

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

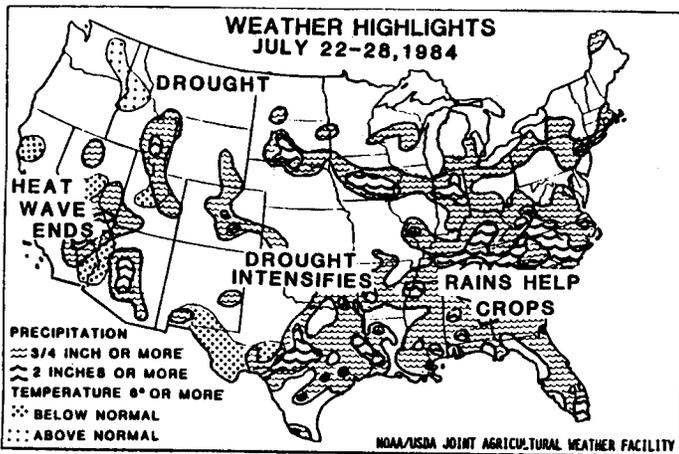
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WASHINGTON, D.C.

July 31, 1984

National Weather Summary

July 22 to 28



TUESDAY...Thunderstorms were scattered from the central Rockies to northern Arizona, New Mexico, Texas, along the gulf coast, and the Atlantic coast to Maryland. Thunderstorms were also scattered from the northern Plains through the northern part of the Corn Belt. Temperatures cooled in the Plains but warmed in the Southwest and Northwest.

WEDNESDAY...Very beneficial rains continued through the dry areas of Texas and spread across southern New Mexico to Arizona, the central Plateau, and across the northern Plains to the Corn Belt. Some moderate to heavy rain fell in Nebraska and Iowa. Light showers fell across the South and from Maryland through the Carolinas, with some moderate rain in South Carolina.

THURSDAY...Showers and thunderstorms were widespread from the central Mississippi Valley to the Atlantic Ocean from southern New England to Florida. Beneficial showers fell over most of the Corn Belt, Kentucky, Tennessee, and northwestern Mississippi. Light showers fell from the Southwest through the northern Rockies.

FRIDAY...Showers were again widespread from eastern Texas across the South and through the Atlantic Coast States to New England. Showers covered most of the western Plateau and mountains, and southern California.

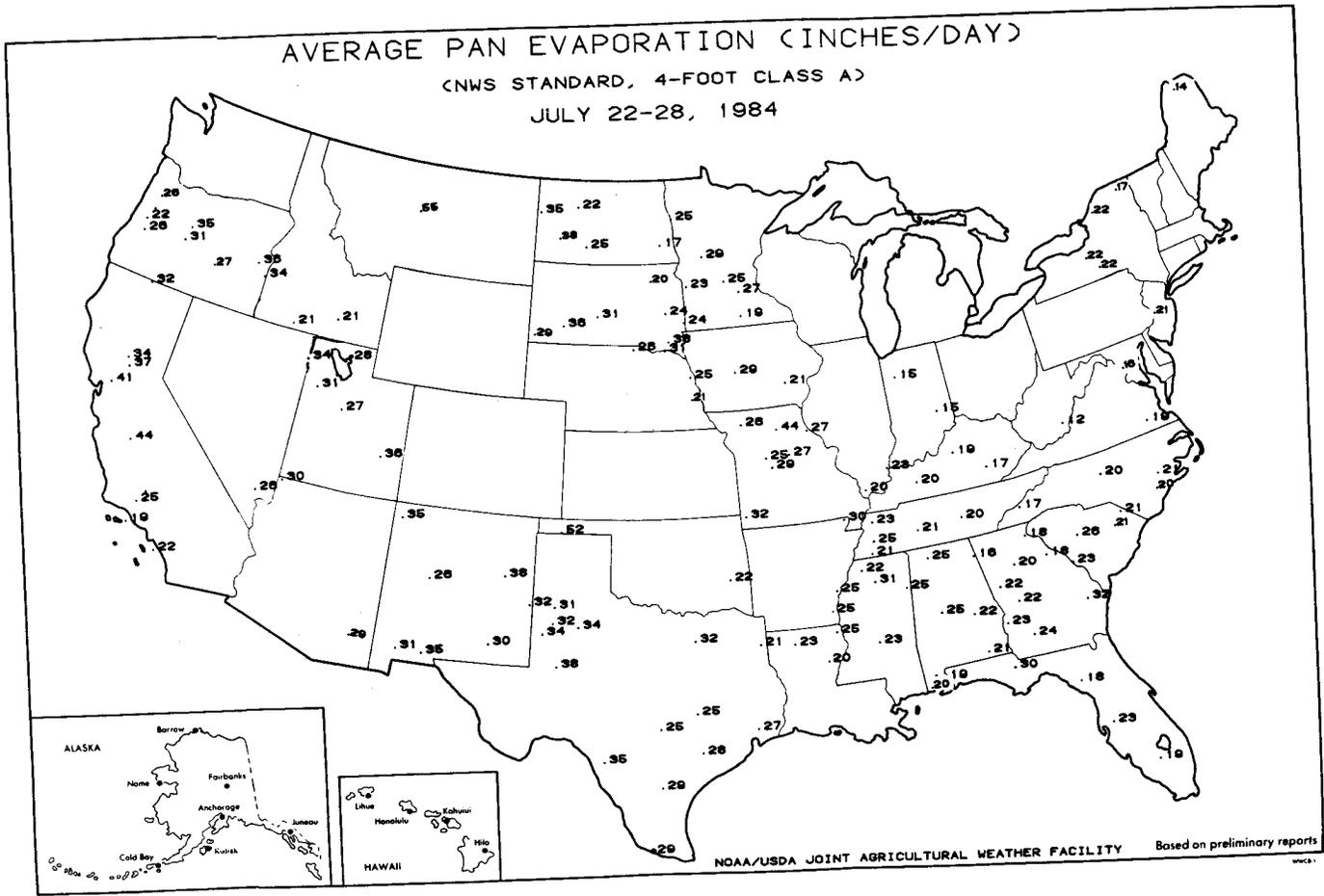
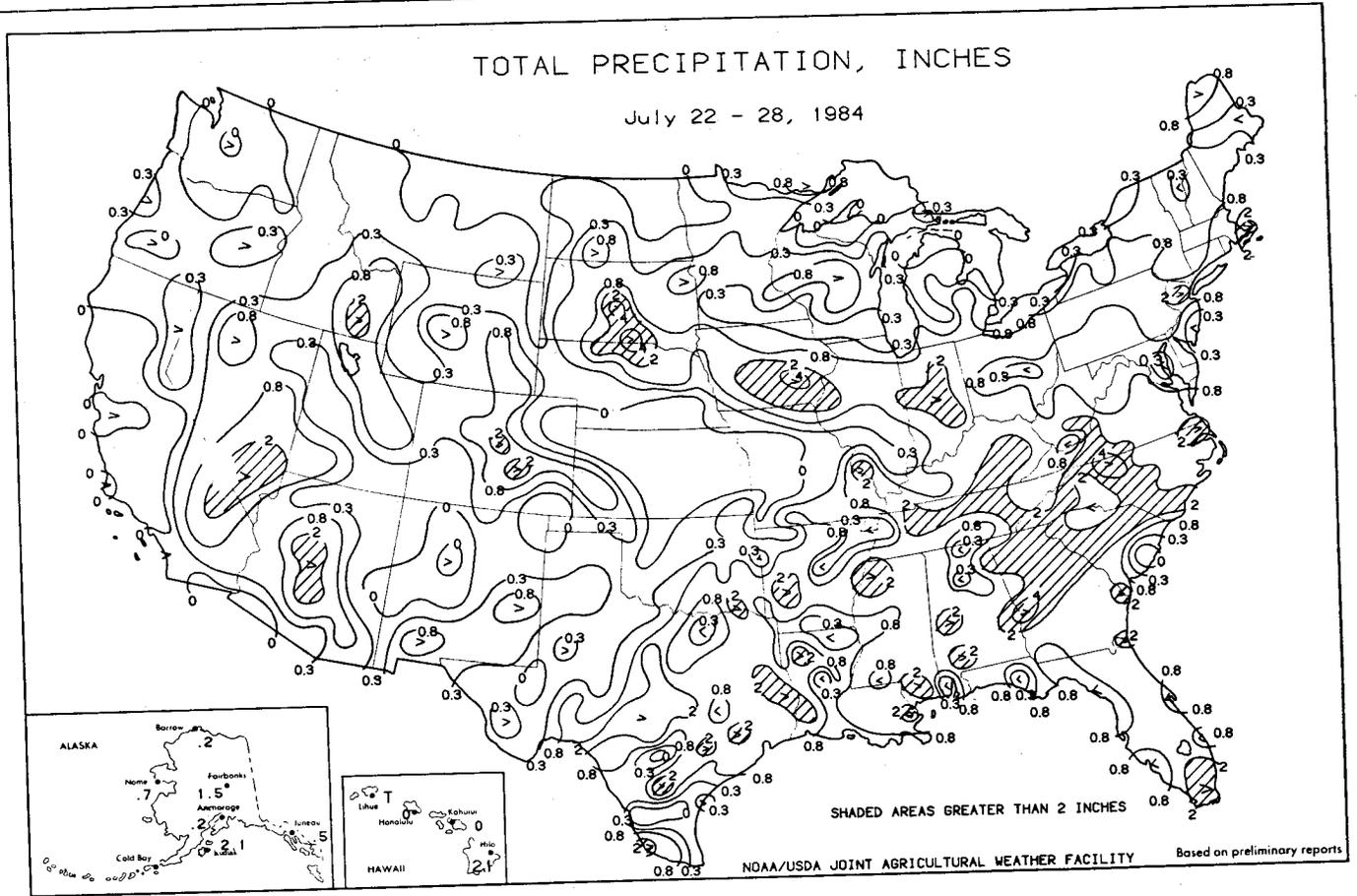
SATURDAY...The area of showers and thunderstorms pushed into the Southeast and was moderate to occasionally heavy from southern Louisiana to North Carolina. Showers continued over the western Plateau and Rockies. Temperatures were warming in California and the northern Plains.

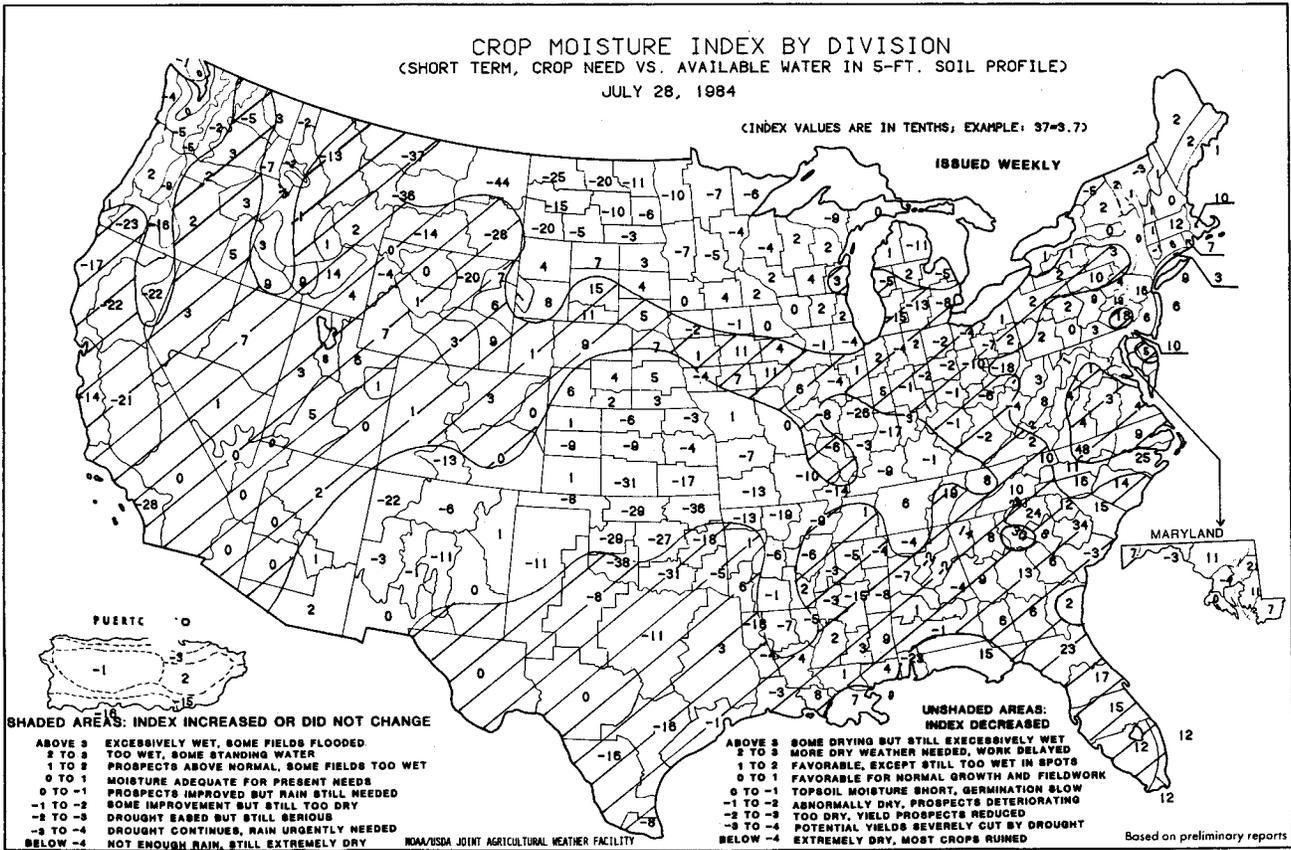
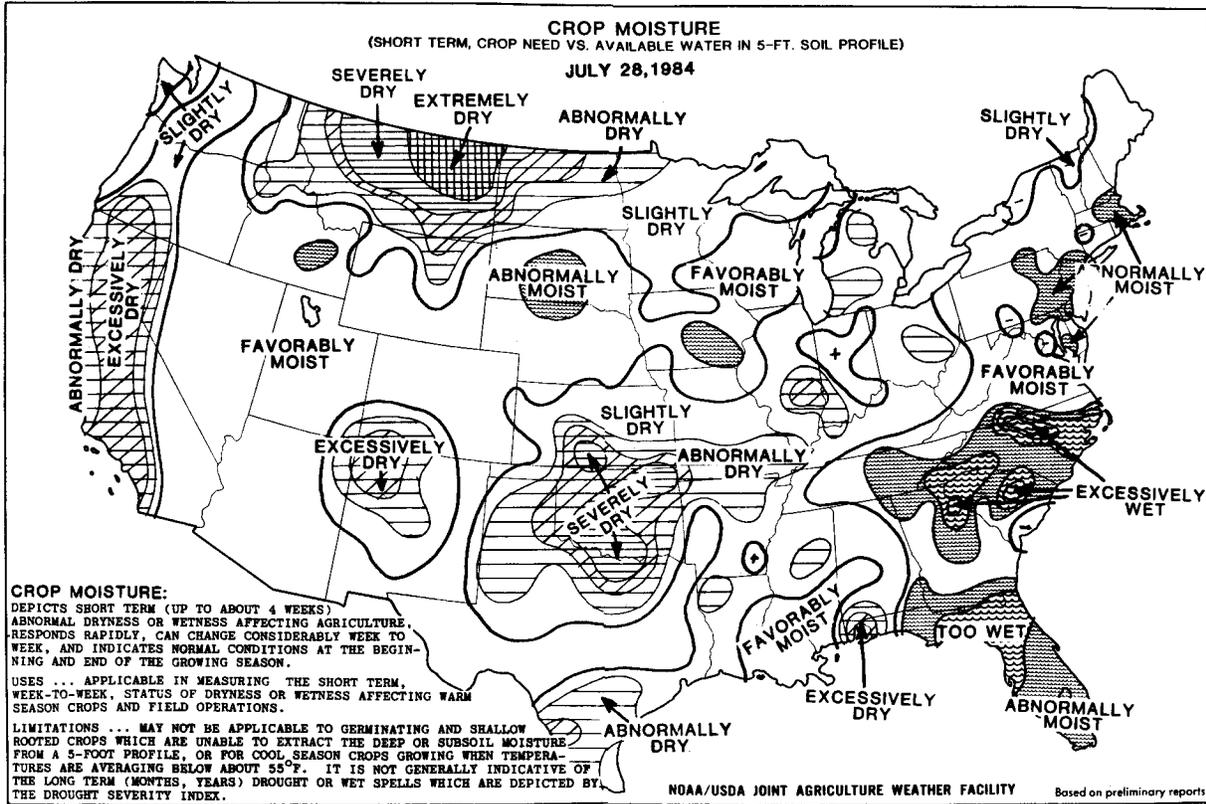
HIGHLIGHTS: Beneficial rains fell in the very dry areas of central Texas, but rain is needed in some areas missed by the showers. Showers and thunderstorms covered most of the area east of the Mississippi River, and from South Dakota to Iowa and through most of the Corn Belt. The central Plains remained dry, and the dry area extended into much of southern Illinois. Dry weather over the northern Plains exacerbated the already short moisture supply. Temperatures were cooler than normal in California, but began to warm again as the week ended.

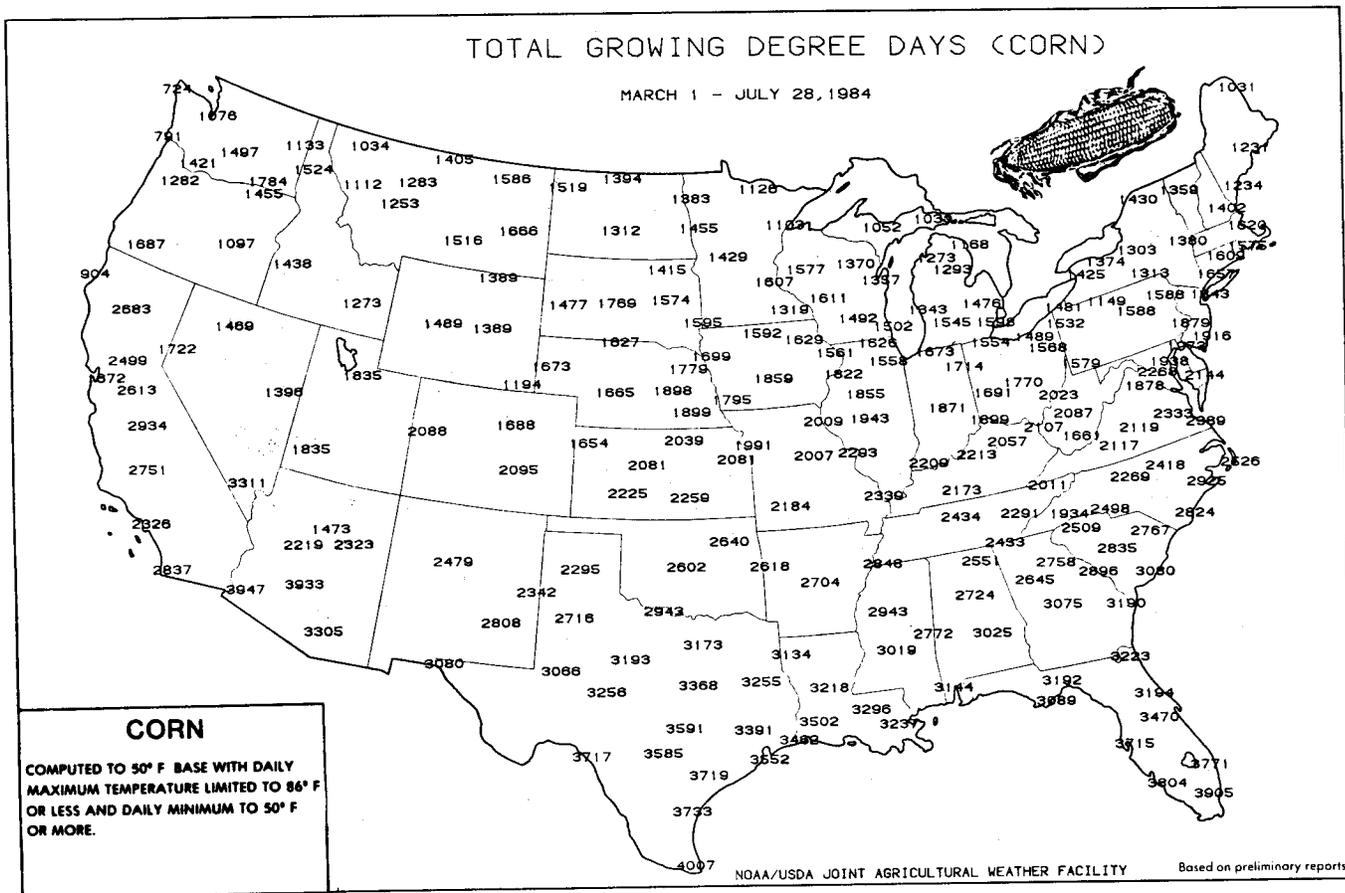
SUNDAY...Light showers fell in the mid-Atlantic States. Moderate rain fell in Georgia and Florida, with light showers extending along the gulf coast to southeastern Texas. Light to moderate showers fell in the Southwest, especially from southern California through Nevada. Lighter amounts reached across the Rockies to the northern Plains. Temperatures cooled somewhat in California, but warm weather covered most of the Plains and reached into the western Corn Belt.

MONDAY...Thunderstorms again erupted throughout the western States, and from central Texas, where it had been very dry, into the Southeast and mid-Atlantic States. Showers and thunderstorms also covered the central Great Lakes region. Afternoon temperatures were quite warm in the southern and central Plains and Southwest. Ninety degree readings reached the eastern Corn Belt.

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are major activities. Peanuts in good to excellent condition. Fieldwork slowed by rain, pesticide applications delayed. Peach harvest 28% complete. Apple harvest just beginning. Fruit prospects excellent. Pastures improved greatly, rated good to excellent. Hay in good to excellent condition. Third cutting beginning in some areas. Cabbage harvest active in southwest part of State. Harvest of other vegetables in full swing. Potato harvest over half complete. Livestock remain in good to excellent condition.

WASHINGTON: Harvest of winter wheat has picked up speed in southeast. The yield prospects look good. Cephalosporium stripe fungus damage has effected many fields in southeast, particularly in Whitman County. The barley harvest nearly one fourth complete in southeast. Corn growing rapidly from warm weather, but many fields could use rain or irrigation. Haying continues in some areas. Second cutting alfalfa complete in some areas. Apricot harvest continues for second week. Even though the season is still early, some peaches being harvested. Apples growing rapidly, but the size is smaller than last year. Winter injured grapes surviving the warm temperatures. Raspberry harvest past peak. Blueberry harvest in full swing. Broccoli and cauliflower harvest continues. Harvest of sweet corn, peppers, beans, cucumbers, and summer squash underway. Harvest of early norgold potatoes started. Green pea harvest going strong in the northwest counties. Pastures remain adequate with few areas reporting short conditions. Winter wheat harvested: 1984 17%, 1983 35%, average 29%.

WEST VIRGINIA: Temperatures averaged 1 to 20

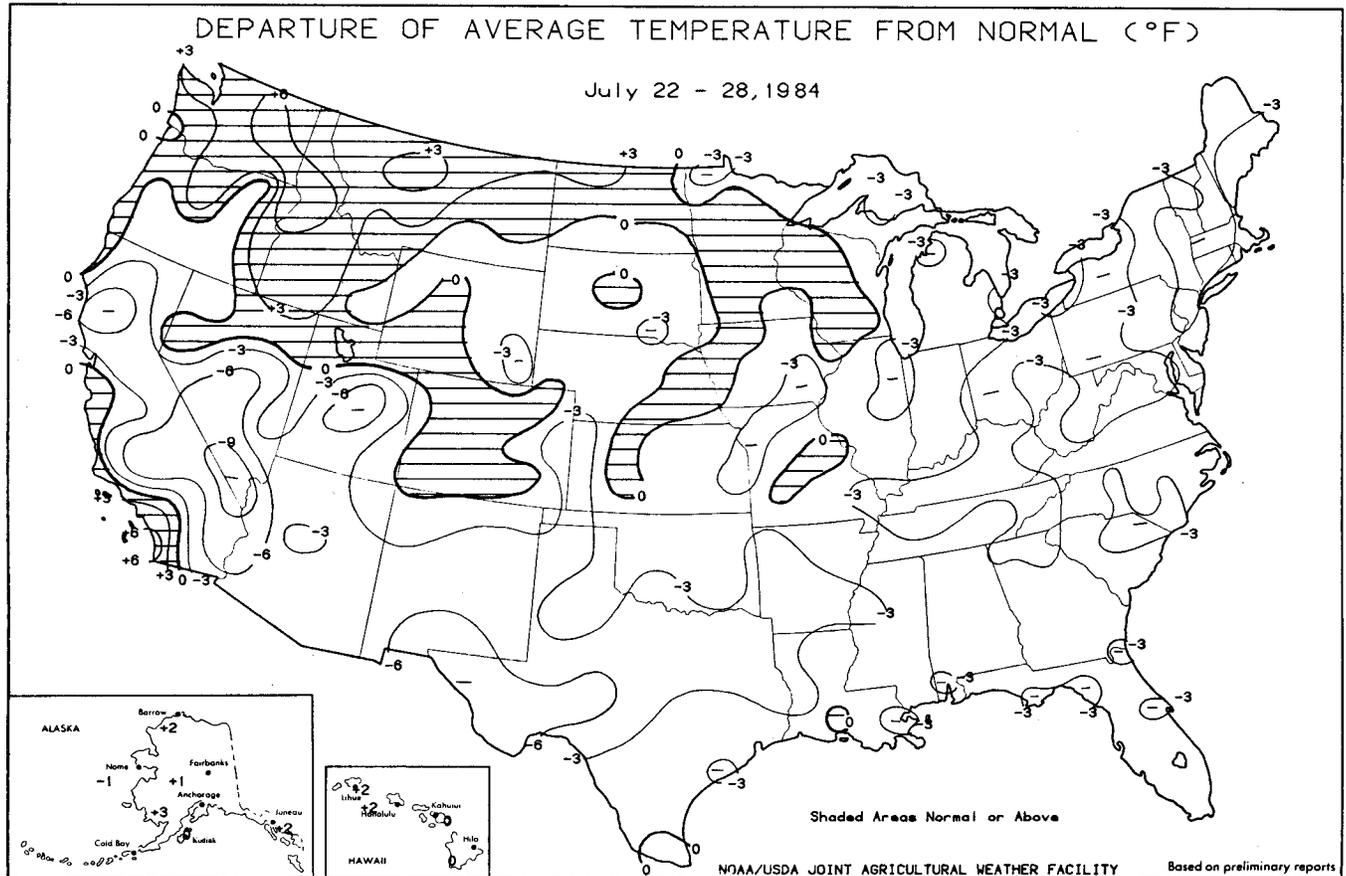
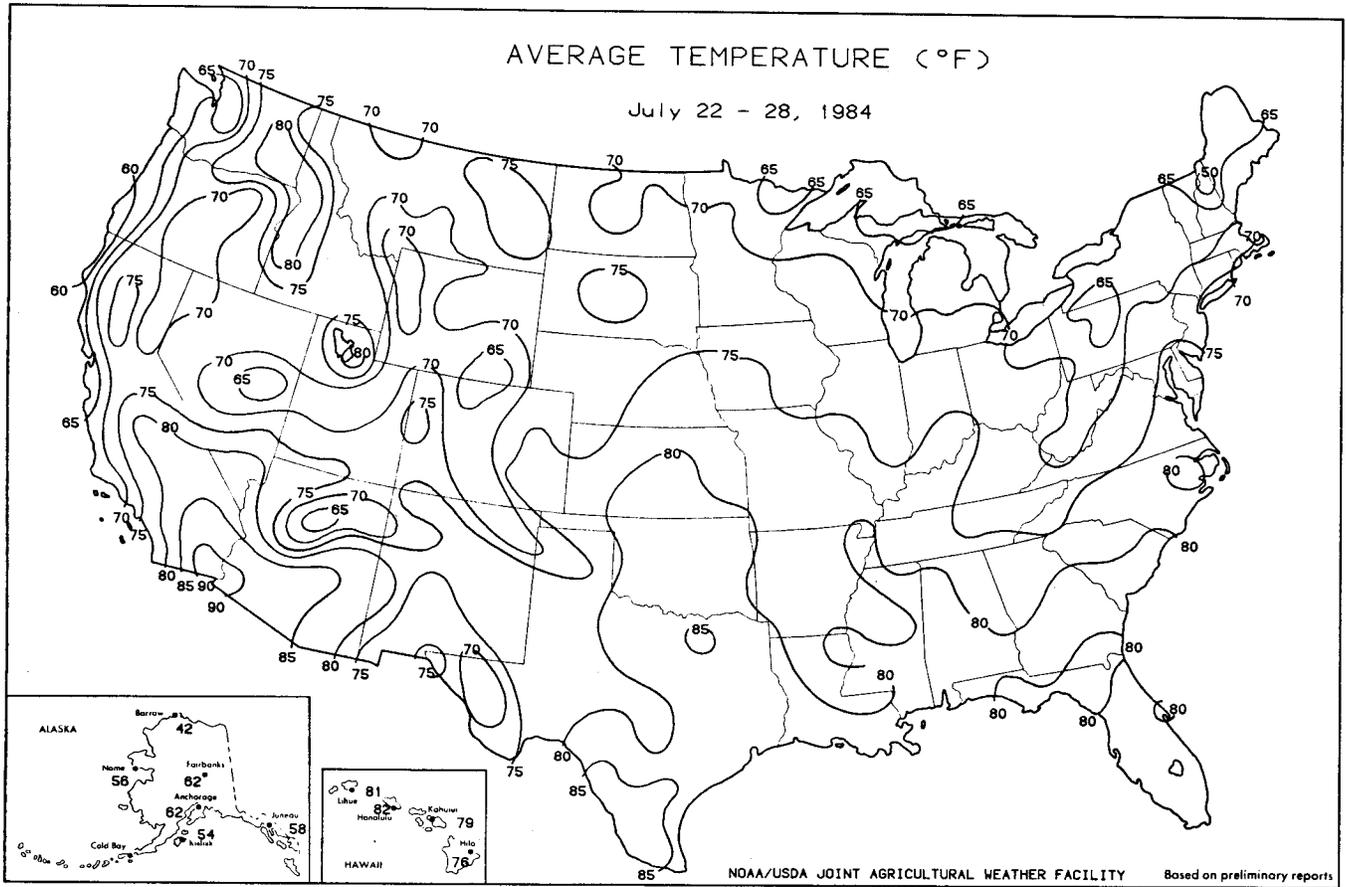
below normal. High of 94° in Spencer, low of 48° in Canaan Valley. Precipitation was below normal in most areas, with a few isolated locations reporting heavy shower activity. Most rainfall in Flat Top, 2.28 in., Wheeling received the least 0.10 in.

Soil moisture adequate to short. Days suitable for fieldwork: 4.0. Main activities: Harvesting hay, clipping pasture and general maintenance.

WISCONSIN: Week began hot and humid. Cool front on 23rd touched off several thunderstorms. A tornado was reported in Randolph (Dodge County). Scattered thunderstorms into midweek.

Days were suitable for fieldwork: 7.0. Soil moisture: 29% dry, 66% adequate, and 5% wet. Second crop hay 42% complete, same as last year, 46% average. Corn silked, 40% complete, 30% last year, 43% average. Oats harvested 9% complete, 6% last year, average not available. Pasture condition 83, year ago 76, average 80.

WYOMING: Temperatures above normal except Big Horn Drainage. Precipitation above normal. Topsoil moisture adequate 60% State. Days suitable for fieldwork: 6.0. Winter wheat: 65% mature, 5% harvested. Last year, 42% mature, 5% harvested. Barley: 45% turning color, 25% mature. Last year, 40% turning color, 27% mature. Spring wheat: 40% turning color, 20% mature. Last year, 34% turning color, 5% mature. Oats: 35% turning color, 10% mature. Last year, 28% turning color, 6% mature. Alfalfa: first cutting 90% complete. Second cutting 5% complete. Other hay harvest 50% complete. Dry beans 65% in bloom. Potatoes 85% in bloom. Corn: 45% tasseled, 10% silked. Ranges, pastures fair to mostly good. Livestock mostly good.



Weather Data for the Week Ending JULY 28, 1984

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 3	PCT. NORMAL SINCE June 3	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	89	69	92	67	79	-1	.3	-.9	.1	5.0	60	29.2	86	93	47	4	0	3	0
MOBILE	90	70	93	69	80	-3	.2	-1.6	.2	4.2	36	27.7	74	87	51	3	0	2	0
AK ANCHORAGE	67	56	73	51	62	3	.2	-.3	.1	2.6	93	6.7	120	79	52	0	0	2	0
BARROW	49	35	58	28	42	2	.3	.1	.3	.7	70	1.5	75	98	76	0	0	3	0
FAIRBANKS	71	53	81	47	62	1	1.5	1.1	1.0	3.3	114	6.7	134	99	55	0	0	3	0
JUNFAH	65	50	69	47	58	2	.5	-.5	.5	8.3	130	28.8	175	91	60	0	0	2	0
KODIAK	58	51	61	45	54	0	2.1	1.1	1.0	8.0	125	44.8	119	95	81	0	0	3	2
NOMF	53	46	60	44	50	-1	.7	.1	.5	3.2	103	5.4	93	98	81	0	0	4	1
AZ PHOENIX	100	78	108	68	89	-4	2.9	2.7	2.7	5.4	600	6.8	227	73	32	7	0	3	1
PRESOTT	81	61	88	57	77	-1	2.0	1.2	.9	3.0	115	4.2	47	72	33	0	0	4	2
TUCSON	95	72	100	68	83	-3	.2	-.4	.1	3.8	146	4.8	107	75	29	7	0	5	0
YUMA	101	79	112	78	90	-4	.7	-.1	.7	3.1	150	1.7	80	69	30	7	0	0	0
AR FORT SMITH	92	69	94	65	80	-3	.1	-.6	.1	5.3	84	19.6	84	98	43	5	0	2	0
LITTLE ROCK	89	70	93	65	74	-3	.1	-.6	.1	4.0	0	76.1	93	88	51	4	0	1	0
CA BAKERSFIELD	90	65	100	62	78	-7	.7	.0	.7	0	+100	1.2	29	67	32	3	0	0	0
EMERKA	65	52	70	47	59	2	.7	.0	.7	6	170	16.6	74	90	74	0	0	1	0
FRESNO	94	65	103	60	80	-2	.7	.0	.7	2	+100	2.0	29	62	24	6	0	0	0
LOS ANGELES	78	67	83	63	72	2	.7	.0	.7	0	+100	1.7	20	83	57	0	0	0	0
RED BLUFF	92	61	101	57	77	-6	.7	.0	.7	1	20	4.2	32	68	21	5	0	0	0
SACRAMENTO	87	57	95	54	72	-4	.7	.0	.7	1	100	3.0	78	80	29	2	0	1	0
SAN DIEGO	80	73	83	71	77	5	.1	-.1	.1	1	+100	1.3	21	87	66	0	0	1	0
SAN FRANCISCO	71	54	78	52	63	0	.7	.0	.7	0	0	4.0	31	86	51	0	0	0	0
DENVER	87	61	92	57	74	0	.8	.4	.4	2.2	67	7.7	79	79	28	1	0	4	0
GRAND JUNCTION	90	64	93	61	77	-2	.4	.3	.4	2.2	275	5.9	151	76	29	3	0	2	0
PUEBLO	89	64	98	60	77	0	2.3	1.9	1.1	4.8	185	8.5	133	74	29	3	0	3	2
CT BRIDGEPORT	81	63	89	56	72	-3	.7	-.2	.7	8.4	147	31.6	140	86	55	0	0	1	1
HARTFORD	81	59	88	50	70	-4	.6	-.1	.6	5.3	90	32.5	134	91	49	0	0	1	1
DC WASHINGTON	83	70	92	65	77	-3	.3	-.6	.2	6.2	91	24.9	117	87	58	1	0	3	0
FL APALACHICOLA	86	72	88	70	79	-3	.9	-.8	.8	13.3	118	37.6	138	89	69	0	0	2	1
DAYTONA BEACH	88	73	90	71	81	-1	.9	-.4	.5	9.3	85	26.8	110	85	57	2	0	3	0
KEY WEST	88	70	91	68	79	-3	2.0	.4	1.7	10.8	96	27.9	97	100	61	2	0	2	1
MIAMI	85	80	88	75	83	-2	1.1	.3	.5	10.4	128	26.9	152	77	66	0	0	3	1
MIAMI	87	75	89	71	81	-2	3.7	2.5	1.2	15.0	109	37.1	130	91	65	0	0	5	3
ORLANDO	89	71	91	70	80	-2	1.3	-.4	.5	10.8	77	26.9	99	100	59	4	0	4	0
TALLAHASSEE	90	71	94	69	81	-1	.5	-1.5	.3	10.1	70	41.3	110	96	57	4	0	6	0
TAMPA	90	74	93	73	82	-1	.7	-1.0	.3	7.6	65	18.5	76	90	57	4	0	6	0
WEST PALM BEACH	87	75	88	70	81	-1	.7	-.5	.2	12.7	98	38.1	128	94	68	0	0	5	1
CA ATLANTA	85	68	90	65	77	-2	2.0	1.0	1.5	9.4	124	30.1	129	91	54	1	0	5	2
AUGUSTA	91	70	94	68	80	-1	2.7	1.7	1.2	7.5	99	35.9	133	90	50	5	0	4	2
MACON	90	71	94	69	81	-1	3.4	2.6	1.7	9.6	125	32.5	114	91	57	5	0	4	2
SAVANNAH	90	71	94	69	81	-1	2.8	1.1	2.5	9.0	74	35.4	122	92	52	4	0	4	1
HI HILO	83	68	86	65	76	0	2.1	-.1	1.1	10.4	78	53.4	75	86	58	0	0	4	2
HONOLULU	90	75	91	74	82	2	0	-.1	0	2	22	5.0	37	74	44	3	0	0	0
KAHULUI	90	68	92	63	79	0	0	-.1	0	0	0	6.1	48	70	48	5	0	0	0
LIHUE	85	76	86	73	81	2	.7	-.5	.7	1.9	59	9.8	41	75	56	0	0	1	0
ID BOISE	94	68	104	60	81	5	.2	-.2	.1	1.6	160	7.5	101	64	26	7	0	1	0
LEWISTON	98	65	109	51	81	6	.7	-.1	.7	1.6	89	6.9	92	62	22	7	0	1	0
POCATELLO	85	58	94	54	72	-1	2.0	1.9	.9	3.5	260	9.6	148	91	60	1	0	5	2
IL CHICAGO	79	61	93	51	70	-4	.2	-.6	.2	5.1	71	19.2	100	93	48	1	0	2	0
MOLINE	82	64	94	54	73	-2	1.6	.5	1.3	8.5	99	23.0	106	94	57	2	0	3	1
PEORIA	85	66	95	58	75	-2	1.6	.6	1.4	8.8	114	24.9	122	95	61	2	0	3	1
QUINCY	81	63	91	55	72	-2	.3	-.6	.3	6.8	82	17.8	85	92	52	2	0	1	0
ROCKFORD	85	66	91	60	75	-1	.5	-.3	.5	5.7	85	24.1	121	92	52	3	0	1	0
SPRINGFIELD	85	66	91	60	75	-1	.5	-.3	.5	5.7	85	24.1	121	92	52	3	0	1	0
IN EVANSVILLE	89	65	93	59	77	-1	1.1	-.8	1.1	4.8	72	24.2	96	86	43	5	0	1	0
FORT WAYNE	81	62	93	57	71	-2	1.6	.8	1.1	4.1	67	18.3	90	93	51	2	0	3	2
INDIANAPOLIS	83	63	90	60	73	-2	2.4	1.4	2.3	5.9	76	21.5	93	100	53	1	0	2	1
SOUTH BEND	81	63	91	56	72	-1	.4	-.4	.4	5.1	71	17.8	84	79	44	2	0	2	0
IA DES MOINES	85	68	95	59	77	0	2.4	1.7	2.3	13.9	207	28.9	161	85	53	2	0	2	1
STOUC CITY	84	66	96	60	75	-1	.8	-.1	.8	9.5	136	25.0	163	86	52	2	0	2	1
WATERLOO	79	62	90	51	71	-2	.3	-.7	.2	10.3	126	23.6	121	91	57	1	0	2	0
KS CONCORDIA	91	65	98	54	78	-2	0	-.7	0	4.1	59	18.2	114	81	38	4	0	1	0
DODGE CITY	95	69	101	67	82	1	.7	-.7	.7	2.5	45	12.1	92	68	26	6	0	0	0
COOLIAND	87	58	96	53	73	-4	.7	-.5	.7	5.1	102	14.2	131	83	36	2	0	0	0
TOPEKA	91	65	95	59	78	-1	0	-.8	0	11.2	135	25.5	137	90	46	4	0	0	0
WICHITA	94	68	99	60	81	-1	0	-.7	0	2.6	37	16.7	102	72	28	6	0	0	1
KY BOWLING GREEN	86	64	92	59	75	-4	.8	-.1	.8	7.1	88	36.3	121	99	50	2	0	2	1
LEXINGTON	84	64	90	57	74	-3	1.7	.6	1.7	7.0	83	26.6	95	93	51	1	0	2	1
LOUISVILLE	86	66	91	60	76	-2	1.4	.5	1.1	7.5	106	26.4	101	80	49	2	0	3	1
LEXANDRIA	90	70	93	67	80	-3	2	-.9	.1	9.0	111	36.4	106	90	57	4	0	2	0
BATON ROUGE	89	70	94	67	80	-2	1.0	-.7	.6	7.7	80								

Weather Data for the Week Ending JULY 28, 1984

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 3	PCT. NORMAL SINCE JUNE 3	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	92 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	90	69	93	66	80	-3	.5	-.1	.5	5.8	89	25.3	94	95	52	5	0	3	1	0
ME CARIBOU	71	54	80	46	63	-3	.4	-.5	.2	8.1	121	24.2	130	92	53	0	0	3	0	0
ME PORTLAND	79	55	87	49	67	-2	.4	-.2	.4	6.2	113	34.9	149	83	46	0	0	2	0	0
MD BALTIMORE	81	66	90	61	74	-3	.6	-.3	.4	4.8	70	23.6	103	82	52	1	0	3	0	0
MD SALLISBURY	84	69	92	64	77	-3	.5	-.6	.4	9.0	123	33.6	138	95	66	1	0	3	0	0
MA BOSTON	81	64	92	58	72	-2	1.0	-.3	1.0	5.8	114	37.6	157	90	55	2	0	3	0	0
MA CHATHAM	74	62	80	58	68	-1	2.8	2.0	T	11.0	212	35.7	147	T	-1	0	0	1	1	1
MI ALPENA	80	52	89	46	66	-1	0	-.7	0	5.1	86	14.0	86	95	40	0	0	0	0	0
MI DETROIT	84	58	96	54	71	-1	.4	-.3	.3	1.5	75	13.5	75	91	39	2	0	2	1	1
MI FLINT	81	59	91	48	70	-1	.9	-.2	.8	4.2	74	14.8	90	81	45	1	0	2	1	1
MI GRAND RAPIDS	82	59	91	52	71	-1	.1	-.4	.2	2.0	45	14.6	78	95	49	2	0	2	1	1
MI HOUGHTON LAKE	78	53	86	41	66	-2	T	-.6	T	6.0	109	15.9	105	91	44	0	0	2	0	0
MI LANSING	81	59	92	48	70	-1	.1	-.6	T	3.1	53	13.7	83	95	46	2	0	2	0	0
MI MARQUETTE	75	49	83	37	62	-3	.6	-.1	.4	4.2	65	16.5	80	91	45	0	0	0	0	0
MI MUSKEGON	79	59	86	53	69	-2	.1	-.7	T	4.2	65	16.5	80	91	45	0	0	0	0	0
MI SAULT STE. MARIE	76	49	85	42	63	-2	.6	-.1	.4	4.4	94	16.4	96	92	51	0	0	0	0	0
MN ALEXANDRIA	82	63	88	58	72	1	.4	-.3	.4	9.0	136	17.0	119	90	44	0	0	1	0	0
MN DULUTH	80	52	88	47	66	0	.2	-.7	.2	6.6	90	13.0	80	89	40	0	0	1	0	0
MN INT'L FALLS	78	53	89	49	65	-1	.4	-.4	.4	9.1	128	17.9	98	93	49	0	0	1	0	0
MN MINNEAPOLIS	83	65	94	56	74	0	.3	-.4	.2	10.5	152	21.0	141	82	43	1	0	3	0	0
MN ROCHESTER	80	60	88	48	70	-1	.1	-.7	.1	6.9	97	16.7	106	90	51	0	0	2	0	0
MS GREENWOOD	87	70	92	68	79	-3	1.9	-.9	1.6	5.6	77	29.2	88	99	61	2	0	3	1	1
MS JACKSON	91	69	94	67	80	-2	1.1	-.1	.7	6.3	94	28.1	87	95	50	0	0	4	1	1
MO MERIDIAN	89	70	93	67	80	-2	1.7	-.6	1.1	7.8	95	30.1	91	93	52	4	0	3	1	1
MO CAPE GIRARDEAU	88	66	94	61	77	-1	.9	-.1	.9	3.3	50	20.4	78	95	50	4	0	2	1	1
MO COLUMBIA	90	65	96	59	78	-1	0	-.7	0	12.2	179	31.0	143	95	43	5	0	0	0	0
MO KANSAS CITY	88	64	93	56	76	-3	0	-.9	0	8.4	101	24.0	121	86	42	4	0	0	0	0
MO SAINT LOUIS	90	70	95	62	80	1	T	-.7	T	3.4	51	24.4	117	84	40	5	0	1	0	0
MO SPRINGFIELD	92	66	95	58	79	0	T	-.7	T	5.6	74	22.5	98	84	38	5	0	0	0	0
MT BILLINGS	85	59	95	50	72	-2	.1	0	.1	1.8	72	6.4	68	75	30	4	0	2	0	0
MT GLASGOW	89	63	98	53	76	4	T	-.3	T	1.9	51	4.1	56	53	21	4	0	0	0	0
MT GREAT FALLS	86	56	100	46	71	1	T	-.2	T	2.5	74	7.8	76	67	23	3	0	0	0	0
MT HAVRE	90	59	100	40	75	4	T	-.2	T	.6	19	3.9	55	54	18	4	0	0	0	0
MT HELENA	86	59	97	50	72	3	T	-.2	T	2.3	82	5.6	78	69	27	3	0	2	0	0
MT KATSPILL	87	54	97	43	71	5	.1	-.1	.1	1.8	67	7.6	83	74	25	3	0	2	0	0
MT MILES CITY	89	64	102	55	77	1	T	-.3	T	3.7	93	5.9	65	67	23	5	0	1	0	0
MT MISSOULA	87	58	98	48	72	4	T	-.1	T	1.4	56	8.2	98	76	30	3	0	1	0	0
NE GRAND ISLAND	89	65	100	57	77	0	T	-.6	T	5.7	97	24.3	162	77	40	2	0	0	0	0
NE LINCOLN	91	66	100	58	78	0	T	-.7	T	6.4	102	26.7	162	76	39	3	0	0	0	0
NE NORFOLK	86	65	98	58	76	-1	1.1	-.5	1.0	7.8	111	24.7	163	83	45	2	0	2	1	1
NE NORTH PLATTE	87	62	99	49	75	-1	T	-.6	T	5.2	84	15.5	118	67	35	2	0	1	0	0
NE OMAHA	86	67	96	62	77	1	.5	-.3	.4	8.2	115	24.0	137	83	54	2	0	2	0	0
NE SCOTTSBLUFF	88	61	96	54	74	-1	.1	-.1	.2	3.0	65	10.6	103	77	34	2	0	2	0	0
NE VALENTINE	86	59	100	50	73	-2	3.4	2.8	1.2	8.6	169	15.9	143	58	33	1	0	2	1	1
NV FLY	77	51	86	48	64	-5	.9	.7	.5	2.5	167	5.7	98	94	48	0	0	5	0	0
NV LAS VEGAS	93	70	103	61	82	-10	2.1	1.9	1.4	2.7	540	2.9	138	79	35	4	0	4	1	1
NV RENO	88	53	94	47	71	1	.5	.4	.4	.9	129	2.1	44	80	27	2	0	2	0	0
NV WINNEMUCCA	88	56	95	54	72	-1	.9	-.9	.9	2.5	208	7.6	152	78	22	2	0	2	1	1
NH CONCORD	78	54	87	45	66	-4	.5	-.2	.5	6.3	115	20.5	160	94	48	0	0	1	0	0
NJ ATLANTIC CITY	84	65	91	58	74	-1	.2	-.8	.2	5.9	97	29.6	129	91	54	1	0	1	0	0
NM ALBUQUERQUE	88	65	93	62	77	-2	T	-.3	T	1.5	100	3.1	94	63	24	1	0	1	0	0
NM CLOVIS	86	64	90	61	75	-3	.8	-.1	.8	8.5	170	13.4	147	73	36	1	0	1	1	1
NM ROSWELL	88	66	93	63	77	-4	.8	-.4	.8	4.8	229	7.8	195	78	31	5	0	2	1	1
NY ALBANY	77	58	89	49	68	-4	.7	0	.7	5.5	95	25.1	130	95	56	0	0	1	1	1
NY BINGHAMTON	77	58	85	51	67	-2	1.8	1.0	1.6	8.2	172	26.6	179	80	50	0	0	2	1	1
NY BUFFALO	80	59	88	52	69	-2	.1	-.6	.1	8.1	162	22.4	120	83	39	0	0	1	0	0
NY NEW YORK	80	65	86	60	73	-4	1.1	-.2	1.1	12.3	198	17.7	162	83	55	0	0	1	1	1
NY ROCHESTER	79	58	87	52	68	-4	.5	-.1	.4	3.5	73	18.9	112	90	43	0	0	2	0	0
NY SYRACUSE	78	56	89	48	67	-4	.8	0	.8	5.7	84	20.3	95	96	55	0	0	2	1	1
NC ASHEVILLE	81	61	86	59	71	-3	2.0	.9	1.5	9.0	111	32.9	118	100	66	0	0	3	1	1
NC CHARLOTTE	85	69	90	66	77	-2	.9	.1	.9	7.8	116	32.8	130	89	53	1	0	4	1	1
NC GREENSBORO	83	67	89	62	75	-3	5.4	4.4	2.2	15.0	195	38.1	155	95	59	0	0	5	3	3
NC HATTIESBURG	84	73	86	70	78	-1	1.3	0	1.0	7.4	84	28.6	101	93	69	0	0	3	1	1
NC NEW BERN	89	74	92	71	81	1	1.2	-.3	.9	10.7	97	37.4	129	83	60	5	0	2	1	1
NC RALEIGH	83	68	89	66	76	-2	1.4	.4	1.3	11.2	147	37.1	152	100	66	0	0	5	1	1
NC WILMINGTON	85	71	88	68	78	-3	2.7	1.1	2.1	8.3	69	29.9	101	97	70	0	0	6	1	1
ND BISMARCK	81	57	90	53	69	-2	.7	.3	.7	4.3	90	10.6	108	83	31	1	0	1	1	1
ND FARGO	83	58	92	55	71	-1	T	-.7	T	6.0	98	11.3	97	87	36	1	0	1	0	0
ND GRAND FORKS	82	54	87	49	68	-1	0	-.6	0	7.8	144	17.3	119	89	40	0	0	0	0	0
ND WILLISTON	85	61	96	56	73	2	.1	-.3	.1	2.9	69	6.5	76	68	24	3	0	1	0	0
OH AKRON-CANTON	79	58	88	53	68	-4	1.3	.4	1.2	4.7	70	20.2	96	96	48	0	0	3	1	1
OH CINCINNATI	82	63	90	60	72	-3	1.1	.2	.7	4.7	60	21.0	86	90	54	2	0	3	1	1
OH CLEVELAND	79	58	89	54	69	-3	1.0	.3	1.0	6.6	102	23.7	116	87	47	0	0	1	1	1
OH COLUMBUS	81	62	90	57	72	-2	.2	-.7	.2	4.0	53	18.8	84	87	45	1	0	2	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending JULY 28, 1984

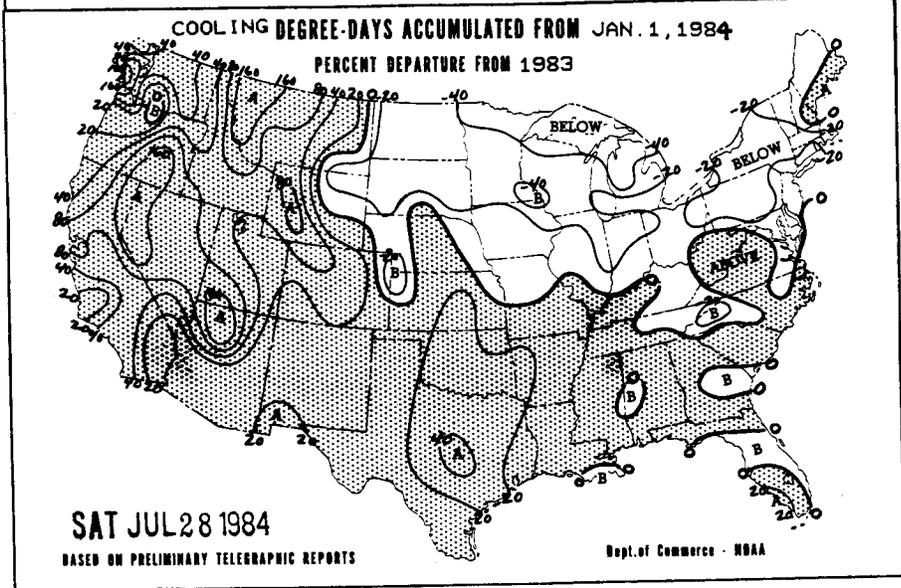
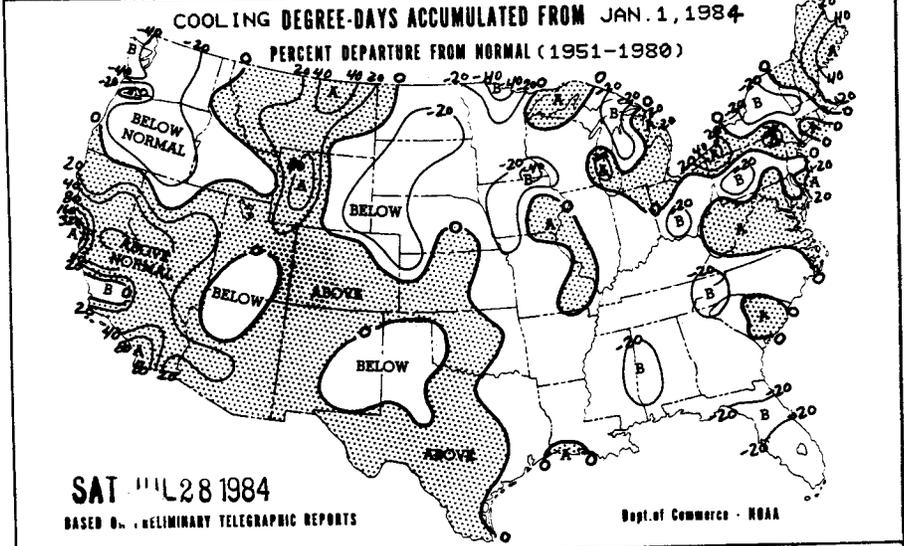
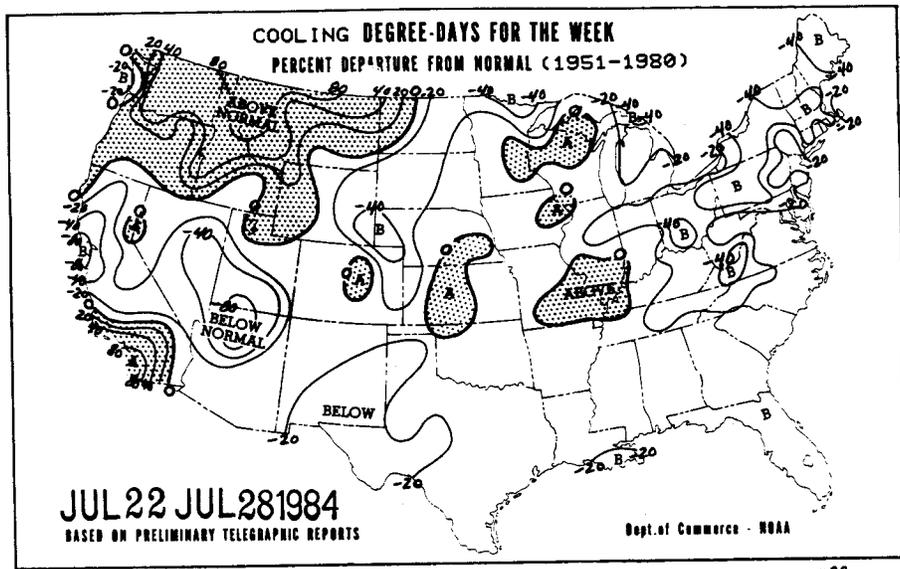
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 3	PCT. NORMAL SINCE June 3	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
OK DAYTON	79	61	89	56	70	-5	.6	-.1	.3	4.3	64	19.7	92	84	48	0	0	3	0	
OK TOLEDO	82	57	94	52	70	-2	1.2	.5	1.1	3.4	55	17.6	96	95	44	2	0	2	1	
OK YOUNGSTOWN	80	55	89	52	68	-3	1.4	.5	1.1	7.7	117	22.3	104	80	39	0	0	2	1	
OK OKLAHOMA CITY	92	70	96	66	81	-2	.1	-.5	.1	3.8	60	13.4	72	71	32	5	0	1	0	
OK TULSA	93	70	97	66	82	-3	.1	-.6	-.1	2.3	31	26.7	119	82	31	7	0	1	0	
OR ASTORIA	71	50	85	45	60	-1	.5	-.2	.5	3.8	177	35.1	95	90	58	0	0	1	0	
OR BURNS	85	55	92	51	70	-1	.1	.4	.5	1.4	127	6.1	174	—	—	1	0	0	0	
OR MEDFORD	90	56	97	52	73	0	.1	0	-.1	.8	89	6.9	65	80	26	3	0	1	0	
OR PENDLETON	91	61	97	47	76	1	.1	0	-.1	1.2	170	8.2	117	55	21	5	0	0	0	
OR PORTLAND	84	59	100	56	71	2	.1	0	-.1	4.1	241	19.9	100	79	38	1	0	0	0	
OR SALEM	84	51	94	46	68	1	.1	0	-.1	3.9	260	23.5	109	92	40	2	0	0	0	
PA ALLENTOWN	81	64	89	57	73	-1	1.7	-.7	1.6	13.3	190	38.1	156	72	46	0	0	2	1	
PA ERIE	78	60	84	55	69	-1	.3	-.5	.7	6.4	98	21.0	100	81	44	0	0	2	0	
PA HARRISBURG	82	66	95	59	74	-2	.4	-.4	.4	10.2	159	32.9	150	—	—	1	0	1	0	
PA PHILADELPHIA	82	66	88	62	74	-3	1.5	-.6	1.4	8.5	120	30.9	133	84	54	0	0	2	1	
PA PITTSBURGH	79	58	87	54	68	-4	.6	-.2	.4	4.9	75	19.9	91	86	46	0	0	3	0	
PA SCRANTON	78	62	85	54	70	-2	1.0	.2	.8	9.8	156	27.4	142	84	59	0	0	2	1	
RI PROVIDENCE	78	61	85	54	70	-3	.9	.2	.9	7.7	143	36.9	149	87	56	0	0	1	0	
SC CHARLESTON	88	72	90	69	80	-1	.1	-.6	.7	6.7	53	34.7	115	91	61	3	0	4	2	
SC COLUMBIA	89	69	94	68	79	-3	2.9	1.7	1.4	14.7	163	37.3	127	98	57	4	0	4	2	
SC FLORENCE	86	69	90	67	78	-3	3.0	1.8	1.5	11.8	173	34.1	137	99	68	2	0	4	1	
SC GREENVILLE	85	70	91	69	78	-1	2.0	1.1	1.1	14.9	184	44.0	142	90	60	2	0	4	1	
SD ABERDEEN	83	61	93	53	72	-1	.2	-.3	.2	7.5	147	14.9	130	94	46	1	0	4	0	
SD HURON	84	64	99	58	74	-1	.4	-.1	.4	12.3	232	21.1	176	87	45	1	0	0	0	
SD RAPID CITY	84	59	92	55	72	-2	.2	-.2	.5	10.1	168	21.9	158	81	36	2	0	2	0	
SD SIOUX FALLS	84	64	96	56	74	-1	.6	0	.5	10.1	168	21.9	158	87	46	1	0	3	0	
TN CHATTANOOGA	86	67	92	63	77	-2	.5	-.6	.2	7.3	97	31.6	109	95	56	2	0	4	0	
TN KNOXVILLE	85	63	89	58	74	-4	1.8	.9	1.4	13.3	175	37.3	129	100	57	0	0	2	1	
TN MEMPHIS	89	72	93	66	81	-2	1.7	.8	1.4	5.8	81	32.3	101	87	54	5	0	2	1	
TN NASHVILLE	85	67	92	62	76	-4	1.8	.9	1.4	10.1	146	37.2	126	87	48	2	0	2	1	
TX ABILENE	92	70	96	66	81	-4	.6	-.1	.5	2.6	67	5.7	41	74	31	5	0	3	0	
TX AMARILLO	87	61	93	55	74	-5	.1	-.6	.1	7.7	135	10.8	97	78	35	2	0	1	0	
TX AUSTIN	93	71	99	67	82	-3	.7	.3	.6	3.2	71	9.6	55	85	41	5	0	2	2	
TX BEAUMONT	89	73	92	72	81	-2	1.1	-.2	.5	5.0	57	28.6	106	99	60	4	0	3	2	
TX BROWNSVILLE	94	73	95	72	84	-1	.1	-.3	.1	3.4	87	15.1	139	93	45	7	0	1	0	
TX CORPUS CHRISTI	93	73	95	72	83	-2	.1	-.3	.1	.4	9	9.3	67	86	45	6	0	1	0	
TX DEL RIO	93	72	97	67	82	-4	.9	.5	.7	1.3	41	5.6	64	80	37	6	0	2	1	
TX EL PASO	88	65	95	60	76	-6	.6	.3	.6	3.9	195	5.1	150	82	35	4	0	3	1	
TX FORT WORTH	88	65	95	60	76	-6	.6	.3	.6	3.9	195	5.1	150	82	35	4	0	3	1	
TX GALVESTON	89	78	95	77	84	0	1.3	.5	.6	2.7	40	13.2	68	84	56	3	0	4	1	
TX HOUSTON	91	71	94	69	81	-2	1.3	.6	1.2	5.5	80	19.8	80	88	46	6	0	3	1	
TX LUBBOCK	89	64	94	60	77	-3	.1	-.4	.1	4.9	102	5.9	60	81	37	4	0	1	0	
TX MIDLAND	92	66	96	63	79	-3	.1	-.3	.1	3.0	103	6.9	99	68	25	6	0	2	0	
TX SAN ANGELO	90	66	98	62	78	-7	.2	-.1	.2	3.4	113	7.7	80	90	35	5	0	3	0	
TX SAN ANTONIO	93	72	96	70	83	-2	.1	-.4	.1	1.5	33	9.6	61	81	17	6	0	0	0	
TX VICTORIA	93	74	95	73	84	-1	.8	.3	.4	3.1	48	13.5	70	91	48	5	0	4	0	
TX WACO	94	71	102	68	83	-4	1.8	1.5	.8	3.6	95	13.0	72	86	41	6	0	3	2	
TX WICHITA FALLS	95	69	98	66	82	-4	.1	-.3	.1	2.2	50	6.8	43	70	27	6	0	1	0	
UT BIANDING	87	57	90	49	72	-2	.2	-.1	.1	1.8	129	4.2	75	78	37	1	0	2	0	
UT CEDAR CITY	82	58	86	52	70	-5	1.7	1.4	1.0	2.8	200	7.3	178	93	41	0	0	5	1	
UT SALT LAKE CITY	91	69	94	67	80	-1	.9	-.7	.6	3.7	218	12.4	178	76	31	5	0	3	1	
VT BURLINGTON	78	59	86	54	69	-1	.5	-.3	.4	6.9	105	22.0	123	77	42	0	0	2	0	
VA NORFOLK	83	70	91	67	77	-2	1.5	.2	.5	7.4	95	33.7	136	91	60	1	0	5	1	
VA RICHMOND	83	68	92	63	76	-2	1.4	.2	.6	5.4	68	32.8	138	93	62	1	0	5	1	
VA ROANOKE	82	66	91	62	74	-2	2.1	1.3	1.9	6.5	103	25.7	114	95	59	1	0	4	1	
WA COLVILLE	90	56	98	45	73	4	.2	0	.1	6.2	310	16.6	177	76	35	5	0	2	0	
WA QUILLAYUTE	75	49	92	43	62	2	.1	-.4	.1	3.4	69	64.7	117	96	45	1	0	1	0	
WA SEATTLE-TACOMA	81	57	91	53	69	3	0	-.2	0	2.8	140	20.4	108	71	26	5	0	1	0	
WA SPOKANE	90	60	101	48	75	4	.1	-.1	.1	2.4	141	10.0	66	66	22	6	0	0	0	
WA YAKIMA	92	57	99	46	75	4	0	0	0	1.4	280	5.0	122	66	22	0	0	3	1	
WV BECKLEY	75	58	80	53	67	-3	1.1	-.1	.5	11.5	149	27.4	107	100	73	0	0	3	1	
WV CHARLESTON	83	63	91	60	73	-2	.6	-.7	.4	6.9	85	21.7	86	94	53	1	0	3	1	
WV HUNTINGTON	83	64	91	61	73	-2	1.0	0	.7	5.1	69	20.4	83	96	53	2	0	3	1	
WV PARKERSBURG	82	65	90	60	74	-1	.3	-.7	.2	2.6	30	16.2	60	89	48	1	0	4	0	
WI GREEN BAY	79	59	88	51	69	-1	.5	-.7	.4	8.6	146	17.6	114	94	56	0	0	3	0	
WI LA CROSSE	84	63	93	54	73	0	.1	-.7	.1	10.3	137	19.5	113	92	44	1	0	3	0	
WI MADISON	82	61	91	50	72	1	.1	-.8	.1	9.0	127	18.8	109	90	48	1	0	4	0	
WI MILWAUKEE	80	64	95	60	72	1	.2	-.6	.1	7.7	115	20.7	116	84	53	2	0	3	0	
WI WAUSAU	80	61	86	53	71	1	1.2	.2	.8	13.6	181	22.7	131	91	47	0	0	3	1	
WY CASPER	85	55	91	50	70	-2	.8	.6	.5	3.5	167	10.5	135	90	33	2	0	5	0	
WY CASPER	85	55	91	50	70	-2	.8	.6	.5	3.5	167	10.5	135	90	33	2	0	5	0	
WY CHEYENNE	80	55	87	51	67	-3	1.8	1.4	1.1	4.4	122	12.0	129	96	47	0	0	3	1	
WY LANDER	85	59	92	54	72	0	1.1	1.0	.8	2.7	150	9.5	107	73	36	1	0	4	1	
WY SHERIDAN	86	54	96	51	70	-1	.3	.2	.3	2.9	97	9.6	96	81	27	4	0	1	0	
PR SAN JUAN	90	77	93	75	84	1	.1	-.1	.1	8.4	95	18.8	75	83	55	5	0	3	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

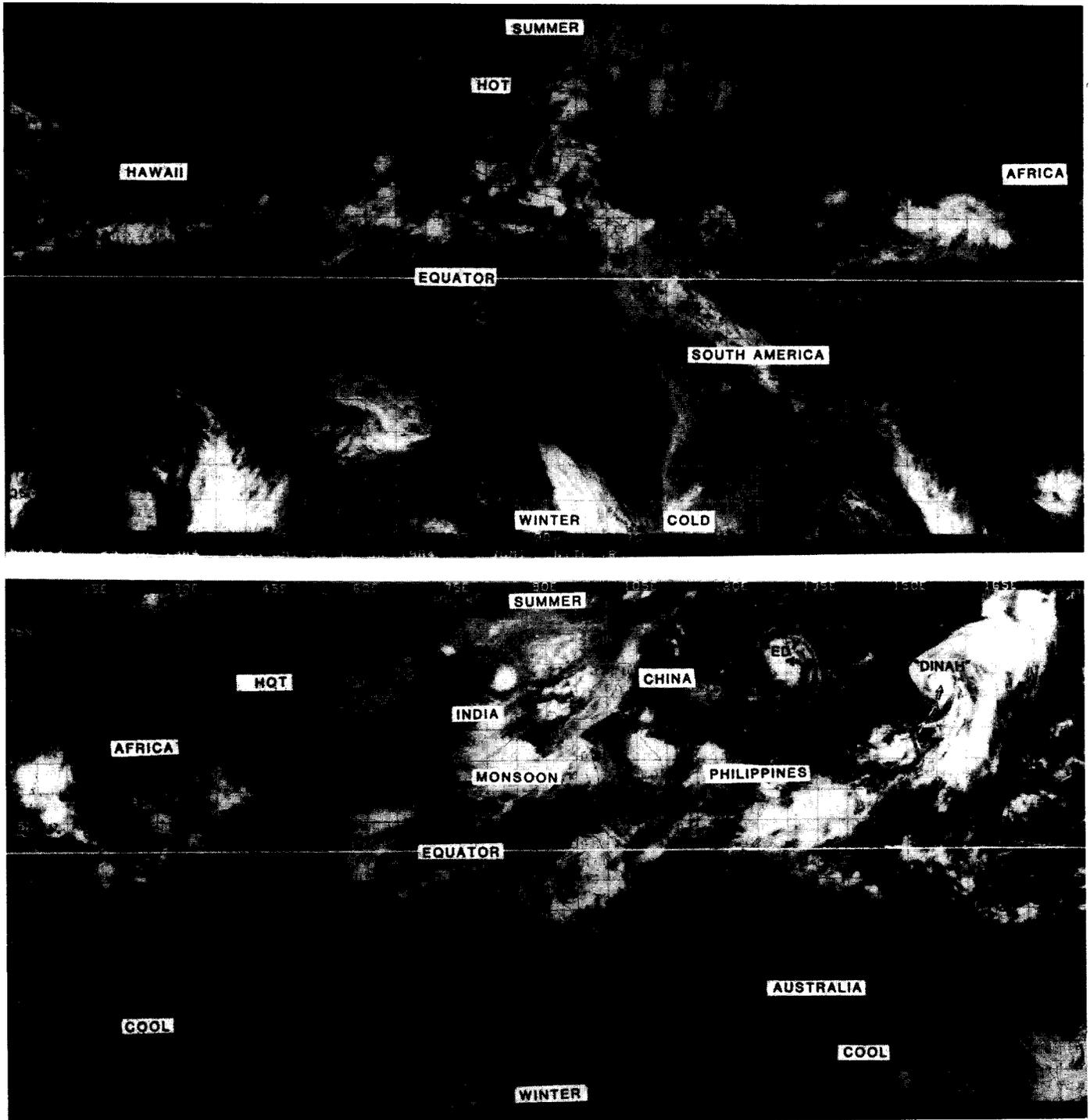
COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 7-28-1984
ACCUMULATIONS ARE FROM JANUARY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK DEV, WEEK DEV, CUM TOTAL, CUM DEV, CUM DEV, CUM DEV, CUM DEV. Rows list various cities and their corresponding weather data points.



TROPICAL WEATHER



National Agricultural Summary

July 23 to 29

HIGHLIGHTS: Cooler temperatures benefited most crops across much of the Nation, especially in California. Beneficial showers fell in portions of the Southwest, across the central Corn Belt, and from central Texas through the Southeast. However, additional precipitation would benefit crops from central Texas to the southern Corn Belt, the Southwest, and portions of the northern Plains. Soil moisture supplies were short to adequate in all areas, except portions of the southern Plains where very dry conditions were reported. Farmers had 4 to 7 days suitable for fieldwork in all areas of the Nation.

Winter wheat combining advanced to 81%, 2 points behind average. Spring wheat was nearly all headed and harvesting was 2% finished, compared to the 6% average. Corn was silking on 60% of the acreage and 8% was in the dough stage. Soybeans bloomed on 59% of the acreage; 20% of the crop had set pods. Cotton squaring reached 88% and the boll set was 52% complete. Sorghum heading was 33% complete, while rice heading was 32% finished. Two percent of the rice crop had been harvested. Pastures and ranges were in fair to mostly good condition. Scattered showers stimulated some growth of grasses in the Southwest. Livestock continued in fair to good condition.

SMALL GRAINS: Combining of winter wheat in the 15 major producing States was 81% complete, slightly behind last year's 82% and the 83% average. Progress ranged from 4% finished in Idaho to complete in Illinois, Indiana, Kansas, Missouri, Oklahoma, and Texas. Generally clear weather allowed South Dakota producers to combine 24% of their acreage during the week, while Colorado and Washington producers harvested 15%. In the Corn Belt farmers began plowing the harvested fields. Indiana growers had plowed 5% of the winter wheat land, the same as last year and the average.

Spring wheat was headed on virtually all of the acreage in the 5 major producing States. Harvesting gained momentum, advancing to 2% complete, compared to the 6% average. Progress ranged from none combined in Idaho and Montana to 10% finished in South Dakota where showers slowed progress.

CORN: Corn was in fair to mostly good condition. Showers replenished soil moisture across the central Corn Belt and from central Texas through the Southeast. However, supplies continued mostly short from the southern Plains through the southern Corn Belt. Corn was silking on 60% of the acreage in the 17 major producing States, 4 points behind normal. Eight percent of the acreage was in the dough stage of development, equal to last year's progress but behind the 13% average. Crop development lagged normal in all States, except Ohio where development was on schedule. Most fields in the South reached the dent stage and many were mature. Harvesting was 5% finished in Georgia and Louisiana.

SOYBEANS: Widespread showers benefited soybean development across much of the East. The crop continued in fair to mostly good condition with adequate moisture. In the 18 major producing States, 59% of the crop was blooming, equal to the average for this date. Twenty percent of the fields were setting pods, compared to the 22% average. Crop development was equal to or behind the average in all States except Arkansas and Kansas. Pod setting was 15 points behind normal in Ohio, 11 points behind in Tennessee, and 10 points behind in Louisiana.

SORGHUM: Sorghum continued in fair to good condition. However, hot, dry conditions in

portions of the southern Plains left growth at a standstill in some areas. In the 7 major producing States, 33% of the acreage was headed, 4 points behind normal. Harvesting was 41% complete, compared to 26% last year and the 37% average. Harvesting was interrupted by showers in the Texas Blacklands, but neared completion along the Coastal Bend and in the Rio Grande Valley.

COTTON: Cotton was in mostly good condition as producers sprayed to control increasing boll worm populations in most areas. However, hot, dry conditions caused some poor stands in Oklahoma and some acreage was being plowed under. The crop had squared on 88% of the acreage in the 14 major producing States, trailing the 92% average. Squaring was finished in Arizona, Arkansas, Mississippi, Missouri, South Carolina, and Tennessee. Stands were setting bolls on 52% of the acreage, compared with the 55% average. Progress ranged from 20% set in Oklahoma to 91% set in Arizona. Only 37% of the Texas cotton was setting bolls, well behind the normal pace of 45%. Harvesting was 3% finished in Texas, compared to 1% for both last year and the average.

OTHER CROPS: Peanuts continued pegging in the Southeast where stands were rated mostly good. Recent showers helped the Texas crop make good growth in many areas, however, irrigation continued heavy.

Rice was in mostly good condition. Thirty-two percent of the crop was headed in the 5 major producing States, 6 points behind the average. Harvesting was 7% complete in Louisiana, trailing the 9% average. Texas producers had harvested 5%; normally 22% is harvested by this date. Intermittent showers in Texas slowed progress early in the week.

Tobacco harvesting was 42% complete in Georgia, while South Carolina growers were 76% finished. The flue-cured harvest was 14% complete in North Carolina and 4% finished in Virginia. Kentucky growers irrigated some fields; 21% of the burley crop was blooming, compared with 14% last year.

VEGETABLES: Scattered showers slowed vegetable harvesting across many of the northern producing areas while cool temperatures limited growth. Showers delayed land preparation and planting of fall vegetables in most regions. Early planted sweet corn was picked in New York. Cooler temperatures replaced excessive heat in California, allowing normal development of vegetable crops. Processing tomato harvesting was in full swing with many processors enforcing quotas.

FRUITS AND NUTS: Peach picking moved into the Northeast. Georgia growers had picked 90% of their crop while South Carolina producers were 76% finished. The sweet cherry harvest was 85% complete in Michigan and finished in New York. Tart cherry picking was 60% and 50% finished in Michigan and New York, respectively. Florida's citrus groves were in very good condition. Caretakers were busy pruning and removing previously frozen trees. California producers continued spraying and picked large volumes of various fruits. Stone fruit harvesting was past its peak and beginning to wind down.

PASTURES AND LIVESTOCK: Rainfall improved soil moisture in portions of the Southwest. Grasses began greening and stock water supplies improved in some areas. Showers provided little benefit to ranges in central and west Texas. Cattle were moved to the Texas Plains where grass was available. Elsewhere in the Nation pastures and livestock were rated fair to mostly good.

CROP PROGRESS

FOR WEEK ENDING JULY 29

	WINTER WHEAT % HARVESTED		
	1984	1983	AVG.
CALIF	99	99	98
COLO	77	70	84
IDAHO	4	4	4
ILL	100	100	100
IND	100	100	99
KANS	100	100	100
MO	100	100	100
MONT	10	10	5
NEBR	90	75	90
OHIO	97	99	98
OKLA	100	100	100
OREG	17	46	30
S DAK	51	63	72
TEX	100	100	100
WASH	17	35	29
15 STATES	81	82	83

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

	COTTON % SQUARING		
	1984	1983	AVG.
ALA	99	95	97
ARIZ	100	100	100
ARK	100	100	100
CALIF	99	95	98
GA	98	99	100
LA	98	90	97
MISS	100	97	99
MO	100	82	99
N MEX	99	95	98
N C	91	88	90
OKLA	60	45	65
S C	100	100	100
TENN	100	94	95
TEX	80	88	88
14 STATES	88	90	92

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

	COTTON % SETTING BOLLS		
	1984	1983	AVG.
ALA	73	53	67
ARIZ	91	97	96
ARK	86	75	86
CALIF	75	50	59
GA	75	87	94
LA	71	54	79
MISS	61	46	64
MO	76	18	60
N MEX	72	62	69
N C	70	58	67
OKLA	20	10	15
S C	82	98	94
TENN	45	40	57
TEX	37	36	45
14 STATES	52	45	55

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

	SPRING WHEAT % HARVESTED		
	1984	1983	AVG.
IDAHO	0	0	0
MINN	1	2	4
MONT	0	0	0
N D	1	1	2
S DAK	10	12	33
5 STATES	2	2	6

THESE 5 STATES PRODUCED 94% OF THE 1983 SPRING WHEAT CROP.

	RICE % HEADED		
	1984	1983	AVG.
ARK	7	7	17
CALIF	4	2	15
LA	68	54	66
MISS	20	15	25
TEX	97	94	98
5 STATES	32	29	38

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

	RICE % HARVESTED		
	1984	1983	AVG.
ARK	0	0	0
CALIF	0	0	0
LA	7	0	9
MISS	0	0	0
TEX	5	5	22
5 STATES	2	1	5

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

	SORGHUM % HEADED		
	1984	1983	AVG.
COLO	10	7	11
KANS	10	5	10
MO	51	39	37
NEBR	10	10	25
OKLA	35	15	30
S DAK	9	12	16
TEX	66	70	73
7 STATES	33	31	37

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

	CORN % SILKING		
	1984	1983	AVG.
COLO	41	19	25
GA	98	100	99
ILL	84	79	86
IND	70	60	70
IOWA	64	69	70
KANS	70	40	55
KY	68	40	70
MICH	50	40	54
MINN	48	31	48
MO	60	61	70
NEBR	55	45	60
N C	92	94	93
OHIO	50	55	70
PA	0	0	0
S DAK	21	26	39
VA	69	74	81
WIS	40	30	47
17 STATES	60	54	64

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

	CORN % DOUGH		
	1984	1983	AVG.
COLO	0	0	0
GA	92	91	96
ILL	16	13	27
IND	5	2	15
IOWA	0	0	2
KANS	5	4	15
KY	6	1	7
MICH	1	1	2
MINN	0	0	0
MO	19	20	30
NEBR	0	1	6
N C	65	71	72
OHIO	10	10	10
PA	0	0	0
S DAK	0	0	0
VA	32	38	43
WIS	0	0	0
17 STATES	8	8	13

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

	SOYBEANS % BLOOMING		
	1984	1983	AVG.
ALA	47	45	46
ARK	23	16	25
GA	43	48	55
ILL	77	75	76
IND	75	70	70
IOWA	78	80	75
KANS	50	30	35
KY	36	21	39
LA	50	38	48
MICH	50	55	57
MINN	75	77	76
MISS	50	30	52
MO	48	52	45
NEBR	70	80	75
N C	25	24	29
OHIO	70	65	70
S C	13	24	33
TENN	40	33	43
18 STATES	59	56	59

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

	SOYBEANS % SETTING PODS		
	1984	1983	AVG.
ALA	18	20	20
ARK	15	8	13
GA	14	16	22
ILL	33	29	35
IND	15	10	15
IOWA	37	35	37
KANS	15	10	10
KY	8	3	13
LA	24	16	25
MICH	7	10	10
MINN	14	11	14
MISS	9	3	16
MO	14	17	17
NEBR	15	25	25
N C	6	6	6
OHIO	15	15	30
S C	3	5	5
TENN	7	6	18
18 STATES	20	17	22

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures 1 to 5° below normal. Rainfall 0.26 to 3.37 in. Most rainfall occurred over the weekend.

Soil moisture short to adequate. Fieldwork: 5.8 days. Corn silked 99%, 94% 1983. Corn dented 70%, 55% 1983, 68% average. Soybeans blooming 47%, 45% 1983, 46% average. Soybeans setting pods 18%, 20% 1983, 20% average. Cotton squaring 99%, 95% 1983, 97% average. Cotton setting bolls 73%, 53% 1983, 67% average. Peanuts pegging 94%, 90% 1983. Activities: Cultivating late planted cotton and soybeans, insect control on cotton, soybeans, and vegetables; fungicide applications on peanuts; harvesting vegetables and peaches; routine care of livestock and poultry. Conditions: Corn and livestock fair to good; soybeans, cotton, peanuts, and sorghum fair to mostly good; pastures mostly fair to good.

ALASKA: Generally fair, early week, clouds and rain, midweek and clearing late week. Temperatures near normal, rainfall amounts moderate to heavy especially in the north.

Rain, cloudy, damp weather for third week in a row limited field activity throughout Railbelt. Farmers had up to 4.0 days available. Hay harvest virtually complete Tanana Valley, 80% Matanuska Valley, up to 50% Kenai Peninsula. Second crop hay prospects optimistic; brome heights ranged 6 to 30 in. Lodging to small grains, many areas; conditions still rated good. Barley grain averaged 60% headed, 40% soft dough stage. Potatoes 40 to 90% blooming, Tanana; over 70% Matanuska. Moisture supplies adequate to surplus.

ARIZONA: Numerous heavy showers, thunderstorms caused localized flooding, wind damage. Rainfall totals mostly 0.50 to 2.00 in.; local amounts 3.00 in. Phoenix received 2.88 in.; 2.75 in. fell night of 27th, early morning of 28th. Maximum temperatures well below normal, as in previous week; mostly 1 to 7° below seasonal normals.

Cotton progress good, with increased fruiting rate. All acreage squaring. Setting bolls 91%, 97% last year, 96% average. Cotton fruiting did some "catching up", closer to previous year and average than week earlier. Some localized damage by hail. Rain hampered cultivation, weed control some areas. Corn condition above average, ears developing normally. Sorghum mostly average, heads turning color. Alfalfa hay harvest active, some delays by rain. Some cut alfalfa exposed to rain, varying degrees damage. Supplies increasing, growers stacking much of current production. Watermelon harvest winding down. Dry onion harvest expected to start by August 4. First lemons of 1984-85 season picked. Citrus groves good condition, new crop fruit development good. July rainfall improved range, past conditions. Improved soil moisture greened-up feed grasses, stock water supplies accumulating northern areas. Soil moisture, range near seasonal averages in mid-elevations, desert areas. Runoff increased stock water supplies. Cattle fair to good condition. Some light insect damage reported to range areas.

ARKANSAS: Near normal temperatures first part of week. Unseasonable cool temperatures latter part. High of 99°, low 53°. Scattered

showers early in week. Heavy thunderstorms associated with cold front passage latter part of week. Most rainfall 4.51 in. Least amount 0 in.

Soil moisture short statewide. Days favorable for fieldwork: 6.5. Rate of crop growth, moderate to slow. Cotton condition good; squaring 100%, 100% 1983, 100% average; setting bolls 86%, 75% 1983, 86% average. Rice good condition; headed 7%, 7% 1983, 9% average; harvested none, same last year and normal. Soybeans good to fair condition; blooming 23%, 16% 1983, 25% average; setting pods 15%, 8% 1983, 13% average. Corn good condition, close to harvest. Sorghum good to fair condition, expected harvest mid-August. Cattle maintaining weight. Some supplemental feeding of hay.

CALIFORNIA: Cooler! Weekly mean temperatures were sharply lower over much of the State. The Sacramento and San Joaquin Valleys and the southeast interior all averaged 4° cooler than normal. Only the south coast and Cascade-Sierra were warmer than normal. The cooler temperatures were produced by an upper level trough that also brought moist, tropical air over the southeast lower desert and portions of the high desert. Weekly rainfall total ranged from 0.75 in. to as much as 2.33 in. the latter value nearly a season's total.

Cotton 99% squared, 95% last year, 98% average; 75% setting bolls, 50% last year, 59% average. Insect control and irrigation continue active. Crop development remains good. Rice 4% heading, 2% last year, 15% average; 0% harvested this year, last year, and average. Wheat 99% harvested, 99% last year, 98% average. Recent hot weather has slowed dry bean bloom set. Crop progressing fairly well, most double-cropped plantings complete. Some early-planted blackeyes ready for harvest. Milo showing good growth, early fields nearing maturity. Early-planted corn nearing maturity, most double-cropped plantings complete. Some safflower being harvested. Irrigation, worm and mildew treatments continue in sugarbeets. Alfalfa cutting very active. Gravenstein apple harvest started last week Sebastopol area. Cherry orchards pruned. Date orchards bagged for protection, dusted for mites. Grapes maturing, coloring with some sunburn. Some growers applying fungicides in areas with recent rains, high humidity. Harvest of Flame Seedless table grapes winding down. Quality of Thompson Seedless grapes fair to good, some reports low sugar. Cling peach harvest continues, large sizes, good quality. Harvesting of stone fruits past peak, beginning to wind down. Sizes generally small, some later varieties sizing better. About 70% of Freestone peaches harvested. Nectarine harvest 74% complete. Plum harvest 78% complete. Pears harvested mainly in Sacramento, San Joaquin Valleys. Prunes coloring, maturing rapidly. Summer grapefruit harvest continues, good quality, demand. New citrus crops continue normal development. Early variety almonds at hull split stage. Growers spraying for navel orangeworm, mites. Pistachios progressing well. Walnuts sizing well, some showing sunburn. Broccoli moderate supply central coast. Cantaloupe harvest active, good quality. Some vines damaged. Carrot harvest active Salinas

Valley. Cauliflower fairly light supply central coast. Honeydew, miscellaneous melon harvests active San Joaquin Valley, increased Sacramento Valley. Lettuce moderate supply central coast. Green pepper harvest active San Joaquin Valley, light central coast. Market tomato harvest active central, north San Joaquin Valley and coastal districts. Processing tomato harvest full swing San Joaquin, Sacramento Valley. Many processors enforcing quotas. Rangeland grass nutrients southern districts reduced recent showers. Fire danger continues high most districts. Cooler weather increased milk production. Cattle low foothill ranges requiring supplemental feeding.

COLORADO: A moist, stationary air mass during entire period caused heavy spotty rain each day over the State. The river basins collected nearly 1.00 in. of precipitation. Temperatures were mostly within 2° of normal.

Six days of fieldwork have allowed the winter wheat harvest to move to 77% complete; 1983 70%; average 84%; 89% of the crop has ripened; 1983 90%; average 93%. Corn 41% silked; 1983 19%; normal 25%. Sorghum 10% headed; 1983 7%; average 11%. Barley has 67% turning color; 1983 55%; normal 58%; 38% ripe; 1983 29%; average 36%. Harvest 21% complete; 1983 14%; average 26%. Spring wheat harvest 6% complete; 1983 4%; normal 10%. Dry beans 36% flowering; 1983 31%; average 40%. Alfalfa 2nd cutting 39% complete; 1983 28%; average 40%. Summer potato harvest just starting at 2%.

FLORIDA: Summer weather with only day to day fluctuation in aerial coverage and intensity of daily showers, thunderstorm activity. Rainfall averaged slightly above normal with 2.00 to 3.00 in. statewide. Temperatures averaged 2° below normal, north but near normal south.

Frequent showers providing adequate to surplus soil moisture. Harvest curtailed by rains. Cultivating late crops delayed by wet fields. Corn maturing rapidly. Harvest gaining. Soybeans making good growth; early fields blooming. Peanuts growing well; pegging active. Digging green peanuts underway. Cotton good condition. Tobacco harvest continues active but nearing completion some areas. Hay making interrupted by frequent rains. Sugarcane continues to make good progress. Pastures remained in mostly good to excellent condition. Some slight decreased in growth apparent however, in areas with a surplus of moisture. Cattle continued in very good condition as grazing is sufficient most areas. Growing conditions in citrus groves, hot, moist, generally good. Caretakers busy with major pruning in frozen areas. Some total pushing and burning of frozen trees. New crop fruit very good condition. Normal summer weather, hot days, warm nights afternoon thunderstorms in vegetable areas. Land preparation for fall vegetables continues active; some light plantings getting underway. Limited movement summer vegetables to local markets continues.

GEORGIA: Week averaged cool and wet. Rainfall totals between 2.00 and 4.00 in. over much of State. Extreme totals ranged from 6.87 at Calhoun to 0.19 at Brunswick. Greatest 24-hour amount 2.60 at Plains ending morning of 29th. Rain fell on about 5 days in north and 3 days elsewhere. Temperatures averaged in low 70's mountains, mid 70's north, upper 70's central and south and near 80 over east. Extremes ranged from 96 and 59. Most locations had maximums in 90's. Temperatures averaged 2 to 4° below normal except over east where averages were 1° below normal.

Soil moisture 22% surplus, 70% adequate, 7% short, same as last week. Average days suitable for fieldwork: 3.9. Rain continued to slow field activities. Main activities spraying for insects, disease and weeds, cutting hay as weather permitted. Corn 98% silked, 100% last year, 99% average; dough 92%, 91% last year, average 96%; dent 71%, 73% last year, 84% average; 39% mature, 42% last year, average 60%; 5% harvested, 3% last year, 12% average; condition 9% excellent, 54% good, 32% fair, 4% poor. Cotton 98% squaring, 99% last year, average 100%; 75% setting bolls, 87% last year, average 94%; condition 11% excellent, 77% good, 10% fair. Grain sorghum 99% planted this year, last year and average; condition 12% excellent, 73% good, 14% fair. Peanuts blooming 100% this year and average; 99% last year, 99% pegging, 96% last year, average 98%; condition 20% excellent, 72% good, 6% fair. Soybeans 43% blooming, 48% last year, average 55%; 14% setting pods, 16% last year, average 22%; condition 13% excellent, 74% good, 10% fair. Tobacco 42% harvested, 50% last year, average 60%; condition 84% good and 10% fair. Watermelons 79% harvested, 80% last year, average 86%; condition 55% good, 39% fair, 5% poor. Apples 21% picked this year and average, 16% last year; condition 11% excellent, 68% good, 19% fair. Peaches 90% picked, 97% last year, average 93%; condition 12% excellent, 68% good, 20% fair. Hay condition 14% excellent, 68% good, 17% fair. Pastures 17% excellent, 70% good, 11% fair. Cattle 10% excellent, 77% good, 12% fair. Hogs 8% excellent, 80% good, 11% fair.

HAWAII: Dry conditions continued for most crop growing areas of the State. Rainfall was light and restricted to areas that have been receiving rainfall for the past few weeks. Temperatures reached afternoon highs close to ninety degrees.

Water conservation is becoming a widespread concern in the face of dwindling reservoir supplies and the prospect of a prolonged dry spell. Most crops, however, currently in good to fair condition with irrigation and spraying at heavy rates. Supplies of most vegetables will be moderate to light. Head cabbage production will remain heavy and expected to increase next week. Papaya production on a seasonal increase and forecast to continue increasing before peaking in late September. Banana production steady at a light to moderate volume.

IDAHO: A southern flow of air across the State brought warm temperatures and scattered rainfall. Temperatures averaged near normal to slightly above normal statewide. Precipitation varied across the State with the eastern and south central portions receiving above normal amounts and the northern and southwestern portions recording below normal rainfall.

Crops made good progress as 5.7 days were suitable for fieldwork. Winter wheat stood at 4% harvested, the same as last year and average. Spring wheat progressed to 63% turning color versus 65% in 1983. Spring wheat harvest had not begun yet. Spring barley advanced to 60% turning color compared to 65% last year. The second cutting of alfalfa hay reached 29% harvested versus 13% in 1983 and 20% average. The potato crop progressed to 79% closing rows compared to 80% last year. With the exception of the northern portion of the State, soil moisture was reported to be generally in good supply.

ILLINOIS: Temperatures normal to 4° below normal. Precipitation 0.00 to 1.99 in.

Soil moisture 52% adequate, 48% short. Corn silked 84%, last year 79%, average 86%; dough 16%, last year 13%, average 27%. Corn condition 35% excellent, 49% good, 13% fair, 3% poor. Soybeans blooming 77%, last year 75%, average 76%; setting pods 33%, last year 29%, average 35%. Soybean condition 15% excellent, 58% good, 25% fair, 2% poor. Winter wheat harvested 100%, last year 100%, average 100%. Oats ripe 93%, last year 91%, average 94%; harvested 60%, last year 69%, average 65%. Alfalfa second crop cut 85%, last year 89%, average 86%; third crop cut 10%, last year 10%, average 8%. Alfalfa condition 20% excellent, 62% good, 16% fair, 2% poor. Pasture condition 8% excellent, 47% good, 35% fair, 10% poor. Days suitable for fieldwork: 5.5.

INDIANA: Southwest temperatures near normal and precipitation negligible. Elsewhere temperatures 2 to 4° below normal. Highs from upper 70's to mid 80's. Minimum readings in upper 40's. Soil temperatures at a depth of four inches peaked at highs in the upper 80's to mid 90's but dipped to lows in the mid 60's under bare ground exposure. Under sod the range was narrower from lower 80's to upper 60's and low 70's. Precipitation near 3.00 in. or more northeast and west central but less than 0.10 in. in southwest.

Fieldwork averaged 4.3 days. Topsoil moisture adequate, subsoil moisture short to mostly adequate. Wheat 100% combined, 1983 100%, average 99%. Wheat land 5% plowed, 1983 5%, average 5%. Oats 40% combined, 1983 70%, average 70%. Rye 85% combined, 1983 90%, average 95%. Corn condition fair to mostly good. Corn 70% in silk, 1983 60%, average 70%. Corn 5% in dough, 1983 2%, average 15%. Soybean condition fair to mostly good. Soybeans 75% in bloom, 1983 70%, average 70%. Soybeans 15% podding, 1983 10%, average 15%. Alfalfa 85% cut twice, 1983 85%, average 80%. Pastures fair.

IOWA: Relatively mid week. Moderate rainfall.

Days suitable for fieldwork: 5.2. Corn 86% tasseling; 88% last year; 88% normal. Corn crop 34% excellent, 52% good, 11% fair, 3% poor to very poor. Corn acreage showing 75% or more silking, 64% complete, 69% last year, 70% normal. Corn in or past milk stage 12%; 5% last year, 17% normal. Soybean crop condition 19% excellent, 59% good, 19% fair, 3% poor to very poor. Soybean acreage bloomed 78% complete; 80% last year; 75% normal. Soybean acreage setting pods 37%; last year 35%, normal 37%. Oat crop condition 21% excellent, 58% good, 15% fair, 6% poor to very poor. Oat acreage harvested 55% complete; 51% last year; 69% normal. Harvesting winter wheat crop 94% complete, 89% last year, 92% normal. Second crop of alfalfa 66% complete, 78% last year, 80% normal. Second crop clover hay harvested 34%, last year 48%, normal 52%. Hay crop condition, 29% excellent, 57% good, 10% fair, 4% poor to very poor. Topsoil moisture conditions 10% surplus, 78% adequate, 12% short. Subsoil moisture conditions 7% surplus, 90% adequate, 3% short. Livestock generally good to excellent condition. Pasture condition 20% excellent, 55% good, 21% fair and 4% poor to very poor.

KANSAS: Temperatures averaged at or slightly below normal, ranging 76° northwest to 81° south central and 78 to 80° elsewhere. Precipitation very sparse across State. Only southwest district received any appreciable amounts, ranging from trace to 1.25 in. some localities.

Wheat 100% harvested, 100% last year, 100% average. Sorghum 10% headed, 5% last year, 10% average. Light to moderate greenbug and chinch bug infestation. Corn 70% silked, 40% last year, 55% average. Corn 5% dough, 4% last year, 15% average. Light to moderate levels European corn borer. Soybeans 50% bloomed, 30% last year, 35% average. Approximately 15% setting pods, 10% last year, 10% average. Topsoil moisture short, subsoil adequate. Pasture and rangeland deteriorating. Days suitable for fieldwork: 7.0.

KENTUCKY: Scattered thunderstorms moved over State midweek. Amounts averaged 0.50 to 1.00 in. with localized heavier amounts of 2.00 to 3.00 in. Isolated spots no measurable rainfall. Mean temperatures low to mid 70's, 2 to 3° below normal. Heaviest rainfall occurred over eastern half of State. Rainfall scattered in west averaging about 0.50 in.

Soil moisture 40% adequate, 60% short. Days favorable: 5.1. Corn mostly good; 68% silked or beyond, 40% last year, 70% average; 6% dough stage or beyond, 1% last year, average 7%. Soybeans mostly good; 36% blooming or beyond, 21% year ago, average 39%; pods set 8% of acreage, 3% last year, average 13%. Tobacco mostly good. Some growers irrigated last week. Burley 21% blooming, 14% last year. Some topping accomplished. Pastures mostly fair.

LOUISIANA: Rainfall amounts ranged from 0.07 to 2.97 in. Temperatures averaged from 1 to 3° below normal. High 97°, low 62°.

Soil moisture ranged from short in the northwest to surplus in the southeast. Days suitable for fieldwork: 5.0. Activities included harvesting corn, rice, vegetables, and peaches, and insecticide and fungicide application. Rice headed 68% 1984, 54% 1983, 66% average; ripe 15% 1984, 4% 1983, 17% average; harvested 7% 1984, 0% 1983, 9% average; condition good. Corn dough stage 92% 1984, 82% 1983, 90% average; mature 48% 1984, 33% 1983, 52% average; harvested 5% 1984, 7% 1983, 17% average; condition good. Cotton squaring 98% 1984, 90% 1983, 97% average; setting bolls 71% 1984, 54% 1983, 79% average; condition fair to good. Soybeans blooming 50% 1984, 38% 1983, 48% average; setting pods 24% 1984, 16% 1983, 25% average; condition good. Sorghum headed 90% 1984, 78% 1983, 80% average; turning color 52% 1984, 29% 1983, 40% average; ripe 5% 1984, 1% 1983, 8% average; condition good. Sweetpotatoes harvested 4% 1984, 0% 1983, 4% average; condition good. Sugarcane condition fair. Vegetable condition fair. Peaches harvested 86% 1984, 82% 1983, 90% average. Pasture condition fair to good. Livestock condition good.

MARYLAND AND DELAWARE: Maryland: The week was cool and wet. Temperatures were mostly 1 to 3° below normal. Showers and thundershowers produced an uneven distribution of rain but totals ranged mostly from 1.00 to 3.00 in.

Farmers worked 4.7 days. Topsoil and subsoil moisture adequate. Rye and wheat harvests were completed. Oats now 80% harvested; 100% 1983. Field corn 70% silked, 12% dough, 5% dent; 1983 60% silked, 40% dough, and 0% dented. Soybeans 25% bloomed, 10% podded; 1983 30% bloomed, 5% podded. Tobacco 30% bloomed, 10% topped. Snap beans 80% harvested; 1983 95%. Sweet corn 30% picked; 40% 1983. Potato harvest 20% complete; 40% last year. Cantaloupe 15% harvested; 40% 1983. Tomatoes 25% harvest; last year 40%. Cucumbers 50% picked; 65% last year. Peaches 25% picked; 1983 25%. Second cutting alfalfa

hay 90% complete; equal to 1983. Second cutting of other hay 70%; 1983 90% cut twice. Third cutting of alfalfa hay 15%; equal to 1983. Other hay cut 3 times 5% completed; 1983 5%.

Delaware: Temperatures averaged 1° below normal. Rainfall averaged 1.25 in.

Intermittent showers delayed fieldwork only temporarily and farmers were able to work an average of 6.0 days in their fields. Topsoil and subsoil moisture were adequate. Wheat and rye now all harvested. Corn silked 67%; 75% 1983, corn in dough 8%; 1983 8%. Soybeans bloomed 23%; last year 15%. Vegetable harvest behind 1983's progress for sweet corn, tomatoes, watermelons, and cucumbers but ahead of 1983 for snap beans, cantaloupe, and potatoes. Alfalfa hay 45% cut three times; 1983 15%. Peaches 17% picked; 1983 40% picked.

MICHIGAN: This was the second consecutive week with temperatures averaging just below normal. Average temperature were 2° below normal across the State. Precipitation was light. The drought over the southern areas was partially alleviated.

Dry weather continues to stress crops throughout the State. Scattered showers provided limited relief in southern counties. Statewide 6.0 days suitable for fieldwork. Winter wheat 70% harvested, 75% last year, 65% average. Oats 75% yellowing, 80% last year, 85% average. Corn 50% silked, 40% last year, 54% average. Soybeans 50% blooming, 55% last year, 57% average. Dry beans 35% blooming, 60% last year, 68% average. Sweet cherries 85% harvested, 85% last year, 87% average. Tart cherries 60% harvested, 70% last year, 69% average. All hay, second cut 50% complete, 50% last year, 44% average. Vegetable crops progressing well despite cool dry conditions.

MINNESOTA: Another dry week. Temperatures averaged near normal to 1° below normal. High: 99°, low: 44°. Precipitation averaged 0.20 to 0.72 in. below normal. Greatest weekly total: 1.51 in.

The area of short topsoil moisture has grown but slightly below normal temperatures have minimized stress to crops so far. Small grain harvest proceeded under good field conditions. Delayed row crop maturity was expected in southwest area where stands were short and uneven. Days suitable for fieldwork: 5.8. Topsoil moisture: 11% very short, 41% short, 48% adequate. Turning ripe: Spring wheat 75%, 1983 77%, normal 65%; oats 92%, 1983 88%, normal 79%; barley 92%, 1983 90%, normal 78%. Harvested: Spring wheat 1%, 1983 2%, normal 4%; oats 10%, 1983 7%, normal 11%; barley 14%, 1983 12%, normal 14%; winter wheat 38%, 1983 21%, normal 22%. Tasseling: Field corn 72%, 1983 64%, normal 72%. In milk-: Field corn 3%, 1983 3%, normal 5%. Blooming: Soybeans 75%, 1983 77%, normal 76%; sunflowers 27%, 1983 20%, normal 32%. Setting pods: Soybeans 14%, 1983 11%, normal 14%.

MISSISSIPPI: Average temperatures 3° below normal, extremes 58 and 95°. Scattered thundershowers mostly in the southeast. Greatest 24-hour rainfall 3.75 in.

Soil moisture adequate to short. Fieldwork 5.4 days suitable, 5.9 1983, 5.1 average. Main activities: Baling hay, insect control and weed control. Cotton condition good; 100% squaring, 97% 1983, 99% average; 90% blooming, 76% 1983, 89% average; 61% setting bolls, 46% 1983, 64% average. Soybeans good to fair; 50% blooming, 30% 1983, 52% average; 9% podding, 3% 1983, 16% average. Rice good; 20% headed, 15% 1983, 25% average; 0% harvested 1984, 1983 and average.

Corn fair; 51% dented, 18% 1983, 1% harvested, 0% 1983 and average. Sorghum good to fair; 65% headed, 44% 1983. Peaches good; 74% harvested. Hay and watermelon both 56% harvested; sorghum silage 9% harvested; corn silage 21% harvested. Pasture condition fair.

MISSOURI: Temperatures averaged about 1 to 2° below normal. A cold front passage at midweek cooled temperatures from the 90's to the 80's. Showers associated with the front fell mostly in the northeast and south sections. Rain averaged 0.25 in. or less in the northeast and 0.50 in. or less in the south.

Days suitable for fieldwork: 6.2. Soybeans blooming 48%, 52% last year, 45% normal. Soybeans setting pods 14%, 17% last year and normal. Condition of soybeans 8% excellent, 49% good, 42% fair, 1% poor. Corn tasseled 75%, 78% last year, 83% normal. Silking 60%, 61% 1983, 70% normal. Dough stage 19%, 20% last year, 30% normal. Condition 7% excellent, 61% good, 30% fair, 2% poor. Grain sorghum headed 51%, 39% last year, 37% normal. Condition 10% excellent, 48% good, 40% fair, 2% poor. Cotton squaring 100%, 82% last year, 99% normal. Cotton setting bolls 76%, 18% last year, 60% normal. Condition 11% excellent, 67% good, 22% fair, 0% poor. Oats 95% harvested, 95% last year, 85% normal. Alfalfa hay 2nd cutting 89%, 93% last year, 88% normal. Alfalfa hay 3rd cutting 23%, 25% last year, 21% normal. Other hay harvested 90%, 92% last year. Condition of pasture 1% excellent, 30% good, 47% fair, 22% poor. Condition of topsoil moisture supply 2% surplus, 16% adequate, 82% short.

MONTANA: Temperatures were generally 1 to 3° above normal. Precipitation ranged from none to 0.30 in.

Topsoil moisture short. Subsoil moisture short except in southwest and south central. Fieldwork, days suitable: 6.6. Winter wheat fair condition north central, central and northeast; good elsewhere. Spring grains poor north central; good southwest and south central; fair elsewhere. Sugarbeets good condition. Percent heading or beyond compared with last year and average: Winter wheat headed 5, 5, 10; winter wheat turning 35, 60, 60; winter wheat ripe 50, 25, 25; winter wheat harvested 10, 10, 5; spring wheat headed 40, 35, 50; spring wheat turning 50, 55, 40; spring wheat ripe 10, 5, 5; barley headed 35, 40, 50; barley turning 50, 50, 40; barley ripe 15, 5, 5; oats headed 35, 45, 50; oats turning 55, 50, 40; oats ripe 10, 5, 5. Alfalfa hay first cutting essentially complete. Range feed and stock water supplies short in north central and northeast.

NEBRASKA: Temperatures normal Panhandle, 2° below normal remainder of State. Widespread showers midweek over northern two-thirds of State. Ranged from a trace south to 2.00 to 3.00 in. north.

Winter wheat harvested 90%, 75% last year, 90% average. Corn condition mostly good; 55% silking, 45% last year, 60% average. No corn in dough, 1% last year, 6% average. Sorghum condition rated mostly good to fair; 10% headed, 10% last year, 25% average. Soybeans mostly good to fair; 70% blooming, 80% last year, 75% average; 10% headed, 25% last year and 25% average. Alfalfa condition mostly good to fair, second cutting 65%, 75% last year, 85% average.

NEVADA: Persistent summer monsoon conditions continued throughout week. Tropical air fueled thunderstorms especially southern and central sections. Flash flooding occurred extreme south with urban areas reporting deaths and

considerable property damage. Over 3.00 in. rain fell some southern areas with considerable cloudiness and precipitation, temperatures in extreme south averaged well below normal. Elsewhere temperatures close to midsummer normals.

Alfalfa hay harvest at standstill extreme south due heavy rains. Better progress northern half. Potatoes showing excellent growth.

NEW ENGLAND: Average precipitation ranged from between 0.25 and 0.50 in. across the region, except over Cape Cod, where nearly 1.00 in. was reported. Average temperatures ranged through the 60's except for readings in the lower 70's over southern interior sections.

Soil moisture and available grazing adequate. Days available for fieldwork: 6.0. Fieldwork progress 5.0 days behind normal. Field corn, sweet corn and oats condition good. Second cut hay 30% harvested, 50% last year, 40% normal, conditions fair to good. Vegetable harvest in full swing throughout the south.

NEW JERSEY: Temperatures averaged 6° below normal. Extremes were 44° on the 26th and 91° on the 25th. Weekly rainfall averaged 1.18 in. north, 1.83 in. central and 0.21 in. south. The heaviest 24-hour total was 2.06 in. on the 26th to 27th. Estimated soil moisture, in percent of field capacity, averaged 92% north, 84% central and 68% south. Four inch soil temperatures averaged 71° north, 74° central and 74° south.

Fieldwork: 4.8 days suitable. Summer vegetables moving to market in good volume. Irish potato digging becoming general. Blueberry harvest active. Peach harvest increasing but light crop expected. Summer apple harvest moderate to good. Frequent rain continues to disrupt hay making. Most field corn and soybean fields have made good growth but many are weedy. Fall vegetable planting continues.

NEW MEXICO: Average temperatures little below normal most locations. Minimum temperature: 42°; northern mountains. Maximum temperature: 94°; southeastern plains, northeastern plains, central valley, southern desert. Scattered thundershowers most days, more numerous over south and west. Rainfall totals quite variable; few locations measured between 0.50 to 1.75 in.

Minimal amount of wheat standing. Ground in good shape for fall seeding. Feed grain crops good to excellent. Weeds abundant in sorghum, cotton fields. Southeast 50% complete 3rd cutting alfalfa, north continues 2nd cutting. Cotton progress ahead of last year. Weevil control in southern counties. Potato harvest active. Peanuts excellent condition. Onion harvest progressing. Chile fields rated good. Ranges fair to good, grasses maturing well. Some burning in areas. Cattle; sheep gaining well. Some lamb predation from coyotes. Cotton squaring: 99%, last year 95%, average 98%; boll setting 72%, last year 62%, average 69%.

NEW YORK: Temperatures were below normal. Rainfall averaged below normal in extreme west and north. Rain averaged above normal from the Southern Tier to Long Island and near normal elsewhere. It was warm and generally dry at the beginning of the week. It turned quite cold during midweek and on the 27th, there was widespread rain and very cool weather. Conditions improved thereafter.

Warm, dry weather was good for cutting hay and harvesting wheat, but most crops could use some moisture. Corn continues to tassel and for the

most part in good condition. First cutting of hay near completion and second cutting well underway. Good yields but quality variable. Early planted oats drying down, later plantings heading out and turning. Wheat harvest progressing rapidly. Dry bean fields beginning to bloom. Pastures range from fair to good. Soil moisture short to adequate. An average of 1.0 day was unsuitable for fieldwork during the week. The sweet cherry harvest virtually complete. About half the tart cherries in the Western counties have been harvested. Early peaches being picked. Apple, pear and grape crops in good condition and sizing well. Excessive or scant rainfall have stress vegetable crop. Dry conditions hurt western onion fields while eastern onion fields suffered from excessive rain, thunderstorms and hail. Farmers begun irrigation of onion fields in Yates and Steuben counties. Ontario pearl onions harvest has started. Snap beans harvest underway in western counties and on Long Island. Early planted sweet corn being picked and condition has been very good.

NORTH CAROLINA: Temperatures averaged near 4° below normal for mountain region, 2 to 3° below normal for the Piedmont region and for the coastal plain region. Precipitation ranged from 0.06 to 5.51 in.

Soil moisture: 1% short, 53% adequate, 46% surplus. Days suitable for fieldwork: 4.1. Condition: Corn 6% fair, 75% good, 19% excellent. Cotton 8% fair, 88% good, 4% excellent. Peanuts 24% fair, 68% good, 8% excellent. Soybeans 16% fair, 77% good, 7% excellent. Tobacco 20% fair, 70% good, 10% excellent. Apples 17% fair, 74% good, 9% excellent. Peaches 7% fair, 82% good, 11% excellent. Phenological stages: Cotton squared 91%, 1983 88%, average 90%. Cotton bloomed 70%, 1983 58%, average 67%. Corn silked 92%, 1983 94%, average 93%. Corn soft dough 65%, 1983 71%, average 72%. Soybeans flowered 25%, 1983 24%, average 29%. Soybeans pods set 6%, 1983 6%, average 6%. Harvested: Flue-cured tobacco 14%, 18% 1983, 26% average. Peaches 68%, 1983 83%, average 74%. Major farm activities: Harvesting, topping, spraying and suckering tobacco, spraying soybeans and peanuts, harvesting vegetables and peaches, and general farm maintenance.

NORTH DAKOTA: Last week saw near normal temperatures and below normal rainfall. Northwest district 3° above normal while the remaining portions of the State ranged from 1.1° below normal in the southeast to 1.5° above normal central and southwest. Extremes ranged from 98 to 46°. Moisture was below normal. All districts recorded less than 0.10 in. of moisture except south central which averaged 0.14 in. Bismarck recorded the greatest amount of rain with 0.67 in. for the week.

Dry conditions prevailed and further stressed State's late grains and row crops. Lack of rainfall was more widespread as entire State rated short or very short of topsoil moisture and 79% short of subsoil moisture. Some small grains maturing prematurely. Percent milk to dough and beyond compared to last year and average for hard red spring wheat 90, 88, 75; durum 84, 77, 65; barley 97, 94, 85; and oats 89, 89, 81. The percent combined compared to last year and average for winter wheat 16, 17, 17; barley 6, 5, 7; hard red spring 1, 1, 2. Most row crop development also pushed ahead of normal. Percent in bloom or beyond with last year and average for; sunflower 9, 11, 13;

potatoes 90, 78, 71; flax 85, 81, 70; and dry beans 78, 71, 66.

OHIO: Temperatures 2 to 4° below normal. Extremes from upper 80's and mid 90's to upper 40's to 50's. Widespread precipitation. North average 1.00 to 2.00 in., south 0.10 to 0.50 in. Soil moisture 45% short, 55% adequate; 5.0 days suitable for fieldwork. Activities included wheat and hay harvest, spraying for insects. Corn silked or beyond 50% 1984, 55% 1983, 70% average; dough or beyond 10% 1984, 10% 1983, 10% average; condition fair to good; adult corn root worm activity heavy. Soybeans blooming or beyond 70% 1984, 65% 1983, 70% average; setting pods or beyond 15% 1984, 15% 1983, 30% average; condition fair to good. Winter wheat harvest 97% 1984, 99% 1983, 98% average. Pastures fair condition.

OKLAHOMA: Average temperatures below normal statewide. Majority northern two-thirds saw 2° below, while northeast 1° below normal. Southern third of State 3° below normal. Precipitation averaged none in north central to 21.1 in. southeast.

Isolated showers south and east gave area farmers limited relief, but most of State hot, dry. Rain needed for good small grain seedbed preparation. Considerable cotton acres with extremely poor stands plowed under. Grain sorghum growth at standstill in most areas. Moisture needed to stimulate row crop development. Pastures deteriorate from intense heat and moisture shortage. Cattle marketings increasing as forage becomes shorter. Cotton and pastures fair, sorghum and livestock good to fair condition. Sorghum head: 35%, 15% 1983, 30% average. Cotton squaring: 60%, 45% 1983, 65% average. Cotton setting bolls: 20%, 10% 1983, 15% average.

OREGON: Midweek thundershowers left up to 0.60 in. precipitation in northeast, up to 0.30 in. in south central areas, and less than 0.10 in. elsewhere. Temperatures were 1 to 4° above normal in all areas.

Winter wheat 17% harvested, versus 46% last year and 30% average. The Willamette Valley harvest not started. Eastern yields very good. The Valley spring grain crop turning, 3 weeks to harvest. Some grass seed yet to be combined. Some 2nd cutting of hay. Western mint looks good, harvest about one week late. Central area mint growers one week from harvest. Grass seed harvest in Union County and central areas. Most eastern areas finished with 2nd hay cut. Corn tasseling around Hermiston. Cherry harvest near complete in Hood River and Wasco Counties. Union County cherry harvest beginning. In west, sweet cherry harvest nearly complete, tart cherry harvest starting; both types show a light crop. Raspberry harvest nearly over, blueberry and other caneberry harvest ongoing. Early peach variety picking, light yields. Filberts and walnuts progressing normally. Cranberries along coast show good development. Hermiston region apricots nearly all picked. Hood River apples being thinned, showing some sunburn. Norgold potato harvest underway in Hermiston-Boardman area, sizes and yields down. Potatoes look good in Klamath and Malheur Counties. Malheur onions behind norm. In Willamette Valley, green pea harvest near complete, broccoli harvest continues, snap bean harvest in full swing, some beans have white mold. Sweet corn beginning to tassel in the Valley. Livestock in generally good condition, some feeder cattle movement to feedlots, sheering mostly complete. Non-irrigated range

and pasture very dry in low elevations of east, drying in west, high eastern elevations remain very green.

PENNSYLVANIA: Cool and dry early and latter part of week. Heavy rains over most of the State toward the end of the week. Amounts ranged from 0.25 in. to over 2.00 in. in the north central and east central counties. Average temperature was 69° which was 2° below normal. Average rainfall was 0.20 in. above normal.

Days suitable: 5.0. Moisture adequate to surplus. Activities: Making hay; topdressing hay fields; combining wheat and barley; spraying fruits and vegetables; harvesting sweet corn, snap beans, squash. Barley 9% ripe, 84% harvested, last year 91% harvested. Wheat 14% turning yellow, 33% ripe, 52% harvested, last year 6% turning yellow, 20% ripe, 71% harvested. Oats 28% headed, 50% turning yellow, 17% ripe, last year 17% headed, 41% turning yellow, 31% ripe. Average corn height 57 in., last year 55 in. First cut alfalfa virtually complete, same as last year. Second cut alfalfa 51% complete, last year 68% complete. First cut clo-tim 92% complete, last year virtually complete. Quality of hay made mostly fair to good. Feed from pastures mostly average to above average.

PUERTO RICO: Island average rainfall 0.50 in. or 0.95 in. below normal. Highest weekly total 1.56 in. Highest 24-hour total 0.74 in. Temperature averaged about 81° on coasts and 75 to 76° interior divisions. Mean station temperature ranged from 82.8 to 67.0°. Extremes 93 and 61°.

SOUTH CAROLINA: Cold front across State became stationary just off coast. Cold air plus abundant moisture responsible for statewide weather. Rain covered State; coast received least, upstate most. Temperatures lower than usual.

Soil moisture adequate to surplus. Days available for fieldwork: 3.7. Corn condition good; 98% silked, 95% last year, 97% average; 72% dough stage, 70% last year, 84% average; 26% maturing, 16% last year, 37% average. Cotton condition good; 82% setting bolls, 98% last year, 94% average. Soybean condition good; planting complete 13% blooming; 24% last year, 33% average; 3% setting pods, 5% last year and average. Tobacco condition fair to good; 37% harvested, 28% last year, 44% average. Peach condition good; 76% harvested, 72% last year, 78% average. Melon harvest continues, condition fair to good. Tomato harvest winding down, condition good.

SOUTH DAKOTA: Average temperatures were near normal. Extremes: 105 and 35°. Outside the Black Hills, the low was 45°. Rainfall was above 0.25 in. over most of the State.

Days suitable for fieldwork: 5.0. Topsoil moisture was short over most of the State with adequate supplies over much of the east and south. Critically short supplies were reported in the extreme west and a small part of the west central. Subsoil moisture was adequate over most of the State. A shortage was reported across the west and other scattered areas of the State. Spraying for greenbugs and aphids. Grasshoppers heavy in west on sorghum. Armyworms moved into the north. Spring wheat harvested 10%, 1983 12%, average 33%. Sorghum headed 9%, 1983 12%, average 16%. Winter wheat harvested 51%, 1983 63%, average 72%. Corn silking 21%, 1983 26%, average 39%. Corn dough 0%, 1983 0%, average 0%.

TENNESSEE: A high pressure system prevailed early in the week. Midweek a weak cold front moved through the State followed by a more significant cold front which passed on the 27th and 28th. Rainfall associated with the second front was generally light to moderate. Temperatures averaged in the 70's in the middle and east and in the upper 70's and low 80's in the west. This was 2 to 3° below normal in most areas.

Farmers averaged 5.5 days of fieldwork. Soil moisture levels; 10% surplus, 69% adequate, 18% short, 3% very short. Corn tasseling 83%, 1983 72%, average 82%; dough 30%, 1983 27%, average 47%; dent 9%, 1983 8%, average 9%. Cotton squaring 100%, 1983 94%, average 95%; setting bolls 45%, 1983 40%, average 57%. Soybeans blooming 40%, 1983 33%, average 43%; setting pods 7%, 1983 6%, average 18%. Pasture conditions mostly fair to good. Livestock in good condition.

TEXAS: Retrogressing upper level low pressure system dominated State early week. Thunderstorms scattered as system moved from eastern portion State into West Texas. Heaviest rainfall totals Edwards Plateau. Seabreeze front triggered thunderstorms along Gulf Coast, weak cool front set off thunderstorms central portion State. On 28th, weak intrusion cold air through eastern half Texas, thunderstorms North, East, South Texas. High pressure settled across State over weekend. Temperatures below normal. Precipitation above normal statewide.

Crops: Scattered showers dominated State, further improving crop conditions Plains, causing slight delays harvesting activities Blacklands, Upper Coast. Much needed rain helped ranges, pastures green up slightly Edward's Plateau. Yields ranging fair to good corn, grain sorghum fields. Insect populations continue light to moderate many areas, producers continue spray. Warm temperatures prompted growth. Grain sorghum good progress Plains under mild temperatures. Fields late boot stage, some beginning to head. Harvesting Blacklands interrupted temporarily intermittent showers. Harvesting moved steadily Coastal Bend, virtually complete week's end. Harvesting nearly complete Rio Grande Valley. Current reported condition 66% of normal compared with 73% a year ago. Reported conditions 3% excellent, 43% good, 34% fair, 18% poor and 2% failure. Irrigation corn fields Plains continued. Earworms, spider mites increased. Blacklands harvest continues between showers. Many fields Central, South Texas being grazed, because burning up lack of water. Current reported conditions are 8% excellent, 42% good, 33% fair, 16% poor, and 1% failure. Cotton steady progress High Plains. Irrigation continued even with scattered showers. Spraying increased, bollworm populations picked up. Southern Blacklands, crop made rapid progress, harvest begin soon. Harvest defoliated fields Coastal Bend picked up with threat of bad weather. Harvest activities picked up Rio Grande Valley. Current condition 71% of normal compared with 83% a year ago. Reported conditions 2% excellent, 61% good, 17% fair, 19% poor and 1% failure. Recent showers helped peanuts make good growth many areas. However, irrigation heavy, costly other areas. Soybeans Plains blooming, good condition. Upper Coast, good crop expected, beans maturing rapidly. Rice harvesting increased. Intermittent showers temporarily stalled field activities early week.

Cotton squaring 80% 1984, 88% 1983, 88% average; setting bolls 37% 1984, 36% 1983, 45% average; open bolls 6% 1984, 2% 1983, 7% average; harvested 3% 1983, 1% 1983, 1%

average. Rice headed 97% 1984, 94% 1983, 98% average; turning color 63% 1984, 67% 1983, 78% average; harvested 5% 1984, 5% 1983, 22% average; sorghum headed 66% 1984, 70% 1983, 73% average; turning color 58% 1984, 62% 1983, 61% average; mature 46% 1984, 38% 1983, 48% average; harvested for grain 41% 1984, 26% 1983, 37% average. Corn harvested for grain 16% 1984, 4% 1983, 8% average. Oats harvested for grain 100% 1984, 100% 1983, 100% average.

Commercial vegetables: Rio Grande Valley, land preparation fall vegetable planting. Some planting bell peppers started. San Antonio-Winter Garden, harvesting summer vegetables virtually complete. Preparation planting fall vegetables started. Trans-Pecos, fall planting some vegetables underway. Harvest onions, cabbage continuing. Tomatoes begun fruiting. East Texas, harvest continues peas, beans, okra, tomatoes, watermelons. Good volumes reported. Irrigation sweetpotatoes underway. High Plains, harvest potatoes, transplanted onions continues. Direct seeded onions being watered, harvest begin soon. Some hail damage reported peaches northern Blacklands during harvest. Harvesting Plains region. Insect damage light. Pecans water stage many areas, nutlet development fair to poor. Plains report good set.

Range and livestock: Ranges, pastures little change even with scattered showers. Third cutting hay Plains. Many areas too dry for a second cutting. Corn, grain sorghum fields used as pastures because improper grain development due dry weather. Cattle being moved from areas where grazing poor, to areas Plains where grass available. Conditions remain fair. Some herds exposed prussic acid poisoning where rain fallen on pastures.

UTAH: All stations reported measurable precipitation from thunderstorm showers. Accumulations were generally moderate to extremely heavy. Some damage from wind gusts, flooding, and lightning. Maximum temperatures averaged 3° below normal, ranging 8° below to 2° above. Minimums averaged 3° above normal, ranging 3° below to 8° above.

Harvest of grain and hay delayed by thundershowers. Only 5.7 days suitable for fieldwork. Winter wheat 75% ripe, waiting to dry out for harvest. Barley 80% turning color. Spring wheat and oats 53%, beginning to turn color. Field corn fair condition. Second crop alfalfa hay 23% down, much rain damaged. Range feed and livestock condition fair to good.

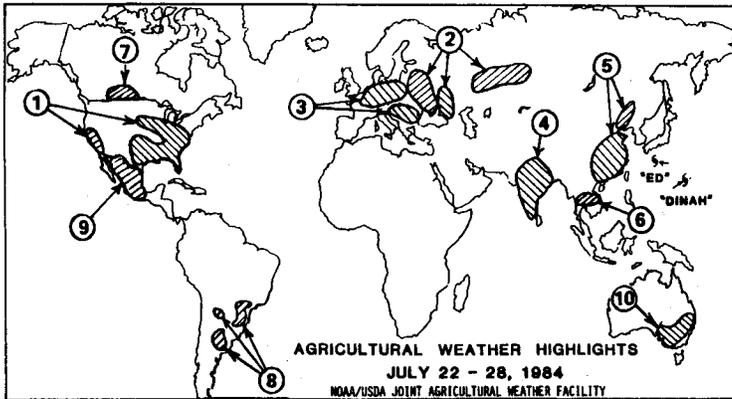
VIRGINIA: Cloudy and cool through period as State remained under the influence of high pressure to north and a stationary front to south. Temperatures averaged 3 to 4° below normal, precipitation between 1.50 and 2.00 in.

Ideal weather with ample rain kept crops in good to excellent condition but persistent showers hampered fieldwork in some areas. Topsoil moisture ratings were 3% short, 73% adequate, and 24% surplus. Days suitable for fieldwork averaged 4.0 days. Corn rated good to excellent. Yield prospects continue to improve although crop development behind normal. Corn 69% in silk, 74% last year, 81% average. Corn 32% in dough, 38% last year, 43% average. Soybeans in good to excellent condition. Full season soybean fields especially good. Herbicide spraying has been delayed by rain in some areas. Soybeans 14% in bloom, 10% last year, and 2% setting pods, 1% last year. Tobacco in good to excellent condition. Flue-cured tobacco harvest 4% complete, 2% last year, 5% average. Topping and sucker control

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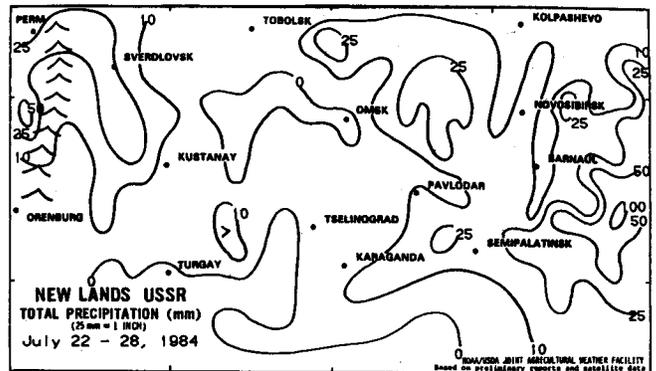
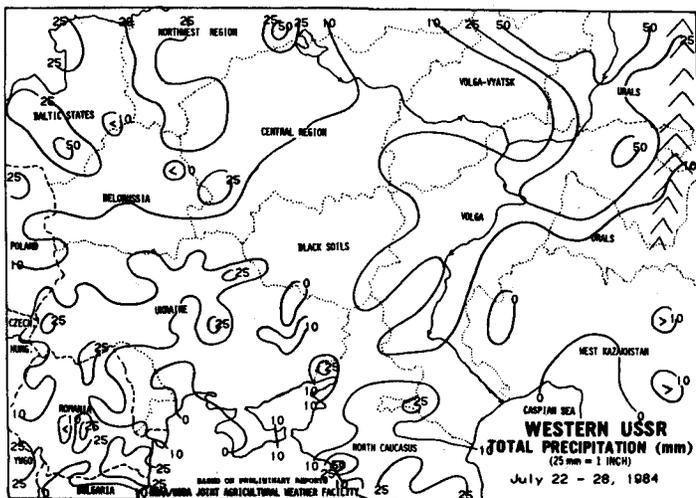
International Weather and Crop Summary

July 22 to 28



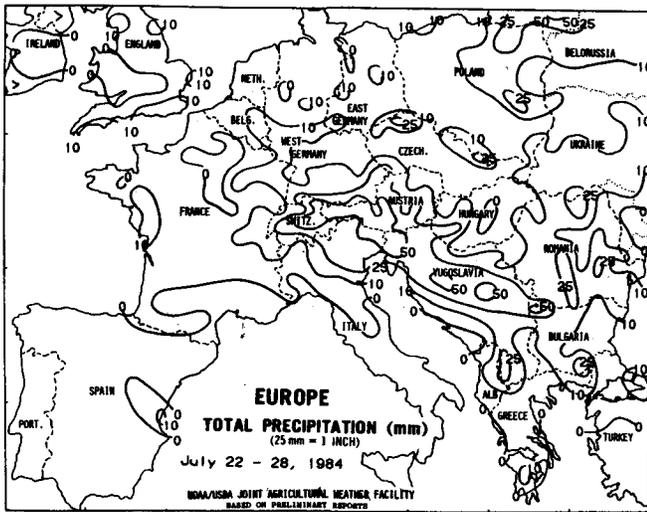
HIGHLIGHTS:

1. UNITED STATES ... The heat wave breaks over California, reducing stress on crops and livestock. The drought is relieved in parts of Texas but intensifies in Oklahoma and Kansas, hurting crops, pastures, and livestock. In contrast, rains benefit crops from central Texas through the Southeast and through most of the Corn Belt.
2. USSR ... Intermittent dry weather aids winter grain harvesting in Europe. Rain is needed in the southeast for corn and sunflowers in the reproductive stage. In the New Lands, unseasonably warm, dry weather continues over southwestern spring wheat areas where crops are maturing. Favorable conditions continue in northern and eastern grain areas.
3. EUROPE ... Generally dry weather in the north aids grain maturation and harvest. Rain slows the winter grain harvest in the southeast but benefits corn.
4. SOUTH ASIA ... Moisture is adequate in most rice areas. More rain is needed in parts of the cotton and groundnut region.
5. EASTERN ASIA ... Dry weather benefits rice harvesting in the south. Heavy rain is unfavorable for cotton. More rain is needed in parts of the northeastern corn/soybean region.
6. SOUTHEAST ASIA ... Rain would benefit corn and rice in central Indochina.
7. CANADA ... Central and northern grain areas have adequate moisture but rain is needed in the south.
8. SOUTH AMERICA ... Dry weather relieves wetness in southern Brazil's wheat areas. Mostly dry weather covers Argentine wheat areas where planting continues at a slow pace.
9. MEXICO ... Rain benefits southern Plateau corn and supplies water for west coast crops.
10. AUSTRALIA ... Rain favors eastern wheat but heavy rain may have flooded some areas.

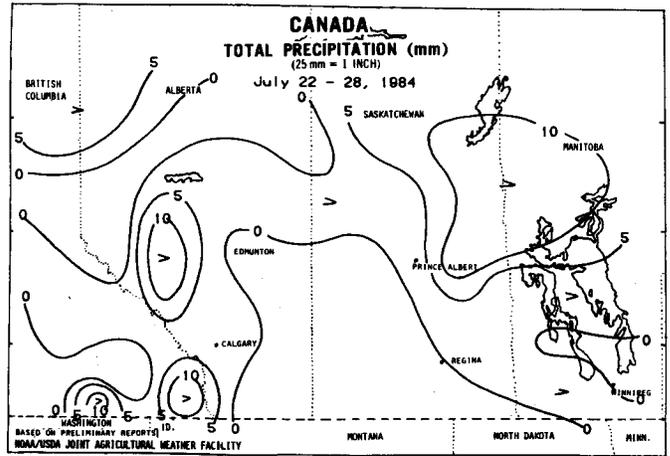


USSR...Widespread, light showers and below-normal temperatures covered most western USSR crop areas. The showers fell over the western Ukraine, Belorussia, and the Baltic States both early and late in the week. However, the dry weather in these areas during mid-week probably allowed some winter grain harvesting. Light, scattered showers (less than 10 mm) over the southern and eastern Ukraine, parts of the north Caucasus, and southern Black Soils, caused only minor delays in harvest activity. Corn and sunflowers in these areas are in the highly moisture-sensitive reproductive stage and require additional precipitation to ensure satisfactory yield prospects. Wet weather (10 to 25 mm) in the Volga Valley slowed spring grain maturation but benefited sunflowers.

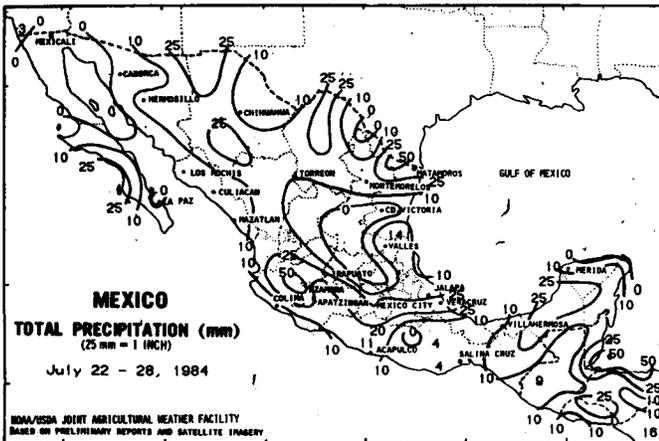
In the New Lands, unseasonably warm, dry weather continued to cover spring wheat areas stretching eastward from the southern Urals through central Kazakhstan, and into crop areas around Omsk. The mostly dry conditions favored grain maturation in extreme southwestern crop areas, but continued to be unfavorable for crops in the filling stage east of Kustanay through Omsk. Widespread showers (10 to 25 mm) continued to benefit spring wheat in the northern Urals, most of western Siberia, and eastern Kazakhstan. Spring wheat in these areas is mostly in the filling stage, but in the extreme northeast some of the crop may still be flowering.



EUROPE... Generally dry weather covered most of northern Europe, favoring winter grain maturation and aiding harvest activity. Soil moisture should be adequate in most areas for spring grains in the filling stage. Corn areas in southern France continued unfavorably dry and rain is needed soon. Wet weather (10 to 25 mm) covered crop areas in central and southeastern Europe, creating some delays in the winter grain harvest. Although rain provided abundant moisture supplies for corn in these areas, warmer weather is needed to enhance growth. Dry weather continued to aid wheat harvesting in Spain and southern Italy.



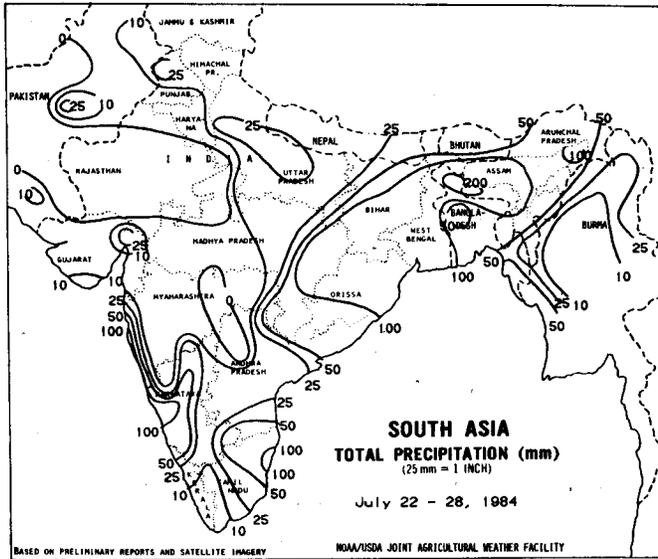
CANADA... Little or no rain fell in the major grain areas of Alberta and Saskatchewan. The drier weather was beneficial for parts of northern grain areas in Alberta following a persistent wet pattern. Adequate moisture supplies remain across central and northern grain areas of Alberta and Saskatchewan, providing favorable growing conditions for wheat in the filling stage. Dry weather in southern Alberta and Saskatchewan continued to be unfavorable for wheat in the filling stage. Late in the week temperatures reached 35-38°C, further reducing the limited moisture supply. Widespread rain is needed across the south to improve wheat prospects.



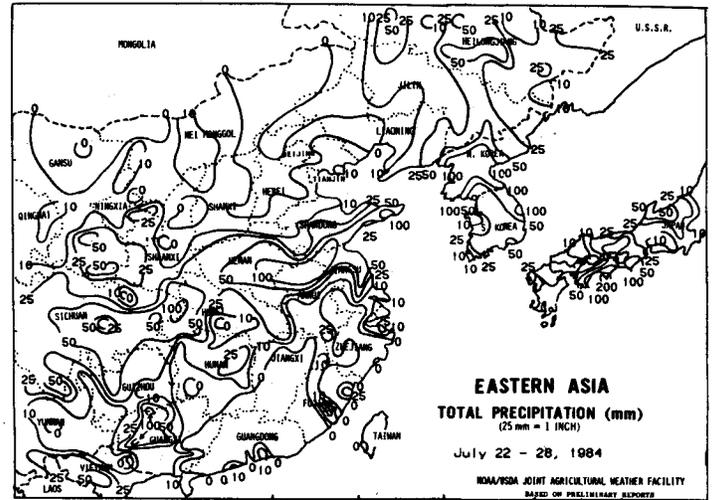
MEXICO... Beneficial seasonal rains continued across most of the southern Plateau corn belt. The rains will maintain optimum development of corn, which should be in the critical rapid growth and early reproductive stage. Rains were also scattered across the east-central coast coffee, sugarcane, and citrus districts, and the upper northeastern coast and northwestern mountains. Drought continued over some of the north-central and northeastern regions where rangeland vegetation has been stressed for the past several months. Tropical moderate to heavy showers doused about half of Central America, however, some sections continued slightly dry.



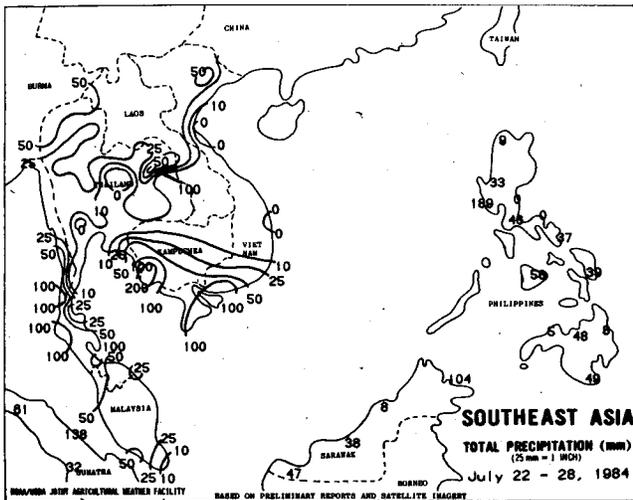
SOUTH AMERICA... Dry weather covered crops across much of the region during the week. In Brazil, the dry weather in wheat areas of Rio Grande do Sul and Santa Catarina was a welcome relief from the excessive wet pattern of the past several weeks. Further north, dry weather continued to aid the coffee harvest. In Argentina, reports indicate that the soybean harvest has ended. Wheat sowings are progressing slowly and are about 65-percent complete. The mostly dry weather in Buenos Aires should have allowed the sowing pace to increase. Dry weather in southern Santa Fe and eastern Cordoba continues to limit topsoil moisture and may be creating some planting delays.



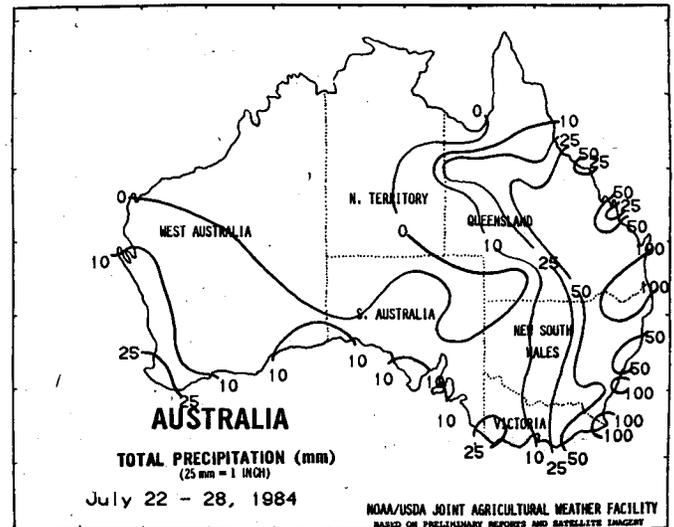
SOUTH ASIA... Monsoon activity weakened in the west this week, but remained strong in the east. Moderate to heavy rain covered much of the eastern rice region maintaining adequate moisture supplies. Autumn rice normally reaches the heading stage in August, while winter rice usually enters the heading stage in September. Heavy rain (as much as 250 mm) likely caused flood damage to rice in Assam and northern Bangladesh. Moderate precipitation benefited rice in southern Andhra Pradesh and Tamil Nadu. Mostly dry conditions covered cotton and groundnuts in Gujarat, Madhya Pradesh, Maharashtra, and Rajasthan. Moderate rain in this region last week benefited planting, but seasonal accumulations are below normal.



EASTERN ASIA... Mostly dry weather covered the southern coastal areas benefiting early rice harvesting. More rain would benefit late rice in the vegetative stage, but this is normally the drier part of the season. A band of moderate to heavy rain (50-150 mm) fell from Sichuan through the North China Plain. The heaviest rain fell in eastern Henan and northern Anhui where cotton is setting bolls. Temperatures averaged below normal in the North China Plain. Drier, warmer weather would benefit much of this region. However, cotton, corn, and soybeans in Hebei and Shandong would benefit from moderate rain. Precipitation in Heilongjiang has been near normal for several weeks, benefiting corn and soybeans entering the filling stage. More rain is needed in Jilin and Liaoning to improve conditions for corn and soybeans.



SOUTHEAST ASIA... The rainfall pattern generally persisted from last week. Moderate rain fell in northern Thailand and Laos, while drier weather stretched through central Indochina. Dry weather for the second week in central Thailand benefited early harvesting activity but more rain is needed for corn and rice in the reproductive and filling stages. Temperatures were slightly above normal in Thailand, increasing the evaporative demand. Moderate showers fell in the Philippines improving conditions in Luzon following 2 mostly dry weeks. Moderate temperatures provided favorable growing conditions for corn and rice.



AUSTRALIA... Heavy precipitation in the east likely caused localized flooding in some wheat areas. Over a 3- to 4-day period, 75-125 mm of rain fell in Queensland's southeastern wheat area and northeastern New South Wales. Heavy rainfall during the last 3 weeks may have produced some unfavorably wet conditions for establishment of late planted wheat. Lighter rain in South Australia, Victoria, and southwestern New South Wales was beneficial in replenishing soil moisture. Temperatures averaged near normal in the east, slowing wheat establishment. Light rain in the west benefited wheat which has adequate moisture supplies.

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