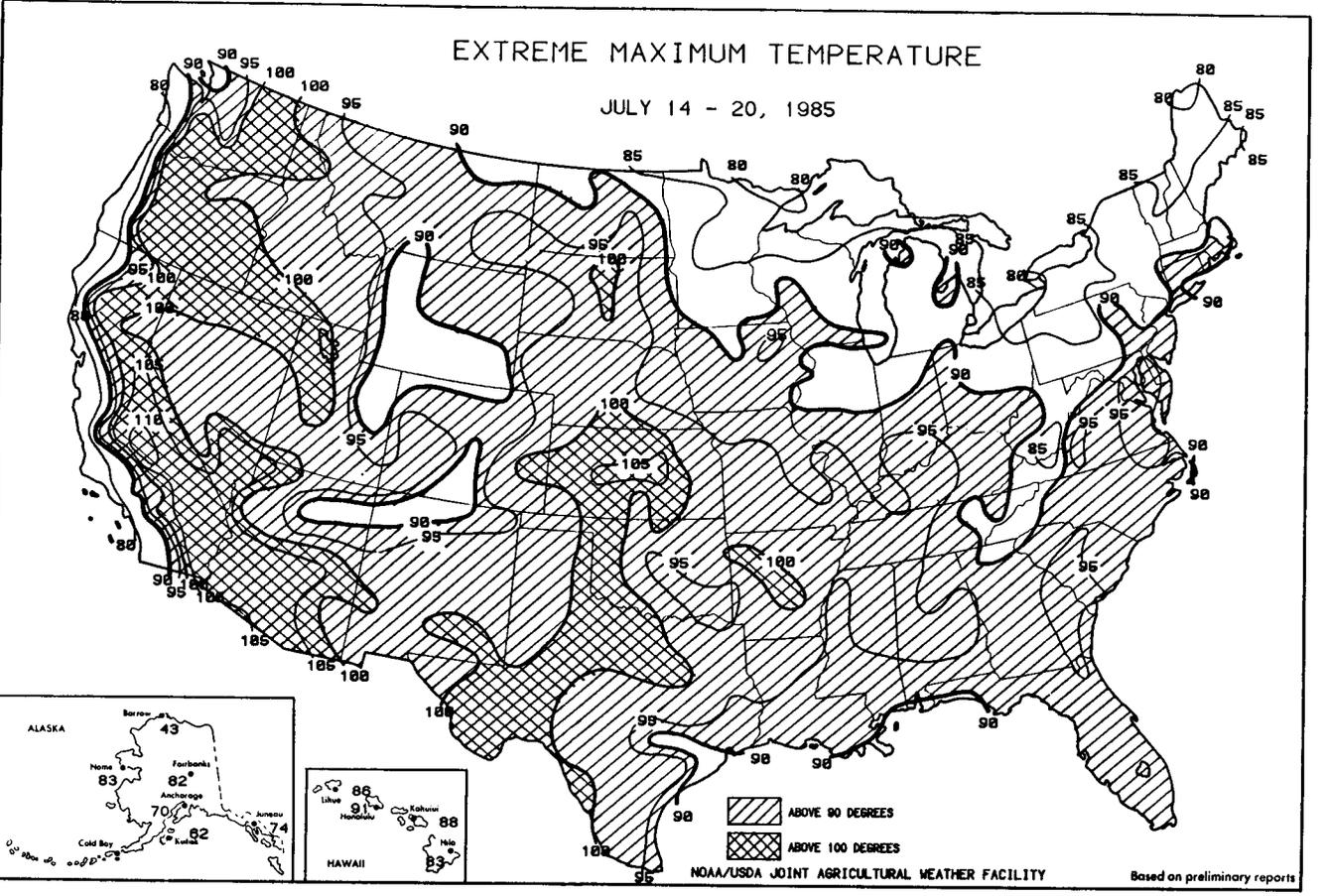
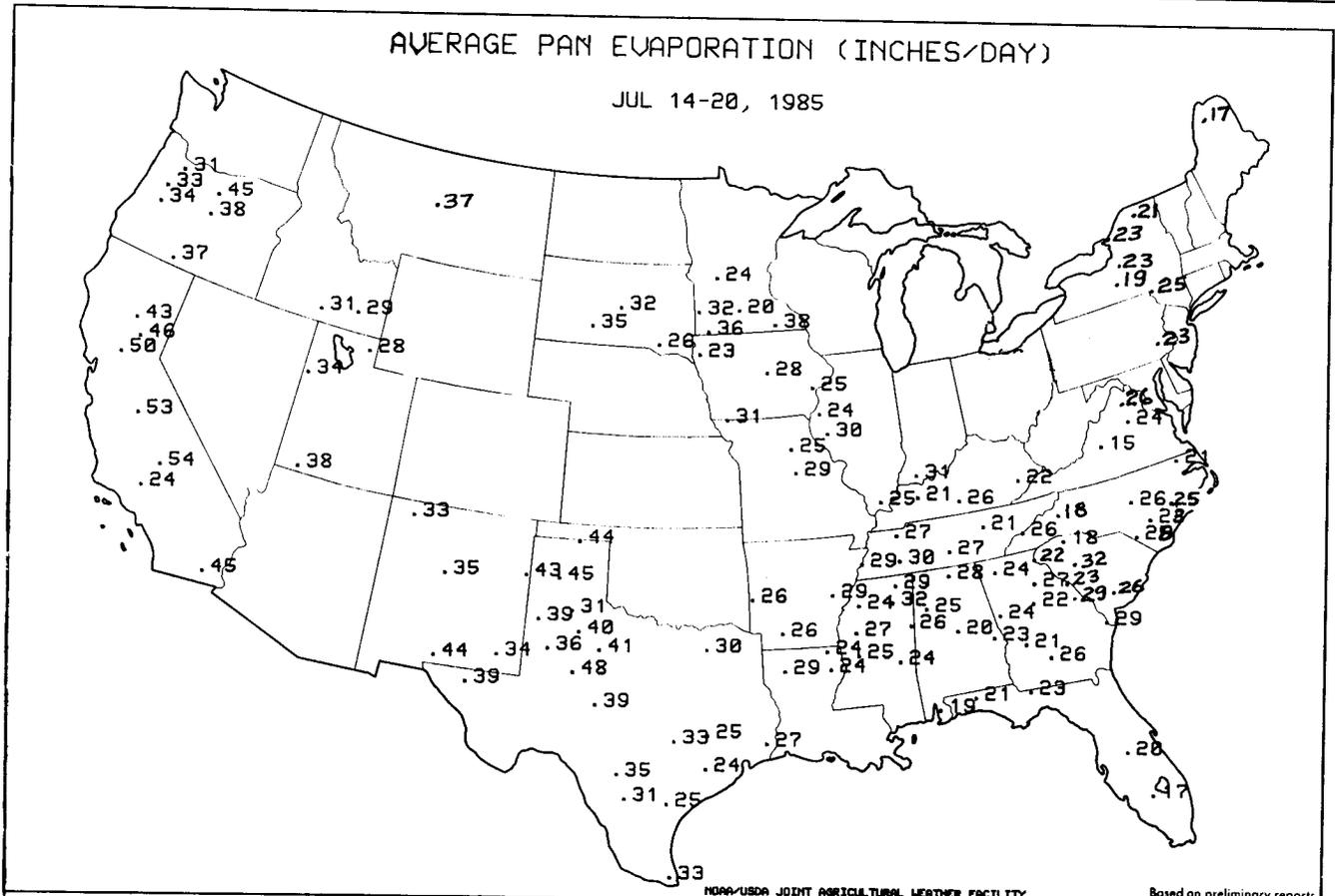


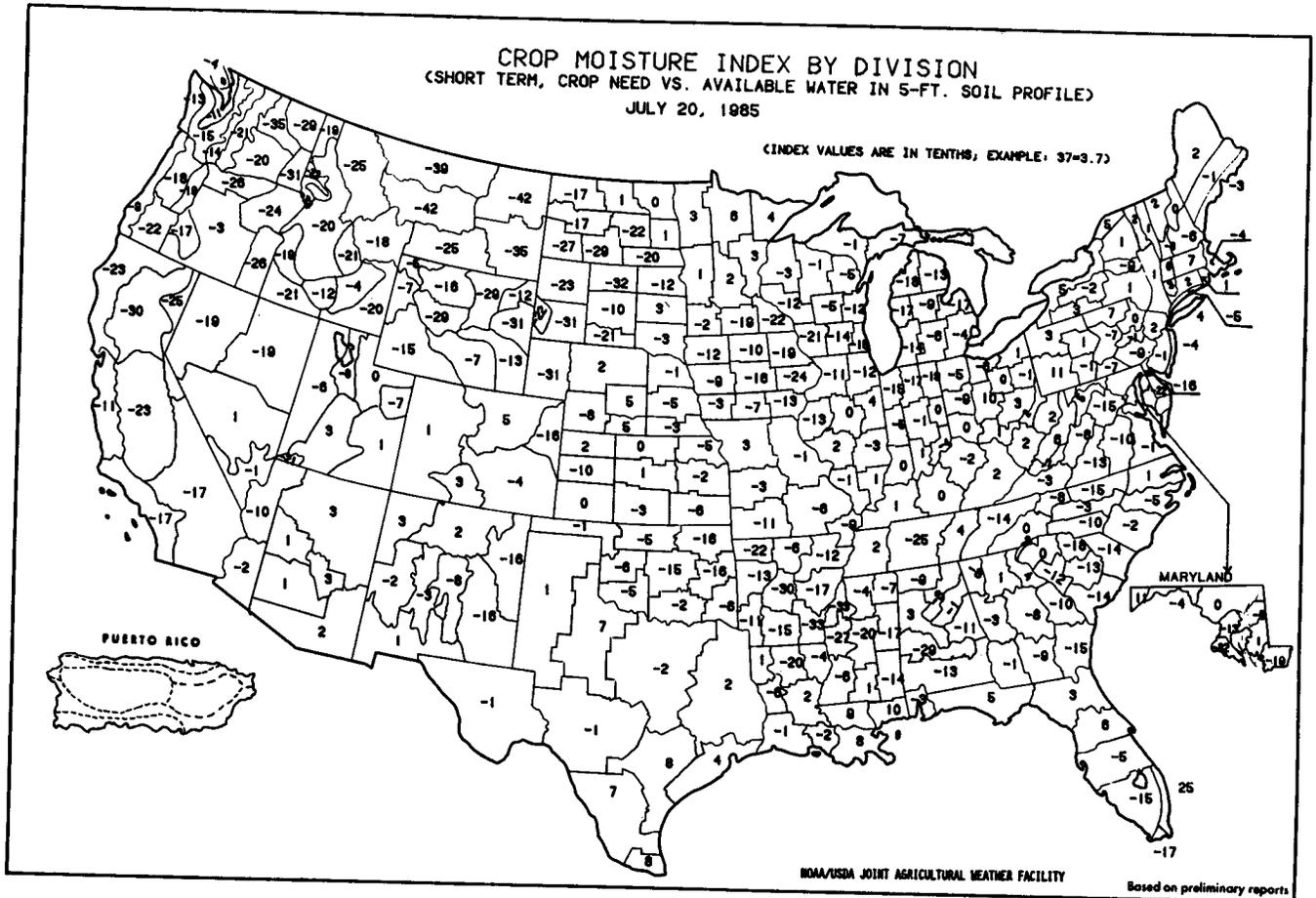
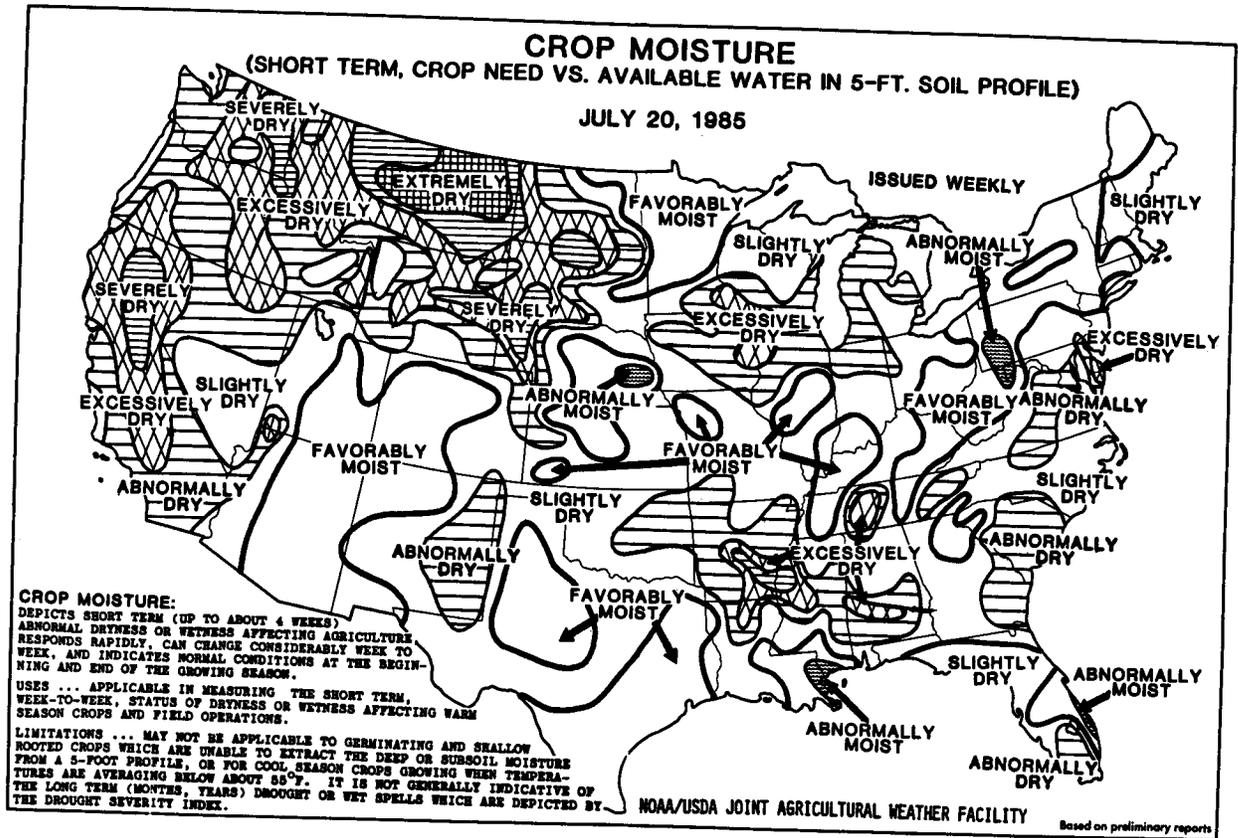
A SUCCESSION OF FRONTAL SYSTEMS MOVES FROM CENTRAL CANADA THROUGH THE UNITED STATES AND INTO THE ATLANTIC OCEAN. AT THE TIME OF THIS PICTURE, SHOWERS AND THUNDERSTORMS ARE BRINGING NEEDED MOISTURE TO PARTS OF THE CENTRAL PLAINS AND GREAT LAKES REGION.

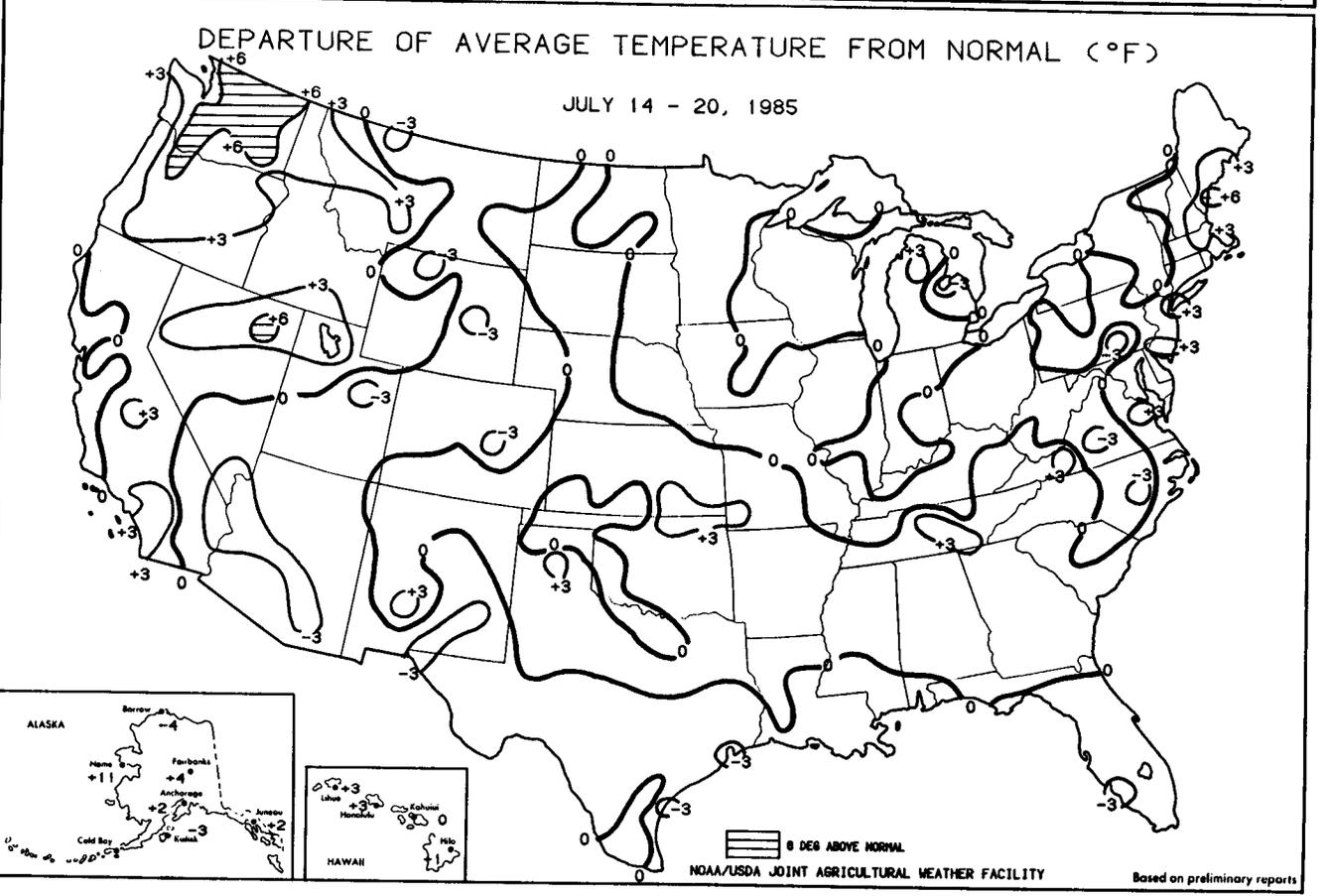
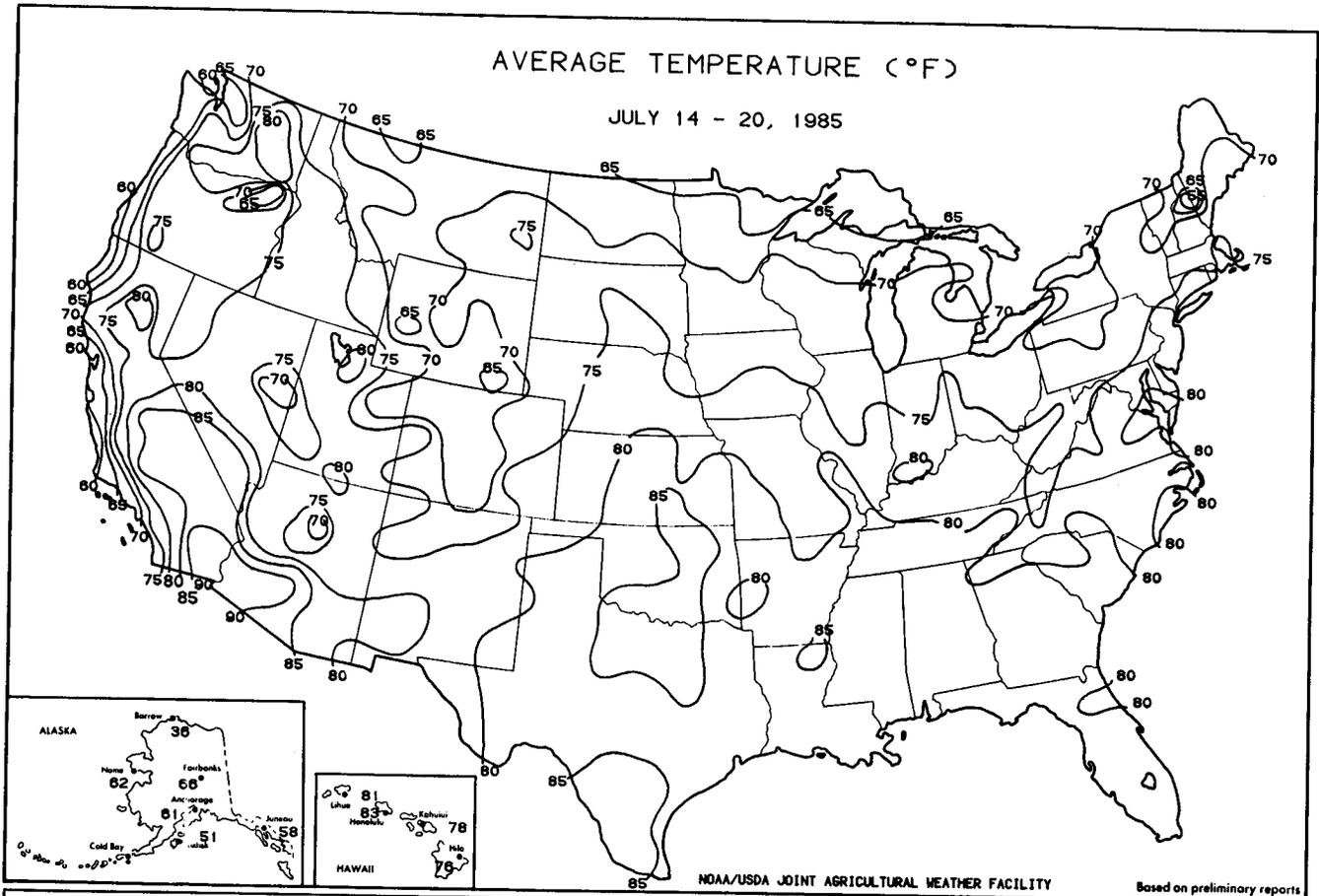
TROPICAL MOISTURE IS STREAMING INTO THE WEST AND PROVIDING MOISTURE FOR WIDELY SCATTERED SHOWERS AND THUNDERSTORMS.

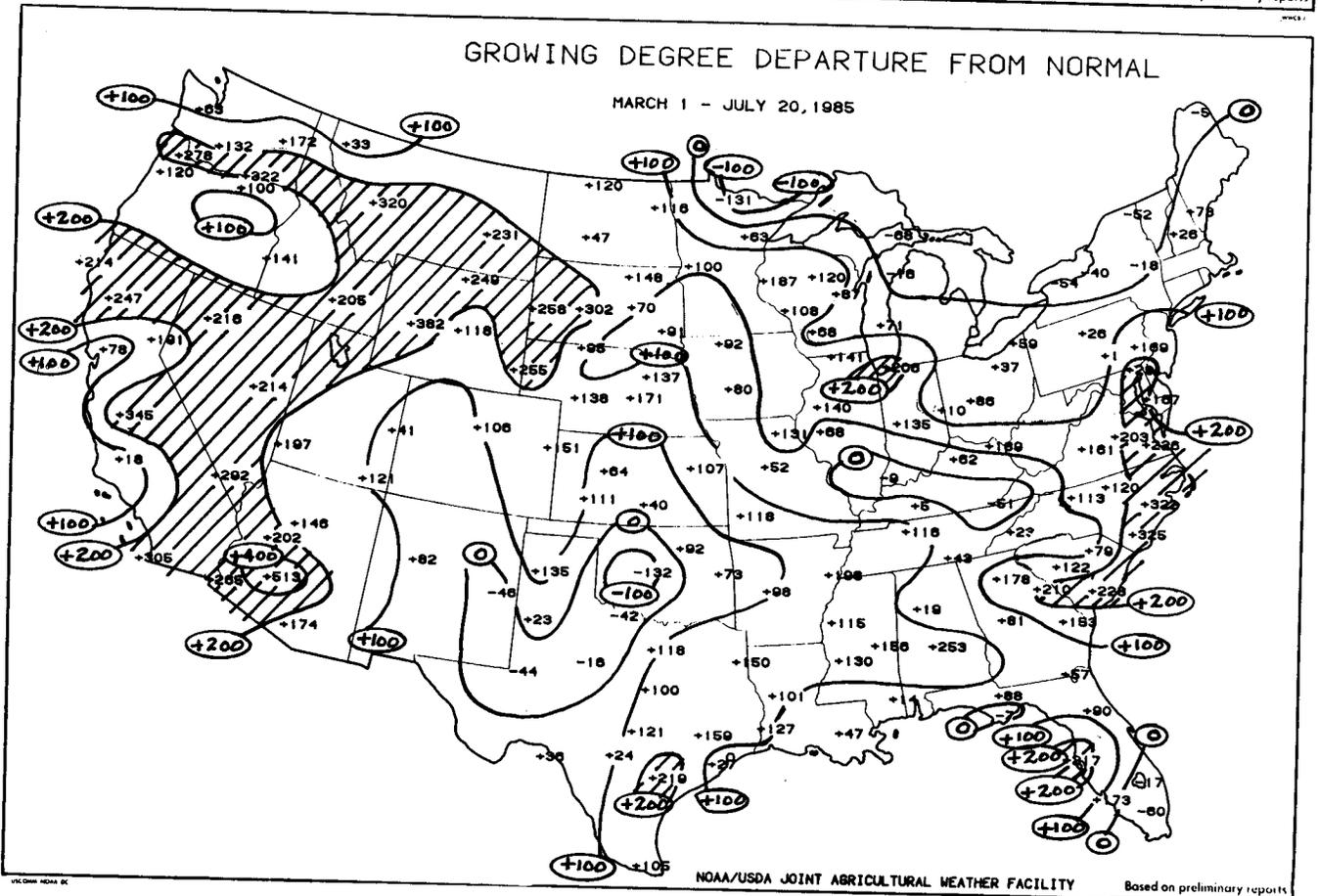
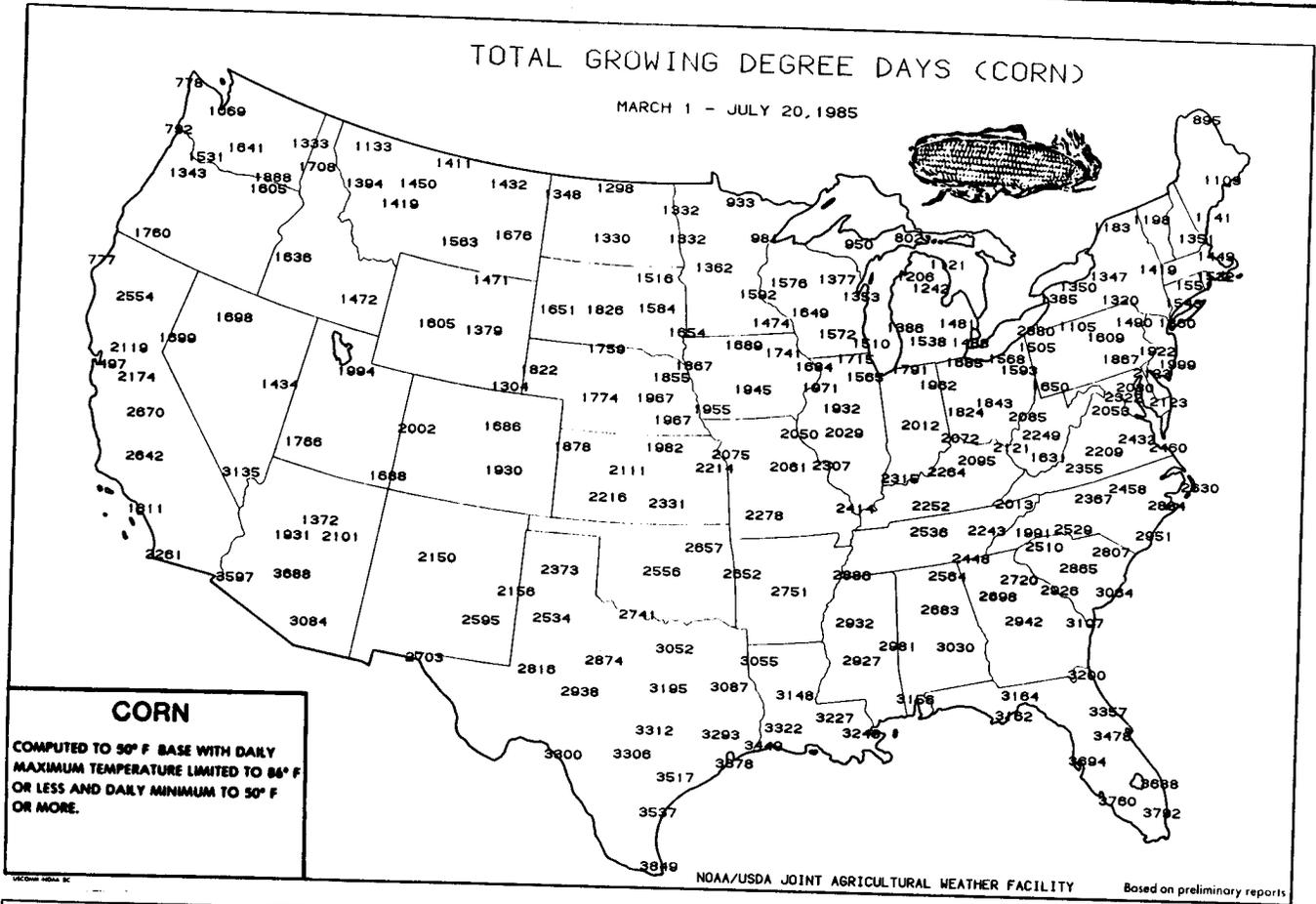
TROPICAL STORM HILDA IS OFF THE COAST OF BAJA, CALIFORNIA, IN THE PACIFIC OCEAN BUT POSES NO THREAT TO LAND AREAS. THE INTERTROPICAL CONVERGENCE ZONE IS ACTIVE AT ABOUT 10 DEGREES NORTH LATITUDE. THE ZONE BULGES NORTHWARD INTO MEXICO AT 100 DEGREES LONGITUDE.

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









Weather Data for the Week Ending July 20, 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	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	91	70	94	68	81	1	.1	-1.2	.1	8.7	122	26.7	80	99	57	4	0	1	0
MOBILE	90	72	91	69	81	-1	.4	-1.4	.2	8.2	82	32.1	87	89	55	4	0	4	0
MONTGOMERY	94	71	97	69	83	1	.2	-.9	.1	3.6	55	23.9	80	97	44	7	0	3	0
AK ANCHORAGE	67	54	70	53	61	2	.2	-.2	.2	1.8	80	6.1	103	87	54	0	0	3	0
BARROW	40	31	43	29	36	4	.2	-.2	.2	1.1	123	1.7	94	98	75	0	6	0	0
FAIRBANKS	78	54	82	51	66	4	.2	-.2	.2	2.9	120	5.2	113	77	32	0	0	3	0
JUNEAU	71	48	77	44	59	3	.1	-.8	.1	6.4	118	15.9	73	93	56	0	0	0	0
KODIAK	54	49	62	46	51	-3	4.6	3.7	2.2	13.5	236	41.3	112	100	86	0	0	1	7
NOME	72	52	83	44	62	11	0	-.5	0	2.6	105	6.4	114	93	51	0	0	1	3
AZ PHOENIX	101	80	108	73	90	-3	.9	.7	.7	.9	152	2.7	87	68	29	7	0	0	1
PRESCOTT	82	63	95	59	73	-1	1.3	.5	.5	1.3	55	6.4	76	92	49	7	0	2	1
TUCSON	96	71	103	70	84	-3	1.0	.4	.6	1.4	82	4.8	112	73	29	2	0	4	1
YUMA	102	83	106	80	93	-2	T	0	T	T	0	T	82	73	29	6	0	6	1
AR FORT SMITH	97	71	100	67	84	2	.6	-.1	.6	3.4	59	25.5	111	67	30	7	0	0	0
LITTLE ROCK	94	71	100	66	83	1	.1	-.7	.1	4.0	76	23.5	84	88	35	7	0	1	1
CA BAKERSFIELD	101	73	111	70	87	2	T	0	T	T	0	T	82	44	5	0	0	1	0
EUREKA	61	51	63	48	56	0	0	0	0	.4	550	2.0	51	51	21	7	0	0	0
FRESNO	102	71	106	67	87	1	T	0	T	.9	148	11.5	51	97	80	0	0	1	0
LOS ANGELES	76	64	80	63	70	5	T	0	T	.4	411	3.4	48	66	19	7	0	1	0
RED BLUFF	100	66	104	62	83	0	0	0	0	T	0	3.5	42	84	56	0	0	0	0
SACRAMENTO	93	58	101	55	76	0	0	0	0	.1	14	4.9	38	56	15	7	0	0	0
SAN DIEGO	79	71	83	69	75	5	0	0	0	.2	94	4.4	41	84	25	6	0	0	0
SAN FRANCISCO	71	52	72	50	62	0	0	0	0	-.2	267	2.4	39	81	63	0	0	0	0
CO DENVER	85	60	92	58	72	-2	2.3	1.8	1.4	3.8	229	6.9	55	93	56	0	0	1	0
GRAND JUNCTION	89	65	96	62	77	-2	.5	.4	.3	.9	135	9.8	103	75	33	3	0	7	1
PUEBLO	90	61	98	56	76	-1	2.1	1.7	.8	2.3	100	6.9	132	72	30	3	0	3	0
CT BRIDGEPORT	83	68	86	63	76	2	.4	-.4	.2	6.1	124	16.9	76	88	55	4	0	3	3
HARTFORD	86	64	91	58	75	1	.8	.1	.7	5.5	102	14.3	61	84	47	1	0	2	1
DC WASHINGTON	91	70	95	64	81	2	.1	-.8	.1	3.3	57	16.2	77	84	41	5	0	1	0
FL APALACHICOLA	88	71	92	71	80	-2	1.2	-.5	.6	10.2	109	23.8	89	91	63	1	0	4	1
DAYTONA BEACH	89	72	90	71	80	-1	.4	-.8	.4	8.3	83	17.7	73	95	59	1	0	1	0
JACKSONVILLE	90	72	92	68	81	0	.7	-.8	.6	8.5	90	17.1	61	94	58	3	0	2	1
KEY WEST	89	77	91	72	83	-2	.8	.1	.5	2.8	38	20.5	119	90	63	4	0	5	0
MIAMI	88	71	91	69	80	-2	5.4	4.2	2.4	14.1	106	22.3	77	92	59	2	0	5	3
ORLANDO	90	72	91	72	81	-1	2.5	.8	1.4	9.9	79	21.4	80	97	55	6	0	7	2
TALLAHASSEE	91	71	93	69	81	0	1.4	-.6	1.2	12.9	105	25.6	70	100	57	6	0	4	1
TAMPA	88	73	92	70	81	-1	3.2	1.5	1.0	11.1	112	18.2	76	96	61	2	0	4	1
WEST PALM BEACH	89	72	91	70	80	-2	4.5	3.2	1.6	11.5	95	24.4	83	97	61	3	0	7	3
GA ATLANTA	89	71	91	69	80	1	1.9	.7	1.3	6.1	94	24.6	81	89	51	3	0	3	1
AUGUSTA	94	70	99	67	82	1	.6	-.5	.4	4.7	70	18.5	69	94	45	7	0	2	0
MACON	92	71	94	70	82	1	2.0	1.0	1.4	4.3	64	18.4	65	90	52	7	0	3	1
SAVANNAH	93	73	95	68	83	2	.7	-1.0	.5	10.1	97	17.5	62	88	45	7	0	2	0
HI HILO	83	70	83	66	76	1	1.8	-.2	.9	7.3	65	74.7	106	95	68	0	0	6	2
HONOLULU	91	75	91	72	83	3	.2	0	.2	.2	27	8.0	59	81	47	6	0	2	0
KAHULUI	86	70	88	66	78	0	.1	0	0	.1	13	6.0	47	93	57	0	0	2	0
ID LIHUE	85	77	86	75	81	3	.2	-.3	.1	.8	28	15.1	64	77	59	0	0	2	0
BOISE	95	57	99	53	76	1	0	-.1	0	.4	36	4.6	63	45	15	7	0	0	0
LEWISTON	96	61	102	56	79	4	0	-.1	0	1.1	60	4.8	63	42	12	7	0	0	0
POCATELLO	92	56	97	52	74	2	.1	0	.1	1.3	89	6.0	90	72	19	6	0	1	0
IL CHICAGO	81	59	87	51	70	-3	.9	.1	.8	3.8	58	17.8	95	92	49	0	0	3	1
MOLINE	85	63	90	55	74	-1	.5	-.6	.5	3.6	48	17.7	83	95	46	1	0	2	0
PEORIA	84	63	89	57	74	-1	.9	0	.9	7.4	113	21.0	105	92	49	0	0	3	1
QUINCY	86	66	91	59	76	-1	1.2	.3	1.1	4.4	64	16.2	77	93	53	1	0	3	1
ROCKFORD	84	60	91	53	72	-1	.2	-.9	.1	4.4	58	15.4	74	95	46	1	0	2	0
SPRINGFIELD	85	63	92	57	74	-3	1.7	1.0	.8	7.6	127	18.6	94	95	46	1	0	4	2
IN EVANSVILLE	93	67	98	59	80	1	.1	-.8	.1	4.9	81	23.9	95	77	35	5	0	1	0
FORT WAYNE	88	63	93	56	75	2	.1	-.6	.1	3.6	62	16.9	85	81	36	2	0	2	0
INDIANAPOLIS	85	63	91	55	74	-2	.4	-.6	.2	5.3	78	23.6	103	91	48	1	0	2	0
SOUTH BEND	84	62	88	52	73	0	0	-.6	.2	4.8	76	19.0	92	84	42	0	0	1	0
IA DES MOINES	89	65	94	55	77	0	.5	-.2	.5	4.3	69	12.1	68	87	44	3	0	2	1
SIoux CITY	85	63	92	58	74	-2	T	-.7	T	1.2	20	12.1	80	84	45	2	0	1	0
KS WATERLOO	88	60	95	51	74	1	1.2	.1	.8	4.0	54	12.5	65	95	40	1	0	2	1
CONCORDIA	94	68	104	61	81	2	.5	-.3	.4	3.7	56	13.3	83	83	35	5	0	3	0
DODGE CITY	95	68	105	66	82	2	2.5	1.8	1.2	5.4	107	11.3	90	85	36	5	0	3	2
GOODLAND	89	65	99	60	77	0	6.5	6.0	2.9	7.8	181	14.4	141	93	42	4	0	4	3
TOPEKA	92	68	97	59	80	1	.5	-.4	.4	5.9	74	18.4	97	91	48	5	0	2	0
WICHITA	96	73	104	68	85	3	1.6	.8	.8	6.8	105	15.1	93	85	38	6	0	4	2
KY BOWLING GREEN	91	60	96	25	76	-3	0	-1.0	0	4.5	60	17.4	59	91	41	5	1	0	0
LEXINGTON	88	65	93	56	76	0	T	-1.1	T	6.5	87	19.9	73	91	46	4	0	0	0
LOUISVILLE	90	67	96	59	79	1	T	-1.0	T	6.9	110	21.2	82	88	46	4	0	0	0
LA ALEXANDRIA	91	73	94	72	82	-1	4.0	2.9	2.1	8.6	123	29.1	86	96	59	5	0	4	3
BATON ROUGE	89	73	91	71	81	-1	5.2	3.5	2.5	12.0	159	31.0	97	86	54	3	0	5	3
LAKE CHARLES	90	73	94	72	82	0	1.9	-.7	1.6	4.8	62	23.5	84	98	58	5	0	4	1
NEW ORLEANS	88	71	90	69	80	-3	.7	-.9	.5	7.7	86	32.1	96	90	62	1	0	2	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending July 20, 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
SHREVEPORT	94	74	97	71	84	1	1.0	.1	.5	10.3	173	26.4	99	87	49	7	0	3	0
ME CARIBOU	79	59	82	55	69	4	1.4	.5	.8	6.3	111	16.2	90	93	48	0	0	3	2
PORTLAND	85	62	89	57	74	5	.2	-.5	.1	3.8	77	12.8	55	88	45	0	0	4	0
MD BALTIMORE	91	66	95	60	78	1	.1	-.8	.1	3.2	51	17.0	75	88	39	5	0	1	0
SALISBURY	90	68	94	59	79	2	1.0	0	1.0	4.1	67	15.9	68	100	52	4	0	1	0
MA BOSTON	84	67	92	61	76	2	.6	0	.5	5.1	113	15.3	65	91	53	1	0	2	0
CHATHAM	76	62	81	57	69	1	1.3	.6	.8	182	22.8	92	--	--	0	0	2	2	
MI ALPENA	80	55	89	44	68	2	.2	.0	.0	2.7	52	15.2	99	97	42	0	0	2	0
DETROIT	83	62	86	56	72	0	0	-.6	.4	4.6	84	20.6	118	92	48	0	0	2	1
FLINT	83	52	90	14	68	-2	.5	-.1	.4	3.5	70	18.9	118	97	45	1	1	3	0
GRAND RAPIDS	82	61	87	50	72	0	.7	-.1	.5	3.8	65	17.1	93	97	44	0	0	3	0
HOUGHTON LAKE	81	59	89	47	70	3	.5	-.1	.5	2.8	57	14.3	97	92	40	0	0	2	1
LANSING	83	61	88	52	72	1	.7	-.1	.4	3.3	62	16.8	102	96	42	0	0	3	0
MARQUETTE	76	53	83	43	64	-1	.3	-.4	.1	4.7	79	25.4	125	93	49	0	0	3	0
MUSKEGON	80	61	84	46	71	1	.7	-.2	.7	2.4	60	15.4	94	85	46	0	0	3	0
MN SAULT STE. MARIE	73	50	80	38	62	-2	.4	-.2	.3	2.9	56	19.8	121	99	61	0	0	1	1
ALEXANDRIA	80	60	83	54	70	-1	.4	-.2	.3	3.6	60	13.3	96	89	40	0	0	2	0
DULUTH	77	57	81	48	67	1	2.0	1.1	1.1	6.7	102	16.4	104	94	51	0	0	2	0
INT'L FALLS	74	54	79	46	64	-2	.4	-.5	.2	6.7	107	18.3	141	93	55	0	0	3	0
MINNEAPOLIS	86	63	89	56	74	1	.4	-.4	.3	2.6	41	14.0	93	84	36	0	0	2	0
ROCHESTER	84	58	89	48	71	0	.1	-.8	.1	1.4	20	8.6	55	79	33	0	0	1	0
MS GREENWOOD	93	73	95	65	83	1	.2	-.9	.2	3.0	47	16.9	52	94	54	6	0	1	0
JACKSON	93	71	95	68	82	0	.5	-.5	.2	4.4	76	23.3	73	99	53	6	0	3	0
MERIDIAN	95	71	96	70	83	2	.1	-.2	.1	3.8	54	22.5	69	97	47	7	0	2	0
MO CAPE GIRARDEAU	93	69	97	62	81	0	0	-.8	0	4.6	78	29.1	111	87	40	5	0	0	0
COLUMBIA	89	65	95	60	77	-1	.8	0	.7	11.2	182	29.5	140	94	44	3	0	3	1
KANSAS CITY	88	66	91	57	77	-2	1.1	.1	.6	4.7	62	19.2	96	90	47	3	0	3	1
SAINT LOUIS	90	70	97	65	80	1	T	-.8	T	9.4	152	25.8	126	82	41	4	0	0	0
SPRINGFIELD	91	68	98	65	80	2	1.1	.3	1.1	8.3	115	28.0	123	82	39	3	0	1	1
MT BILLINGS	85	59	94	55	72	-1	.3	-.1	.2	1.4	53	5.7	58	76	23	3	0	1	1
GLASGOW	83	55	89	49	69	-2	.1	-.2	.1	.2	6	3.8	51	80	23	0	0	2	0
GREAT FALLS	85	52	92	48	68	-2	T	-.2	T	.7	19	5.8	57	67	19	2	0	1	0
HAVRE	86	50	93	45	68	-2	T	-.3	T	.2	7	3.4	47	71	18	3	0	0	0
HELENA	88	55	97	52	72	3	.1	-.2	0	.2	6	2.3	32	62	19	3	0	2	0
KALISPELL	86	48	92	40	67	2	T	-.1	T	1.6	55	6.1	66	78	22	1	0	1	0
MILES CITY	88	61	97	54	75	0	.2	-.1	.1	1.3	35	4.5	49	69	20	4	0	2	0
MISSOULA	92	54	96	46	73	5	0	-.2	0	.5	18	3.9	48	60	14	4	0	0	0
NE GRAND ISLAND	86	65	94	60	75	-2	1.7	1.1	.9	5.7	103	16.4	111	85	44	3	0	2	2
LINCOLN	88	64	94	58	76	-2	2.2	1.5	2.2	8.4	142	17.4	107	92	47	3	0	2	1
NORFOLK	85	63	93	58	74	-2	.7	0	.5	5.3	80	15.5	101	92	46	1	0	4	0
NORTH PLATTE	89	63	99	55	76	2	.6	-.1	.3	1.5	26	8.5	65	73	35	3	0	4	0
OMAHA	85	66	92	62	75	-1	1.7	.9	1.2	4.3	66	13.6	80	83	58	2	0	2	2
SCOTT'SBLUFF	86	61	97	56	73	-1	.2	-.3	.2	2.0	46	5.2	51	83	36	2	0	1	0
VALENTINE	88	61	99	48	75	0	.2	-.3	.1	2.6	56	6.0	55	71	31	2	0	0	0
NV ELY	84	54	93	47	69	1	.2	-.1	.2	.9	76	4.4	80	80	31	2	0	2	0
LAS VEGAS	97	77	110	69	87	-4	.1	0	.1	.2	47	.7	33	51	24	5	0	1	0
RENO	94	55	99	52	74	4	T	-.1	T	.1	23	2.1	45	62	13	6	0	0	0
WINNEMUCCA	98	55	101	50	76	3	0	0	0	T	4	2.5	51	46	11	7	0	0	0
NH CONCORD	87	59	89	52	73	3	.4	-.2	.2	3.8	80	12.7	67	97	42	0	0	3	0
NJ ATLANTIC CITY	89	69	94	60	79	4	.5	-.4	.3	3.3	63	15.4	69	89	47	2	0	2	0
NM ALBUQUERQUE	91	65	97	58	78	-1	.8	.5	.7	1.4	108	5.9	169	68	22	4	0	2	1
CLOVIS	92	65	97	63	79	1	T	-.6	T	3.7	86	11.4	130	57	21	5	0	1	0
ROSWELL	93	66	97	63	79	-3	.4	.1	.2	1.8	108	6.8	189	74	28	5	0	2	0
NY ALBANY	85	59	89	51	72	0	.1	-.6	.1	4.7	90	14.3	75	95	50	0	0	1	0
BINGHAMTON	81	61	85	55	71	2	.4	-.4	.3	4.7	79	14.5	73	85	48	0	0	2	0
BUFFALO	80	60	83	52	70	-1	.5	-.2	.3	4.6	102	21.4	113	89	50	0	0	5	0
NEW YORK	88	71	94	66	80	3	1.9	1.1	1.4	7.6	140	18.6	81	88	50	2	0	3	1
ROCHESTER	81	59	84	49	70	-2	.3	-.2	.3	4.0	92	15.2	91	96	53	0	0	0	0
SYRACUSE	82	61	87	53	72	0	1.2	.3	.8	4.5	74	15.6	75	95	49	0	0	2	3
NC ASHEVILLE	86	64	89	62	75	2	.1	-.9	.1	3.0	42	15.8	58	98	52	0	0	1	0
CHARLOTTE	91	69	94	67	80	1	T	-.9	T	7.0	115	23.9	94	93	46	5	0	0	0
GREENSBORO	89	67	93	64	78	1	.1	-.9	.1	3.0	45	17.1	71	91	47	3	0	1	0
HATTERAS	86	72	89	66	79	1	.4	-.8	.4	6.5	86	23.2	84	95	64	0	0	1	0
NEW BERN	90	72	92	67	81	2	.4	-.2	.2	6.9	73	20.9	74	89	52	6	0	2	0
RALEIGH	89	67	92	62	78	0	.4	-.6	.4	5.7	89	20.5	86	87	47	3	0	1	0
WILMINGTON	90	71	92	66	81	0	.9	-.9	.8	7.3	70	19.5	68	94	55	4	0	2	1
ND BISMARCK	85	53	93	43	69	-2	T	-.4	T	1.9	42	8.8	90	82	28	2	0	1	0
FARGO	82	56	87	49	69	-2	2.1	1.3	1.2	3.7	69	11.0	98	91	40	0	0	3	2
GRAND FORKS	79	54	88	46	67	-2	.9	.3	.6	2.6	55	9.6	95	82	42	0	0	4	1
WILLISTON	82	55	89	48	68	-2	.8	.4	.4	1.9	48	5.9	68	71	26	0	0	3	0
OH AKRON-CANTON	82	61	85	52	71	-1	.2	-.8	.1	4.7	80	20.4	98	94	53	0	0	2	0
CINCINNATI	86	65	92	57	75	-1	T	-.1	T	6.0	85	24.3	101	83	44	2	0	0	0
CLEVELAND	81	62	85	53	72	-1	.7	-.1	.5	4.5	79	18.7	94	87	50	0	0	2	0
COLUMBUS	83	62	89	56	73	-1	3.6	2.7	2.4	6.7	102	19.1	87	89	47	0	0	2	2

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending July 20, 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
DAYTON	83	62	90	55	73	-3	.7	-1	.6	3.4	56	18.1	87	83	44	1	0	2	1
TOLEDO	85	62	90	53	73	1	1.0	.2	.7	5.6	99	19.8	110	90	49	1	0	2	1
YOUNGSTOWN	81	58	85	50	69	-1	3.0	2.0	3.0	6.8	111	19.5	92	90	49	0	0	1	1
OK OKLAHOMA CITY	93	73	95	71	83	1	.6	-1	.4	9.0	150	27.0	144	82	40	6	0	2	0
TULSA	95	75	98	72	85	1	.7	-1	.7	8.4	120	30.5	136	83	41	7	0	1	0
OR ASTORIA	67	54	73	50	61	1	T	-2	T	3.1	97	19.7	53	99	73	0	0	0	0
BURNS	92	53	96	48	72	2	0	-1	0	.1	12	3.4	94	---	---	6	0	0	0
MEDFORD	98	58	104	54	78	5	0	0	0	.4	45	4.8	46	74	18	7	0	0	0
PENDLETON	95	61	102	57	78	3	0	-1	0	.8	84	4.4	64	41	13	6	0	0	0
PORTLAND	91	62	101	59	76	8	0	-1	0	2.3	132	9.8	49	80	32	4	0	0	0
SALEM	92	53	101	49	73	6	0	-1	0	2.4	165	11.4	52	90	28	4	0	0	0
PA ALLENTOWN	86	64	89	57	75	1	.4	-6	.4	7.1	117	17.8	75	92	46	0	0	2	0
ERIE	78	62	83	54	70	1	1.9	1.2	1.4	7.8	133	22.7	113	90	59	0	0	2	1
HARRISBURG	88	69	89	65	79	3	.1	-7	.1	3.7	64	17.9	82	87	45	0	0	1	0
PHILADELPHIA	88	67	90	63	78	1	1.1	-2	1.1	4.8	76	16.3	71	90	50	3	0	1	0
PITTSBURGH	83	62	87	53	72	0	.1	-8	.1	4.3	74	18.0	84	84	47	0	0	1	0
SCRANTON	83	62	86	54	72	0	.7	-1	.5	5.8	103	18.3	98	94	52	0	0	2	1
RI PROVIDENCE	85	66	91	61	75	2	.8	.1	.5	5.8	124	18.3	76	91	52	1	0	2	0
SC CHARLESTON	91	71	92	68	81	0	.2	-1.4	.2	10.8	95	19.8	67	94	52	6	0	2	0
COLUMBIA	93	69	96	66	81	0	.1	-1.2	.1	7.3	93	22.7	79	99	46	6	0	1	0
FLORENCE	92	69	94	65	80	-1	T	-1.3	T	4.3	51	15.0	58	98	48	5	0	1	0
GREENVILLE	90	68	93	67	79	1	.5	-4	.5	6.5	86	20.6	67	97	49	4	0	2	1
SD ABERDEEN	86	59	91	50	72	0	.5	0	.3	3.0	61	8.6	75	83	35	3	0	2	0
HURON	85	60	93	50	72	-2	3.2	2.7	2.3	5.6	114	13.5	113	93	43	1	0	3	2
RAPID CITY	85	61	91	51	73	0	.5	0	.4	2.1	43	5.7	50	76	32	3	0	2	0
STOUX FALLS	83	62	90	55	72	-2	.7	.1	.6	3.7	68	15.1	107	84	46	1	0	3	1
TN CHATTANOOGA	92	71	95	69	82	3	.2	-9	.2	3.4	53	21.2	68	97	49	6	0	1	0
KNOXVILLE	92	67	94	65	80	2	0	-1.0	0	6.4	93	20.2	70	93	45	6	0	0	0
MEMPHIS	93	74	96	68	84	1	.2	-8	.1	5.1	93	26.7	85	83	46	5	0	2	0
NASHVILLE	95	70	98	62	82	3	.7	-2	.7	2.4	39	17.1	58	84	36	7	0	1	0
TX ABILENE	95	72	98	69	84	0	.2	-2	.2	2.0	52	11.8	94	72	31	7	0	2	0
AMARILLO	96	68	99	65	82	3	T	-5	T	3.1	60	10.0	91	67	25	6	0	1	0
AUSTIN	94	73	95	72	83	-2	0	-4	0	7.2	165	16.5	95	92	43	7	0	0	0
BEAUMONT	92	72	94	71	82	-1	2.7	1.4	1.6	7.5	102	28.8	108	100	60	6	0	4	2
BROWNSVILLE	92	74	93	72	83	-1	T	-3	T	10.7	286	19.2	179	97	53	6	0	1	0
CORPUS CHRISTI	92	73	94	71	82	-3	0	-4	0	5.0	107	18.8	137	88	48	6	0	0	0
DEL RIO	95	73	98	71	84	-2	0	-4	0	6.1	215	13.3	153	75	31	7	0	0	0
EL PASO	93	65	99	60	79	-3	.1	-3	0	.2	12	2.0	63	67	26	6	0	2	0
FORT WORTH	96	75	99	72	85	-1	1.2	.7	.6	5.0	126	18.0	101	78	41	6	0	2	2
GALVESTON	86	75	90	72	81	-3	3.7	2.8	1.8	10.3	174	27.5	143	89	65	1	0	4	2
HOUSTON	90	72	94	70	81	-2	4.2	3.4	1.7	10.2	162	28.1	115	97	58	5	0	5	3
LUBBOCK	94	69	99	66	81	1	T	-5	T	5.2	118	10.4	105	70	30	5	0	0	0
MIDLAND	96	69	100	67	83	1	.1	-3	.1	2.9	112	6.1	87	67	25	6	0	1	0
SAN ANGELO	93	71	99	68	82	-2	T	-3	T	3.6	133	11.5	125	76	34	5	0	0	0
SAN ANTONIO	92	73	94	72	83	-2	T	-4	T	13.8	323	27.0	175	89	42	6	0	1	0
VICTORIA	94	75	97	74	84	0	.4	-1	.4	8.2	130	28.7	152	96	45	7	0	1	0
WACO	98	75	102	70	86	0	T	-4	T	6.3	166	16.5	92	83	38	7	0	1	0
WICHITA FALLS	98	72	100	70	85	-1	.1	-3	.1	7.1	169	22.3	146	75	33	7	0	2	0
UT BLANDING	89	59	93	57	74	0	.1	-2	.1	.4	38	6.1	115	71	25	4	0	2	0
CEDAR CITY	85	61	97	55	73	-2	.7	.4	.7	.9	85	5.8	107	86	41	3	0	1	0
SALT LAKE CITY	93	71	99	68	82	4	.4	.3	.4	1.9	132	9.0	95	66	26	4	0	2	0
VT BURLINGTON	83	61	88	55	72	2	2.7	1.9	2.7	7.0	120	17.6	101	88	44	0	0	1	0
VA NORFOLK	87	71	92	64	79	1	.6	-6	.3	9.5	144	22.8	95	87	52	4	0	2	0
RICHMOND	94	68	99	62	81	3	.7	-5	.6	6.5	96	18.2	78	91	42	5	0	2	1
ROANOKE	91	67	96	64	79	3	.2	-6	.2	4.3	77	20.9	96	81	42	4	0	1	0
WA COLVILLE	93	54	99	52	74	5	0	-1	0	1.5	75	6.2	65	52	17	7	0	0	0
QUILLAYUTE	74	51	90	44	63	4	0	-5	0	2.5	55	27.9	51	97	53	1	0	1	0
SEATTLE-TACOMA	84	57	93	55	70	5	0	-1	0	2.9	154	10.8	55	84	36	2	0	0	0
SPOKANE	91	57	97	54	74	4	0	-1	0	.7	42	4.8	51	54	14	3	0	0	0
YAKIMA	94	56	99	53	75	4	0	0	0	.4	52	2.2	49	75	20	6	0	0	0
WV BECKLEY	81	58	84	52	70	0	.3	-7	.3	6.0	89	20.5	82	97	54	0	0	1	0
CHARLESTON	88	63	93	57	76	1	.8	-4	.8	5.6	83	22.9	93	87	47	3	0	1	1
HUNTINGTON	86	64	91	57	75	-1	.9	-1	.9	7.5	117	23.2	97	97	49	1	0	2	1
PARKERSBURG	85	62	90	55	73	-1	.5	-5	.5	3.1	41	17.2	66	97	50	1	0	2	1
WI GREEN BAY	83	60	88	52	71	1	0	-7	0	4.2	78	15.1	99	89	41	0	0	0	0
LA CROSSE	86	61	91	51	73	0	.1	-8	.1	3.1	46	11.8	69	85	34	1	0	1	0
MADISON	84	58	90	51	71	0	.1	-8	.1	3.6	57	14.9	88	91	44	1	0	1	0
MILWAUKEE	81	64	88	55	72	1	.2	-6	.2	2.3	39	15.3	87	94	51	0	0	2	0
WAUSAU	82	59	88	53	70	1	.1	-8	.1	3.8	58	12.6	75	93	38	0	0	2	0
WY CASPER	86	53	93	49	69	-2	.1	-1	.1	1.7	86	6.2	81	86	24	1	0	3	0
CHEYENNE	78	56	87	54	67	-2	1.2	.8	.6	3.5	108	6.7	78	87	44	0	0	4	1
LANDER	87	60	93	57	73	2	.1	-1	0	1.9	96	4.7	52	61	24	2	0	2	0
SHERIDAN	85	54	95	50	70	-1	T	-2	T	1.8	61	5.9	60	83	30	3	0	0	0
PR SAN JUAN	89	75	92	73	82	0	2.5	1.4	1.3	2.9	38	16.8	69	94	62	3	0	0	6

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

National Agricultural Summary

JULY 15 to 21

HIGHLIGHTS: Inadequate moisture continued holding most of the Nation in its grasp, but overall crop condition was mostly good to fair. Cooler temperatures and scattered rain helped relieve some of the drought stress, especially over the Corn Belt and Great Plains. The drought continued stressing crops in the Pacific Northwest, the Northern Mountain States, and some Southern States. The dry weather allowed wheat harvest to advance rapidly and kept farmers working 5 to 6 days.

Winter wheat was 82 percent(%) harvested, 6 points ahead of 1984 and the 5-year average. Spring wheat was 99% headed in the 5 major producing States compared with 93% normally. Corn was silking on 53% of the acreage and 8% reached the dough stage. Half the soybean acreage had blooms and 13% of the acreage was setting pods. Sorghum was 26% headed, 2 points ahead of normal. Nearly three-fourths of the cotton acreage reached squaring compared with 83% in 1984 and the 83% average. Forty-two percent of the cotton acreage was setting bolls, which is about normal. Rice was 25% headed, 4 points behind normal. Pastures continued to fall victim to inadequate moisture across most of the Nation. Livestock were mostly fair to good. Stockwater shortened in some areas and farmers increased supplemental feeding as needed.

SMALL GRAINS: The dry weather advanced small grain development and harvest. Combining was 82% finished in the 18 major producing States, 6 points ahead of last year and the average. More than half of Michigan's wheat acreage was harvested last week. Wheat harvest was up 17 points in Colorado and Oregon, up 10 points in Nebraska, and up 27 points in South Dakota from last week.

Spring wheat was 99% headed compared with 96% last year and the 93% average. Spring wheat harvest began in Montana. The crop was mostly fair to good except in Montana where conditions remained poor.

CORN: Corn was good to fair. In 16 of the 17 major producing States, corn was silking on 53% of the acreage, 24 points ahead of 1984 and 17 points ahead of normal. Silking was ahead of both last year and the average in all 16 States. Eight percent of the corn acreage reached the dough stage compared with 5% normally. Limited harvest was underway in the South from Texas to Florida.

SOYBEANS: Soybeans were mostly good to fair. Blooms were present on 50% of the acreage and 13% of the acreage was setting pods. This compares with 41% blooming and 9% setting pods normally. Some double-crop soybeans were not planted in Missouri because of dry weather.

SORGHUM: Sorghum was fair to mostly good, but hot, dry conditions stressed dryland sorghum in Texas. Sorghum was 26% headed in 6 of the 7 major producing States, 2 points behind normal. Rain slowed harvest in Texas. Sorghum continued turning color and ripening across the Southeast.

COTTON: Cotton prospered from the hot, humid weather. The crop condition remained good. Bolls were present on 42% of the acreage and 72% of the acreage had reached squaring. Normally, 83% of the acreage would have squares and 42% would be setting bolls.

OTHER CROPS: Rice was 25% headed, 1 point behind last year and 4 points behind normal. Texas rice was 39% headed compared with 93% normally. Harvest continued in Texas and began in Louisiana.

Flue-cured tobacco harvest continued gaining momentum, but neared completion in Florida. Shade tobacco harvest was in full swing and Broadleaf tobacco harvest began in the New England States. Activities for Burley tobacco centered around topping, suckering, and spraying for insect and sucker control.

Peanut pegging was virtually complete in Alabama and Georgia. The crop condition was generally good. Texas peanuts showed good stands despite the lack of moisture in some areas.

FRUIT AND NUTS: Peach harvest advanced to 81 and 89% completion in South Carolina and Georgia, respectively. Peaches were harvested in New York's Hudson Valley. Texas' late variety peach harvest was about over in many central and eastern areas. Clingstone peach harvest continued in California. Peach harvest began in Washington. Apple harvest continued gaining momentum along the east coast. Sweet cherry harvest was winding down across the Nation. Hot weather caused problems with fruit coloring and droppage in California. Stone fruit was about 50% harvested in California. Florida citrus groves received ample rain, producing abundant new growth and new crop fruit continued sizing well.

VEGETABLES: Summer vegetable harvest continued declining in the South but increased in the Northern vegetable producing areas. Irrigation of vegetables increased especially in the Western States. Rain slowed fall vegetable land preparation in Texas, but land preparation picked-up in most southern States. Harvest of inspected watermelons increased in California. Carrot harvest was fairly heavy, but cauliflower harvest was light in California. Market tomato harvest increased in the northern San Joaquin Valley, and processing tomato harvest was active in the southern San Joaquin Valley.

PASTURES AND LIVESTOCK: Pastures remained mostly fair but continued drying from the lack of moisture. Grasshopper population continued increasing in the West, depleting already short forage and grass supplies. Livestock were mostly good, but supplemental feeding increased as needed. Stockwater continued decreasing in the West.

CROP PROGRESS

FOR WEEK ENDING JULY 21

	COTTON % SQUARING		
	1985	1984	AVG.
ALA	100	96	89
ARIZ	100	100	99
ARK	100	100	99
CALIF	100	96	94
GA	97	94	95
LA	98	93	91
MISS	100	98	97
MO	100	99	89
N MEX	90	89	90
N C	97	61	78
OKLA	57	25	35
S C	100	100	100
TENN	95	93	90
TEX	47	75	76
14 STATES	72	83	83

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

	COTTON % SETTING BOLLS		
	1985	1984	AVG.
ALA	78	52	49
ARIZ	81	80	90
ARK	81	60	65
CALIF	75	70	58
GA	79	62	82
LA	81	56	56
MISS	61	44	48
MO	88	42	51
N MEX	80	72	74
N C	63	40	47
OKLA	12	5	5
S C	85	80	86
TENN	35	25	25
TEX	15	28	29
14 STATES	42	41	42

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

	SPRING WHEAT % HEADED		
	1985	1984	AVG.
IDAHO	99	94	96
MINN	97	99	97
MONT	100	100	90
N D	98	93	90
S DAK	100	100	100
5 STATES	99	96	93

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

	WINTER WHEAT % HARVESTED		
	1985	1984	AVG.
ARK	100	100	100
CALIF	97	99	96
COLO	85	62	67
GA	100	100	100
IDAHO	3	1	2
ILL	98	98	98
IND	100	90	90
KANS	100	99	95
MICH	65	30	26
MO	100	97	92
MONT	5	0	0
NEBR	95	75	75
OHIO	90	80	80
OKLA	100	100	99
OREG	21	7	10
S DAK	58	24	41
TEX	100	98	99
WASH	6	2	7
18 STATES	82	76	76

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

	RICE % HEADED		
	1985	1984	AVG.
ARK	7	0	5
CALIF	5	0	5
LA	59	57	56
MISS	48	17	15
TEX	39	89	93
5 STATES	25	26	29

THESE 5 STATES PRODUCED 97% OF THE 1984 RICE CROP.

	SORGHUM % HEADED		
	1985	1984	AVG.
ARK	64	NA	NA
KANS	4	5	4
MO	28	30	27
NEBR	4	2	8
OKLA	14	10	15
S DAK	4	0	3
TEX	66	64	69
7 STATES	28	NA	NA

EXCL. STATES WITH NA 26 26 28

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

NA - NOT AVAILABLE

	CORN % SILKING		
	1985	1984	AVG.
COLO	28	14	8
GA	99	96	98
ILL	84	50	64
IND	70	30	35
IOWA	57	39	39
KANS	60	40	30
KY	74	46	55
MICH	25	15	20
MINN	25	4	14
MO	74	36	46
NEBR	45	10	25
N C	98	86	87
OHIO	55	25	35
PA	16	0	0
S DAK	11	3	14
TEX	83	NA	NA
WIS	16	9	12
17 STATES	54	NA	NA

THESE 17 STATES PRODUCED 93% OF THE 1984 CORN CROP.

	CORN % DOUGH		
	1985	1984	AVG.
COLO	0	0	0
GA	94	83	90
ILL	14	3	10
IND	5	0	0
IOWA	0	0	0
KANS	15	2	5
KY	12	1	1
MICH	0	0	0
MINN	0	0	0
MO	33	7	12
NEBR	1	0	0
N C	72	46	58
OHIO	5	2	2
PA	0	0	0
S DAK	0	0	0
TEX	62	NA	NA
WIS	0	0	0
17 STATES	9	NA	NA

THESE 17 STATES PRODUCED 93% OF THE 1984 CORN CROP.

	SOYBEANS % BLOOMING		
	1985	1984	AVG.
ALA	35	26	31
ARK	20	21	23
GA	42	27	35
ILL	72	52	61
IND	60	50	45
IOWA	67	47	53
KANS	25	30	20
KY	38	16	22
LA	39	30	32
MICH	30	35	33
MINN	55	46	49
MISS	46	32	32
MO	49	31	31
NEBR	75	40	50
N C	16	14	16
OHIO	45	40	40
S C	20	7	12
S DAK	45	22	52
TENN	25	25	20
19 STATES	50	37	41

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

	SOYBEANS % SETTING PODS		
	1985	1984	AVG.
ALA	17	5	14
ARK	1	5	6
GA	13	8	11
ILL	25	12	18
IND	10	7	7
IOWA	22	11	16
KANS	5	4	4
KY	10	1	1
LA	11	12	12
MICH	2	1	2
MINN	4	1	3
MISS	7	4	8
MO	22	4	6
NEBR	10	4	4
N C	0	0	0
OHIO	10	5	10
S C	3	0	0
S DAK	6	2	2
TENN	6	1	4
19 STATES	13	6	9

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

NA - NOT AVAILABLE

NA - NOT AVAILABLE

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: Rainfall mostly 1.00 in. statewide. Some areas over 2.00 in. Temperatures averaged near normal.

Fieldwork 5.2 days. Soil moisture 31% short, 69% adequate. Corn silked 99%, 93% 1984; dented 69%, 51% 1984, 50% avg.; mature 35%, 9% 1984; 5% very poor, 14% poor, 33% fair, 41% good, 7% excellent. Cotton squaring 100%, 96% 1984, 89% avg.; setting bolls 78%, 52% 1984, 49% avg.; 20% fair, 63% good, 17% excellent. Soybeans blooming 35%, 26% 1984, 31% avg.; setting pods 17%, 5% 1984, 14% avg.; 5% poor, 34% fair, 59% good, 2% excellent. Peanuts pegging 98%, 65% 1984, 80% avg.; 19% fair, 75% good, 6% excellent. Primary activities: Spraying row crops for insects, disease, weed control; cultivating soybeans, peanuts, sorghum; harvesting fruits, vegetables, hay, spraying fruit trees. Sorghum 3% poor, 26% fair, 61% good, 10% excellent; pastures 5% poor, 36% fair, 57% good, 2% excellent; livestock 2% poor, 34% fair, 62% good, 2% excellent.

ALASKA: Tanana Valley, Kenai peninsula, warmer, wetter than normal with scattered showers, thunderstorms while Matanuska Valley warmer, drier than normal.

Days worked 6.0. Topsoil moisture 37% short; 60% adequate; 2% surplus. Barley 24% poor, 43% fair, 33% good. Small grain height ranged 15 to 40 in; prospectes below average to average. Hay harvest ranged 10 to 25% complete Kenai Peninsula to 80% Matanuska Valley, 50% Tanana Valley. Potatoes over 40% hilled, starting to bloom. Head lettuce harvest began. Radish, Leaf lettuce, Romaine, and other greens harvest continued.

ARIZONA: Monsoon in full force July 15-21 with daily showers, thunderstorms most of State. Localized conditions with 1.00 in. diameter hail, damaging winds, destructive lightning strikes. Very heavy rain with flash flooding. Eastern two-thirds between 0.50 to 1.50 in., except locally over 3.00 in. in White Mountains, southeast. Light amounts reported over extreme west. Much cooler than previous week, average from 10 above to 50 below.

Cotton 81% setting bolls, 80% 1984, 90% avg.; 2% fair, 98% good. Insect, disease infestations moderate. Alfalfa hay good condition. Harvest active in southeast, light to moderate elsewhere. Sales slow. Insect damage heavy west. Weed problems moderate. Sorghum good condition with stands established. Watermelon harvest mostly complete. Grape picking complete, shipments continue in central valley, persians, sharlins, green onions, carrots available. Potato digging complete in Willcox. Early apples harvested for products. Peach harvest continued.

ARKANSAS: Temperatures 20 below normal to 20 above normal. Isolated heavy rains. Temperature extremes 52o; 105o. Precipitation none to 6.00 in.

Days suitable for fieldwork 7.0. Soil moisture 80% short, 20% adequate. Cotton 100% squared, 100% 1984, 99% avg. Cotton 81% setting bolls, 60% 1984, 65% avg. Cotton 15% fair, 56% good, 29% excellent. Winter wheat 100% harvested, 100% 1984, 100% avg. Rice 7% headed, none 1984, 5% avg. Rice 2% poor, 12% fair, 81% good, 5% excellent. Sorghum 64% headed, none 1984, none avg. Sorghum 2% poor, 29% fair, 65% good, 4% excellent. Soybeans 20% blooming, 21% 1984, 23% avg. Soybeans 1% setting pods, 5% 1984, 6% avg. Soybean 9% poor, 29% fair, 62% good.

CALIFORNIA: Average weekly temperatures continued above normal at many locations, not as warm as previous week. Zone averages for State ranged from near normal to 40 above normal. Handfull of individual stations registered temperatures at below normal levels. Only precipitation in form of a few light showers at a few stations.

Excellent weather continued. Wheat 97% harvested, 99% 1984, 96% avg. Rice 5% headed, none 1984, 5% avg. Cotton 100% squared, 96% 1984, 94% avg. Cotton 75% setting bolls, 70% 1984, 58% avg. Safflower harvest began in Yuba City area. Corn, sunflower, sugarbeets continued good development; fields irrigated and cultivated. Alfalfa cut for hay. Rice 100% good. Cotton 50% fair to 50% good. Summer pruning of apricots. Hass avocado harvest continued. Black Mission figs harvested. Table grape harvest continued. Asian pears harvested, excellent size, quality. Stone fruit harvest about 50% completed. Hot weather caused some problems with coloring in plums. Clingstone peach harvest continued. Prunes good size, spotty set. Tree ripe lemons on southern coast dropping due to continued high temperatures. Almond hulls continued to split. Walnuts treated for husk fly. Broccoli moderate supply central coast. Cantaloup harvest active San Joaquin Valley. Carrot harvest fairly heavy. Cauliflower fairly light supply. Celery moderate supply. Honeydew, miscellaneous melon harvest active central interior valleys. Lettuce moderate supply. Spring, summer potato harvest light. Dehydrator onion harvest active. Market tomato harvest increased northern San Joaquin Valley. Processing tomato harvest active southern San Joaquin Valley. Harvest of inspected watermelons increased. Ranges, pastures extremely dry over most of State. Fire danger continued high most districts. Grass, brush fires continued problem. Feed, stockwater supplies reported below normal some summer grazing districts.

COLORADO: Daily afternoon showers, thunderstorms produced locally heavy rains, especially in northeast. Temperatures near normal.

Days suitable for fieldwork 6.0. Soil moisture 75% short, 21% adequate, 4% surplus. Winter wheat 85% harvested, 62% 1984, 67% avg. Corn 4% fair, 46% good, 50% excellent; 28% silked, 14% 1984, 8% avg. Barley 46% ripe, 23% 1984, 27% avg.; 34% harvested, 4% 1984, 9% avg. Alfalfa hay 25% cut second time, 22% 1984, 26% avg. Dry beans 33% flowered, 23% 1984, 20% avg. Livestock in good condition.

FLORIDA: Scattered to numerous thunderstorms with locally heavy rainfall. Near to below normal summertime temperatures.

Soil moisture mostly adequate, few areas remain short. Corn maturing rapidly, harvesting underway. Soybeans making good growth. Cotton very good condition; pesticide applications active and effective. Peanuts excellent progress. Tobacco harvest active some fields, others nearing completion. Haymaking active, weather permitting, many growers short one cutting. Sugarcane making good growth. Pastures remain good statewide. Numerous thundershowers improved permanent pastures in need of increased growth. Cattle good to excellent Lower Peninsula, good elsewhere. Daily rain most citrus areas, moisture adequate; abundance of new growth. Good fruit sizes for new crop fruit. Caretakers active with general summer sprays and fertilizations. Frequent shower activities most vegetable areas. Spring vegetable

season complete, land preparation for fall vegetables underway. Supplies of summer vegetables, watermelons limited.

GEORGIA: Rainfall totals in 1.00 in. range most locations. Extremes: 620 Clayton on several days to 990 Augusta on 20th. Average daily pan evaporation near 0.25 in.

Days suitable for fieldwork 5.1. Soil moisture 4% very short, 25% short, 67% adequate, 4% surplus. Main activities haying, harvesting corn, tobacco, watermelons, applying sprays. Corn 99% silked, 96% 1984, 98% avg.; 94% dough, 83% 1984, 90% avg.; 76% dent, 57% 1984, 71% avg.; 37% mature, 26% 1984, 40% avg.; 3% harvested, 2% 1984, 5% avg. Corn 4% very poor, 7% poor, 34% fair, 51% good, 4% excellent. Cotton 97% squaring, 94% 1984, 95% avg.; 79% setting bolls, 62% 1984, 82% avg.; none bolls open, none 1984, 1% avg. Cotton 18% fair, 79% good, 3% excellent. Grain sorghum 99% planted, 97% 1984, 96% avg.; 1% poor, 25% fair, 70% good, 4% excellent. Peanuts 99% blooming, 97% 1984, 98% avg.; 93% pegging, 90% 1984, 93% avg.; 2% very poor, 4% poor, 10% fair, 78% good, 6% excellent. Soybeans 100% planted, 99% 1984, 98% avg.; 42% blooming, 27% 1984, 35% avg.; 13% setting pods, 8% 1984, 11% avg. Soybeans 1% poor, 17% fair, 80% good, 2% excellent. Tobacco 33% harvested, 34% 1984, 45% avg.; 18% fair, 82% good. Watermelons 89% harvested, 73% 1984, 77% avg.; 5% poor, 29% fair, 66% good. Apples 8% harvested, 14% 1984, 15% avg.; 5% poor, 46% fair, 46% good, 3% excellent. Peaches 89% harvested, 85% 1984, 87% avg.; 13% very poor, 10% poor, 40% fair, 34% good, 3% excellent. Pecans 2% very poor, 6% poor, 43% fair, 49% good. Pastures 2% poor, 30% fair, 63% good, 5% excellent. Hay 4% poor, 32% fair, 60% good, 4% excellent. Cattle 19% fair, 78% good, 3% excellent. Hogs 16% fair, 82% good, 2% excellent.

HAWAII: Variable weather over State enabled crops to make fair to good progress. Trades winds 10 to 20 mph with continuing record high temperatures. Midweek showers over island chain helped cool temperatures for a day, still water conservation efforts in effect in Waimea, Hawaii, on Oahu. Banana orchards in fair to good condition; rainfall beneficial to crop. Vegetable supplies adequate. Papaya harvesting active as weather conditions favorable toward fruit development.

IDAHO: Temperatures continued warm, many highs near 100. Very light showers on 18th in extreme north. Showers in southeast on 15th, 18th, 19th. Hamer in southeast reported most with 0.72 in., Grace 0.57 in., Rexburg 0.49 in. Other amounts in southeast less than 0.20 in.

Days suitable for fieldwork 7.0. Alfalfa second cutting 18% cut, 10% 1984, 11% avg. Mint 12% harvested, 8% 1984. Grass seed 10% harvested, 10% 1984. Apricot 24% harvested, 5% 1984. Onions good. Winter wheat 100% headed; 3% harvested, 1% 1984, 2% avg.; 3% very poor, 7% poor, 43% fair, 47% good. Spring wheat 99% headed, 94% 1984, 96% avg.; 14% poor, 41% fair, 45% good. Barley 97% headed; 2% harvested; 10% poor, 43% fair, 47% good. Potatoes 2% less than 12 in., 24% more than 12 in. but not closed middles, 74% closed middles; 4% fair, 62% good, 34% excellent. Grasshoppers infestation in south and east 5% none, 14% light, 48% moderate, 33% severe. Few peas harvested in some areas. Drought serious in some non-irrigated areas. All range, pastures dry. Range fires common. Livestock under some stress, but still good.

ILLINOIS: Temperatures 1 to 60 below normal. Precipitation none to 2.00 in. scattered, heaviest central.

Days suitable for fieldwork 6.0. Soil moisture 62% short, 38% adequate. Corn silking 84%, 50% 1984, 64% avg.; dough stage 14%, 3% 1984, 10% avg. Corn 18% fair, 56% good, 26% excellent. Soybeans blooming 72%, 52% 1984, 61% avg.; setting pods 25%, 12% 1984, 18% avg.; soybeans 21% fair, 64% good, 15% excellent. Winter wheat harvested 98%, 98% 1984, 98% avg. Oats ripe 90%, 71% 1984, 71% avg.; harvested 58%, 41% 1984, 37% avg. Alfalfa second crop 88% cut, 76% 1984, 71% avg.; third crop cut 10%, 4% 1984, 2% avg.; 1% poor, 32% fair, 59% good, 8% excellent. Sorghum 3% poor, 37% fair, 58% good, 2% excellent. Pasture 11% poor, 46% fair, 37% good, 6% excellent.

INDIANA: Below normal temperatures, rainfall. Maximum temperatures upper 80s and low 90s, average 50 below normal. Precipitation totals none to 1.10 in.

Fieldwork averaged 6.1 days. Topsoil moisture 70% short, 29% adequate, 1% surplus. Subsoil moisture 55% short, 44% adequate, 1% surplus. Wheat 100% combined, 90% 1984, 90% avg. Corn 9% poor, 32% fair, 51% good, 8% excellent. Corn 70% silked, 30% 1984, 35% avg. Corn 5% in dough, none 1984, none avg. Corn 70 in. tall, 55 in. 1984, 64 in. avg. Soybeans 60% in bloom, 50% 1984, 45% avg. Soybeans 10% podding, 7% 1984, 7% avg. Alfalfa 85% cut twice, 60% 1984, 60% avg. Rye 90% combined, 55% 1984, 70% avg.

IOWA: Near seasonal temperatures from 460 16th to 950 17th. Moderate to heavy rains primarily 18th, 19th. Average daily evaporation 0.25 to 0.35 in.

Days suitable for fieldwork 6.3. Topsoil moisture 83% short, 17% adequate. Subsoil moisture 80% short, 20% adequate. Corn tassled 77%, 39% 1984, 56% avg. Corn silked 57%, 39% 1984, 39% avg. Corn dough stage none, none 1984, none avg. Corn 2% very poor, 5% poor, 35% fair, 50% good, 8% excellent. Soybeans blooming 67%, 47% 1984, 53% avg. Soybeans setting pods 22%, 11% 1984, 16% avg. Soybeans 1% very poor, 2% poor, 34% fair, 57% good, 6% excellent. Oats harvested 75%, 14% 1984, 36% avg. Winter wheat harvested 90%, 77% 1984, 71% avg. Second crop alfalfa hay harvested 85%, 41% 1984, 58% avg. Second crop clover hay harvested 55%, 11% 1984, 25% avg. Hay 3% very poor, 22% poor, 52% fair, 22% good, 1% excellent. Pastures 21% very poor, 46% poor, 27% fair, 5% good, 1% excellent. Livestock good condition.

KANSAS: Precipitation averaged little or none central divisions, 0.04 to 0.06 in. east central and northeast, 0.75 to 1.50 in. west. Temperatures averaged 780 northwest, 840 south central, normal southwest and east central, 1 to 30 above normal elsewhere.

Days suitable for fieldwork 6.5. Topsoil moisture 93% short, 7% adequate. Wheat 100% harvested, 99% 1984, 95% avg. Sorghum 4% headed, 5% 1984, 4% avg. Sorghum 15% fair, 38% good, 47% excellent. Corn 60% silking, 40% 1984, 30% avg. Corn 15% dough, 2% 1984, 5% avg. Corn 1% fair, 23% good, 76% excellent. Soybeans 25% blooming, 30% 1984, 20% avg. Soybeans 5% podding, 4% 1984, 4% avg. Soybeans 8% fair, 27% good, 65% excellent. Second cutting alfalfa near completion. Third cutting underway, progress slow.

KENTUCKY: Temperatures averaged near normal; cool first half, hot, humid second half. High 90s most sections. Most locations below normal rainfall with west only spotty light showers averaging less than 0.25 in., about 0.75 in. below normal. Central, east areas better measuring 0.50 to 0.75 in. Rain early week, again over weekend.

Days suitable 5.8. Soil moisture 76% short, 23% adequate, 1% surplus. Most crop beginning to show dry weather stress, but remain mostly good. Tobacco 38% blooming, 1% 1984, 5% avg. Some blooming prematurely. Corn 20% fair, 58% good, 22% excellent; 74% silking, 46% 1984, 55% avg.; 12% dough, 1% 1984, 1% avg. Soybean progress continued well ahead normal; 38% blooming, 16% 1984, 22% avg.; 10% setting pods, 1% 1984, 1% avg. Soybeans 2% poor, 26% fair, 67% good, 5% excellent. Sorghum, hay, pastures mostly good. Hay, pastures need rain, regrowth slow.

LOUISIANA: Temperatures averaged 20 below to 20 above normal. Temperature extremes 680; 1000. Rain totals averaged 0.40 to 4.30 in.

Days suitable for fieldwork 4.3. Soil moisture 40% short, 52% adequate, 8% surplus. Cotton 35% fair, 53% good, 12% excellent. Cotton 98% squaring, 93% 1984, 91% avg.; 81% setting bolls, 56% 1984, 56% avg. Rice 25% fair, 72% good, 3% excellent; 59% headed, 57% 1984, 56% avg. Rice 9% ripe, 8% 1984, 8% avg.; 4% harvested, 3% 1984, 4% avg. Soybeans 4% poor, 62% fair, 33% good, 1% excellent; 39% blooming, 30% 1984, 32% avg. Soybeans 11% setting pods, 12% 1984, 12% avg. Sorghum 41% fair, 59% good. Sorghum 86% headed, 80% 1984, 67% avg.; 36% turning color, 32% 1984, 24% avg. Corn fair; 99% silked, 98% 1984, 98% avg. Corn 95% dough stage, 88% 1984, 83% avg.; 44% mature, 32% 1984, 37% avg.; 1% harvested, 2% 1984, 7% avg. Sweetpotatoes fair to good; 2% harvested, 1% 1984, 2% avg. Peaches good; 71% harvested, 75% 1984, 82% avg. Livestock fair to good; pastures, vegetables, sugarcane fair.

MARYLAND & DELAWARE: Maryland: Temperatures mostly 10 above normal. Precipitation averaged 0.96 in. ranging from trace to 5.15 in. High temperatures low to mid 90's; lows mid 50's to mid 60's.

Fieldwork 6.0 days. Topsoil moisture short except north central, extreme west adequate. Subsoil moisture short in most areas. Small grain harvest winding up. Wheat harvested 100%, 90% 1984, 90% avg. Oats harvested 95%, 65% 1984, 65% avg. Rye harvested 100%, 95% 1984, 90% avg. Corn fair to good. Corn silked 50%, 50% 1984, 55% avg. Corn dough 25%, 10% 1984, 10% avg. Soybeans mostly fair. Soybeans bloomed 25%, 20% 1984, 15% avg. Soybeans podded 5%, none 1984, none avg. Tobacco poor south, fair north. Tobacco bloomed 45%. Tobacco topped 15%. Vegetable harvest ahead of 1984 and normal. Second-cutting alfalfa hay 100%, 75% 1984, 75% avg. Third-cutting alfalfa hay 30%, 10% 1984, 10% avg. Other hay second cutting 90%, 45% 1984, 60% avg. Third-cutting other hay 30%, none 1984, 5% avg.

Delaware: Temperatures 10 above normal north, 20 above normal south. Temperature range near 600 to mid 90s. Precipitation averaged 0.41 in., range none to 1.08 in.

Days suitable for fieldwork 7.0. Topsoil, subsoil moisture short. Corn silked 70%, 50% 1984, 70% avg. Corn dough stage 15%, 1% 1984, 15% avg. Soybeans bloomed 35%, 20% 1984, 15% avg. Soybeans podded 5%, none 1984, none avg.

MICHIGAN: Temperatures averaged 10 above normal. Precipitation light to moderate.

Days suitable for fieldwork 6.0. Soil moisture 78% short, 22% adequate. Corn 25% silked, 15% 1984, 20% avg.; none dough, none 1984, none avg. Corn 5% poor, 25% fair, 50% good, 20% excellent. Soybeans 30% blooming, 35% 1984, 33% avg.; 2% setting pods, 1% 1984, 2% avg. Soybeans 5% poor, 25% fair, 50% good, 20% excellent. Winter wheat harvest active, nearing completion extreme southern counties. Winter wheat 65% harvested, 30% 1984, 26% avg. Winter wheat 3% poor, 12% fair, 55% good, 30% excellent. Dry beans 15%

blooming, 15% 1984, 29% avg. Dry beans 10% poor, 25% fair, 55% good, 10% excellent. Fruit crops developing normally. Rain needed to enhance fruit sizing. Tart cherries 55% harvested, 30% 1984, 37% avg. Sweet cherries 75% harvested, 40% 1984, 52% avg. Celery, tomato, cucumber, snap bean, sweet corn harvest continued.

MINNESOTA: Heavy rainfall northern portion; continued dry southern portion. Temperatures averaged near normal to 20 below normal. Temperature extremes 430; 950. Precipitation averaged 0.79 in. below normal to 0.84 in. above normal. Greatest weekly total 3.78 in.

Days suitable for fieldwork 5.4. Topsoil moisture 50% short, 46% adequate, 4% surplus. Corn 51% tasseling, 23% 1984, 35% avg.; 1% milk, none 1984, 1% avg.; 1% very poor, 9% poor, 48% fair, 35% good, 7% excellent. Soybeans 55% blooming, 46% 1984, 49% avg.; 4% setting pods, 1% 1984, 3% avg.; 1% very poor, 6% poor, 48% fair, 41% good, 4% excellent. Spring wheat 47% turning ripe, 45% 1984, 49% avg.; none combined, none 1984, none avg.; 2% poor, 30% fair, 56% good, 12% excellent. Oats 76% turning ripe, 68% 1984, 63% avg.; 6% combined, 1% 1984, 1% avg. Barley 73% turning ripe, 79% 1984, 68% avg.; 7% combined, 2% 1984, 1% avg. Sunflowers 4% blooming, 3% 1984, 13% avg.

MISSISSIPPI: Scattered thundershowers and near normal temperatures came to State during week. Extremes: 570; 1000. Greatest 24-hour rainfall 3.25 in.

Fieldwork 5.0 days suitable, 5.1 1984, 5.1 avg. Soil moisture 46% short, 49% adequate, 5% surplus. Corn 94% silking, 91% 1984, 73% avg.; 85% dough, 63% 1984, 67% avg.; 23% mature, 8% avg.; 3% poor, 44% fair, 50% good, 3% excellent. Cotton 100% squaring, 98% 1984, 97% avg.; 61% setting bolls, 44% 1984, 48% avg.; 4% poor, 18% fair, 67% good, 11% excellent. Rice 48% heading, 17% 1984, 15% avg.; 11% fair, 78% good, 11% excellent. Soybeans 100% emerged, 93% 1984; 46% blooming, 32% 1984, 32% avg.; 7% podding, 4% 1984, 8% avg.; 3% poor, 55% fair, 39% good, 3% excellent. Grain sorghum 68% heading, 41% 1984; 3% poor, 34% fair, 60% good, 3% excellent. Corn silage 17% harvested, 11% 1984. Hay 63% harvested, 50% 1984, 62% avg. Watermelons 68% harvested, 49% 1984. Peaches 77% harvested, 67% 1984, 61% avg.; 13% very poor, 7% poor, 53% fair, 27% good. Pasture 3% very poor, 6% poor, 60% fair, 31% good.

MISSOURI: Temperatures averaged near normal. Precipitation scattered, up to 3.77 in. west central. Non though south central and southeast.

Days suitable for fieldwork 6.2. Topsoil moisture 84% short, 16% adequate. Some areas received no significant rain in 3 weeks. Corn 3% poor, 46% fair, 42% good, 7% excellent. Silking 74%, 36% 1984, 46% avg. Dough 33%, 7% 1984, 12% avg. Soybeans 3% poor, 53% fair, 42% good, 2% excellent. Blooming 49%, 31% 1984, 31% avg. Setting pods 22%, 4% 1984, 6% avg. Some double crop soybeans not planted due to dry weather. Sorghum 5% poor, 55% fair, 40% good. Heading 28%, 30% 1984, 27% avg. Cotton 46% fair, 54% good. Squaring 100%, 99% 1984, 69% avg. Setting bolls 88%, 42% 1984, 51% avg. Second crop alfalfa 93% cut, third crop 16% cut. Other hay 59% cut. Pasture 17% poor, 66% fair, 17% good.

MONTANA: Temperatures slightly cooler over most of State; ranged from 1 to 20 above normal west, southwest 1 to 30 below normal elsewhere. Most of State maximum temperatures in 90s for week. Significant precipitation confined to southwest, south central, extreme eastern areas in northeast. Amounts these areas mostly 0.25 to 1.00 in. Rest of State continued very dry.

Fieldwork days suitable 6.6. Topsoil moisture 97% short, 3% adequate. Subsoil moisture 98% short, 2% adequate. Crop condition and progress: Winter wheat 16% very poor, 60% poor, 24% fair. Winter wheat headed 10%, 10% 1984, 20% avg.; turning color 85%, 90% 1984, 80% avg.; harvested 5%, none 1984, none avg. Spring wheat 43% very poor, 53% poor, 3% fair, 1% good. Spring wheat headed 29%, 55% 1984, 65% avg.; turning color 70%, 45% 1984, 25% avg.; harvested 1%, none 1984, none avg. Barley 42% very poor, 47% poor, 8% fair, 3% good. Barley headed 33%, 50% 1984, 60% avg.; turning color 65%, 45% 1984, 30% avg.; harvested 2%, none 1984, none avg. Oats 41% very poor, 41% poor, 15% fair, 3% good. Oats boot 2%, 5% 1984, 10% avg.; headed 35%, 60% 1984, 60% avg.; turning color 60%, 35% 1984, 30% avg.; harvested 3%, none 1984, none avg. Sugarbeets 55% fair, 35% good, 10% excellent. Second cutting alfalfa hay 25%, none 1984, none avg. Wild hay harvested 70%, 65% 1984, 55% avg. Range feed supplies 100% short. Stockwater supplies 86% short, 14% adequate.

NEBRASKA: Temperatures averaged 10 below normal across State. Rains helped break drought. Precipitation averaged from 0.30 to over 5.00 in. east central.

Days suitable for fieldwork 6.1. Topsoil moisture 66% short, 26% adequate, 8% surplus. Subsoil moisture 66% short, 34% adequate. Wheat harvested 95%, 75% 1984, 75% avg. Oats harvested 80%, 20% 1984. Corn 20% fair, 66% good, 14% excellent. Corn silking 45%, 10% 1984, 25% avg.; dough 1%, none 1984, none avg. Soybean 16% fair, 77% good, 7% excellent. Soybean blooming 75%, 40% 1984, 50% avg.; podding 10%, 4% 1984, 4% avg. Sorghum 24% fair, 73% good, 3% excellent. Sorghum headed 4%, 2% 1984, 8% avg. Alfalfa mostly fair to good. Alfalfa second-cutting 85%, 45% 1984, 65% avg.

NEVADA: Week started with continued above normal temperatures. Daytime maximum temperatures varied from 100° north to 110° extreme south. Temperature cooled under cloudy skies later in period as a continuing southerly flow of subtropical moisture moved over State. Thunderstorm activity brought light amounts of rain all areas early in week. Severe thunderstorms midweek extreme south produced winds up to 75 mph and flash flooding. Range fires again a problem northern area early in period.

Alfalfa hay harvest slowed by afternoon showers. Potatoes and row crops showing excellent growth.

NEW ENGLAND: Average precipitation ranged between 1.00 and 1.50 in. along Canadian border and over southern interior sections, between 0.25 and 0.75 in. elsewhere. Average temperatures ranged from the mid 60s north to mid 70s south.

Days suitable for fieldwork 6.0. Fieldwork progress on schedule. Soil moisture 15% short, 85% adequate. Grazing availability 20% short, 80% adequate. Hot, humid weather accelerated crop growth. Field corn 70% good, 30% excellent. First cut hay 85% cut, 90% 1984, 90% avg. Second cut hay 20% cut, 20% 1984, 30% avg. Quality, fair to good first crop; good second crop. Shade tobacco harvest in full swing. Broadleaf tobacco harvest underway. Maine potato good to excellent. Sweet corn 75% good, 25% excellent. Small fruit and vegetable harvest active.

NEW JERSEY: Temperatures averaged near normal. Extremes: 530; 930. Weekly rainfall averaged 1.12 in. north; 1.81 in. central, 0.91 in. south. Heaviest 24-hour total 1.45 in. on 21st, 22nd. Estimated soil moisture, in percent of field capacity, averaged 76% north, 60% central, 65% south. Four inch soil temperatures averaged 730 north, 750 central, 760 south.

North and central State received good rains at week's end. South State did not get as much but rains beneficial. Crops in good condition throughout State. Most ahead of normal. Peach, apple quality good from early harvest. Prices for vegetables low.

NEW MEXICO: Average temperatures near normal. Temperatures 420 central valley, highlands to 1000 southeastern Plains. Scattered thundershowers throughout week. Precipitation none to 1.92 in. northwestern Plateau, western mountains.

Days suitable for fieldwork 6.9. Soil moisture 73% short, 27% adequate. Hail damage 100% none. Alfalfa 7% fair, 86% good, 7% excellent. Cotton 44% fair, 56% good; 90% squaring, 89% 1984, 90% avg.; 80% setting bolls, 72% 1984, 74% avg. Corn 10% fair, 70% good, 20% excellent. Barley 14% fair, 43% good, 43% excellent. Irrigated wheat 17% poor, 33% good, 50% excellent. Dry wheat 25% fair, 25% good, 50% excellent. Irrigated sorghum 11% fair, 67% good, 22% excellent. Dry sorghum 20% poor, 40% fair, 40% good. Pecans 11% fair, 89% good. Apples 50% fair, 50% good. Chile 86% good, 14% excellent. Cattle 46% fair, 47% good, 7% excellent. Sheep 42% fair, 50% good, 8% excellent. Range 20% poor, 53% fair, 27% good.

NEW YORK: Temperatures averaged near or slightly above average. Coolest temperatures midweek. Precipitation varied sharply, western third, south central sections rainfall below normal. Upper Hudson Valley averaged below normal. Much of rest of State averaged near or above normal precipitation. Few locations extreme northeast and central well above normal. Most of precipitation beginning of week.

Days suitable for fieldwork 5.0. Soil moisture mostly adequate. Corn started to tassel. Oats turning. Wheat excellent, harvest began. Best week for haying. First cut alfalfa hay harvest 90% complete, 93% 1984, 92% avg. Second cutting alfalfa active. Clover-Timothy hay harvest 77% complete, 83% 1984, 83% avg. Grass silage harvest 95% complete, 95% 1984, 94% avg. Sweet cherry harvest virtually complete, Tart cherry harvest underway. Peaches harvested Hudson Valley. Apples sizing rapidly. Lettuce, snap beans, sweet corn harvested. Pastures fair to good.

NORTH CAROLINA: Temperatures near to slightly above normal along coast. Rainfall ranged from none to 2.41 in. across State.

Days suitable for fieldwork 5.9. Soil moisture 6% very short, 53% short, 41% adequate. Tobacco 30% fair, 61% good, 9% excellent; harvested 6%, 9% 1984, 13% avg. Corn 10% poor, 39% fair, 46% good, 5% excellent; silked 98%, 86% 1984, 87% avg.; soft dough 72%, 46% 1984, 58% avg. Cotton 31% fair, 56% good, 13% excellent; squared 97%, 61% 1984, 78% avg.; bloomed 63%, 40% 1984, 47% avg. Peanuts 33% fair, 56% good, 11% excellent. Soybeans 3% poor, 44% fair, 52% good, 1% excellent. Hay 12% poor, 46% fair, 42% good. Irish potatoes 14% poor, 41% fair, 45% good. Sweetpotatoes 41% fair, 55% good, 4% excellent. Apples 30% poor, 35% fair, 35% good. Pasture 19% poor, 48% fair, 32% good, 1% excellent. Major farm activities; topping, suckering, getting ready for tobacco harvest, cultivating row crops, spraying soybeans, spraying and harvesting vegetables, irrigating crops, scouting for weed and insect control, harvesting hay, spraying apples, harvesting potatoes.

NORTH DAKOTA: Rainfall brought some drought relief to many areas. Amounts varied greatly within State and even within districts. McClusky reported highest weekly total of 3.09 in., while Jamestown, in central division, only 0.07 in. Bismarck lowest weekly total 0.03 in. Temperature

averages ranged from 30° below normal northeast to near normal elsewhere. Temperature extremes ranged from 40° to 100°.

Fieldwork 6.3 days suitable. Topsoil moisture supplies continued well below normal, subsoil also below normal. Topsoil 84% short or very short, 16% adequate. Subsoil 53% short or very short, 47% adequate. Harvest of barley, winter wheat, rye gathering momentum southern counties. Hard red spring wheat 5% poor, 25% fair, 59% good, 11% excellent; 30% turning ripe or beyond, 13% 1984, 19% avg. Durum 10% poor, 14% fair, 55% good, 21% excellent. Barley 6% poor, 12% fair, 62% good, 20% excellent. Oat 6% poor, 35% fair, 53% good, 6% excellent. Row crops mostly good condition, development about normal. Sunflower 29 in. avg. height, 30 in. 1984, 31 in. avg. Sunflower 4% poor, 24% fair, 70% good, 2% excellent. Corn 10% poor, 37% fair, 53% good. Moisture situation a concern for late season crops and hay.

OHIO: Temperatures averaged near normal to 20° cooler. Extremes from upper 40's to lower 90's. Precipitation variable. Little or no rain west central; northern half 0.10 to 0.33 in.; south 0.50 in.; 1.00 in. southeast.

Days suitable 6.0. Topsoil moisture 25% short, 70% adequate, 5% surplus. Corn 4% fair, 66% good, 30% excellent; silking 55%, 25% 1984, 35% avg.; dough 5%, 2% 1984, 2% avg. Moisture stress, rootworms. Soybeans 14% fair, 74% good, 12% excellent; blooming 45%, 40% 1984, 40% avg.; setting pods 10%, 5% 1984, 10% avg. Weed control minimally effective. Winter wheat 90% harvested, 80% 1984, 80% avg. Oats good; 25% harvested, 10% 1984, 15% avg. Small grains lodged early in week by heavy rains and severe winds. All hay good. Alfalfa 2nd cut 70%, 55% 1984, 55% avg. Other hay 2nd cut 50%, 35% 1984, 30% avg. Picking pickles, sweet corn, tomatoes. Summer apples 45% harvested. Pasture good.

OKLAHOMA: Temperatures ranged 1 to 30° above normal all areas of State except southeast temperatures averaged normal. Precipitation ranged 0.04 in. central to 0.84 in. southeast.

Days suitable for fieldwork 6.5. Topsoil moisture 65% short, 35% adequate. Subsoil moisture 25% short, 75% adequate. Wheat 100% harvested, 100% 1984, 99% avg. Wheat stubble plowing continued active. Sorghum 40% fair, 60% good. Sorghum 15% heading, 10% 1984, 15% avg. Cotton 25% fair, 75% good. Cotton 55% squaring, 25% 1984, 35% avg.; 10% setting bolls, 5% 1984, 5% avg. Row crops sustain vitality despite continued dry, hot weather. Irrigated fields receiving relief. Stymied pasture growth and increasing grasshopper numbers limiting grazing. Some Panhandle cattlemen supplemental feeding.

OREGON: Temperatures well above normal all areas except along coast. Maximum temperatures over 100° in all interior areas. Low clouds, drizzle along coast. Only trace amounts of precipitation.

Soil moisture 95% short, 5% adequate. Winter wheat condition 19% poor, 53% fair, 28% good; 21% harvested, 7% 1984, 10% avg.; some shriveled kernels but mostly better than expected. Barley 35% harvested. Willamette Valley grain harvest began. Grass seed harvest well along. Approaching second and third cuttings of alfalfa. Cherries: Sweet cherry harvest mostly completed; canners and freezers picked at Hood River; Willamette Valley Tart cherry harvest began. Pears: Thinning at Hood River; third cover spray; Jackson County Bartlett harvest expected August 1st. Apricots; excellent yield in Grant County; ripe at The Dalles. Raspberries, boysenberries, marionberries past peak. Norgold potato harvest underway Herminston. Later potatoes growing rapidly. Onions in Malheur County building size

well. Harvesting of green beans, broccoli underway in Willamette Valley. Other vegetables maturing fast. All vegetable crops requiring heavy irrigation. Livestock fair to good. Pastures, ranges poor to fair. Grass on lower ranges very dry. Fire danger continued very high.

PENNSYLVANIA: Average rainfall 0.64 in., 0.22 in. below normal. Average temperatures 72°, 10° above normal.

Days suitable for fieldwork 5.0. Soil moisture 37% short, 56% adequate, 7% surplus. Corn 2% very poor, 3% poor, 12% fair, 43% good, 40% excellent. Average corn height 51 in., 38 in. 1984. Soybeans 3% poor, 19% fair, 59% good, 19% excellent. Wheat 5% headed, 6% 1984; 12% turning yellow, 32% 1984; 40% ripe, 44% 1984; 43% harvested, 22% 1984. Wheat 4% poor, 20% fair, 47% good, 29% excellent. Oats 31% headed, 50% 1984; 43% turning yellow, 32% 1984; 20% ripe, 11% 1984; 6% harvested, none 1984. Oats 1% poor, 17% fair, 46% good, 36% excellent. Barley 2% turning yellow, 10% 1984; 19% ripe, 22% 1984; 79% harvested, 66% 1984. First cutting alfalfa virtually complete, 93% 1984. Second cutting alfalfa 51% complete, 33% 1984. First cutting clo-tim 94% complete, 84% 1984. Quality of hay 8% poor, 43% fair, 49% good. Feed from pasture 31% below avg.; 67% avg., 2% above avg. Activities for week: Harvesting hay, haylage, wheat, barley, oats, sweet corn, tomatoes, garden vegetables, potatoes, early apples and peaches; baling straw; spraying alfalfa.

PUERTO RICO: No Data Available.

SOUTH CAROLINA: Hot, humid weather continued, near normal temperatures. Widely scattered thundershowers early week. Precipitation amounts localized.

Days available for fieldwork activities 5.4. Soil moisture 10% very short, 68% short, 20% adequate. Soybeans 1% poor, 45% fair, 54% good. Soybeans blooming 20%, 7% 1984, 12% avg.; setting pods 3%, none 1984. Cotton 14% fair, 86% good. Cotton squared 100%; 85% setting bolls, 80% 1984, 80% avg. Tobacco good; 17% harvested, 30% 1984, 27% avg. Peaches fair; 81% harvested, 62% 1984, 64% avg. Apples fair; 9% harvested, none 1984. Pastures and hay fair to good.

SOUTH DAKOTA: Average temperatures 1 to 20° below normal. Extremes: 39; 101°. Precipitation critically short and spotty western one-third widespread central, east.

Days suitable for fieldwork 5.0. Topsoil moisture critically short western one-half, short to adequate east. Small areas short west; 29% critically short, 45% short, 26% adequate. Corn 1% very poor, 1% poor, 17% fair, 68% good, 13% excellent. Corn 11% silked, 3% 1984, 11% avg. Corn none dough, none 1984, none avg. Winter wheat 3% very poor, 12% poor, 49% fair, 31% good, 5% excellent. Winter wheat 58% harvested, 24% 1984, 41% avg. Spring wheat 4% very poor, 8% poor, 30% fair, 51% good, 7% excellent. Spring wheat 100% headed, 100% 1984, 100% avg. Sorghum 3% very poor, 5% poor, 18% fair, 70% good, 4% excellent. Sorghum 4% headed, none 1984, 3% avg. Soybean 2% poor, 9% fair, 70% good, 19% excellent. Soybean 45% blooming, 22% 1984, 52% avg. Soybean 6% podded, 2% 1984, 2% avg. Range, pastures good condition east central and southeast, fair to poor elsewhere except very poor southwest. Feed, stockwater supplies short western one-third, adequate elsewhere.

TENNESSEE: Limited or no rainfall. Temperatures above normal.

Farmers averaged 5.5 days suitable for fieldwork. Soil moisture 62% short, 37% adequate, 1% surplus. Corn 85% tasseled, 65% 1984, 65%

avg.; 35% dough, 13% 1984, 15% avg.; 5% dent, 5% 1984, 1% avg.; 20% fair, 55% good, 25% excellent. Cotton 95% squaring, 93% 1984, 90% avg.; 35% setting bolls, 25% 1984, 25% avg.; 10% fair, 60% good, 30% excellent. Sorghum 35% headed; 35% fair, 55% good, 10% excellent. Soybeans 25% blooming, 25% 1984, 20% avg.; 6% setting pods, 19% 1984, 4% avg.; 3% poor, 50% good, 7% excellent. Tobacco 15% topped; 6% poor, 45% fair, 47% good, 2% excellent. Pasture 1% very poor, 15% poor, 50% fair, 29% good, 5% excellent.

TEXAS: High pressure upper levels cap rain chances central, western half State early week. Weak cool front drifted northeast on 16th, scattered thunderstorms bringing relief to dryness. Upper level disturbance developed southeast, upper Gulf Coast produce scattered heavy thunderstorms 16th to 18th. Dry conditions returned Gulf Coast weekend, storms shifted north to Blacklands, west High Plains, Edwards Plateau 21st. Temperatures slightly below normal despite strong heat during early week. Lighter than usual rain accumulations, except eastern one-third.

Crops: Grain sorghum 66% headed, 64% 1984, 69% avg.; 46% turning color, 55% 1984, 58% avg.; 25% mature, 41% 1984, 40% avg.; 13% harvested for grain, 34% 1984, 28% avg. Condition 86% of normal, 71% 1984. Sorghum 21% fair, 67% good, 12% excellent. Harvesting moved rapidly Coastal Bend, above average yields. Harvest slowed Rio Grande Valley from recent rains. Some early fields harvested Upper Coast, Central, Blacklands. Excellent growth Lower Plains. Irrigation increased High Plains. Dryland fields stressing from hot, dry conditions. Most fields boot stage High Plains. Corn 83% silked; 62% doughing; 53% dented; 7% mature; 2% harvested, none 1984, none avg. Condition 87% of normal, 70% 1984. Corn 23% fair, 57% good, 20% excellent. Fields good statewide. Above average yields many areas. Good progress High Plains. Fields Coastal Bend, Rio Grande Valley drying rapidly. Some areas Valley could be harvested as fields dry. Cotton 47% squaring, 75% 1984, 76% avg.; 15% setting bolls, 28% 1984, 29% avg.; 2% open bolls, 4% 1984, 4% avg. Condition rated 76% of normal, 73% 1984. Cotton 1% failure, 1% poor, 48% fair, 39% good, 11% excellent. Fields Plains continued good, many fields started blooming. Moisture adequate; if hot, dry conditions continued good rain needed soon. Many producers cultivating fields. Irrigation heavy some east fields. Some defoliating may begin Coastal Bend. Cotton continued open Valley, some boll rot showing after recent rains. Rice 39% headed, 89% 1984, 93% avg.; 7% turning color, 52% 1984, 58% avg. Condition 91% of normal. Rice 14% fair, 62% good, 24% excellent. Harvest additional progress under open weather. Fertilization continued later fields. Peanuts good progress, showing good stands, despite lack of adequate moisture some areas. Soybean fields High Plains showing good growth. Most fields started blooming. Fields upper coast making good growth. Other Crops: Oats 99% harvested, 97% 1984, 98% avg. Soybeans 100% planted, 100% 1984, 98% avg.

Commercial Vegetables: Rio Grande Valley, harvest summer vegetables almost complete, scattered fields remaining. Land preparation slowed by wet ground. San Antonio-Winter Garden, summer vegetable harvest winding down. Land preparation fall planting pick up soon. East vegetables still in field continued to suffer from hot temperatures, dry conditions. Most harvest activity watermelons. High Plains, onion harvest moved steady pace. Potato harvest slowed slightly. Disease invaded some tomato fields. Trans-Pecos, cantaloup harvest continued under open weather. Cabbage harvest slowed. Late variety peaches harvested northern regions, good

supplies, sizes. Harvest late varieties about over many sections central, east. Pecans good development statewide, minor reports mildew, aphid damage.

Range and Livestock: Good rain be desirable. Haying operations continued; have slowed down. Conditions good portions central, Rio Grande Valley. Livestock good condition. Hornflies bothering cattle some areas. Lamb crop good condition. Summer shearing pick up soon.

UTAH: Forty-two out of 47 reporting stations reported measurable precipitation. Amounts ranged from light to heavy with some stations in southern part of State reporting amounts over 1.00 in. Temperatures 2 to 30 above normal.

Recent rains welcome but slowed days in field 5.8. Much of State still short of moisture despite recent rains. Winter wheat harvest began with 39% ripe or harvested. Barley 81% turning; 22% ripe. Spring wheat 62% turning; 6% ripe. Oats 59% turning; 6% ripe. Corn tasseling-average height 49 in. Second-cutting hay underway; aphids, weevil, grasshoppers causing substantial problems crop late, short. Tart cherry harvest winding down, apricots in full swing. Livestock good but ranges dry.

VIRGINIA: Warm, humid. Scattered thunderstorms. Temperatures averaged 30 above normal. Precipitation 0.50 to 0.75 in. average. Precipitation spotty, some areas received none, other areas over 1.00 in.

Days suitable for fieldwork averaged 5.3. Topsoil moisture 51% short, 49% adequate. Thunderstorms maintaining crops in good condition in many areas, dry in other areas. Corn mostly good. Corn 66% silk or beyond, 55% 1984, 68% avg. Corn 29% in dough stage or beyond, 18% 1984, 22% avg. Soybean remained mostly good. Soybeans 10% in bloom, 5% 1984. Peanuts mostly excellent; applying fungicides, insecticides, growth regulators. Tobacco good to excellent, sucker control and topping active on Flue and Sun-cured tobacco. Hail damaged some tobacco acreage. Flue-cured tobacco harvest 2% complete, 2% 1984, 5% avg. Wheat harvest virtually complete. Oats 84% harvested, 83% 1984, 79% avg. Potato harvest 90% complete, 56% 1984, 65% avg. Apples fair; early apple harvest underway. Cutting cabbage. Pasture and hayland dry, fair to good condition. Clipping pastures, cutting hay. Livestock good to excellent. Marketing feeder cattle.

WASHINGTON: High pressure, dry air continued to dominated State's weather, only traces of precipitation on Olympic Peninsula.

Days suitable for fieldwork 7.0. Soil moisture 33% poor, 67% short. Hot conditions continued to stress dryland crops. Range pasture feed 67% short, 33% adequate. Winter wheat harvested 6%, 2% 1984, 7% avg. Spring wheat, barley harvest underway. Harvest continued for apricots, peaches, blueberries.

WEST VIRGINIA: Temperatures averaged near normal. Low of 46° Greenbank; high of 95° Williamson. Weekly average 73°. Precipitation averaged below normal. Least rainfall in Flat Top 0.01 in.; most rainfall 1.53 in Huntington. Weekly average 0.50 in.

Days worked 4.6. Soil moisture adequate to short. Harvesting hay, small grains, clipping pastures. Feed supplies adequate.

WISCONSIN: Average temperatures near normal. Precipitation 0.10 to 1.00 in. north, none to 0.40 in. central, none to 0.20 in. south. Rainfall spotty.

Days suitable for fieldwork 6.4. Soil moisture 78% short, 22% adequate. General crop condition,

4% very poor, 12% poor, 47% fair, 35% good, 2% excellent. Most crops affected by moisture shortages. Corn 5% very poor, 11% poor, 39% fair, 35% good, 10% excellent; height 55 in., 59 in. 1984, 57 in. avg.; silked 16%, 9% 1984, 12% avg. First cutting of hay 100% complete, 100% 1984, 100% avg. Second cutting of hay 46% complete, 25% 1984, 28% avg.; yields very poor due to moisture shortages. Oats 96% headed, 94% 1984, 94% avg.; 8% harvested, 1% 1984, 2% avg.; yields average with short straw. Winter wheat harvest in full swing. Soybeans fair to good condition.

WYOMING: Temperatures above normal except below normal in Big Horn Basin and southeast. Wide variations in precipitation, 0.01 to 0.09 in. Southeast had greatest amounts. Laramie had 1.09 in. State average above normal.

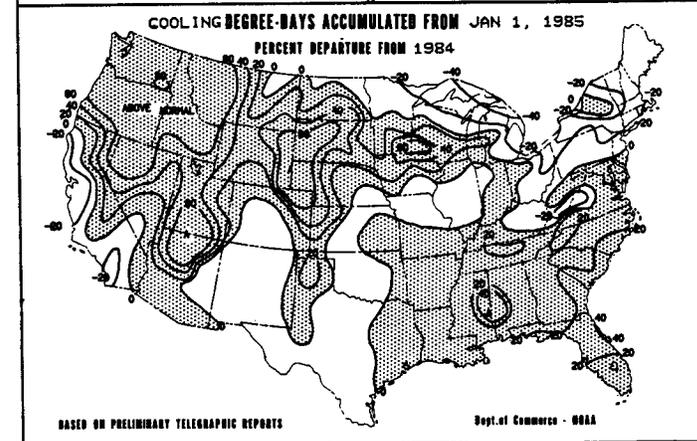
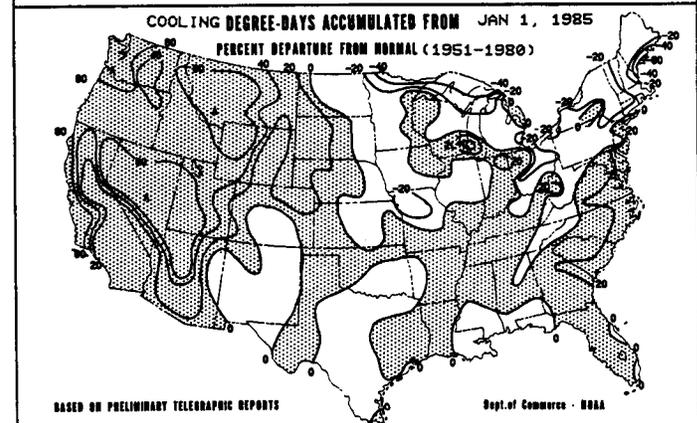
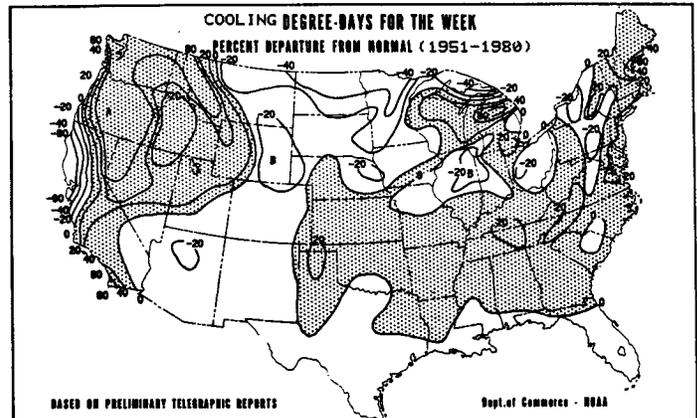
Days suitable for fieldwork 6.0. Topsoil moisture 74% short, 26% adequate; 1984 67% short, 33% adequate. Winter wheat 5% headed, 5% 1984; 40% turning color, 60% 1984; 35% mature, 35% 1984; 20% harvested, small amount 1984, 5% avg. Barley 30% headed, 45% 1984; 40% turning color, 40% 1984; 20% mature, 10% 1984. Spring wheat 45% headed, 45% 1984; 35% turning color, 40% 1984, 30% avg.; 10% mature, 5% 1984. Oats 45% headed, 70% 1984; 25% turning color, 25% 1984; 5% mature, small amount 1984. First cutting alfalfa 90% complete, 80% 1984, 80% avg. Second starting. Other hay 45% cut, 45% 1984, 30% avg. Dry beans 45% bloom. Potatoes 55% bloom. Corn 20% tasseled, 5% 1984, 5% avg. Pastures mostly poor condition. Stockwater 75% short.

JUNE STREAMFLOW: STREAMS CONTINUE DRY IN EAST, FLOWS DECREASE IN PARTS OF MIDWEST AND WEST
(continued from last Bulletin)

*SOUTHEAST AND GULF COAST STATES--Streamflows were generally well-below average throughout the Southeast and Gulf Coast areas. Record-low flows were set in parts of North Carolina, Georgia, and Louisiana. The average June flow of Contentnea Creek at Hookerton, NC, was 34 mgd, 85 percent below the long-term average and the lowest flow for the month in 57 years of record. Flows of both the Flint River near Culloden, GA, and the Altamaha River at Doctowtown, GA, were at record-low levels for June. Flow of Saline Bayou near Lucky, LA, averaged 7.5 mgd, 72 percent below the long-term average and the lowest June flow in 45 years of record. Persistent below-normal precipitation in Florida continued to stress the State's ground-water resources, which are the major source of municipal supply throughout Florida. State-imposed water-use restrictions remained in effect in the Ft. Myers area. All five of the key index gaging stations reporting during June had average flows well below the long-term monthly average.

*INDIANA--Streamflows across Indiana continued their normal seasonal decline during June. All three streamflow index stations were in the normal range for the month. Flow of the East Fork White River at Shoas, IN, for example, averaged 2.2 bgd, about 2 percent above the long-term average for June. Ground-water levels across Indiana were in the normal range for June.

*MINNESOTA--Streamflows varied considerably across Minnesota during June. In much of the west, central, and south-central parts of the State, flows remained well-above normal. In west-central Minnesota, for example, flows of both the Chippewa and Minnesota rivers were well-above average for the 22nd consecutive month. Flow of the Chippewa River at Milan averaged 571 mgd, 153 percent above the long-term average. Flow of the Minnesota River at Montevideo averaged 1,234 mgd, 172 percent above the long-term June average. Flows decreased into the normal range in north-central areas, and in the southeast flows were well-below normal. Storage at monthend in the Mississippi River Headwater System was 23 percent greater than last year, 16 percent above average and 45 percent of capacity. In the Minneapolis-St. Paul area, which is the primary ground-water pumping center of the State, water levels in the Prairie du Chien-Jordan aquifer continued to decline, but

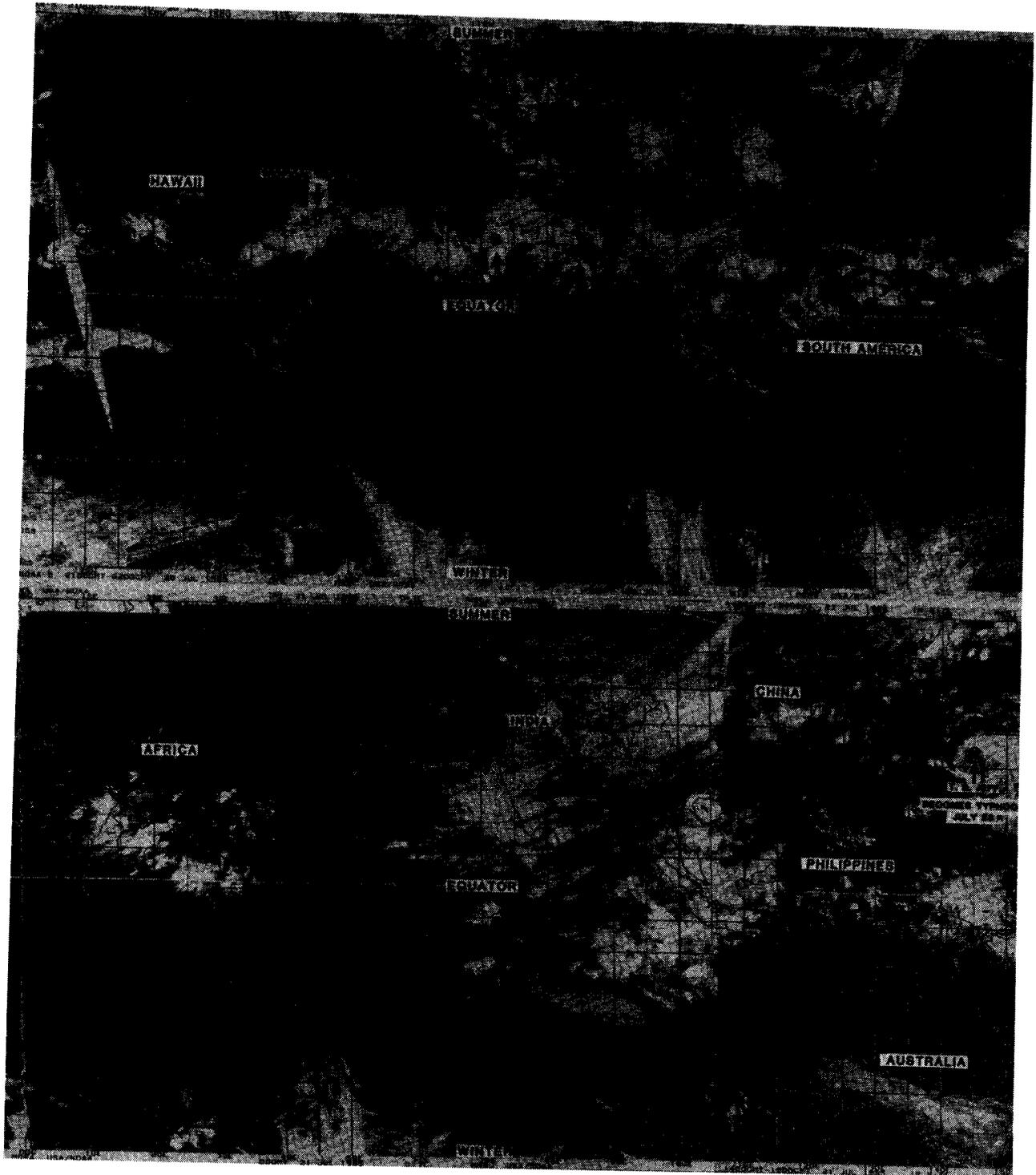


were still 7 feet above average in St. Paul, and 26 feet above average in Minneapolis.

*KANSAS--Contents of reservoirs in western Kansas, primarily used for irrigation, remained well below irrigation pool levels. Rivers in the extreme eastern part of the State reported rises in streamflow above bankfull stages, but no major flooding was reported. Flow of the Saline River near Russell, averaged 25 mgd, about 43 percent below the long-term June average. In the south, flow of the Arkansas River at Arkansas City averaged 2,242 mgd, 54 percent above the long-term monthly average.

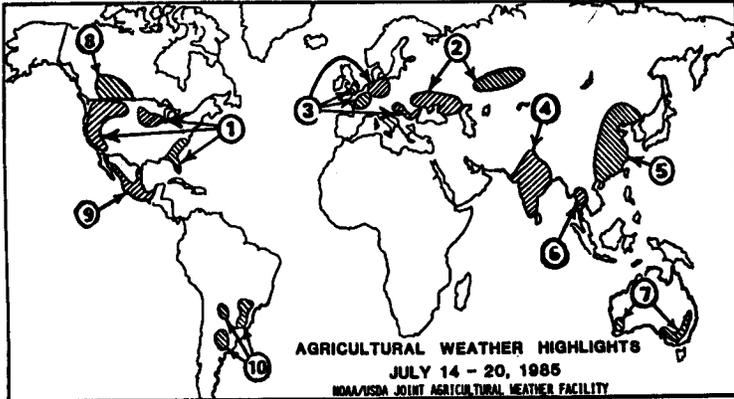
*UTAH--June streamflows in Utah were generally below normal, the result of the abnormally early snowmelt this year. The seven index stations in the State averaged 20 percent above the long-term average. Flows of the Colorado, San Juan, and Beaver rivers remained above normal during June. Flow of the Whiterocks River near Whiterocks, averaged 130 mgd, 47 percent below the long-term average. The elevation of the Great Salt Lake was 4,209.55 feet above mean sea level June 30 and well into its seasonal decline, although the elevation was still above last year's peak of 4,209.25 feet. (continued to back cover)

GLOBAL WEATHER SATELLITE PHOTO



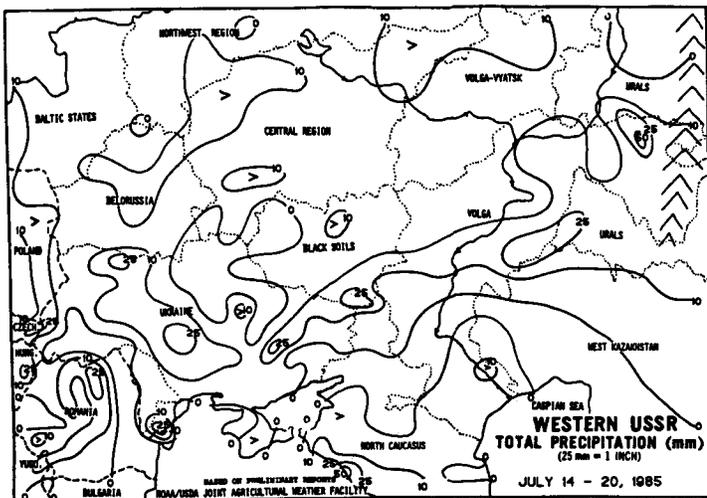
International Weather and Crop Summary

July 14 - 20



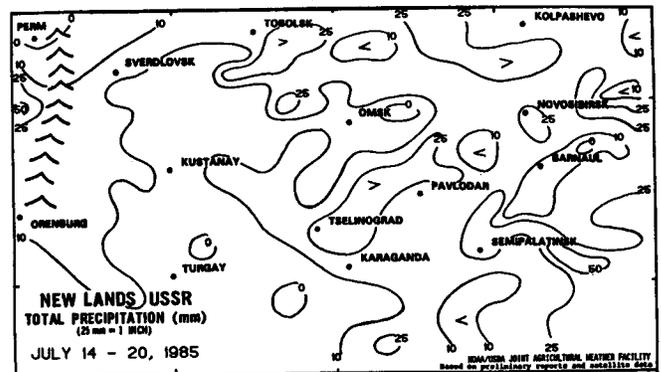
WESTERN USSR... Warm, sunny weather across the Ukraine, North Caucasus, and the lower Volga Valley favored spring grain maturation and aided winter grain harvesting. Maximum temperatures approached 30C in these areas, providing ideal growing conditions for corn and sunflowers. Early maturing varieties of corn are in the tasseling and silking stages. Dry weather covered the northern half of the region, and moisture supplies are plentiful for grain crops in the filling stage. Weekly temperatures were near-to slightly below normal in the north, 1C to 2C above normal in the southwest, and 1C to 2C below normal in the southeast.

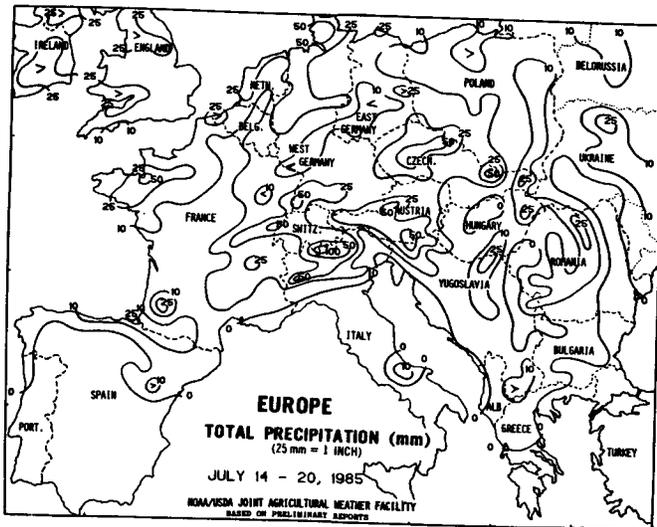
In the New Lands, the second consecutive week of beneficial showers covered spring grain areas. More than half of the spring grains received precipitation in excess of 10mm. Heaviest amounts of precipitation (10-25mm) fell across the northern fringe of the crop area and marginal spring grain producing areas of the south. Only spring grain areas just south of Kustanay have not received significant showers the past 2 weeks. The rain, which covered the southern Urals, benefited spring grains in the filling stage. In areas east of Kustanay, the showers were very timely for the crop in the reproductive stage. Weekly temperatures across the region were 3C to 5C below normal, slowing crop growth.



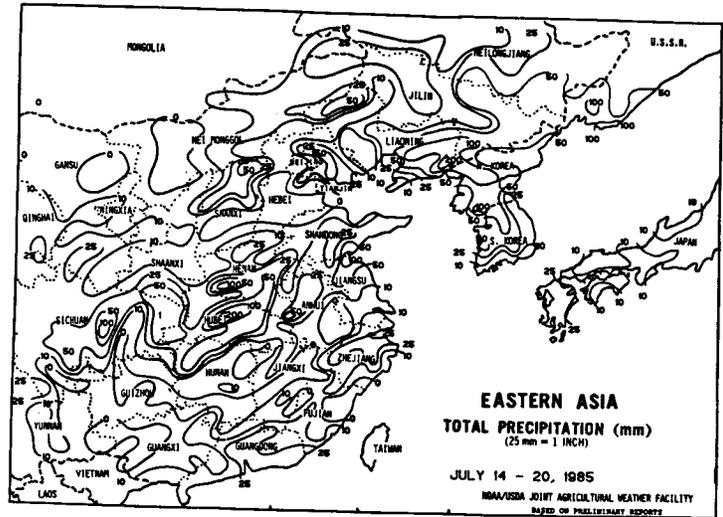
HIGHLIGHTS:

1. **UNITED STATES** ... Rain helps crops in the western Corn Belt and the lower Southeast. Drought continues across the northwestern Great Plains and Western States. Inadequate moisture stresses crops in some areas.
2. **USSR** ... Continued warm, sunny weather favors southern winter wheat maturation and aids harvesting. In the New Lands, timely rain in central and eastern crop areas benefits spring grains in the reproductive stage.
3. **EUROPE** ... Light showers across the north benefit spring grains in the reproductive stage. Generally dry weather covers French winter wheat, favoring crop maturation. Dry weather aids winter grain harvesting in Hungary and Romania.
4. **SOUTH ASIA** ... Rain arrives in northwestern cotton and groundnut areas, while dry weather hampers planting in the south. Most rice areas benefit from moderate to heavy rain.
5. **EASTERN ASIA** ... Flooding possibly damages summer crops in the Yangtze Valley and the northeast. Moderate rain favors summer crops in the North China Plain.
6. **SOUTHEAST ASIA** ... Rain helps Thailand's corn, rice and reservoir supplies, but weekly amounts are below average, especially in the east.
7. **AUSTRALIA** ... Showers moisten soils in the dry southeastern wheat belt. Late wheat planting continues in Western Australia.
8. **CANADA** ... Cooler weather eases stress on the Prairies' crops advancing through reproduction to early grain filling. Rain aids crop development in the north, but light showers in the south bring only limited relief to crops in poor condition in the southwest.
9. **MEXICO** ... Beneficial heavy rain falls on parts of the southern Plateau corn belt and northwestern watersheds.
10. **SOUTH AMERICA** ... Rain aids wheat planting and early growth in Argentina's western crop areas, but moisture is limited. Dry, mild weather covers Brazil's crop areas.

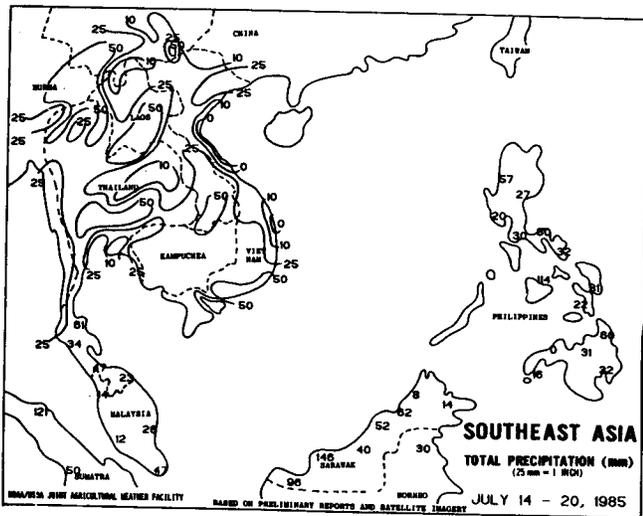




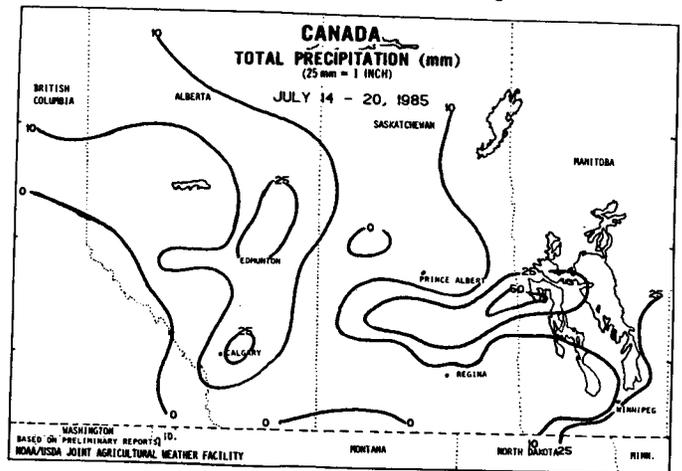
EUROPE...Light showers in England, the Netherlands, Belgium, West Germany, and East Germany, benefited spring grains in the reproductive stage. Drier weather is needed, especially in West Germany, for maturing winter grains. In major winter wheat producing areas of central France, mostly dry weather favored winter wheat maturation. Corn areas in southwestern France benefited from light, scattered showers. Drier weather covered crops in Poland, and moisture was adequate for crop growth. Mostly dry weather aided winter grain harvesting in Hungary and Romania. Seasonably dry weather continued over crops adjacent to the Mediterranean sea.



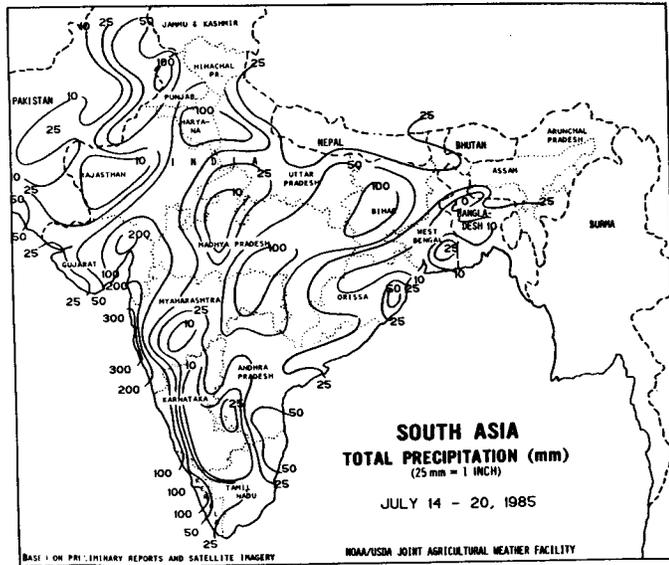
EASTERN ASIA...Relatively dry weather continued in much of southern China, favoring early rice harvesting in Hunan and Jiangxi. Moderate rain in Guangdong and Zhejiang benefited late rice in the vegetative stage. Very heavy rain (100-200mm) likely caused flooding in Hubei possibly damaging intermediate rice in the heading stage. Light to moderate rain (10-40mm) in the North China Plain benefited cotton, corn, and soybeans in the reproductive stages. Periods of hot weather (35-38C) were unfavorable for summer crops in much of eastern China. Moderate rain (10-75mm) benefited corn and soybeans in the northeast. However, heavy rain in eastern Liaoning and North Korea possibly caused flood damage to corn and sorghum.



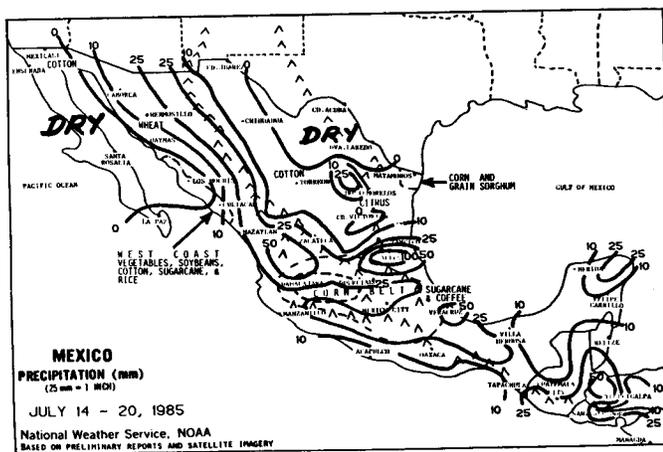
SOUTHEAST ASIA...In Thailand, weekly rainfall generally averaged below normal. However, southern corn/rice areas and the northern highlands benefited from 25-75mm, aiding crop growth and helping reservoir supplies. Light rain (1-20mm) fell over eastern rainfed rice areas, where substantial showers fell during the previous week. In general, moisture supplies appear to be adequate for crop development. Tropical showers fell over the remainder of Southeast Asia, but weekly totals were mostly below average in Malaysia, Laos, Kampuchea, Vietnam, and the Philippines. Near to above average rain fell further south over the Indonesian islands of Sumatra and western Java.



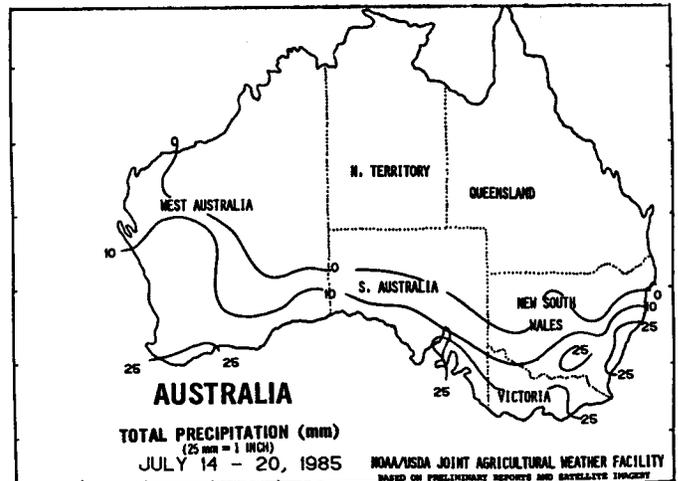
CANADA...Cooler weather and showers covered the Prairies' grain belt, bringing some relief to stressed crops in the southwest. However, weekly rainfall generally averaged less than 8mm across the chronically dry portions of southwestern Saskatchewan and southern Alberta. Spring-sown crops are mostly heading/flowering to early grain/pod filling in the Prairie Provinces. The more substantial rain (10-40mm) over most of the northern half of the grain belt aided crop development during these crucial growth phases, but the light showers across the south brought only a slight improvement to growing conditions. In Alberta, significant showers fell as far south as Calgary along the western edge of the grain belt. Overall, crops are rated poor in the southwestern Prairies, fair in the center, and good to excellent in the north and east.



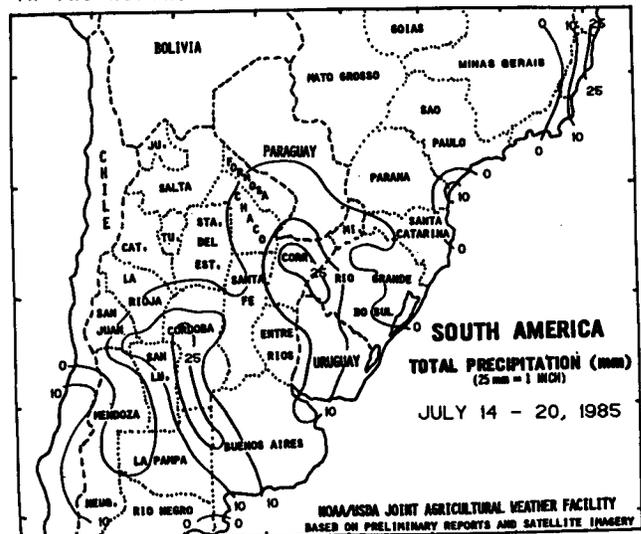
SOUTH ASIA... Monsoon rain surged into the northwest bringing the first significant moisture to the region this season. Rainfall normally begins in Gujarat and western Madhya Pradesh in mid-June. The start of the wet season in this region 4 weeks later than normal has delayed cotton and groundnut planting. Relatively dry weather in Karnataka, Andhra Pradesh, and Tamil Nadu has been unfavorable for planting and early growth of cotton and groundnuts. Moderate to heavy rain (25-150mm) covered much of India's eastern and northern rice areas, favoring planting and early growth. Heavy rain (100-300mm) returned to the west coast, following 2 weeks of favorably drier weather. Variable rain favored cotton and rice in Pakistan. Temperatures averaged favorably cooler than normal throughout much of South Asia.



MEXICO... Heavy rain doused northern sections of the southern Plateau corn belt and northwestern mountain watersheds. The moisture was generally beneficial to immature crops and in replenishing reservoirs. A few spots may be excessively wet with crop damage. Most other major agriculture areas had light to moderate rain except for the extreme northwest which continued seasonally dry. The northeast was dry, helpful for the grain sorghum and corn harvest.



AUSTRALIA... Following last week's beneficial rain in Queensland and northern New South Wales, dry weather allowed late wheat planting to progress. Light to moderate showers (10-25mm) covered much of the southeastern wheat belt. Persistent dry weather in South Australia, Victoria, and southern New South Wales from early June to last week was unfavorable for crop establishment. The recent rain was beneficial in the southeast, but much more rain is needed throughout the wheat belt to replenish soil moisture before the normal temperatures and crop moisture demand begin to increase in August. Light showers (10-15mm) covered Western Australia's wheat area, benefiting late planting in the north.



SOUTH AMERICA... A narrow band of substantial rain (10-35mm) fell over Argentina's western wheat producing regions late in the week. The showers and thunderstorms covered much of Cordoba, northeastern La Pampa and western Buenos Aires, providing some topsoil moisture for wheat planting and crop establishment. Lighter showers (less than 10mm) fell over the remainder of the wheat belt. Soaking rains are needed throughout the grain areas. Cooler weather moved into the region by the weekend. In Brazil, light showers fell over extreme western Rio Grande do Sul, but elsewhere, dry weather covered the southern wheat growing areas and the northern coffee region. Wheat is in vegetative growth with adequate moisture in Rio Grande do Sul but limited supplies in Parana. Mild weather occurred in the citrus and coffee areas where harvesting is underway.

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(continued from p. 1)

SATURDAY... Showers and thunderstorms were widespread over much of the Nation. Isolated thunderstorms in the Southwest deserts caused flooding and mudslides. Heavy showers fell from eastern Kansas into southeastern Nebraska. Locally severe thunderstorms pounded eastern North Dakota. The Northwest and the Northeast remained dry. Temperatures were seasonably warm in most of the Nation.

(continued from p. 19)

*NEW MEXICO--Three of the four key index gaging stations in New Mexico recorded well-above-average flows for June. Flow of the Rio Grande below Taos Junction Bridge near Taos, NM, averaged 3.6 bgd, 658 percent above the long-term monthly average. This is the second highest June flow of record and the eighth consecutive month that flows have been within the highest 25 percent of historic record.

*NEVADA--Contents of the Bridgeport and Rye Patch reservoirs were above average during June. The Rye Patch Reservoir was 21 percent above average. Streamflow was above normal on the Virgin River. During June, flow averaged 52 mgd, 3 percent above the long-term monthly average. Two other key streams in the State, the Humboldt and Walker Rivers, were both well below the long-term average flows for June. Ground-water levels varied in Nevada during June. The ground-water level in the Steptoe Valley well was at a record-high level for June. The water level in the key index well at Las Vegas, however, was below average.

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