

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and World Agricultural Outlook Board

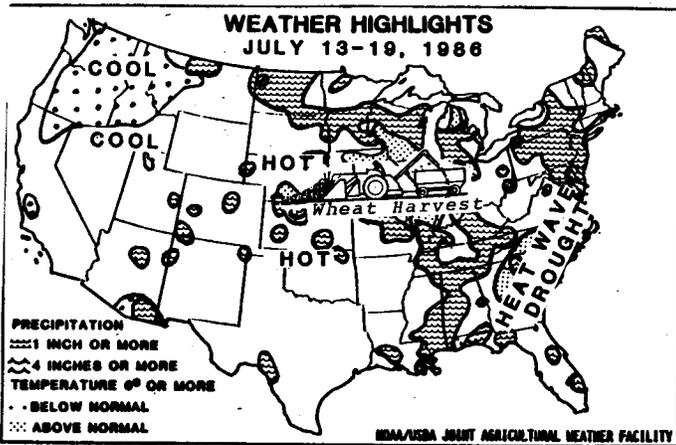
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July 22, 1986

National Weather Summary

July 13 to 19, 1986



the high nineties continued in South Carolina and Georgia. Warmer weather pushed into the middle Mississippi Valley.

WEDNESDAY...Showers and thunderstorms reached from Arizona and New Mexico through Montana and across North Dakota. The heat wave re-established in the Southeast as afternoon temperatures rose into the nineties as far north as eastern Maryland. Thunderstorms were scattered through the Southeast but were more widespread in Pennsylvania and New Jersey. Temperatures in the high nineties pushed into the lower Ohio Valley.

THURSDAY...Hot weather continued over the Piedmont of the Southeast from Virginia to Georgia while record-cool weather covered the Northwest. Afternoon temperatures in the mid to upper nineties covered the Great Plains to South Dakota and from Arkansas into central Illinois and part of Indiana. Thunderstorms were scattered from New Mexico to the Dakotas and throughout the East Coast States.

FRIDAY...Temperatures exceeded 100 degrees in much of the Southeast and through the central Plains into Nebraska. Mid to upper nineties covered much of the Midwest and all of the South. Thunderstorms were scattered from Arizona and New Mexico to the upper Plains and more frequent from the upper Mississippi Valley to Pennsylvania and New Jersey.

SATURDAY...Much cooler weather pushed through the northern Plains through Nebraska and into the upper Great Lakes. However, hot temperatures continued from the central Corn Belt to the southern Plains and in the Southeast. Light to moderate showers spread from the Great Lakes to the Mid-Atlantic States. Thunderstorms covered the Rockies.

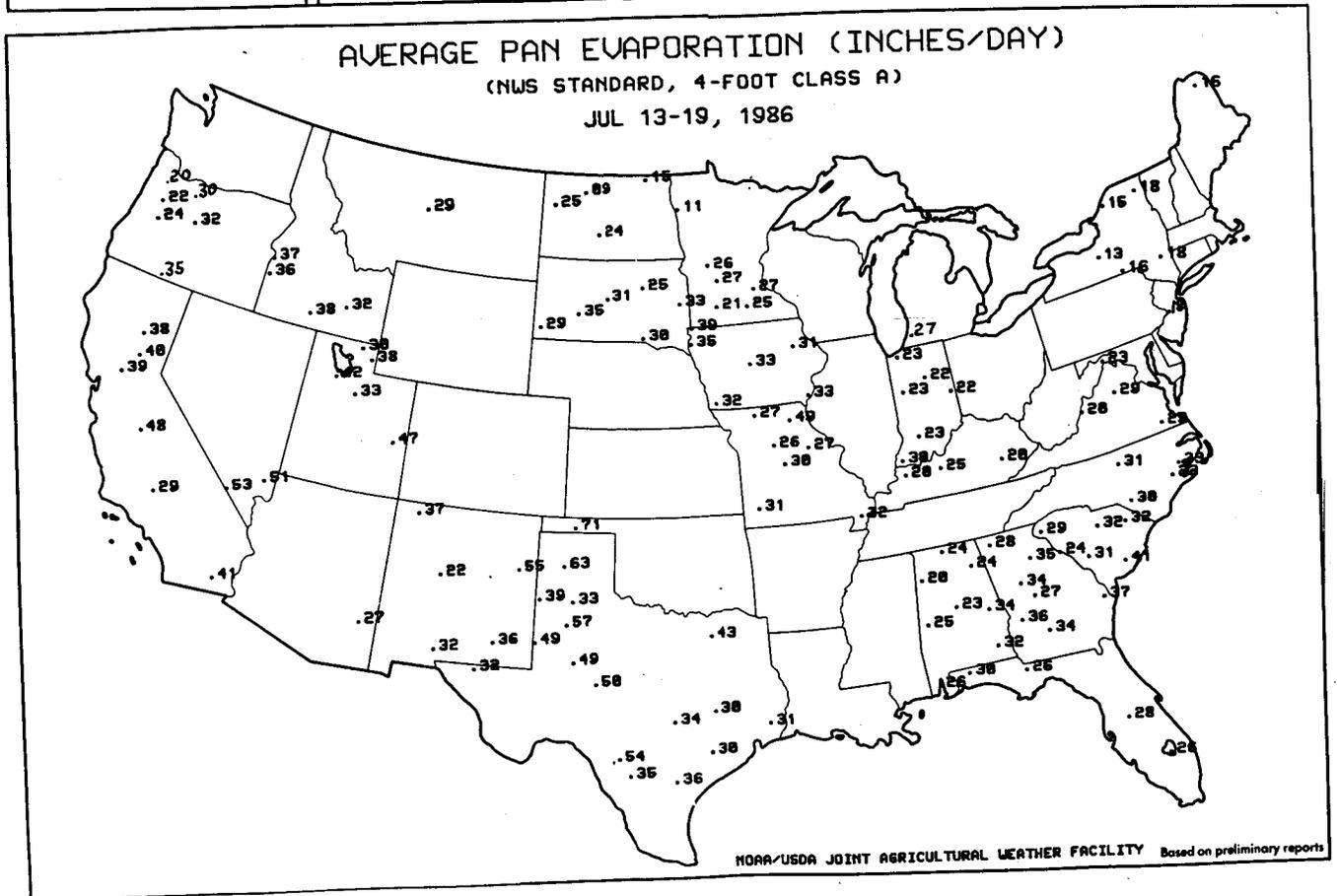
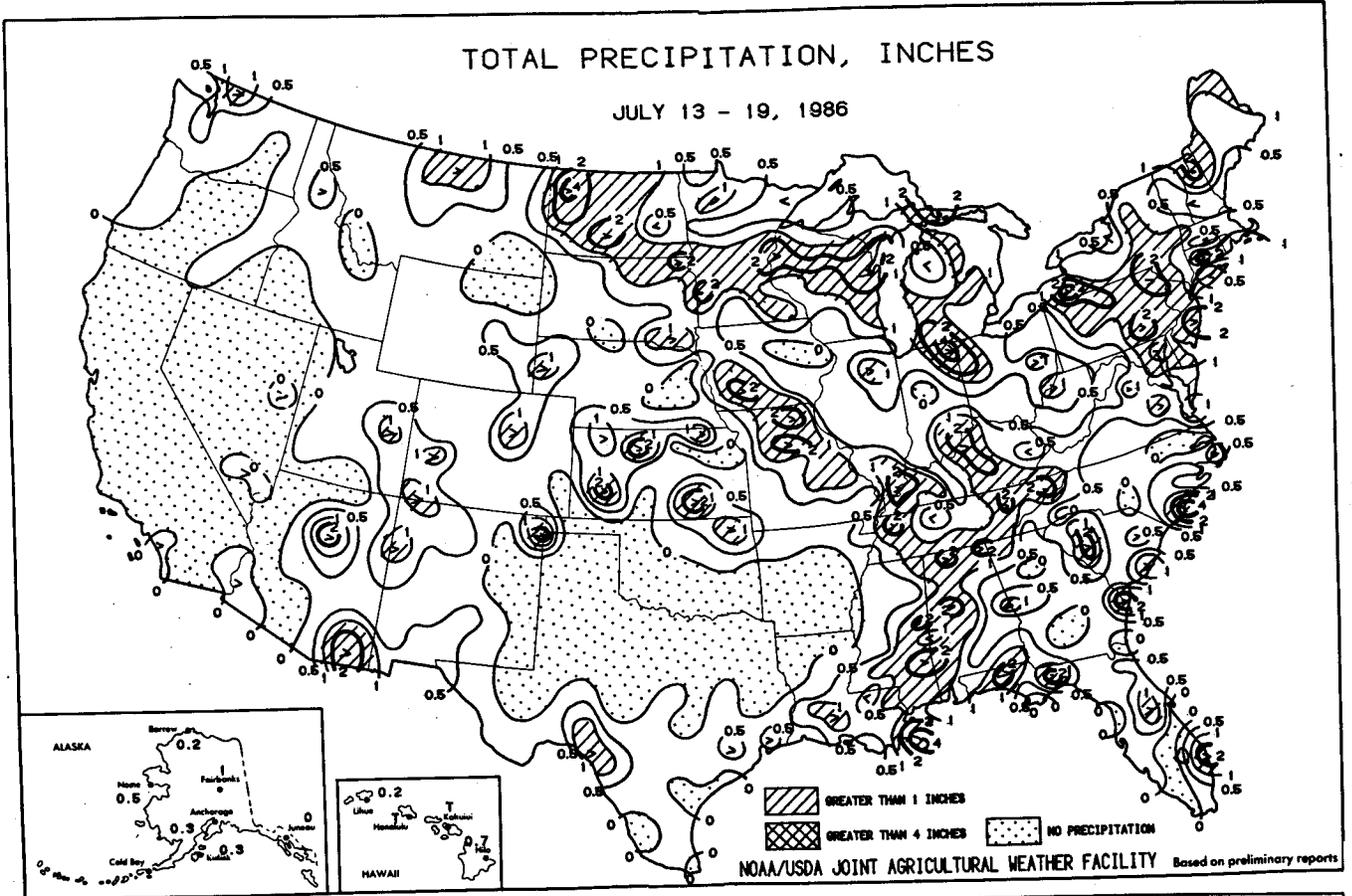
HIGHLIGHTS: A heat wave continued to exacerbate the long standing drought in the Southeast. Beneficial showers fell in the northern part of the area and in isolated parts of the rest of the Southeast, but most of the area remained dry. Unusually warm weather reached over the Great Plains and spread through the Midwest before cooler air began to move in at week's end. Thunderstorms brought moderate to heavy showers from the northern Plains to the upper Ohio Valley, through the lower Missouri Valley, from the lower Mississippi Valley through the Tennessee Valley to the upper Ohio Valley, and from the mid-Atlantic States through most of the Northeast. It was hot and dry in most of the southern Plains.

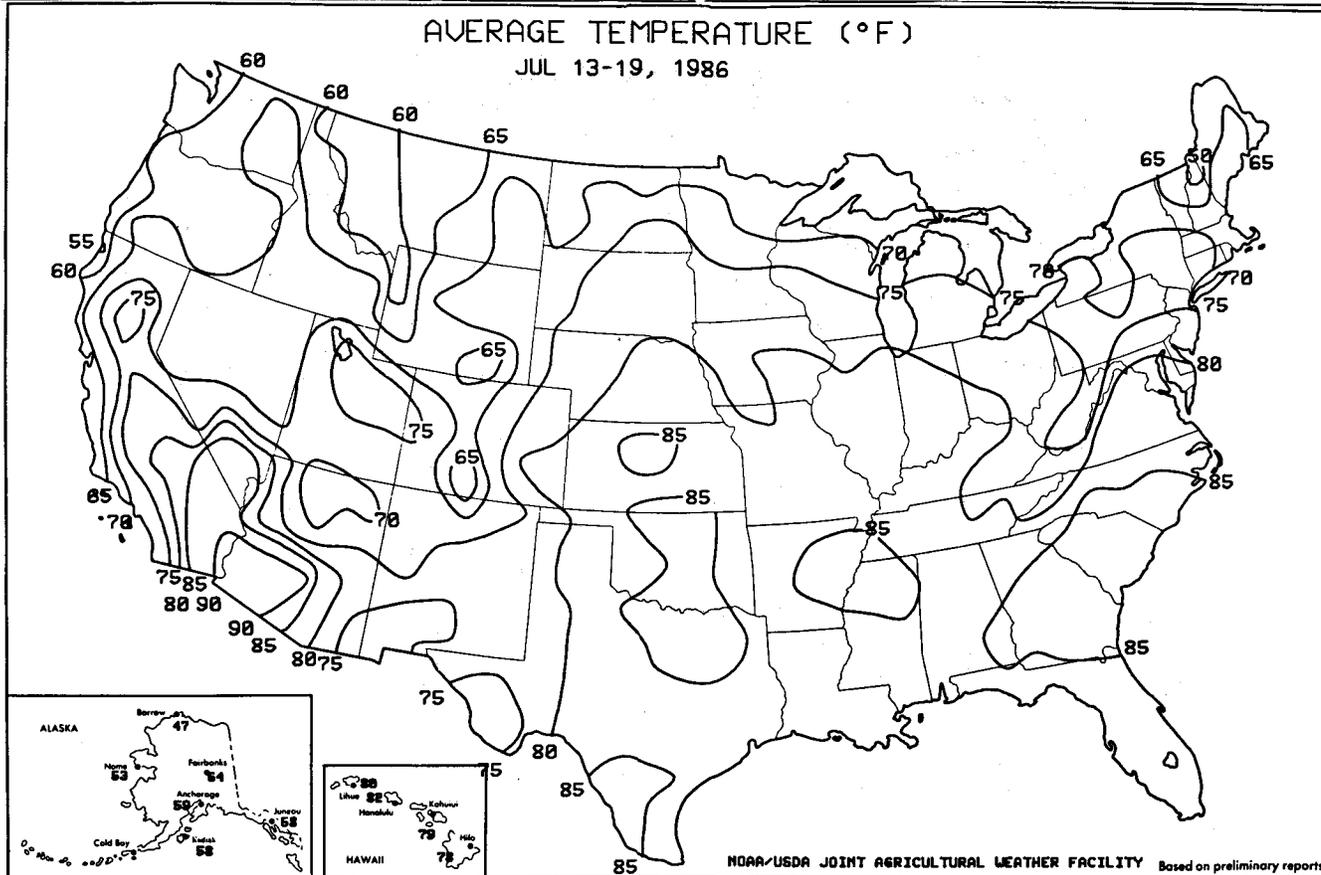
SUNDAY...Hot, dry weather continued from Delaware and eastern Maryland through Georgia and Alabama. Isolated thunderstorms dotted the area. Powerful thunderstorms developed through the central Plains. Showers and thunderstorms were more widespread from the upper Ohio Valley through the Northeast.

MONDAY...It was somewhat cooler in the mountains of the Southeast, but hot, dry weather continued through the Piedmont. Showers and thunderstorms were scattered from the Southwest, through the Rockies, and into the northern Plains. Moderate to heavy showers fell from the lower Missouri Valley southeastward through the Tennessee Valley and northward to the middle Ohio Valley. Thunderstorms were scattered from South Carolina to southern Alabama.

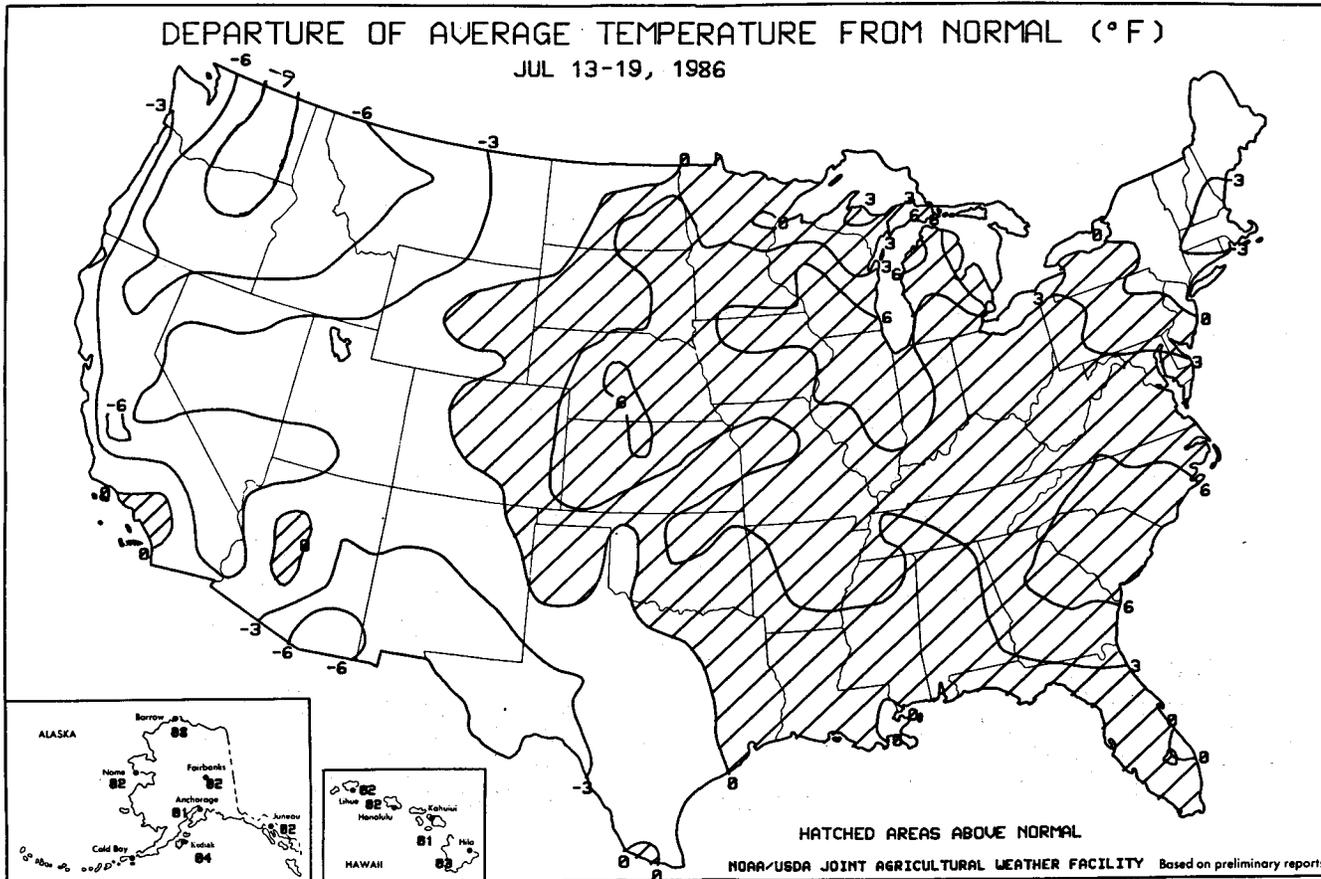
TUESDAY...Scattered thunderstorms continued from the Southwest to the northern Plains but were more widespread from the upper Mississippi Valley through the lower Great Lakes. It was somewhat cooler in the Southeast, but high temperatures in

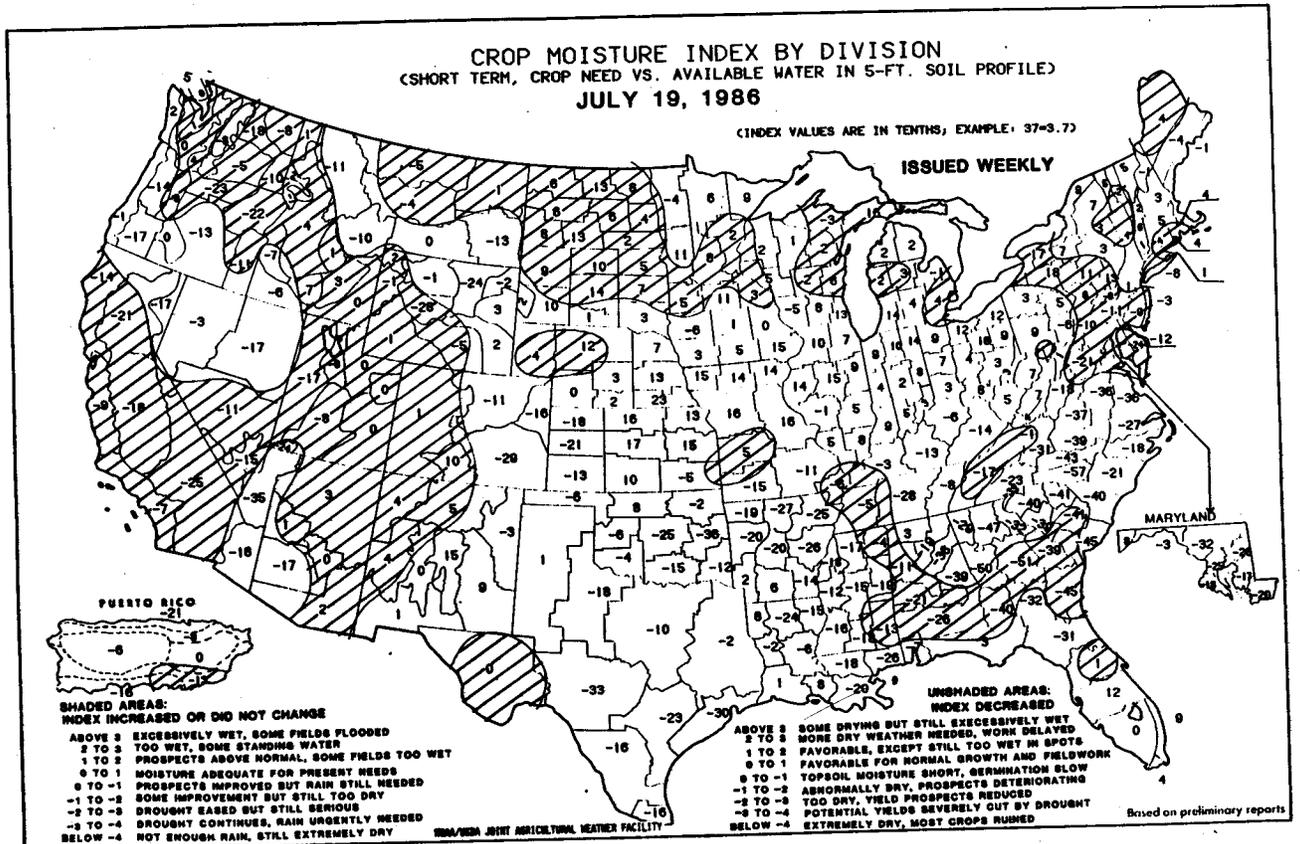
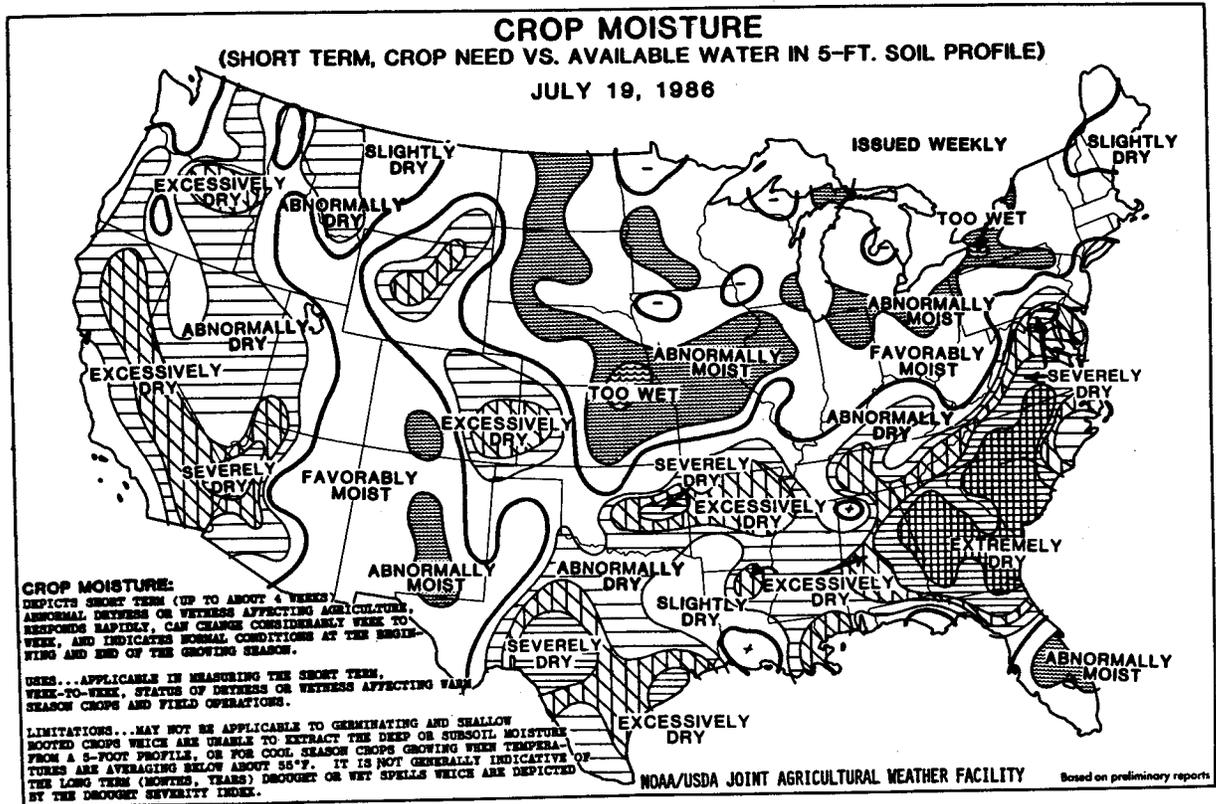
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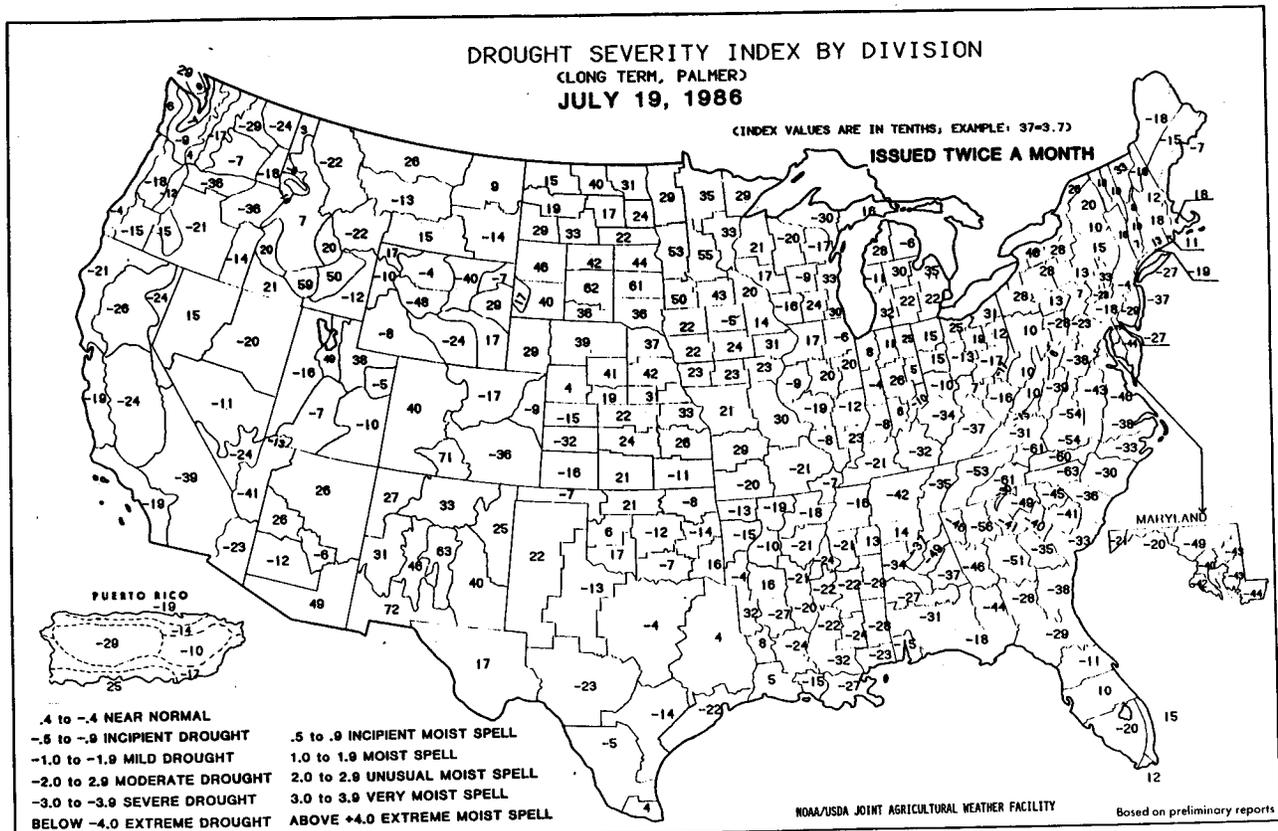
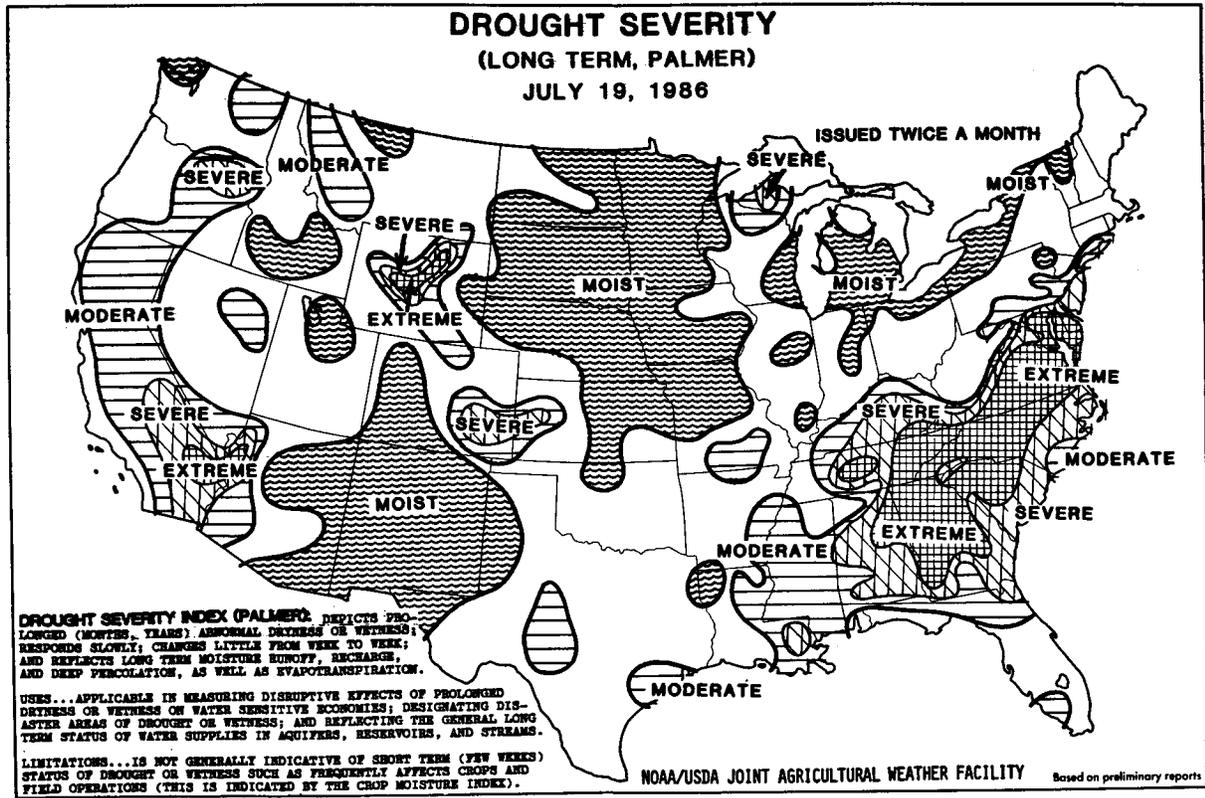


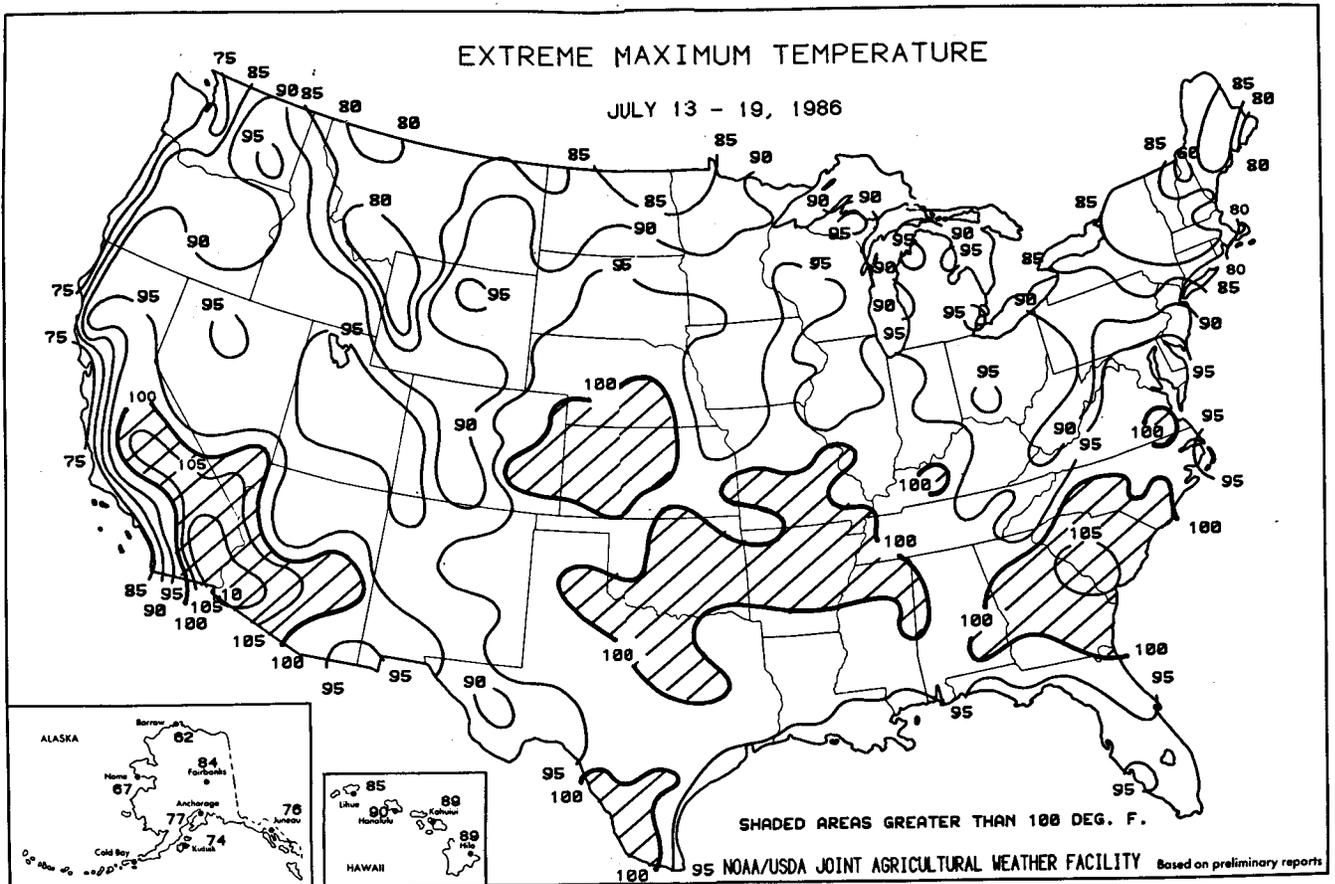
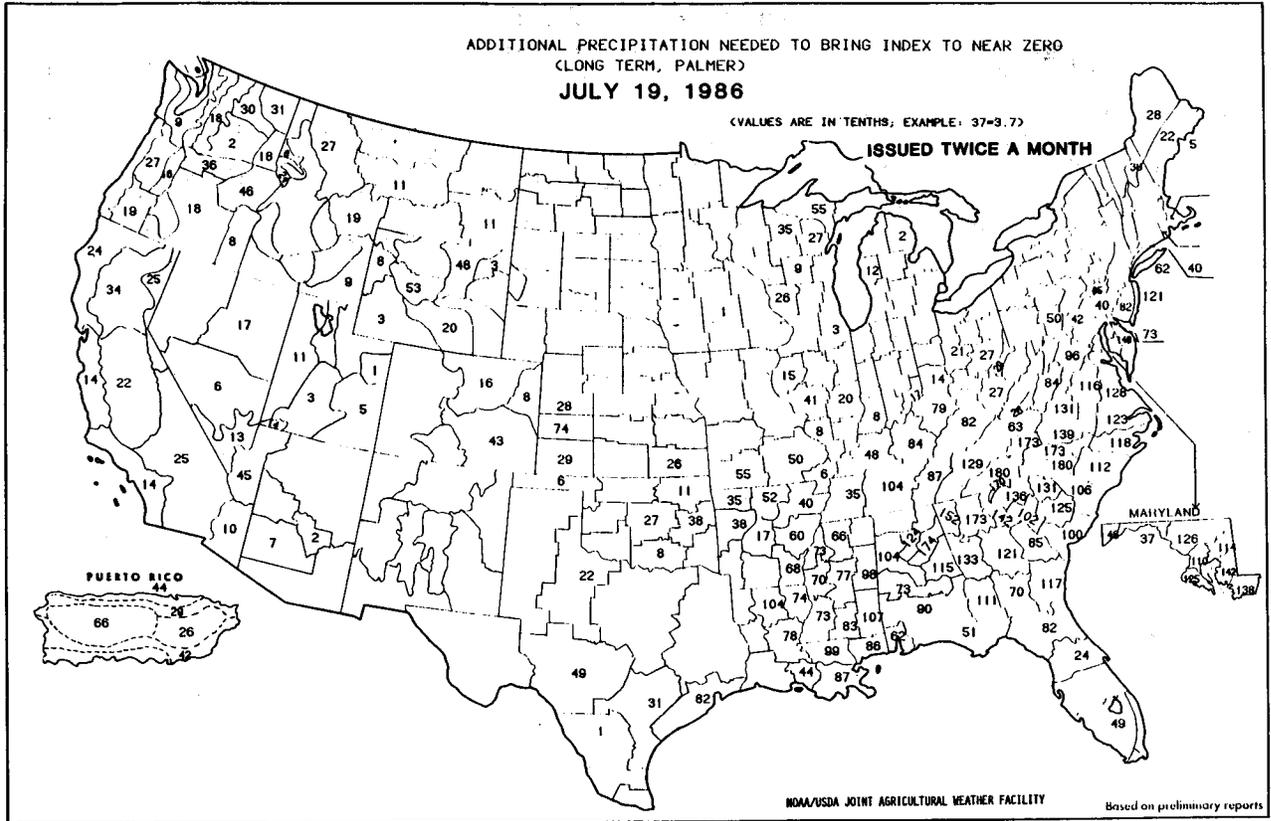


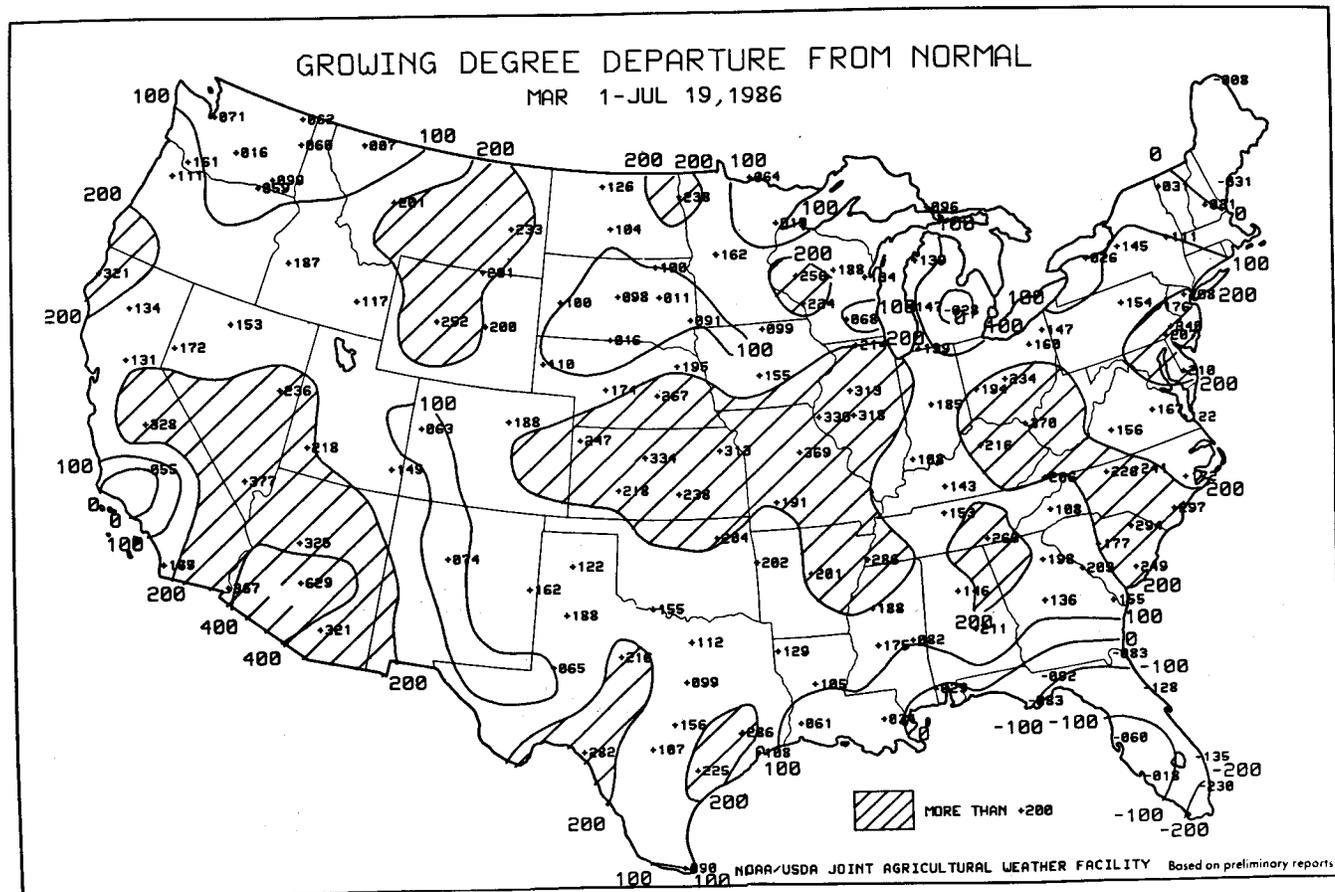
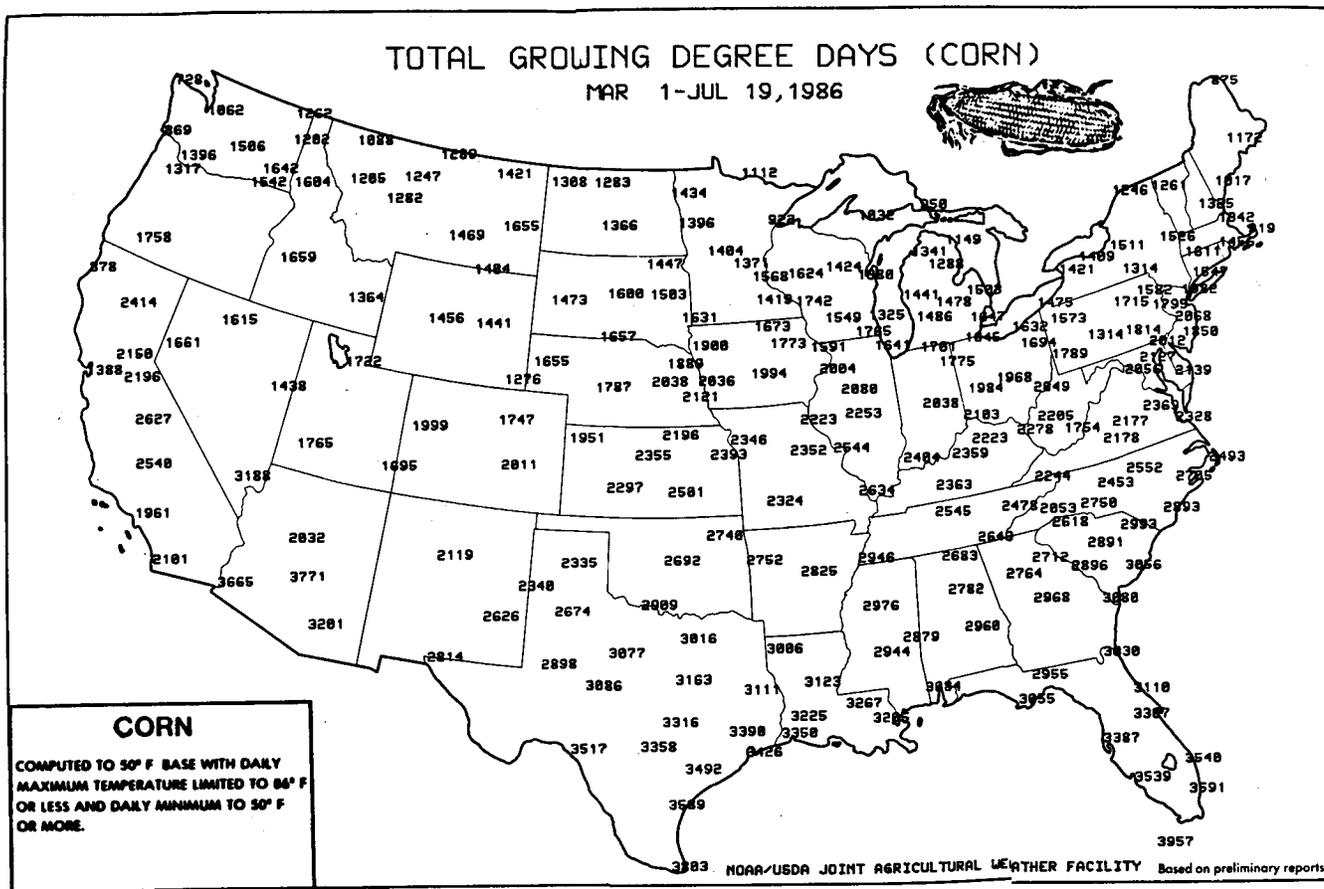
Point values may differ on these computerized maps from the reported values in the tables.



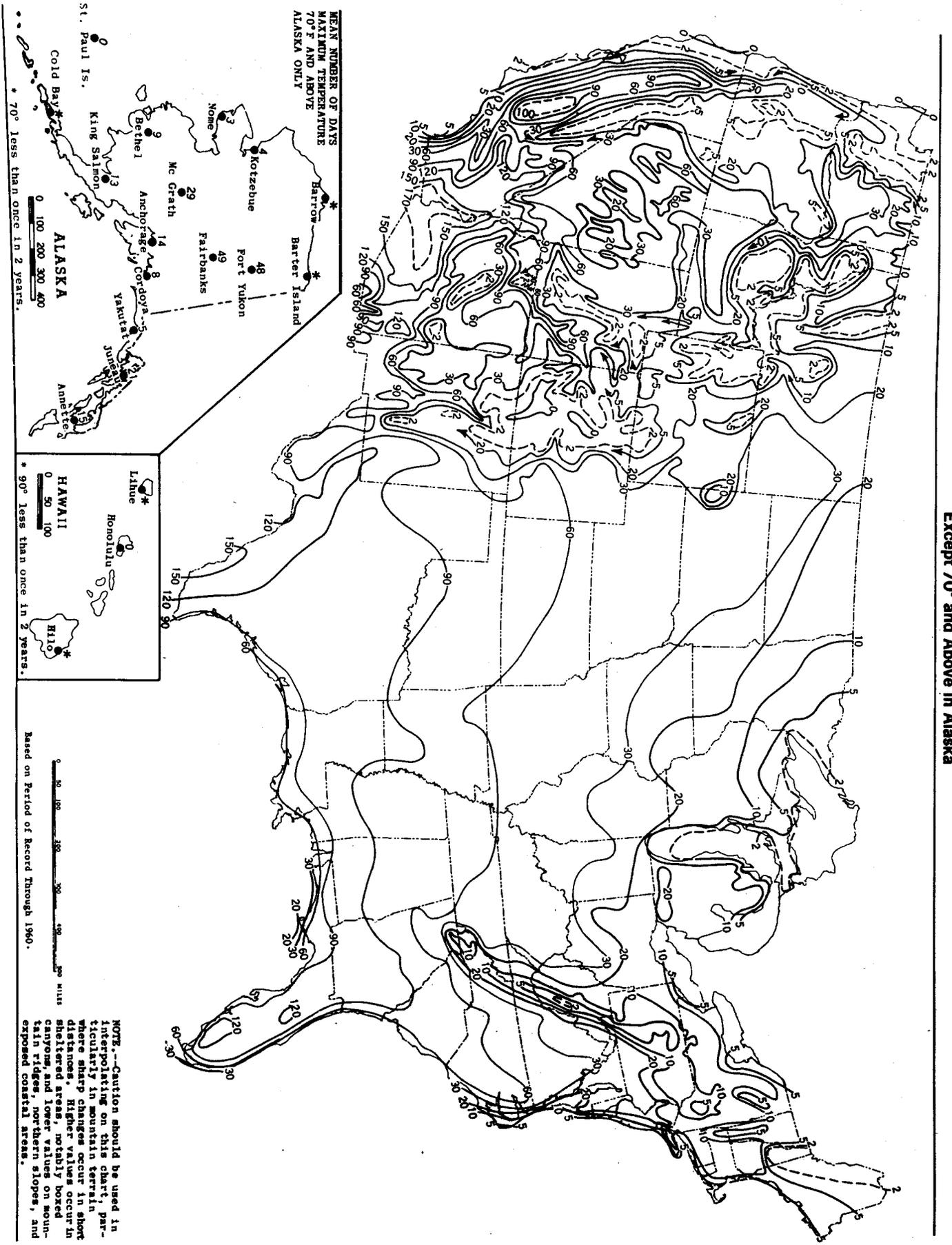








MEAN ANNUAL NUMBER OF DAYS MAXIMUM TEMPERATURE 90°F AND ABOVE
Except 70° and Above in Alaska



MEAN NUMBER OF DAYS
MAXIMUM TEMPERATURE
70°F AND ABOVE
ALASKA ONLY

ALASKA
0 100 200 300 400
* 70° less than once in 2 years.

HAWAII
0 50 100
* 90° less than once in 2 years.

Based on Period of Record Through 1960.

NOTE.--Caution should be used in interpolating on this chart, particularly in mountain terrain where sharp changes occur in short distances. Higher values occur in sheltered areas, notably boxed canyons and lower values occur in rain ridges, northern slopes, and exposed coastal areas.

National Weather Data for Selected Cities

Weather Data for the Week Ending July 19, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUNE 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	94	71	97	69	82	2	.5	-.8	.3	2.2	31	11.6	35	95	45	6	0	3	0
MOBILE	94	72	97	71	83	1	1.4	-.4	1.4	9.8	100	27.5	75	95	47	6	0	1	1
MONTGOMERY	94	72	98	71	83	1	.6	-.5	.4	3.2	49	24.9	84	96	47	7	0	4	0
AK ANCHORAGE	67	52	77	46	59	1	.3	-.1	.2	.9	43	4.3	73	87	50	0	0	4	0
BARROW	55	38	62	35	47	8	.2	.0	.0	.0	.0	.0	.0	0	0	0	0	2	0
FAIRBANKS	73	55	84	52	64	2	1.0	.6	.9	1.9	81	3.2	70	84	40	0	0	4	1
JUNEAU	66	51	76	50	58	2	1.2	.3	1.1	4.4	82	26.6	119	96	68	0	0	4	0
KODIAK	67	49	74	40	58	4	.3	-.6	.3	14.5	259	40.4	110	86	52	0	0	4	0
NOME	57	50	67	47	53	2	.5	.0	.2	.9	38	2.6	47	92	62	0	0	0	0
AZ PHOENIX	102	82	108	76	92	-1	1	-.2	.0	.8	144	3.6	116	54	23	7	0	0	0
PRESCOTT	87	61	94	57	74	1	.2	-.5	.2	2.0	88	5.4	66	72	31	2	2	2	0
TUCSON	94	71	101	69	83	-4	.6	.0	.3	.8	53	4.7	112	81	34	6	0	4	0
YUMA	102	80	111	77	91	-3	.1	.0	.2	4.00	.7	70	69	30	6	0	1	0	
AR FORT SMITH	97	70	101	68	83	1	.1	-.7	.0	3.3	59	21.1	92	95	39	6	0	0	0
LITTLE ROCK	97	76	101	74	87	5	.5	.0	.0	6.1	120	23.2	84	76	42	7	0	0	0
CA BAKERSFIELD	95	65	101	57	80	0	0	.0	.0	0	0	4.3	110	52	19	6	0	0	0
EUREKA	64	50	66	48	57	-1	0	.0	.0	.2	37	27.4	122	89	67	0	0	0	0
FRESNO	96	65	102	58	80	-1	0	.0	.0	T	0	9.7	137	66	20	7	0	0	0
LOS ANGELES	75	63	77	61	69	0	0	.0	.0	T	0	12.9	154	90	62	0	0	0	0
RED BLUFF	89	62	95	57	76	0	0	.0	.0	T	0	21.9	168	61	23	4	0	0	0
SACRAMENTO	87	56	94	53	72	-4	0	.0	.0	T	0	16.3	151	83	28	2	0	0	0
SAN DIEGO	76	64	79	62	70	0	0	.0	.0	T	0	7.6	123	87	61	0	0	0	0
SAN FRANCISCO	69	52	74	49	60	-2	0	.0	.0	T	0	18.6	149	93	52	0	0	0	1
CO DENVER	89	61	96	58	75	1	1.0	.5	.9	2.3	84	7.5	79	71	24	4	3	0	0
GRAND JUNCTION	89	65	98	59	77	-2	.4	-.3	.3	.9	131	3.3	80	68	26	4	2	0	0
PUEBLO	96	60	101	55	78	1	.2	-.2	.2	1.8	80	3.8	64	74	19	0	0	0	0
CT BRIDGEPORT	79	64	83	60	72	-2	1	-.8	.0	5.0	101	15.3	69	97	61	0	0	1	0
HARTFORD	81	61	89	55	71	-3	.4	-.2	.4	9.9	189	24.8	106	97	57	0	0	0	1
DC WASHINGTON	92	73	97	70	83	4	1.1	.3	.8	3.8	68	13.2	63	92	42	5	0	2	0
FL APALACHICOLA	93	73	94	71	83	2	.2	-1.6	.5	3.8	42	19.9	75	93	56	7	0	0	0
DAYTONA BEACH	93	72	97	68	83	2	.7	-.5	.5	9.0	93	20.7	87	97	53	7	0	2	0
JACKSONVILLE	97	74	100	72	86	5	.1	-.5	.0	4.4	48	21.9	79	92	41	7	0	0	0
KEY WEST	90	82	92	79	86	1	2	-.8	.0	9.5	129	15.7	92	78	59	4	0	0	0
MIAMI	91	77	92	73	84	2	.2	-1.0	.1	13.0	100	39.3	137	89	56	6	0	3	1
ORLANDO	94	74	95	70	84	1	1.2	-.6	1.2	13.3	108	26.3	99	92	46	7	0	0	1
TALLAHASSEE	95	70	98	68	83	2	2.6	-.6	2.4	16.7	140	33.2	91	98	45	7	0	3	1
TAMPA	93	75	94	70	84	2	.4	-.3	.4	6.9	72	18.3	78	90	49	7	0	1	0
WEST PALM BEACH	90	74	91	70	82	0	2.2	-.9	2.2	15.7	132	31.0	106	96	57	5	0	1	1
GA ATLANTA	97	73	101	70	85	6	6	-1.1	.0	2.4	38	13.4	45	88	36	7	0	0	0
AUGUSTA	101	74	104	73	88	7	1.2	-.2	.8	3.7	57	14.8	56	90	34	7	0	3	1
MACON	100	74	104	71	87	6	.3	-.8	.3	2.5	38	13.7	67	90	34	7	0	2	0
SAVANNAH	100	75	104	72	87	6	2.4	-.7	1.3	6.1	60	18.7	87	87	37	7	0	4	2
HI HILO	86	70	89	68	78	3	.7	-1.3	.2	14.4	130	88.3	126	91	60	0	0	4	0
HONOLULU	89	74	90	71	82	2	1	-.1	.0	.4	52	3.2	24	83	50	1	0	2	0
KAHULUI	86	72	89	69	79	1	1	-.1	.0	.3	54	10.3	81	85	58	0	0	3	0
LIHUE	84	75	85	73	80	2	.2	-.3	.1	1.9	67	9.3	39	86	66	0	0	0	0
ID BOISE	84	52	92	42	68	-7	.1	-.1	.0	.5	45	9.9	136	53	16	3	1	1	0
LEWISTON	80	53	94	50	67	-8	.1	.0	.1	.5	30	5.9	78	66	24	0	0	1	0
POCATELLO	84	50	92	42	67	-5	.1	-.1	.0	.4	29	9.4	140	71	23	0	0	2	0
IL CHICAGO	90	70	95	63	80	7	1.0	-.6	.2	7.0	110	16.4	88	93	52	5	0	0	0
MOLINE	92	72	95	62	82	7	.7	-1.1	.0	11.3	153	24.2	114	92	54	5	0	1	0
PEORIA	90	71	93	65	81	6	.4	-.5	.4	11.9	187	19.2	96	99	57	5	0	1	0
QUINCY	90	71	93	68	81	4	.1	-.9	.1	9.7	146	19.8	95	94	58	4	0	1	0
ROCKFORD	90	67	94	60	79	6	.2	-.8	.2	5.5	74	16.4	80	98	54	5	0	2	0
SPRINGFIELD	91	72	93	69	82	5	.3	-.5	.2	9.7	164	17.1	87	96	58	5	0	2	0
IN EVANSVILLE	93	72	96	71	83	4	1	-.9	.0	8.4	141	23.2	93	96	51	5	0	1	0
FORT WAYNE	89	68	92	63	78	5	2.7	1.9	1.5	12.8	224	25.4	129	98	55	4	0	2	0
INDIANAPOLIS	90	72	94	68	81	5	.2	-.8	.2	7.2	108	26.3	116	98	55	4	0	2	0
SOUTH BEND	90	69	93	62	79	6	1.0	.2	1.0	9.2	148	20.4	99	96	51	4	0	1	0
IA DES MOINES	91	71	94	64	81	4	.6	-.1	.3	10.5	171	25.4	144	88	52	5	0	2	0
SIOUX CITY	90	69	93	58	80	4	1	-.8	.0	6.3	103	19.2	127	90	54	4	0	0	0
WATERLOO	90	71	95	64	80	7	0	-.1	.0	9.6	132	23.1	121	90	55	4	0	0	0
KS CONCORDIA	94	73	101	67	84	5	1	-.8	.0	10.3	161	20.5	128	70	37	6	0	1	0
DODGE CITY	98	71	101	68	84	4	.2	-.5	.2	6.6	134	10.7	86	66	26	6	0	2	1
GOODLAND	97	64	101	61	80	4	.5	.0	.5	4.6	108	10.5	104	81	23	6	0	0	0
TOPEKA	91	73	94	65	82	3	0	-.9	.0	6.3	82	19.9	105	83	49	7	0	1	0
WICHITA	95	71	100	66	83	1	1.2	.4	1.2	9.6	150	16.9	104	76	33	7	0	2	1
KY BOWLING GREEN	93	71	100	68	82	4	.9	-.8	.2	2.9	40	17.2	58	96	49	5	0	0	1
LEXINGTON	90	71	93	68	80	4	1	-.3	.6	6.3	86	16.5	61	97	59	4	0	3	1
LOUISVILLE	92	73	96	69	82	4	2.2	1.2	2.2	8.8	143	21.6	84	96	51	5	0	1	0
LA ALEXANDRIA	94	74	96	72	84	1	.1	-1.1	.1	8.4	122	19.7	58	83	47	6	0	1	0
BATON ROUGE	92	74	94	70	83	1	.1	-1.7	.1	6.7	92	25.8	81	91	54	5	0	1	0
LAKE CHARLES	93	74	95	72	83	1	.2	-1.1	.2	7.1	95	21.5	77	99	54	7	0	1	0
NEW ORLEANS	92	72	94	71	82	0	.8	-.8	.8	11.3	130	22.7	68	97	52	7	0	1	1

Based on 1951-80 normals.

Weather Data for the Week Ending July 19, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUNE 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	94	72	97	68	83	0	0	-8	0	14.9	255	29.6	112	96	44	7	0	0	0	
ME CARIBOU	73	55	83	48	64	-2	1.3	-4	.6	3.4	61	16.0	89	98	60	0	0	4	1	
MD PORTLAND	73	57	82	53	65	-3	.2	-5	.1	6.2	129	25.6	110	98	63	0	0	3	0	
MD BALTIMORE	92	70	98	65	81	4	.9	.1	.6	3.1	50	12.9	57	94	42	4	0	3	0	
MA SALISBURY	91	71	97	66	81	4	.6	-4	.2	2.5	41	13.5	58	95	45	5	0	4	0	
MA BOSTON	77	62	84	57	69	-5	.6	-1	.6	10.5	234	23.0	98	92	63	0	0	1	1	
MA CHATHAM	74	60	78	56	67	-1	.8	-2	.7	6.1	138	18.4	75	96	90	0	0	2	1	
MI ALPENA	82	61	91	53	72	6	1.3	.6	.8	7.5	148	16.1	105	100	65	1	1	4	1	
MI DETROIT	88	69	95	62	78	6	.6	.7	.1	8.0	150	19.2	110	94	50	3	0	2	1	
MI FLINT	87	65	93	58	76	6	1.1	.5	1.1	7.0	141	15.6	98	100	57	3	0	2	1	
MI GRAND RAPIDS	86	66	90	58	76	5	1.3	.6	1.3	11.4	198	24.6	134	95	58	4	0	1	0	
MI HOUGHTON LAKE	83	64	91	55	74	7	.4	-3	.3	5.0	102	14.9	101	93	56	2	0	2	0	
MI LANSING	87	66	92	56	76	5	.6	0	.6	10.9	208	19.9	123	97	53	3	0	1	1	
MI MARQUETTE	79	59	95	47	69	4	.9	.2	.9	4.1	70	15.5	77	96	62	1	0	1	1	
MI MUSKOGON	86	66	89	56	76	6	1.1	.5	1.0	4.4	112	13.8	85	90	54	0	0	3	1	
MI SAULT STE. MARIE	78	57	84	50	68	4	3.2	2.5	1.2	10.9	213	20.6	126	100	69	0	0	4	3	
MN ALEXANDRIA	82	66	90	58	74	3	1.4	.7	1.2	6.6	113	19.2	141	95	56	1	0	3	3	
MN DULUTH	74	56	90	49	65	-1	.8	0	.8	11.9	186	20.9	134	100	69	1	0	2	1	
MN INT'L FALLS	79	59	90	49	69	3	.7	-2	.7	7.0	114	12.6	98	98	58	1	0	2	1	
MN MINNEAPOLIS	86	69	92	58	77	4	.9	.1	.7	8.1	129	21.2	142	91	58	3	0	2	1	
MS ROCHESTER	85	65	92	54	75	4	1.5	.6	1.1	8.0	123	18.6	119	96	64	2	0	3	1	
MS GREENWOOD	96	74	99	72	85	3	.1	-1	.1	4.1	66	18.2	56	94	49	3	0	1	0	
MS JACKSON	93	72	96	71	82	0	.5	-6	.5	6.5	117	23.9	76	97	55	6	0	1	0	
MS MERIDIAN	94	71	99	70	83	2	.9	-4	.6	3.5	51	21.5	66	98	50	5	3	3	1	
MO CAPE GIRARDEAU	97	75	99	70	86	1	.1	-8	.1	4.2	73	25.4	97	88	44	7	0	1	0	
MO COLUMBIA	92	70	99	68	81	3	.8	0	.8	4.1	68	17.4	83	93	49	5	1	1	0	
MO KANSAS CITY	91	73	94	66	82	3	.3	-7	.3	10.4	140	19.6	99	81	52	5	0	1	0	
MO SAINT LOUIS	95	75	102	71	85	6	.6	-3	.4	6.9	114	16.6	82	84	43	6	3	3	0	
MO SPRINGFIELD	94	68	102	66	81	3	.3	-8	.4	4.4	62	15.4	68	90	38	6	0	1	0	
MT BILLINGS	83	54	89	49	69	-4	.1	-1	.1	2.9	107	10.6	109	78	25	0	3	3	0	
MT GLASGOW	82	56	89	52	69	-2	.5	.2	.5	3.1	88	7.2	97	80	27	0	0	3	0	
MT GREAT FALLS	76	49	83	45	63	-7	.7	.5	.7	3.1	89	9.2	90	77	28	0	0	1	1	
MT HAVRE	78	52	84	47	65	-5	1.2	.9	1.1	2.3	78	8.5	118	78	26	0	0	2	1	
MT HELENA	77	46	83	43	62	-7	.3	0	.2	2.6	96	6.5	90	78	29	0	0	3	0	
MT KALISPELL	71	44	78	35	58	-8	.3	.1	.2	3.2	110	10.9	118	92	38	0	0	3	0	
MT MILES CITY	89	60	92	54	75	0	.0	-3	.2	2.7	72	8.5	92	64	23	4	0	0	0	
MT MISSOULA	76	44	83	37	60	-8	.0	-2	.0	3.5	142	9.3	115	94	28	0	1	0	0	
NE GRAND ISLAND	94	69	101	62	82	5	.0	-6	0	6.6	120	14.6	99	80	37	5	0	0	0	
NE LINCOLN	92	71	95	63	81	3	.3	-7	0	8.6	148	20.3	126	80	48	5	0	0	0	
NE NORFOLK	91	70	96	61	81	5	.0	-7	0	6.1	95	17.7	116	81	47	5	0	0	0	
NE NORTH PLATTE	94	65	98	57	79	.9	.3	-4	.3	3.9	69	12.3	95	85	36	5	1	1	0	
NE OMAHA	90	73	93	65	81	5	.2	-6	.2	5.7	91	20.6	121	82	58	4	0	1	0	
NE SCOTT'S BLUFF	90	60	96	53	75	0	1.4	.9	.9	8.6	200	15.4	151	93	32	2	5	0	1	
NE VALENTINE	93	63	98	51	78	3	.3	-5	.0	2.3	52	10.4	96	83	32	5	0	0	0	
NV ELY	85	49	92	41	67	-1	.1	-1	.1	.6	4.4	80	58	19	2	0	2	0	0	
NV LAS VEGAS	100	76	105	71	88	-3	.0	-1	.1	.1	0	1.1	52	34	13	7	0	0	0	
NV RENO	87	51	94	43	69	-1	.0	-1	0	.3	60	7.5	160	65	16	3	0	0	0	
NV WINNEMUCCA	89	49	95	40	69	-4	.0	0	0	.1	11	3.5	71	40	15	4	0	0	0	
NH CONCORD	78	55	87	49	66	-4	.2	-4	.1	7.6	163	21.6	115	99	58	0	0	2	0	
NJ ATLANTIC CITY	86	66	90	58	76	1	3.0	2.1	2.1	6.2	122	20.5	92	96	55	2	0	3	2	
NM ALBUQUERQUE	87	64	95	60	76	-4	.2	-1	.2	3.9	322	6.7	197	78	30	3	3	3	0	
NM CLOVIS	92	65	96	63	79	1	.1	-6	.1	3.5	81	7.7	87	63	25	5	0	0	0	
NM ROSWELL	91	65	94	62	78	-4	.1	-3	.1	6.0	365	8.8	244	79	29	5	0	1	0	
NY ALBANY	81	61	89	54	71	-1	1.0	.3	.8	8.0	157	22.6	119	100	58	0	0	2	1	
NY BINGHAMTON	77	60	83	51	69	0	2.5	1.8	1.0	9.9	173	25.2	127	96	62	0	0	4	3	
NY BUFFALO	80	64	85	60	72	1	.8	.1	.4	6.4	145	21.1	112	97	60	0	0	3	0	
NY NEW YORK	82	68	88	63	75	-2	.7	-1	.5	3.6	67	17.8	78	89	51	0	0	3	0	
NY ROCHESTER	79	61	82	56	70	-1	.7	-2	.4	6.1	143	17.6	106	99	65	0	0	3	0	
NY SYRACUSE	81	62	85	55	71	0	.2	-6	.2	6.8	115	20.3	98	97	61	0	0	4	0	
NC ASHEVILLE	91	64	94	62	77	4	.1	-1	.0	1.7	25	11.5	42	95	38	4	0	0	0	
NC CHARLOTTE	99	75	103	72	87	8	.8	.9	.7	.7	12	8.5	34	80	33	7	0	1	0	
NC GREENSBORO	94	72	97	70	83	6	.1	-9	.1	2.7	41	8.7	37	91	40	6	0	1	0	
NC HATTERAS	90	76	93	72	83	5	.3	-9	.2	4.6	62	18.1	66	97	61	5	0	2	0	
NC NEW BERN	94	75	99	72	85	6	.9	-6	.8	6.9	76	20.4	73	95	49	6	0	2	1	
NC RALEIGH	96	71	99	69	83	5	.1	-9	.1	3.5	56	14.1	60	94	42	6	0	1	0	
NC WILMINGTON	96	77	100	75	87	7	4.1	2.4	3.1	11.0	108	27.3	96	92	47	6	0	2	2	
ND BISMARCK	85	60	90	52	73	2	2.4	1.9	.9	7.6	173	15.1	154	97	45	1	0	5	2	
ND FARGO	83	65	88	60	74	3	.3	-5	.1	6.6	129	14.1	127	99	61	0	0	3	0	
ND GRAND FORKS	83	61	86	58	72	3	.6	0	.5	3.0	63	8.1	81	81	55	0	0	3	0	
ND WILLISTON	80	56	84	50	68	-2	4.0	3.6	2.8	7.6	194	15.3	176	94	42	0	0	3	2	
OH AKRON-CANTON	85	67	91	58	76	4	.2	-7	.2	6.4	112	16.9	82	97	58	3	0	3	0	
OH CINCINNATI	90	71	93	68	80	4	.6	-4	.6	4.7	69	16.8	70	97	53	4	0	2	1	
OH CLEVELAND	86	67	93	56	76	4	.2	-6	.2	5.5	99	21.5	108	95	54	3	0	2	0	
OH COLUMBUS	88	69	92	63	79	5	.2	-7	.2	9.1	140	20.0	92	94	53	3	0	2	0	

Based on 1951-80 normals.

Weather Data for the Week Ending July 19, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUNE 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	89	70	92	65	79	4	.5	-.2	.5	10.1	170	24.4	117	94	54	4	0	2	0
TOLEDO	88	68	92	59	78	6	.8	.1	.5	8.1	146	19.1	107	98	57	4	0	0	0
YOUNGSTOWN	84	64	91	51	74	4	.1	-.9	0	16.9	281	27.0	129	98	56	3	0	2	0
OK OKLAHOMA CITY	97	73	103	68	85	3	0	-.7	0	3.2	55	18.3	98	72	28	0	0	0	0
TULSA	96	75	102	67	86	3	.9	-.1	.9	5.4	78	21.0	94	78	36	7	7	1	0
OR ASTORIA	66	52	74	43	59	-1	.1	-.2	.1	2.6	83	35.6	96	91	58	0	0	2	0
BURNS	77	41	86	30	59	-11	T	-.1	T	.7	66	7.5	208	—	—	0	1	1	0
MEDFORD	84	50	94	44	67	-6	0	0	0	.5	55	10.2	97	77	21	1	0	0	0
PENDLETON	78	52	90	48	65	-9	T	-.1	T	.5	59	7.5	109	66	23	1	1	0	0
PORTLAND	72	53	85	47	63	-5	.1	-.1	.1	1.4	82	18.1	91	91	47	0	0	2	0
SALEM	74	49	86	43	61	-5	.1	0	.1	1.7	118	22.5	104	92	40	0	0	1	0
PA ALLENTOWN	82	65	88	59	74	0	0	-.6	.5	5.5	94	22.3	94	91	56	0	0	4	2
ERIE	81	66	88	58	73	4	.7	0	.5	10.2	177	25.3	127	95	61	0	0	3	1
HARRISBURG	86	66	93	59	76	0	2.5	1.7	1.4	4.9	85	21.2	97	98	52	1	1	3	2
PHILADELPHIA	88	69	93	64	79	2	1.9	1.1	1.1	5.3	85	19.3	85	93	50	3	0	4	2
PITTSBURGH	84	67	91	59	76	4	.4	-.5	.4	9.4	166	20.3	95	87	52	2	0	2	0
SCRANTON	79	63	84	57	71	-1	3.1	2.4	1.2	12.0	219	26.7	144	97	64	0	0	5	3
RI PROVIDENCE	77	61	83	58	69	-4	1.1	-.4	.5	7.1	156	23.3	97	98	67	0	0	3	0
SC CHARLESTON	100	77	104	74	89	8	1.7	.1	1.7	5.0	45	15.6	53	94	41	7	7	1	0
COLUMBIA	102	74	106	71	88	7	.3	-.9	.1	1.5	19	8.7	30	90	30	7	0	3	0
FLORENCE	99	76	104	72	87	6	.5	-.9	.5	5.0	61	12.9	51	91	38	7	0	1	0
GREENVILLE	98	71	103	69	85	7	1.1	-.2	1.0	2.3	32	15.0	50	92	36	7	0	3	1
SD ABERDEEN	88	64	93	51	76	4	1.3	-.7	.8	4.5	93	16.7	146	97	49	3	0	2	2
HURON	88	65	95	50	77	3	.9	-.4	.7	3.5	73	14.2	119	97	53	2	0	2	1
RAPID CITY	86	61	91	50	73	0	.1	-.4	-.1	5.4	114	13.9	122	85	39	2	0	2	0
SIoux FALLS	90	68	96	55	79	5	.6	0	.4	5.5	102	15.3	109	86	46	3	0	3	0
TN CHATTANOOGA	94	72	97	69	83	4	1.7	-.6	1.6	3.8	62	14.3	46	96	47	6	0	3	1
KNOXVILLE	94	69	98	66	81	3	.6	-.4	.5	2.4	36	13.7	48	96	45	6	0	3	0
MEMPHIS	98	78	101	75	88	6	T	-.9	T	4.6	75	17.9	57	82	42	7	0	1	0
NASHVILLE	93	72	96	70	83	4	.3	-.6	.3	3.0	48	12.9	44	95	47	6	0	2	0
TX ABILENE	94	71	97	69	83	-2	0	-.5	0	7.8	203	14.8	119	74	29	6	0	0	0
AMARILLO	95	68	99	66	81	2	0	-.6	0	3.9	75	9.0	82	68	24	7	0	0	0
AUSTIN	96	73	98	69	84	-1	0	-.4	0	2.7	62	13.5	78	93	36	7	0	0	0
BEAUMONT	93	75	95	72	84	1	.2	-.1	.2	13.4	186	30.8	116	96	51	7	0	1	0
BROWNSVILLE	93	74	94	71	83	-1	T	-.3	T	4.1	112	9.2	86	97	48	7	0	0	0
CORPUS CHRISTI	93	72	95	68	83	-2	0	-.4	0	3.1	67	11.8	86	97	47	7	0	0	0
DEL RIO	92	72	96	68	82	-4	1.2	-.8	1.2	4.8	170	12.4	143	72	37	5	0	1	0
EL PASO	90	67	96	63	78	-4	.6	-.2	.4	4.1	267	5.7	184	87	33	2	0	3	0
FORT WORTH	97	74	101	72	86	-1	0	-.5	0	3.9	101	18.3	103	77	28	7	0	0	0
GALVESTON	90	80	91	78	85	2	T	-.8	T	4.9	85	12.9	68	78	57	3	0	1	0
HOUSTON	95	74	97	71	84	1	.1	-.7	.1	7.0	112	18.8	77	90	45	7	0	1	0
LUBBOCK	94	67	97	65	80	0	0	-.5	0	6.3	145	10.1	103	74	28	7	0	0	0
MIDLAND	92	66	96	62	79	-3	0	-.4	0	4.4	178	8.6	125	87	32	5	0	0	0
SAN ANGELO	94	68	99	66	81	-3	0	-.3	0	3.3	123	12.0	130	80	27	6	0	0	0
SAN ANTONIO	94	74	97	71	84	-1	.1	-.4	.1	12.0	284	22.5	146	90	37	6	0	1	0
VICTORIA	94	73	97	72	84	-1	.1	-.5	.1	8.3	132	18.2	97	95	42	7	0	2	0
WACO	99	74	101	71	86	0	0	-.4	0	4.3	116	19.0	106	89	31	7	0	0	0
WICHITA FALLS	99	74	103	73	87	1	0	-.4	0	8.1	196	17.1	113	68	26	7	0	0	0
UT BLANDING	86	58	95	53	72	-2	.7	.5	.6	2.1	223	6.5	123	82	36	3	0	3	1
CEDAR CITY	87	57	92	53	72	-3	T	-.3	T	.3	32	4.4	81	60	25	3	0	1	0
SALT LAKE CITY	89	63	96	55	76	-2	.1	0	.1	.6	39	13.0	137	64	23	4	0	2	0
VT BURLINGTON	79	57	88	53	68	-2	.5	-.3	.5	7.2	125	20.8	120	96	52	0	0	2	0
VA NORFOLK	93	74	100	68	83	5	1.3	-.1	1.2	2.9	45	13.5	56	85	45	5	0	2	1
RICHMOND	95	72	99	67	83	5	1.1	-.1	1.1	3.3	50	14.1	61	89	40	6	0	3	0
ROANOKE	92	70	97	65	81	5	.2	-.6	.2	2.3	42	13.3	61	90	41	6	0	1	0
WA COLVILLE	76	46	88	39	61	-7	-.3	-.1	.2	2.4	123	14.4	152	81	41	0	0	3	0
QUILLAYUTE	64	48	73	42	56	-3	-.3	-.2	.1	4.8	105	64.1	117	98	60	0	0	4	0
SEATTLE-TACOMA	68	52	78	49	60	-5	-.4	-.3	.4	1.8	96	20.5	104	83	48	0	0	1	0
SPOKANE	74	48	86	44	61	-9	.1	-.1	.1	.9	55	10.0	105	81	27	0	0	1	0
YAKIMA	78	46	92	38	62	-9	-.1	-.1	.1	.3	46	5.2	116	81	29	1	0	1	0
WV BECKLEY	83	65	86	63	74	4	-.2	-.9	-.1	6.2	95	19.3	78	100	62	0	0	2	0
CHARLESTON	88	71	92	69	80	5	T	-.7	T	8.4	128	23.0	95	98	58	3	0	1	0
HUNTINGTON	88	70	92	67	79	4	-.4	-.4	.4	8.6	137	19.6	82	99	57	4	0	2	0
PARKERSBURG	87	70	92	64	79	4	1.3	-.3	1.0	9.3	126	20.0	78	97	59	3	0	3	1
WI GREEN BAY	83	63	94	53	73	3	2.1	1.4	1.2	6.7	128	14.0	92	98	65	2	0	2	2
LA CROSSE	88	69	96	58	78	5	.6	-.3	.3	6.5	99	14.5	85	91	56	3	0	0	0
MADISON	88	66	94	55	77	6	.1	-.7	.1	5.9	95	15.4	91	95	59	4	0	2	0
MILWAUKEE	85	67	94	59	76	5	1.1	-.3	.9	8.7	150	19.8	114	93	60	4	0	2	1
WAUSAU	83	64	94	54	73	4	1.9	1.0	.9	6.0	94	13.0	77	95	60	2	0	4	2
WY CASPER	87	54	93	46	71	-1	.5	-.3	.4	4.7	240	9.6	126	79	22	2	0	5	0
CHEYENNE	85	55	91	52	70	1	.5	0	.3	3.2	103	7.6	88	78	26	1	0	2	0
LANDER	86	56	91	51	71	-1	.1	-.1	.1	.5	24	6.2	68	63	21	2	0	3	0
SHERIDAN	86	51	91	40	68	-2	0	-.2	0	3.8	131	9.3	95	82	24	2	0	3	0
PR SAN JUAN	89	75	90	73	82	0	.2	-.9	.1	2.6	34	29.2	121	92	58	2	0	3	0

Based on 1951-80 normals.

Cooling Degree Day Data Weekly Summary

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

LAST DATE OF DATA COLLECTION PERIOD IS 7-19-1986
ACCUMULATIONS ARE FROM JANUARY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM, CUM CUM, CUM CUM, CUM CUM, STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM, CUM CUM, CUM CUM, CUM CUM. Rows list various cities and their corresponding cooling degree day data.

National Agricultural Summary

July 14 to 20, 1986

HIGHLIGHTS: Hot, dry weather continued parching crops in the Southeast. Scattered showers helped but provided very little relief. Crop development continued ahead of normal in the Corn Belt and central and northern Great Plains. Rain slowed fieldwork to 5 days or less in the Corn Belt and central and northern Plains. Farmers were able to work more than 5 days in most other areas. Soil moisture was critically short from Maryland southward along the east coast and throughout the Southeast. Soil moisture was becoming short in the Delta States. Moisture was generally adequate in the northern half of the Nation.

Rain slowed wheat harvest in some Corn Belt and northern Plains States. Wheat was 82 percent (%) combined, 4 points ahead of the 5-year average but 1 percentage point behind 1985. Spring wheat was 96% headed, 3 points ahead of normal. Corn was mostly good in the northern half of the Nation. Crop conditions declined in the Southeast. Fifty-four percent of the acreage was silking and 9% was in the dough stage. Normally 33% would be silking and 5% would be in the dough stage. Soybean acreage setting pods reached 13% compared with 11% last year and 7% normally. Fifty percent of the acreage had blooms, 12 points above the average. Soybeans were mostly good in the Corn Belt and central and northern Plains. Poor to fair conditions existed in the Southeast. Soybeans were mostly fair in the Delta. Sorghum was 33% headed, 5 points ahead of the average. Cotton began suffering from moisture shortages in the Southeast. Cotton acreage with bolls totaled 39% which equaled 1985 but was 3 points ahead of the average. Seventy-seven percent of the acreage had squares 2 points behind normal. Rice was 31% headed, 6 points ahead of the average. Pastures were mostly dry in the Southeast forcing producers to sell livestock. Extreme heat caused poultry losses in the Southeast.

SMALL GRAINS: Winter wheat was 82% harvested compared with 83% in 1985 and the 78% average. Rain slowed harvest a little in the Corn Belt and northern Plains, but harvest still increased 6 points from the previous week. In Michigan, harvest was 25% finished, 5 points behind normal but up 23 points from the previous week. A fifth of Ohio's wheat was harvested bringing total completion to 84% which equaled the average. Harvest lagged 9 points behind normal but increased 21 points from the previous week in South Dakota.

Spring wheat was mostly good to fair. Nearly a fourth of the acreage was turning ripe and 1% was harvested in Minnesota. In North Dakota spring wheat progressed slightly ahead of normal. Heavy winds and hail caused some crop damage in the central and southeast section of the State. In the 5 major spring wheat producing States, heading was 96% finished, 2 points behind last year but 3 points ahead of the average.

CORN: Corn was mostly good through the Corn Belt and central and northern Plains. In the Southeast, crop condition deteriorated rapidly and was mostly poor at week's end. Scattered showers provided some relief but did very little to ease the stress caused by high temperatures. In the 17 major producing States, 54% of the acreage was silking, 11 points ahead of normal. Nine percent of the acreage had ears in the dough-stage compared with 8% in 1985 and 5% normally. Harvest was underway in Georgia, Louisiana, Mississippi, and Texas.

SOYBEANS: Soybeans were mostly good in the Corn Belt and central and northern Plains. The crop was poor to fair and showed no signs of improving in the Southeast. Soybeans were mostly fair in the Delta. Half the acreage had reached the bloom stage compared with 49% last year and 38% normally. Thirteen percent of the acreage was setting pods, 6 points ahead of schedule. Despite late planting, soybeans blooming and setting pods were near normal in the Southeast.

SORGHUM: Sorghum was 33% headed, 5 points above the average. Sorghum was fair to good in the Delta and mostly good in the other major producing States. In Kansas, development was ahead of schedule. Harvest was just beginning in Louisiana and 8% finished in Texas. Nebraska's sorghum was mostly good to excellent. Green bug population was increasing in the southeast and southcentral areas of Nebraska.

COTTON: Inadequate moisture began taking its toll as crop conditions declined throughout the Delta and Southeast. Cotton was mostly poor to fair in the Southeast and good to fair in the Delta and Southwest. The crop was mostly fair to good in the Plains States. In the 14 major producing States, bolls were present on 39% of the acreage, equaling last year but 3 points ahead of the average. Cotton squaring totaled 77%, 2 points behind normal. Insects were becoming a problem in Texas and Arizona. Hot, dry weather stressed dryland cotton in Oklahoma.

OTHER CROPS: Rice was 31% headed, 8 points ahead of 1985 and 6 points ahead of the average. Harvest was 4% finished in Texas and 2% finished in Louisiana.

Peanuts were mostly fair in Georgia. Blooming was nearly complete and slightly more than three-fourths of the acreage was pegging. Peanut planting neared completion in Texas. Most fields showed good stands, but rain would help peanuts in southern Texas. North Carolina peanuts were fair to good.

Flue-cured tobacco harvest gained momentum in Georgia and North Carolina but lagged behind normal. Harvest was just beginning in Virginia. **FRUIT AND NUTS:** Peach harvest continued in full swing. Redhaven peaches were harvested in New Jersey. Georgia peach harvest was 90% complete, 10 points ahead of normal. Sweet cherry harvest neared completion, but tart cherry harvest was just beginning in New York. Wind-whip and high temperatures reduced tart and sweet cherry quality in Michigan. High winds caused pecan droppage in Texas. Florida's citrus groves were hot and dry with irrigation resuming in dry areas. New crop fruit progressed well. Table grapes, peaches, nectarines, pears, and plums were harvested in California.

VEGETABLES: Florida vegetable harvest was limited mostly to peppers and squash. Watermelon harvest neared completion. Vegetable harvest gained momentum in the northern producing areas. Land preparation for fall vegetables was the major activity in Texas. Broccoli, snap beans, carrots, celery, lettuce, and melons were harvested in California.

PASTURES AND LIVESTOCK: Pastures were virtually dry in the Southeast. Livestock producers were selling cattle prematurely in the Southeast. Excessive heat caused poultry losses. Producers took additional measures to minimize losses.

CROP PROGRESS

FOR WEEK ENDING JULY 20, 1986

SPRING WHEAT % HEADED				WINTER WHEAT % HARVESTED				SOYBEANS % BLOOM				SOYBEANS % SETTING PODS			
1986 1985 AVG.				1986 1985 AVG.				1986 1985 AVG.				1986 1985 AVG.			
IDAHO	99	98	97	ARK	99	100	99	ALA	33	34	28	ALA	13	15	10
MINN	93	94	95	CALIF	98	95	93	ARK	15	19	13	ARK	1	0	2
MONT	95	100	90	COLO	80	85	68	GA	22	42	23	GA	3	13	5
N DAK	95	97	90	GA	100	100	100	ILL	77	69	57	ILL	35	23	16
S DAK	100	100	100	IDAHO	4	3	3	IND	55	60	45	IND	6	7	5
5 STATES	96	98	93	ILL	98	98	97	IOWA	65	65	48	IOWA	10	19	13
THESE 5 STATES PRODUCED 95% OF THE 1985 SPRING WHEAT CROP.				IND	93	100	90	KANS	40	25	20	KANS	15	5	3
				KANS	100	100	96	KY	36	36	20	KY	11	8	4
				MICH	25	55	30	LA	51	37	32	LA	19	11	11
				MO	100	100	92	MICH	20	25	30	MICH	1	2	2
				MONT	2	5	0	MINN	49	51	41	MINN	2	3	2
				NEBR	92	92	85	MISS	26	46	31	MISS	8	7	7
				N MEX	100	NA	NA	MO	49	47	30	MO	23	20	9
				N C	100	100	100	NEBR	75	70	45	NEBR	15	9	3
				OHIO	84	89	84	N C	12	15	14	N C	0	0	0
				OKLA	100	100	100	OHIO	62	48	40	OHIO	12	6	0
				OREG	12	4	4	S C	9	20	13	S C	1	3	0
				S DAK	31	56	39	S DAK	35	43	47	S DAK	7	5	2
				TEX	100	100	99	TENN	25	25	20	TENN	7	6	4
				WASH	10	5	5	19 STATES	50	49	38	19 STATES	13	11	7
				20 STATES	82	NA	NA	THESE 19 STATES PRODUCED 96% OF THE 1985 SOYBEANS CROP.				THESE 19 STATES PRODUCED 96% OF THE 1985 SOYBEANS CROP.			
				EXCL. STATES WITH NA	82	83	78								
				THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.											
GRAIN SORGHUM % HEADED				RICE % HEADED											
1986 1985 AVG.				1986 1985 AVG.											
ARK	66	NA	NA	ARK	11	7	5								
ILL	30	NA	NA	CALIF	0	0	1								
KANS	10	3	3	LA	73	58	54								
LA	94	84	74	MISS	24	48	20								
MISS	55	68	44	TEX	78	42	82								
MO	36	25	24	5 STATES	31	23	25								
NEBR	10	4	3	THESE 5 STATES PRODUCED 97% OF THE 1985 RICE CROP.											
OKLA	15	15	15												
S DAK	4	3	3												
TENN	50	40	NA												
TEX	66	66	69												
11 STATES	35	NA	NA												
EXCL. STATES WITH NA	33	29	28												
THESE 11 STATES PRODUCED 94% OF THE 1985 GRAIN SORGHUM CROP.															
COTTON % SQUARING				COTTON % SETTING BOLLS				CORN % SILKING				CORN % DOUGH			
1986 1985 AVG.				1986 1985 AVG.				1986 1985 AVG.				1986 1985 AVG.			
ALA	98	99	94	ALA	65	75	53	COLO	21	29	12	COLO	0	0	0
ARIZ	99	100	99	ARIZ	94	75	80	GA	99	99	96	GA	93	94	82
ARK	99	100	98	ARK	80	77	58	ILL	87	81	60	ILL	20	13	8
CALIF	98	98	88	CALIF	45	45	37	IND	70	65	35	IND	6	5	0
GA	94	97	95	GA	50	79	67	IOWA	55	52	34	IOWA	0	0	0
LA	100	96	91	LA	85	78	56	KANS	70	55	35	KANS	15	15	4
MISS	98	100	98	MISS	74	61	46	KY	82	71	54	KY	14	11	3
MO	100	100	90	MO	77	78	52	MICH	15	20	15	MICH	0	0	0
N MEX	90	90	89	N MEX	45	80	73	MINN	17	13	7	MINN	0	0	0
N C	92	95	79	N C	60	61	47	MO	83	72	44	MO	38	30	15
OKLA	50	55	25	OKLA	5	15	5	NEBR	55	40	20	NEBR	3	2	1
S C	91	100	100	S C	68	85	86	N C	90	95	89	N C	62	70	59
TENN	94	94	90	TENN	40	35	25	OHIO	65	56	36	OHIO	8	5	0
TEX	56	50	67	TEX	14	16	24	PA	22	12	19	PA	0	0	0
14 STATES	77	74	79	14 STATES	39	39	36	S DAK	7	10	11	S DAK	0	0	0
THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.				THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.				TEX	88	84	NA	TEX	68	62	NA
								WIS	19	15	10	WIS	0	0	0
								17 STATES	55	50	NA	17 STATES	11	9	NA
								EXCL. STATES WITH NA	54	49	33	EXCL. STATES WITH NA	9	8	5
								THESE 17 STATES PRODUCED 93% OF THE 1985 CORN CROP.				THESE 17 STATES PRODUCED 93% OF THE 1985 CORN CROP.			

WEEKLY CROP WEATHER CONDITION PERCENT REPORT
FOR WEEK ENDING JULY 20, 1986

COTTON

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ALA	0	8	61	31	0
ARIZ	0	0	0	85	15
ARK	0	0	24	62	14
CALIF	0	0	0	80	20
GA	8	25	59	6	2
LA	0	12	40	48	0
MISS	0	11	34	51	4
MO	0	13	62	25	0
N MEX	0	0	25	75	0
N C	NA	14	50	33	3
OKLA	0	0	65	35	0
S C	20	48	32	0	0
TENN	0	2	16	77	5
TEX	0	4	48	39	9

SOYBEANS

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ALA	0	26	63	11	0
ARK	0	27	61	12	0
GA	15	45	36	4	0
ILL	0	0	5	59	36
IND	NA	3	22	64	11
IOWA	1	0	14	70	15
KANS	0	0	1	18	81
KY	0	4	32	62	2
LA	0	5	77	18	0
MICH	2	8	25	50	15
MINN	0	5	30	56	9
MISS	6	35	38	20	1
MO	2	6	31	55	6
NEBR	0	0	3	68	29
N C	NA	37	45	18	0
OHIO	0	4	13	65	18
S C	18	34	44	4	0
S DAK	0	5	10	70	15
TENN	3	18	64	15	0

NA - NOT ASKED

SPRING WHEAT

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
IDAHO	0	3	27	67	3
MINN	0	0	34	59	7
MONT	0	1	26	68	5
N DAK	0	0	11	87	2
S DAK	0	3	15	72	10

RICE

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	0	5	90	5
CALIF	0	0	0	80	20
LA	0	0	25	63	12
MISS	0	13	36	51	0
TEX	0	0	30	52	18

CORN

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
COLO	2	2	17	57	22
GA	22	37	35	4	2
ILL	0	0	2	33	65
IND	NA	0	12	70	18
IOWA	0	1	3	51	45
KANS	0	0	5	23	72
KY	1	5	31	60	3
MICH	1	4	15	45	35
MINN	0	4	14	53	29
MO	2	2	16	50	30
NEBR	0	0	1	48	51
N C	NA	60	26	12	2
OHIO	1	1	4	55	39
PA	1	7	28	42	22
S DAK	0	1	12	64	23
TEX	0	5	16	58	21
WISC	0	2	2	56	40

GRAIN SORGHUM

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	0	56	42	2
ILL	0	0	0	86	14
KANS	0	1	9	31	59
LA	0	4	21	75	0
MISS	0	15	42	43	0
MO	3	11	32	46	8
NEBR	0	0	5	57	38
OKLA	0	0	20	79	1
S DAK	2	0	23	61	14
TENN	1	4	66	29	0
TEX	0	0	32	54	14

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures averaged 1 to 3° above normal western half, 3 to 6° above normal eastern half. Rainfall totals mostly under 0.50 in. Few locations 1.00 to 2.00 in.

Days suitable for fieldwork 6.2. Soil moisture 85% short, 15% adequate. Scattered showers helped crops some areas, additional moisture still needed. Primary activities: Harvesting hay, fruits, vegetables; cultivating row crops; applying fungicides to peanuts; controlling insects on row crops, pecans, fruits, vegetables; general care of livestock, poultry.

ALASKA: Warm temperatures, rain advanced growing conditions. Temperatures ranged 3° below normal to 6° above normal. Seasonal precipitation ranged 3.19 in. wetter than normal to 1.92 in. drier than normal.

Days suitable for fieldwork 4.0. Topsoil moisture 20% short, 80% adequate. Subsoil moisture 14% short, 86% adequate. Crop growth moderate to rapid. Oats, barley grain heights averaged 28 in. Barley for grain 40% poor, 30% fair, 20% good, 10% excellent. Hay harvest 85% complete. Commercial vegetables, potatoes showed excellent growth. Potatoes over 75% hilled, 40% starting to bloom. Radish, leaf lettuce, Romaine and other greens harvest continued. Commercial head lettuce harvest underway.

ARIZONA: Large increase thunderstorms extreme southeast, White Mountains. Precipitation between 0.10 to 1.00 in., except over 1.75 in. White Mountains, extreme southeast. Considerable flooding isolated areas southeast. Little or no rain west. Average temperatures from normal to 6° below.

Cotton progressed under favorable weather. Central, west, pink bollworm spraying took place. Potentially heavy boll weevil populations central. Control measures applied. Texas Root Rot, lygus, rust problems showed up. Other cotton fieldwork included irrigations, herbicide applications. Alfalfa cutting advanced. Demand steady, prices low. Crop good to excellent, curing weather favorable. Weeds light, insect problems minimal. Wheat, safflower harvests completed. Sesame, sudan grass excellent. Early grain corn harvested west. Silage harvested central. Late corn planted west. Southeast acreages tasseling. Sorghum silage harvest central, good statewide. Cantaloup harvest active, honeydews light. Watermelons, mixed melons harvested. Mixed vegetables shipped central. Potato digging delayed Willcox, by heavy rains. Grape harvest completed. Fig harvest finished central valley. Peaches advanced Willcox district. Lemon harvest will begin 23rd in Yuma area.

ARKANSAS: Extremely hot, dry week with isolated showers in northeast, extreme northwest. Temperature extremes 60°; 108°. Rainfall none to 0.62 in.

Days suitable for fieldwork 7.0. Soil moisture 97% short, 3% adequate. Crop growth slow. Major activities: Baling hay; irrigating; fertilizing; applying herbicides, insecticides; scouting for diseases and insects. Pasture growth slowed. Dry weather forced some livestock marketings. Broiler producers taking preventative measures against heat.

CALIFORNIA: Warm air aloft under high pressure caused hot temperatures early week. Cold troughs

pushed temperatures below normals remainder week. Alturas low 32°. Only rain 0.06 in. Riverside.

Winter wheat, barley harvests complete. Harvested fields burned, plowed, seeded. Rice normal. Wild rice harvest underway. Cotton rapid progress. Safflower matured. Field corn setting ears. Sugarbeet mildew control applied. Blackeye beans all growth stages. Alfalfa good re-growth. Clover seed harvested. Table grape, nectarine, peach, pear, plum harvests active; central valley. Valencia orange picking slowed. Grape growers treating mildew, leafhoppers, grapeleaf skeletonizer. Snap bean harvest active coastal, interior valley areas. Broccoli supplies light Salinas, fairly heavy Santa Maria. Cantaloup harvest full swing San Joaquin Valley. Carrot harvest fairly heavy San Joaquin, Salinas Valleys. Celery fairly heavy supply Salinas, moderate Santa Maria. Honeydew, miscellaneous melon harvest active San Joaquin Valley, started Sacramento Valley. Lettuce supplies fairly heavy central coast. Field preparation for fall lettuce active San Joaquin, Palo Verde Valleys. Summer potato diggings slow. Fall potato movement active from storage. No damage from July 4 frost Tulelake potatoes. Market tomato harvest active San Joaquin Valley. Processing tomato harvest active San Joaquin Valley, increasing Sacramento Valley. Range, pastures dry most State. High temperatures increased fire danger. Brush, grass fires problem many areas. Egg production declined some areas due higher temperatures.

COLORADO: Temperatures averaged 5° above to 20° below normal. Precipitation totals averaged none to 0.78 in.

Days suitable for fieldwork 5.9. Soil moisture 12% very short, 48% short, 35% adequate, 5% surplus. Corn silking. Barley ripe 45%, 47% 1985, 28% avg. Dry beans flowering 28%, 33% 1985, 23% avg. Livestock good; range, pasture fair to mostly good.

FLORIDA: Hottest week this summer. Temperatures 2 to 4° above normal. Rainfall very spotty, averaged near 1.00 in. or less.

Soil moisture short Panhandle, northern areas; adequate elsewhere. Corn very poor dry areas, good, irrigated areas with adequate moisture. Soybeans, peanuts under stress dry areas, generally good elsewhere. Cotton good progress. Haymaking continued. Sugarcane progress normal. Most Panhandle, many northern, central pastures fair to poor; elsewhere mostly good to excellent. Cattle good to excellent where rain fell; elsewhere, fair to poor. Most citrus groves hot, dry. Irrigation resumed dry areas. New crop fruit making good progress; new foliage abundant. Valencia harvest almost complete; grapefruit harvest down to late bloom fruit. Hot, dry over northern, western vegetable producing areas. Temperatures ranged lows 70s to highs upper 90s. Limited rainfall, mostly showers, southern, central areas. Limited harvest peppers, squash. Watermelon harvest nearly complete.

GEORGIA: Record breaking heat. Nearly all of State reported 100° temperatures. Temperatures 100° each day Waycross, 6 days Dublin, Claxton, Jesup. Hottest over weekend, several stations reporting 106°. Temperatures averaged 5 to 8° above normal. Widely scattered thunderstorms gave few areas over 1.00 in. rain, only isolated totals greater than 2.00 in. Many areas received under

0.50 in. Daily pan evaporation extremely high, averaging over 0.33 in. across much of State.

Days suitable for fieldwork 5.5. Soil moisture 78% very short, 22% short. Corn 72% dent, 76% 1985, 57% avg.; 33% mature, 37% 1985, 24% avg.; 5% harvested, 3% 1985, 2% avg. Sorghum grain 11% very poor, 37% poor, 50% fair, 2% good; 99% planted, 99% 1985, 94% avg. Peanuts 10% very poor, 22% poor, 54% fair, 12% good, 2% excellent; 95% blooming, 99% 1985, 97% avg.; 76% pegging, 93% 1985, 86% avg. Soybeans 99% planted, 100% 1985, 98% avg. Tobacco 3% very poor, 14% poor, 63% fair, 20% good; 28% harvested, 33% 1985, 33% avg. Watermelons 2% very poor, 37% poor, 57% fair, 4% good; 82% harvested, 89% 1985, 68% avg. Apples 34% poor, 58% fair, 8% good; 16% harvested, 8% 1985, 6% avg. Peaches 21% poor, 63% fair, 16% good; 90% harvested, 89% 1985, 80% avg. Pasture 40% very poor, 45% poor, 13% fair, 2% good. Hay 37% very poor, 43% poor, 19% fair, 1% good. Cattle 5% very poor, 27% poor, 60% fair, 8% good. Hogs 11% poor, 52% fair, 37% good. Main activities: Harvesting, haying, spraying; selling cattle, cleaning poultry houses; planting as soil moisture permits.

HAWAII: Partially cloudy skies. Winds northeasterly gusting to 25 mph midweek. Occasional rainfall windward, mountain areas. Temperatures ranged upper 60s to low 90s. Rainfall ranged none to 3.90 in.

Days suitable for fieldwork 7.0. High temperatures some areas slowed leafy crops. Banana output steady; orchards fair to good. Papaya harvesting continued low; orchards good.

IDAHO: Low pressure midweek brought rain north, scattered showers southeast. Southwest remained dry. Temperatures 10° below normal. Late week warmer, dry conditions returned.

Days suitable for fieldwork 6.0. Cooler temperatures relieved some moisture stress. More rain needed. Small grains advancing well, harvest of winter wheat getting underway. Winter, spring wheat good. Cutting of alfalfa hay continued with 2nd crop starting many areas. Pastures, range dry but adequate. Potatoes developing well. Livestock good. Grasshopper infestation light, spraying active.

ILLINOIS: Temperatures averaged 20°, 70° above normal. Precipitation none to 1.20 in, heaviest north central.

Days suitable for fieldwork 4.3. Soil moisture 3% short, 89% adequate, 8% surplus. Corn dough 20%, 13% 1985, 8% avg. Soybeans setting pods 35%, 23% 1985, 16% avg. Oats ripe 85%, 88% 1985, 72% avg.; harvested 45%, 55% 1985, 38% avg. Alfalfa 16% fair, 70% good, 14% excellent; alfalfa 2nd crop cut 75%, 87% 1985, 74% avg.; alfalfa 3rd crop cut 9%, 9% 1985, 3% avg. Pasture 16% fair, 64% good, 20% excellent. Major farm activities: Harvesting wheat and hay, cultivating and spraying soybeans, tending livestock and repairing farm machinery.

INDIANA: Temperatures averaged 4 to 70° above normal. Mid afternoon temperature 90s. Humidity levels high. Precipitation ranged from 3.00 in. north to light, spotty central and southwest.

Fieldwork averaged 3.8 days. Topsoil moisture 7% short, 74% adequate, 19% surplus. Subsoil moisture 2% short, 83% adequate, 15% surplus. Rains north slowed wrap-up of wheat harvest, limited other field activities. Corn 73 in. high, 69 in. 1985, 61 in. avg. Corn mostly good to excellent. Soybeans 18 in. high, 20 in. 1985, 17 in. avg. Soybeans fair to mostly good. Oats 45% combined, 55% 1985, 25% avg. Alfalfa 55% cut twice, 80% 1985, 65% avg. Pastures fair to mostly good.

IOWA: Hot, humid week; little rainfall.

Days suitable for fieldwork 4.9. Topsoil moisture 4% short, 81% adequate, 15% surplus; subsoil moisture 79% adequate, 21% surplus. Oats 1% very poor, 3% poor, 27% fair, 58% good, 11% excellent; oats turning color 98%, 100% 1985, 89% avg.; oats harvested 32%, 72% 1985, 36% avg. Winter wheat fair to good; winter wheat harvested 65%, 90% 1985, 69% avg. Hay 1% very poor, 5% poor, 19% fair, 56% good, 19% excellent. Second crop alfalfa harvested 55%, 83% 1985, 58% avg.; second crop clover harvested 25%, 53% 1985, 26% avg. Hot, humid conditions spurred corn development; corn tasseled 75%, 75% 1985, 50% avg.; corn milk stage 5%, 8% 1985, 3% avg. Some short soybeans; soybeans cultivated 1st time 96%, 100% 1985, 100% avg.

KANSAS: Precipitation less than 0.10 in. southwest, northwest, central, northeast; 0.92 in. southeast with some localities over 5.00 in. Hottest week of summer. Average temperatures 82 to 84°; 2 to 3° above normal south central and southeast, 4 to 6° above normal elsewhere.

Days suitable for fieldwork 5.5. Topsoil moisture 21% short, 72% adequate, 7% surplus. Sorghum developing ahead schedule. Greenbug populations controlled by beneficials. Corn crop ahead, corn borers active, light to moderate levels. Spider mite buildup southwestern counties. Soybean crop ahead, no insect or disease problems. Range, pasture excellent, except west fair. Second cutting alfalfa complete, third cutting 30%.

KENTUCKY: Rainfall ranged from less than 0.10 in. to over 2.00 in. Temperatures soared to highest levels of year late in week. Average highs, lows around 50° above normal with daytime highs 90s and nighttime lows 70s.

Days suitable fieldwork 4.4. Soil moisture 40% short, 54% adequate, 6% surplus. Corn developing well most areas in spite of hot weather. Soybean development ahead of normal. Tobacco 1% very poor, 9% poor, 61% fair, 27% good, 2% excellent. Burley 25% blooming or beyond, 40% 1985, avg. 16%. Burley 7% topped. Dark tobacco 33% bloomed, 15% topped. Haying active. Pastures improved with recent rains; 6% very poor, 21% poor, 55% fair, 17% good, 1% excellent.

LOUISIANA: Temperature normal to 20° above. Temperature extremes 67°; 98°. Rainfall averaged none to 0.80 in.

Days suitable for fieldwork 5.8. Soil moisture 48% short, 48% adequate, 4% surplus. Corn good; 96% dough stage, 93% 1985, 86% avg. Corn 33% mature, 41% 1985, 40% avg.; 4% harvested, 1% 1985, 6% avg. Rice 7% ripe, 9% 1985, 7% avg.; 2% harvested, 3% 1985, 3% avg. Sorghum 48% turning color, 34% 1985, 28% avg. Sweetpotatoes fair to good; 1% harvested, 2% 1985, 1% avg. Hay 1st cutting 99% complete, 100% 1985, 99% avg. Sugarcane, pasture good; livestock fair to good; vegetables fair. Main activities: Baling hay; start of corn, rice, sweetpotato harvest; fertilizing pastures. Wilting, leaf shed occurred some cotton, soybean fields.

MARYLAND & DELAWARE: **Maryland:** Temperatures averaged 40° above normal over State; lowest temperature 54° Oakland; highest temperature 99° Hagerstown, Frederick, Patuxent, Cambridge, Snow Hill. Precipitation averaged 0.77 in., ranging from 0.03 to 2.04 in.

Days suitable for fieldwork 5.6. Topsoil, subsoil moisture short. Small grain harvest nearly complete. Field corn 57% silked, 51% 1985, 51% avg. Field corn poor. Soybeans 14% blooming, 26% 1985, 14% avg. Soybeans fair. Tobacco fair. Pasture very short. Alfalfa 2nd cutting 86% harvested, 100% 1985, 81% avg. Alfalfa 3rd cutting 23% harvested, 28% 1985. Other hay 2nd cutting 55% harvested, 92% 1985, 63% avg. Other hay 3rd

cutting 2% harvested, 31% 1985, 9% avg. Sweet corn 44% harvested, 30% 1985, 26% avg. Potatoes 9% harvested, 23% 1985, 27% avg. Watermelons 24% harvested, 20% 1985. Cantaloupes 45% harvested. Cucumbers 71% harvested, 65% 1985, 44% avg. Lima beans 25% harvested, 10% 1985. Snap beans 50% harvested, 79% 1985, 76% avg. Tomatoes 17% harvested, 22% 1985. Peaches 24% harvested. Peaches good. Apples good.

Delaware: Temperatures averaged 2° above normal over State; lowest temperature 60° Middletown; highest temperature 96° Georgetown. Precipitation averaged 0.61 in., ranging from none to 1.19 in.

Days suitable for fieldwork 6.5. Topsoil, subsoil moisture very short to short. Small grain harvest nearly complete. Field corn 73% silked, 67% 1985, 58% avg.; 25% dough; 5% dent. Soybeans 14% bloomed, 36% 1985, 17% avg. Pasture very short. Sweet corn 31% harvested, 13% 1985, 22% avg. Potatoes 12% harvested, 6% 1985, 13% avg. Watermelons 15% harvested. Cantaloupes 21% harvested. Cucumbers 50% harvested, 40% 1985, 53% avg. Snap beans 48% harvested, 36% 1985, 51% avg. Tomatoes 8% harvested, 10% 1985, 10% avg. Peaches 30% harvested. Peaches good.

MICHIGAN: Temperatures ranged 3 to 7° above normal. Temperature extremes 47°; 96°. Precipitation ranged from 0.20 to 3.00 in.

Days suitable for fieldwork 5.0. Soil moisture 15% short, 65% adequate, 20% surplus. Corn 15% silked, 20% 1985, 15% avg.; 1% very poor, 4% poor, 15% fair, 45% good, 35% excellent. Many unevenly developed fields. Soybeans 20% bloomed, 25% 1985, 30% avg.; 2% very poor, 8% poor, 25% fair, 50% good, 15% excellent. Wheat 25% harvested, 55% 1985, 30% avg. Grain drying slowly. Dry beans 10% bloomed, 15% 1985, 20% avg. High humidity hampered 2nd cutting of hay. Tart cherry harvest virtually done southwest, west central areas; full swing northwest. Reduced quality sweets, tarts from wind-whip, high temperatures. Blueberry harvest underway.

MINNESOTA: Temperatures averaged normal to 6° above normal. Temperature extremes 42°; 101°. Precipitation averaged 0.10 below normal to 0.91 above normal. Greatest weekly total 2.88 in.

Days suitable for fieldwork 3.3. Topsoil moisture 2% short, 58% adequate, 40% surplus. Hot, humid across State. Spring wheat 23% turning ripe, 42% 1985, 40% avg.; 1% cut, 1% 1985, 1% avg. Oats 97% heading, 96% 1985, 97% avg.; 56% turning ripe, 73% 1985, 57% avg.; 2% cut, 18% 1985, 6% avg. Barley 96% heading, 97% 1985, 97% avg.; 34% turning ripe, 68% 1985, 62% avg.; 1% cut, 10% 1985, 5% avg. Field corn height 60 in., 57 in. 1985, 54 in. avg. Soybean height 19 in., 17 in. 1985, 17 in. avg. Winter wheat 8% harvested, 9% 1985, 3% avg. Rye 8% harvested, 8% 1985, 3% avg.

MISSISSIPPI: Temperatures 2 to 6° above normal, extremes 65°; 102°. Scattered thunderstorms each day. Greatest 24-hour total 2.58 in.

Days suitable for fieldwork 5.8, 5.0 1985, 5.4 avg. Soil moisture 13% very short, 60% short, 25% adequate, 2% surplus. Corn 12% poor, 25% fair, 47% good, 16% excellent; 95% silking, 94% 1985, 88% avg.; 70% dough stage, 85% 1985, 63% avg.; 37% dented; 12% mature; 1% harvested. Wheat 100% harvested, 100% 1985, 99% avg. Sweetpotatoes 100% planted, 100% 1985. Peanuts 100% planted, 100% 1985. Watermelons 42% harvested, 68% 1985, 49% avg. Hay 57% harvested, 63% 1985, 61% avg. Peaches 80% harvested, 77% 1985, 65% avg. Corn silage 19% harvested, 17% 1985, 13% avg. Sorghum silage 16% harvested.

MISSOURI: Hot, humid weather prevailed. Locally heavy rain early in week northeast, west central

counties, widely scattered showers elsewhere. Rain little to none late in week.

Days suitable for fieldwork 4.3. Soil moisture 29% short, 55% adequate, 16% surplus. Oats harvested 92%, 98% 1985, 75% avg. Alfalfa 2nd cutting 86%, 92% 1985, 79% avg. Third cutting 24%, 15% 1985, 12% avg. Other hay cut 87%, 89% 1985, 83% avg. Pasture 2% very poor, 17% poor, 44% fair, 34% good, 3% excellent.

MONTANA: Temperatures averaged 5 to 8° below normal western two-thirds, near to slightly below normal east. Precipitation none southeast, 3.00 in. some locations of extreme northeast. Moderate to heavy rain central, mostly light remainder.

Days suitable for fieldwork 4.9. Topsoil moisture 26% short, 60% adequate, 14% surplus. Subsoil moisture 11% short, 87% adequate, 2% surplus. Barley 1% poor, 18% fair, 72% good, 9% excellent. Barley 90% headed. Second cutting alfalfa hay 15% complete.

NEBRASKA Precipitation averaged few tenths to 1.50 in. Panhandle. Temperatures normal Panhandle, 5° above normal elsewhere. Temperatures extremes 52°; 101°.

Days suitable for fieldwork 6.1. Topsoil moisture 42% short, 55% adequate, 3% surplus. Subsoil moisture 10% short, 85% adequate, 5% surplus. Wheat mostly good. Virtually all ripe. Wheat harvest progressed rapid pace. Corn excellent to good. Soybeans mostly good to excellent. Sorghum mostly good to excellent. Green bug infestations spreading south central, southeast. Second cutting alfalfa 75%, 80% 1985, 60% avg. Alfalfa mostly good. Oats harvested 65%, 75% 1985, 55% avg. Pasture, range mostly adequate. Pastures remained good, starting to show stress, hot dry weather.

NEVADA: Low pressure trough early in period produced continued cool but dry flow air. Few scattered thundershowers dropped light amounts rainfall over southern, central, eastern portions. With relatively cool air mass most of week, average temperatures generally few degrees below normal. Temperature extremes 26°; 109°.

Alfalfa hay harvest slowed by scattered, light showers some areas. Potatoes, other row crops showed normal growth. Pastures, ranges continued to deteriorate.

NEW ENGLAND: Precipitation near to above normal; 0.50 to 1.00 in. Northern Maine averaged 1.50 in. Mean temperatures lower 60s northern Maine, lower 70s coastal, south, mid to upper 60s elsewhere; all near normal.

Days suitable for fieldwork 6.0. Soil moisture 10% short, 70% adequate, 20% surplus. Grazing availability 15% short, 85% adequate. Fieldwork on schedule. Maine potatoes good. Field corn fair to good north, good to excellent south. Large variation in growth all areas from early season frost, hail and/or late planting. Sweet corn fair to good north, good to excellent south. Tobacco good. First crop hay 90% cut, 80% 1985, 90% avg. Second crop hay 20% cut, 20% 1985, 25% normal. Maine oats good to excellent. Highbush blueberry, raspberry harvest active. Major farm activities: Haying harvesting vegetables, spraying, cultivating.

NEW JERSEY: Temperatures averaged near normal. Extremes 51°; 93°. Rainfall averaged 0.78 in. north, 1.15 in. central, 1.62 in. south. Heaviest 24-hour total 2.08 in. on 16th, 17th. Estimated soil moisture percent field capacity averaged 74% north, 59% central, 55% south. Four inch soil temperatures averaged 70° north, 73° central, 76° south.

Showers continued to benefit developing crops. Summer vegetable harvest becoming widespread. Irish potato digging remained scattered, light. Sweetpotato growth improved. Blueberry movement heavy, declining. Red Haven peach harvest active. Summer variety apple marketings increased. Cranberries sizing. Wheat combining well advanced. Soybean planting complete. Second cutting of hay active as conditions permit. Pasture growth responded to showers.

NEW MEXICO: Weekly average temperatures 1 to 7° below normal. Temperatures 43° central valley, highlands to 100° northwestern plateau, western mountains. Rain over most of State. Precipitation none southeastern plains, northeastern plains to 2.29 in. northern mountains.

Days suitable for fieldwork 6.2. Soil moisture 20% short, 60% adequate, 20% surplus. Hail damage 72% none, 14% light, 14% moderate. Alfalfa 13% poor, 25% fair, 49% good, 13% excellent. Corn 17% fair, 50% good, 33% excellent. Irrigated grain sorghum 43% fair, 43% good, 14% excellent. Dryland grain sorghum 33% fair, 67% good. Pecans 17% poor, 66% good, 17% excellent. Apples 100% good. Chile 20% fair, 80% good. Onions 100% good. Cattle 89% good, 11% excellent. Sheep 87% good, 13% excellent. Range 22% fair, 56% good, 22% excellent.

NEW YORK: Temperatures averaged a few degrees above normal. Rainfall showed a typical summer pattern, was highly variable. Most areas received between 0.50 to 1.00 in. Beginning of week wet. Midweek seasonable, relatively dry. Warm weather returned latter part of week with locally heavy rain west.

Days suitable for fieldwork 5.0. Soil moisture adequate to surplus. First cutting alfalfa hay 87% harvested, 90% 1985, 91% avg. Yields good, quality variable. Clover-timothy hay 78% harvested, 77% 1985, 82% avg. Grass silage harvest virtually complete, 95% 1985, 94% avg. Apples, pears sizing well. Early planted corn tasseling. Sweet cherry harvest nearing completion. Tart cherry harvest beginning. Pastures good.

NORTH CAROLINA: Temperatures averaged 3 to 8° above normal across State. Temperature extremes 57°; 105°. Precipitation ranged from none to 4.08 in. Rainfall totals all under 1.00 in. except Wilmington.

Days suitable for fieldwork 6.3. Soil moisture 66% very short, 24% short, 10% adequate. Corn mostly poor to fair, soft dough stage. Cotton mostly fair to good, setting bolls. Soybeans mostly fair to poor. Tobacco 19% poor, 50% fair, 30% good, 1% excellent. Flue-cured tobacco harvested 9%, 5% 1985, 12% avg. Peanuts 4% poor, 50% fair, 46% good. Sweetpotatoes 11% poor, 55% fair, 24% good, 10% excellent. Irish potatoes harvested 93%, 88% 1985, 84% avg. Apples 20% poor, 55% fair, 25% good. Peaches harvested 70%, 62% 1984, 66% avg. Hay 74% poor, 17% fair, 8% good, 1% excellent. Truck crops 35% poor, 54% fair, 11% good. Pasture 72% poor, 18% fair, 8% good, 2% excellent. Major farm activities: Irrigating crops; topping, suckering tobacco; cutting hay; cultivating soybeans, cotton, peanuts; harvesting vegetables, fruits, flue-cured tobacco; cutting corn for silage; shearing Christmas trees; tending livestock; spraying soybeans, peanuts, apples; mowing; general farm maintenance.

NORTH DAKOTA: Wet, except extreme southwest. Thunderstorms with gusty wind, hail. Many reports of rainfall more than 2.00 in. Temperatures 1° below normal southwest to 3° above normal southeast; low 46° west central 14th, high 91° southeast 16th. Rainfall averaged just under 1.00

in. central, east central to almost 2.00 in. south central.

Days suitable for fieldwork 4.5. Moisture supplies continued well above normal. Topsoil 2% very short, 2% short, 87% adequate, 9% surplus. Heavy winds, hail caused some crop damage north central, southeast. Small grain progress continued slightly ahead of normal. Hard red spring wheat milk to dough and beyond 63%, 77% 1985, 60% avg.; durum wheat milk to dough and beyond 43%, 62% 1985, 44% avg.; barley milk to dough and beyond 74%, 90% 1985, 75% avg. Conditions of late season crops at least 92% good or better. Progress remains well ahead of normal. Potatoes bloom and beyond 67%, 48% 1985, 51% avg.; flax bloom and beyond 57%, 73% 1985, 53% avg.; dry beans bloom and beyond 54%, 34% 1985, 38% avg. Pasture improved to 3% poor, 16% fair, 74% good, 7% excellent.

OHIO: Average high temperatures upper 80s; 3 to 5° above normal. Average lows mid 60s to 70s; 6 to 9° above normal. Rainfall subnormal; mostly 0.50 in. Humidity high.

Days suitable for fieldwork 4.2. Soil moisture 3% short, 67% adequate, 30% surplus. Activities included combining small grains, hay harvest, vegetable and fruit picking, cultivating, mowing set-aside acres. Corn good, improving; temperatures near stress levels, no stress reported. Soybeans good, many drown-outs in low areas of fields. Wheat harvest slowed by rain, wet soils. Oats fair to good; many stands lodged. Hay harvest difficult, some hay going into silo.

OKLAHOMA: Temperatures averaged 1° above normal southwest, southeast to 4° above normal Panhandle, central, northeast. Precipitation averaged none west central, east central, southwest, south central to 0.57 in. northeast.

Days suitable for fieldwork 6.4. Topsoil moisture 70% short, 25% adequate, 5% surplus. Subsoil moisture 35% short, 65% adequate. Wheat 100% harvested, 100% 1985, 99% avg. Growers plowing ground second time for weed control. Sorghum 20% fair, 79% good, 1% excellent; 15% heading, 15% 1985, 15% avg. Cotton 65% fair, 35% good; 50% squaring, 55% 1985, 25% avg.; 5% setting bolls, 15% 1985, 5% avg. Irrigated crops developing rapidly. Dryland crops stressed by hot, dry weather. Pastures good, forage growth limited. Cattle good; marketings up, prices down from preceding week.

OREGON: Average temperatures well below normal. Week began, ended warm except coast, where it remained cold all week. Temperatures dropped into low 30s southwestern valleys, northeastern areas. Western interior valley averages 5° below normal, central 7° below normal, northeast 8° below normal. Precipitation mostly midweek with nearly 0.50 in. recorded northern Cascades; up to 0.10 in. north coast, Willamette Valley, high plateau, northeast sections. Less than 0.01 in. elsewhere.

Soil moisture 66% short, 34% adequate. Barley 39% harvested, 35% 1985. Winter wheat 69% fair, 30% good 1% excellent. Cool, wet weather delayed grain harvest statewide. Rains caught grass seed crops, hay in swath. Spring grains continued good progress with moisture. Crimson clover harvest near complete Willamette Valley. Sugarbeets good Malheur County. Peppermint harvest near west. Haying operations continued all areas. Caneberry harvest continued; Red raspberries neared finish; Marionberry, boysenberry harvests slowed down. Blueberry harvest peak. Strawberry growers mowed, sprayed crown moth. Freezer cherries finished The Dalles. Tart cherry harvest Willamette Valley. Cranberries sizing well, some coloring. Gravenstein apples near picking Douglas County. Early Red Haven peaches ready Milton-Freewater. Vegetable growth slowed by cool weather, less

irrigation. Walla Walla sweet onion harvest continued Milton-Freewater. Onions showed thrips Malheur County, mildew west. Sweet corn good west, some insect damage, harvest soon. Snap bean harvest underway Willamette Valley. Summer squash coming on Douglas County. Willamette Valley vegetables for processing looking good. Carrots need warmer temperatures central. Potatoes closing rows some areas. Livestock good to excellent. Range, pasture fair to good. Cooler weather helped, except low elevation ranges east.

PENNSYLVANIA: Seasonably warm week with intervals of heavy downpours. Showers on four consecutive days from 17th to 20th. Western section of State received too much rain while eastern section recovered from its' big deficiency. Average temperature 73°, 3° above normal. Temperature extremes 46°; 96°. Average precipitation 1.36 in., 0.47 in. above normal.

Days suitable for fieldwork 4.0. Soil moisture 46% short, 29% adequate, 25% surplus. Corn 22% silked, 12% 1985, 19% avg. Corn 1% very poor, 7% poor, 28% fair, 42% good, 22% excellent. Average corn height 55 in., 50 in. 1985, 46 in. avg. Soybeans 1% very poor, 5% poor, 26% fair, 45% good, 23% excellent. Barley 3% turning yellow, 17% ripe, 80% harvested; 1985 3% turning yellow, 19% ripe, 78% harvested. Wheat 8% turning yellow, 34% ripe, 58% harvested; 1985 14% turning yellow, 44% ripe, 42% harvested. Wheat 3% poor, 25% fair, 46% good, 26% excellent. Oats 15% heading, 41% turning yellow, 37% ripe, 7% harvested; 1985 32% heading, 42% turning yellow, 20% ripe, 6% harvested. Oats 5% poor, 31% fair, 41% good, 23% excellent. First cutting alfalfa 100% complete; 1985 100%. Second cutting alfalfa 58% complete; 1985 50%. First cutting clover-timothy 98% complete; 1985 92%. Quality of hay good to fair. Feed from pastures below average to average. Activities: Making hay, haylage; clipping pastures; spraying alfalfa, fruit trees; irrigating; harvesting barley, wheat, oats, cherries, peaches, vegetables, sweet corn, early apples; cultivating tobacco.

PUERTO RICO: Island average rainfall 1.05 in. or 0.18 in. below normal. Highest weekly total 3.72 in. Highest 24-hour total 1.86 in. Temperature averaged about 76° interior divisions, 82° coasts. Mean station temperature ranged 67 to 84°. Extremes 56°; 92°. San Juan WSFO mean temperature 83°. Total rainfall 0.19 in., minus 0.90 in.

SOUTH CAROLINA: Temperatures range lower 100s. Averaging 7° above normal. Rains widely scattered.

Days available for fieldwork 6.1. Soil moisture 85% very short, 15% short. Cotton planted 100%; 91% squaring, 100% 1985, 100% avg.; 68% setting bolls, 85% 1985, 86% avg.; 20% very poor, 48% poor, 32% fair. Soybeans planted 100%; 9% blooming, 20% 1985, 13% avg.; 1% setting pods, 3% 1985; 18% very poor, 34% poor, 44% fair, 4% good. Tobacco poor to fair; 90% topped, 97% 1985, 91% avg. Corn very poor to poor; 97% silked, 99% 1985, 90% avg.; 79% dough stage, 83% 1985, 73% avg.; 33% mature, 23% 1985, 22% avg.; 4% harvested, 1% 1985. Peaches poor to fair; 70% harvested, 81% 1985, 65% avg. Peanuts poor to fair. Pastures, hay very poor to poor. Crop prospects declined rapidly, very hot, dry conditions persist.

SOUTH DAKOTA: Average temperatures none to 5° above normal. Extremes 44°; 101°. Black Hills low 37°. Rainfall varied; central, east 1.00 to 3.00 in.; northwest none.

Days suitable for fieldwork 4.8. Topsoil moisture adequate east, southwest, short elsewhere; 3% critically short, 27% short, 63% adequate, 7% surplus. Winter wheat 10% fair, 75% good, 15%

excellent. Small grain harvest full swing. Wind, rain causing lodging of small grains. Rust, insect damage showed up. All crops good condition. Range, pastures, livestock good to excellent. Feed, stockwater supplies adequate to surplus.

TENNESSEE: Very hot daytime temperatures, 100° common. Precipitation widely scattered. Amounts light.

Days suitable for fieldwork 5.3. Soil moisture 25% very short, 46% short, 29% adequate. Corn 85% tasseling, 85% 1985, 70% avg.; 35% dough, 35% 1985, 20% avg.; 10% dented, 5% 1985, 3% avg.; 3% very poor, 10% poor, 58% fair, 29% good. Cotton 94% squaring, 94% 1985, 90% avg.; 40% setting bolls, 35% 1985, 25% avg.; 2% poor, 16% fair, 77% good, 5% excellent. Sorghum 50% headed, 40% 1985; 1% very poor, 4% poor, 66% fair, 29% good. Soybeans 25% blooming, 25% 1985, 20% avg.; 7% setting pods, 6% 1985, 4% avg.; 3% very poor, 18% poor, 64% fair, 15% good. Tobacco 10% topped, 15% 1985; 2% very poor, 19% poor, 68% fair, 11% good. Cattle fair. Pastures poor to fair.

TEXAS: Hot, dry air mass baking southeastern United States influenced State this week, not much rain east, north recent days. Temperatures eased upward, many stations reported highest temperatures for year. Tropical waves crossed Gulf, entered south bringing coastal rains, spotty showers inland. Tropical moisture flowed around edge stable air mass, brought showers Trans-Pecos. Temperatures southeast, Blacklands, northern High Plains above normal. Cloudiness prevailed rest of State, holding temperatures slightly below normal. Below normal rainfall across State.

Crops: Corn fields good progress Plains, Cross-Timbers. Irrigation necessary many fields. Some light harvesting Blacklands; most fields continued dry down. Yield prospects good. Harvest started good progress Upper Coast, Coastal Bend, Rio Grande Valley. Dented 61%, 53% 1985. Mature 41%, 10% 1985. Harvested 8%, 1% 1985, 2% avg. Grain sorghum fields good development most areas. Irrigation underway Plains. Some early fields heading. Harvesting increased Blacklands, central. Midge affecting later fields. Fields rapidly turning color Hill Country, east. Harvesting winding down Upper Coast, Coastal Bend, Rio Grande Valley. Yields generally down. Planted 100%, 100% 1985, 100% avg. Turning color 56%, 47% 1985, 55% avg. Mature 44%, 29% 1985, 36% avg. Harvested 28%, 13% 1985, 22% avg. Cotton good progress Plains. Hot, dry weather allowed late fields to catch up. Many producers scouting for insects. Cotton began opening Blacklands, central. Bollworms heavy many fields, spraying active. Defoliating, harvesting increasing Coastal Bend, Rio Grande Valley. Insect populations heavy south. Open bolls 5%, 2% 1985, 3% avg. Rice harvesting continued Upper Coast. Early yields good. Turning color 49%, 5% 1985, 46% avg. Harvested 4%, none 1985, 3% avg. Peanut planting good progress once again, most areas finished. Fields showing good stands; rain would help many south fields. Some leafspot showed up. Irrigation increased. Planted 99%, 100% 1985, 100% avg. Soybeans good start Plains, Upper Coast. Planting about complete. Planted 99%, 100% 1985, 98% avg.

Other Field Crops: Sunflowers 100% planted, 100% 1985, 97% avg. Oats 89% harvested, 98% 1985, 98% avg.

Commercial Vegetables: Rio Grande Valley, land preparation fall planting major activity. San Antonio-Winter Garden, watermelon, cucumber harvest continued. East, sweetpotato harvest nearing. Watermelon harvest underway. High Plains, potato, onion harvest continued. Onion yields good. Peppers good progress. Trans-Pecos, cantaloup harvest full swing. Onion harvest slow pace. Many onions lost to heavy rains. Pecans continued good

progress statewide. Aphids major problem. Some drop occurred Trans-Pecos because high winds. Crop expected to be short.

Range and Livestock: Ranges, pastures continued stress under recent hot, dry conditions. Haying operations continued many areas. Good rain would revive declining grasses. Livestock good, marketing steady.

UTAH: Temperatures below normal. Maximums 1 to 4° below normal. Minimums normal to 3° above. Precipitation moderate statewide to over 0.50 in. north, southeast.

Days suitable for fieldwork 6.1. Topsoil moisture 46% short, 54% adequate. Crop progress 7 to 10 days ahead of normal. Winter wheat 58% ripe, 39% 1985, 33% avg.; 20% harvested, 11% 1985, under 10% avg.; barley 54% ripe, 22% 1985, 16% avg.; 21% harvested, under 10% 1985, under 5% avg.; spring wheat 29% ripe, 6% 1985, 5% avg.; oats 46% turned, 59% 1985, 38% avg. Corn 49 in., 49 in. 1985, 42 in. avg.; 16% tasseled, 16% 1985, under 5% avg. Tart cherry, apricot picking well along. Raspberry harvest beginning north, peaches south. Fruit crop light. Ranges dry, need rain. Livestock good. Pinkeye, calf pneumonia north.

VIRGINIA: Above normal temperatures, below normal rain. Temperatures averaged 8° above normal. Rain spotty averaged 0.50 in.

Days suitable for fieldwork 5.9. Soil moisture 93% short, 7% adequate. Most areas dry, few areas had thunderstorms give slight boost to crops. Corn very poor to poor, some beyond help. Feeding some corn to cattle. Corn 49% in silk, 64% 1985, 68% avg. Soybeans poor, germination spotty, some replanting. Weed control difficult. Soybeans 11% blooming, 11% 1985, 11% avg. Peanuts good to excellent, no pegging yet. Tobacco varies, poor to good. Irrigated fields best condition. Flue-cured harvest just beginning. Apples, peaches fair to good. Peach harvest just beginning. Fruit sizing small. Potatoes 84% harvested, 90% 1985, 75% avg. Pasture, hay land conditions remain very poor. Little or no hay cut. Fair to good only in few mountain areas. Grazing hay land. Many feeding hay, selling livestock due to inadequate pastures. Many counties seeking disaster designation.

WASHINGTON: Cool temperatures throughout State, averaged 2 to 13° below normal. Heavy rains; northwest, extreme east. End of week, warmer, dryer.

Days suitable for fieldwork 5.2. Soil moisture 35% short, 65% adequate. Winter wheat 5% poor, 40%

fair, 55% good. Winter wheat, barley mostly good to fair; scattered aphid infestations east, mostly spring grains. Berry harvest continued, blueberries started, raspberries past peak, strawberries finished. Vegetable crops good progress, condition mostly good. Rain slowed haying. Range, pasture 35% short, 64% adequate.

WEST VIRGINIA: Temperatures averaged 5° above normal. Temperature extremes 54° Green Bank, 99° Williamson, Ripley. Average temperature 77°. Precipitation below normal except north central above normal. Greatest amount 2.48 in. Terra Alta. Average precipitation 0.66 in.

Days suitable for fieldwork 4.6. Soil moisture 14% very short, 17% short, 60% adequate, 9% surplus. Feed supplies 33% short, 62% adequate, 5% surplus.

WISCONSIN: Temperatures averaged 75°, 4° above normal, low 47°; high 98°. Rainfall 0.20 to 2.00 in. Very hot, humid.

Days suitable for fieldwork 4.4. Soil moisture 7% short, 69% adequate, 24% surplus. Crops 1% poor, 4% fair, 77% good, 18% excellent. Corn 2% poor, 2% fair, 56% good, 40% excellent. Corn growth good, average height 61 in, 54 in. 1985, 55 in. avg. Corn silking 19%, 15% 1985, 10% avg. Second cutting hay 30%, 45% 1985, 26% avg. Rain, high humidity slowed haying. Oats harvested 7%, 7% 1985, 1% avg. Yields varied, mostly good. Winter wheat harvested 4%. Potato harvest started. Cranberries good condition.

WYOMING: Temperatures below normal. Precipitation also below normal except northwest corner.

Days suitable for fieldwork 6.0. Topsoil moisture 36% short, 64% adequate. Winter wheat headed 10%, 5% 1985; turning color 35%, 40% 1985; mature 40%, 35% 1985; harvested 15%, 20% 1985, 5% avg. Barley jointed 5%; booted 5%, 10% 1985; headed 25%, 30% 1985; turning color 50%, 40% 1985; mature 15%, 20% 1985. Spring wheat booted 5%, 10% 1985; headed 45%, 45% 1985; turning color 35%, 35% 1985, 30% avg.; mature 15%, 10% 1985. Oats jointed 5%, 5% 1985; boot 10%, 20% 1985; headed 60%, 45% 1985; turning color 15%, 25% 1985, 20% avg.; mature 10%, 5% 1985, 5% avg. Dry beans in bloom 30%, 45% 1985, 35% avg. Potatoes in bloom 40%, 55% 1985. Corn tasseled 10%, 20% 1985, 10% avg. Alfalfa 1st cutting complete 85%, 90% 1985, 80% avg. Other hay harvested 50%, 45% 1985, 35% avg. Ranges, pastures mostly good. Stockwater supplies adequate most areas.

MID-AFRICA AGRICULTURAL WEATHER SUMMARY

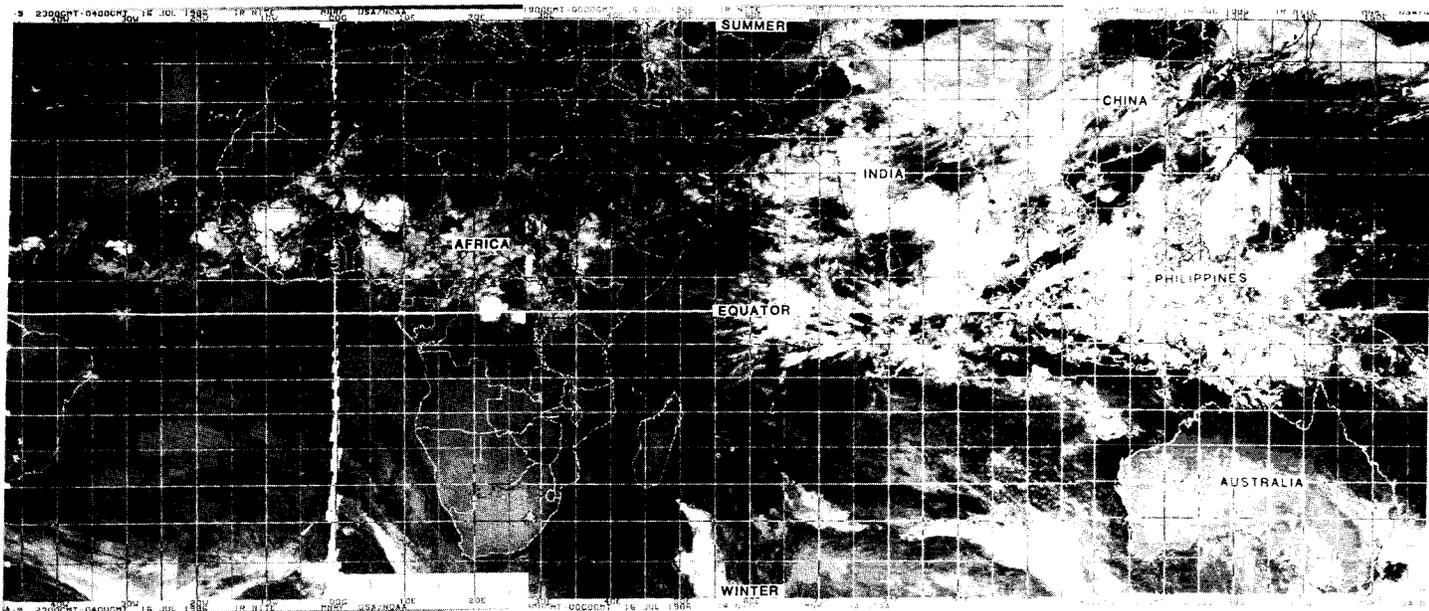
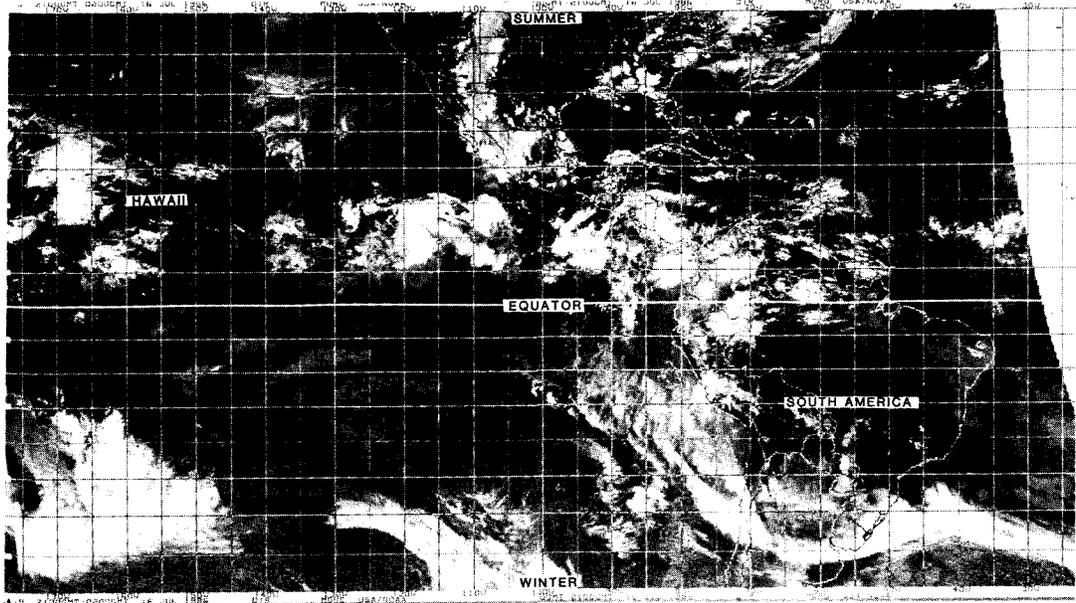
This overview summarizes current conditions in crop areas where the migratory rainy season and coincident crop growing season are underway. The growing season is now concentrated over central Africa.

In West Africa, the wet season normally spreads into the Sahelian countries during June. The bulk of grain planting is usually underway by mid-June extending into early July across the region. June rainfall was adequate for planting in most areas, but the wet season was slow to develop in Senegal. Early July showers moistened topsoils for crop planting and emergence, especially in southern Senegal. Moisture was still limited for crop establishment in northern Senegal. Substantial rains have fallen in recent weeks over south-central Mali and western Burkina Faso, providing favorable moisture for early crop growth. June rainfall ranked below average in southern Burkina Faso, but early-July rainfall has improved moisture conditions. Timely rains during the latter half of June in Niger promoted crop planting, but hot weather (maximum temperatures averaging from 35-39 degrees C) during the first half of July has increased the moisture demand for early growth. Locally heavy showers favored crop establishment in Burkina Faso and Mali and helped late planting in southern Senegal during the second week in July. In the south coastal countries of West Africa, rainfall was below average during June. Earlier-season weather favored crop establishment throughout the region, extending into the southwest coastal rice areas. Some pockets of dryness were noted in the Ivory Coast during the past few weeks.

In eastern Africa, harvest of Ethiopia's early season crops progressed in June, while land was prepared and planted to the main season crops. June rainfall was above normal throughout much of Ethiopia with heaviest amounts of rain falling during the latter half of the month. Topsoil moisture is abundant for planting of Ethiopia's main season crops. In Kenya, frequent showers in western corn areas adjacent to Lake Victoria provided adequate moisture for corn in the tasseling and silking stages.

Global Weather Satellite Image

JULY 16, 1986



International Weather and Crop Summary

July 13 -19, 1986

HIGHLIGHTS:

UNITED STATES ... Hot, dry weather continues to parch crops in the Southeast. Scattered showers help but provide very little relief. Crop development continues ahead of normal in the Corn Belt and central and northern Great Plains.

U.S.S.R. ... In Western U.S.S.R., dry weather in the south aids winter and spring grain harvesting but stresses corn in reproduction. In the New Lands, showers over the northern two-thirds of the region benefit spring grains in the heading stage.

EUROPE ... Dry weather stresses French corn in reproduction. Showers in the southeast benefit summer crops.

SOUTH ASIA ... Monsoon rains increase in central India but diminish in the northern states. The northwest cotton and groundnut regions remain dry.

EASTERN ASIA ... Showers in Shandong and eastern Hebei benefit late corn and cotton. Moderate rain continues to cover summer crops in northeast China. Frequent heavy rain covers intermediate rice in the Yangtze Valley.

MEXICO ... Showers and seasonal temperatures favor corn development.

CANADA ... Moisture is favorable for heading grains and flowering oilseeds across the Prairie grain belt.

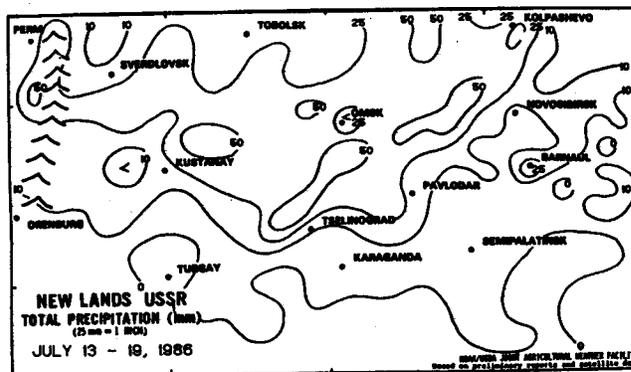
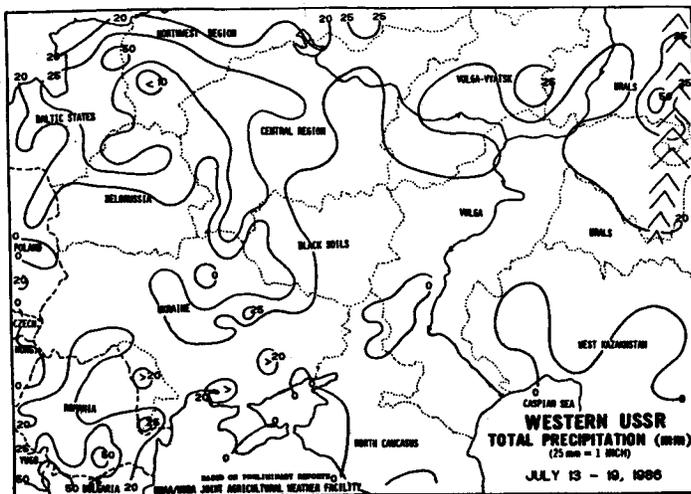
SOUTHEAST ASIA ... Eastern Thai corn and upland rice benefit from monsoon showers, but most of the western corn regions receive below-normal rainfall.

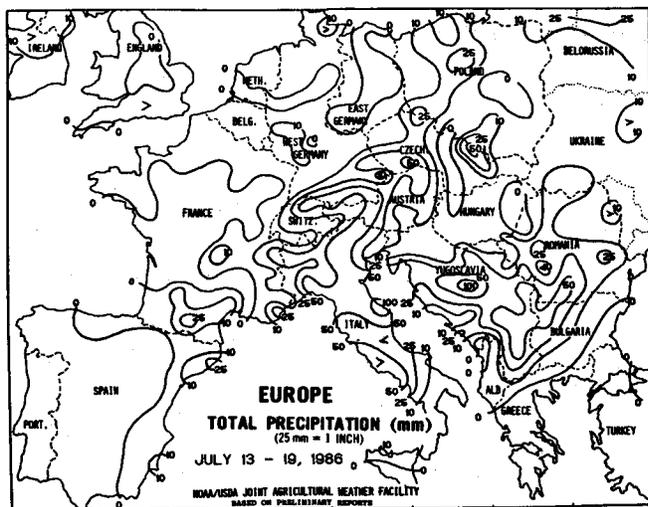
SOUTH AMERICA ... Some rain benefits wheat emergence in northern Argentina and southern Brazil, but dryness continues elsewhere.

AUSTRALIA ... Scattered, light rain falls in eastern New South Wales, but dryness persists elsewhere in much of eastern Australia.

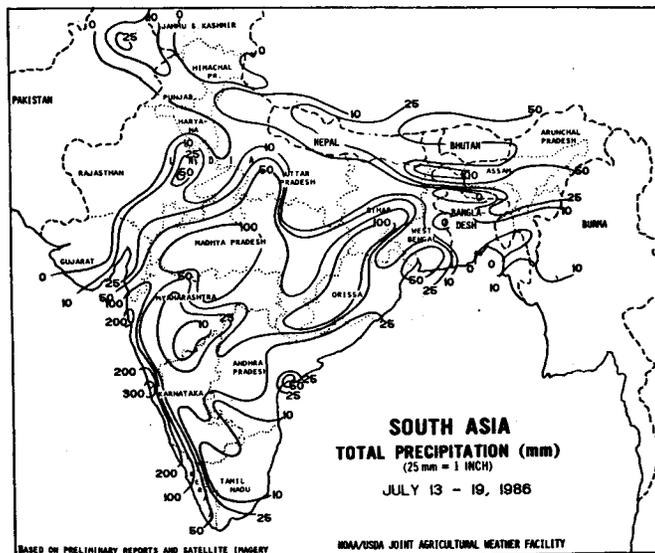
U.S.S.R. ... In Western U.S.S.R., dry weather over much of the Ukraine, Black Soils Region, North Caucasus, and the lower Volga aided winter and spring grain harvesting. However, the dry weather in these areas was unfavorable for corn in reproduction. Early-week cool, wet weather in the Baltic States, the Central Region, and the Volga Vyatsk Region benefited spring grains in the filling stage but slowed winter grain maturation. By week's end, a warming trend covered the region with maximum temperatures rising to around 24 degrees C in the north and 28 degrees C in the south.

In the New Lands, showers accompanied a cooling trend over much of the region. Southern spring wheat areas from Orenburg through Tselinograd and Semipalatinsk have been mostly dry for the past 4 weeks. In addition, periods of hot weather increased crop moisture requirements, placing further stress on the crop which advanced through reproduction. Spring wheat in these areas historically account for about 15 percent of total spring wheat production. Further north, moderate rain (25 to 60mm) covered the northern two-thirds of the region, providing ideal amounts of moisture for spring wheat in the heading stage. Spring wheat in these areas historically account for about 50 percent of total spring wheat production.

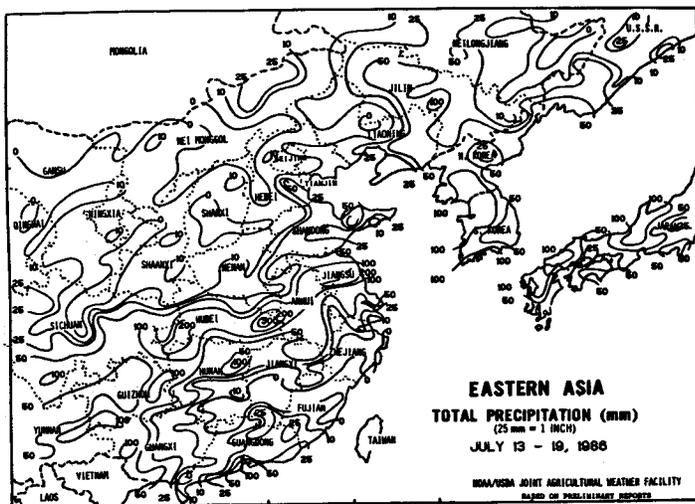




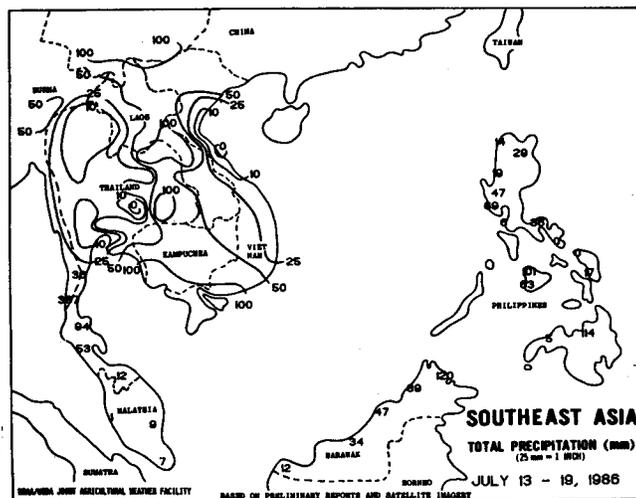
EUROPE ... High pressure kept western and northern crop areas dry. In France, spotty showers fell over major corn producing areas in the southwest. Corn in the highly moisture sensitive tasseling/silking stages need rain. Dry weather in central and northern France favored winter grain maturation and aided harvesting. Dry weather in West Germany, East Germany, parts of Poland, and Hungary aided harvesting. Moderate rain in southern Romania, northern Bulgaria, and eastern Yugoslavia benefited summer crops but delayed winter grain harvesting. In Italy, highly unseasonable amounts of rain covered peninsular crop areas, delaying harvest activities.



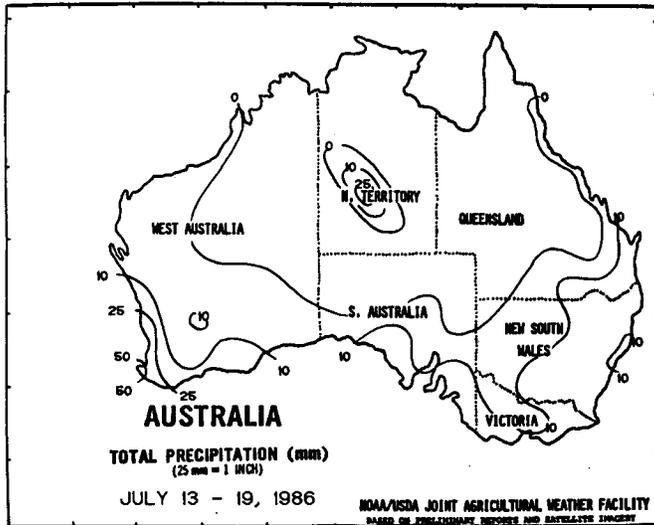
SOUTH ASIA ... Heavy monsoon rain (50 to 206mm) covered most of Madhya Pradesh and Orissa and extended into Andhra Pradesh, Bihar, and West Bengal, benefiting late planting and establishment of rice, cotton, and groundnut. Amounts diminished in the north as minimal rain (less than 10mm) fell in areas from Punjab to Bihar. More rain is needed here to promote rice growth and establish sufficient soil moisture reserves for winter wheat. Dry weather persists in southeast India and Maharashtra, and in Gujarat and Rajasthan where cotton and groundnut planting is usually underway. The monsoon is not yet established in the northwest.



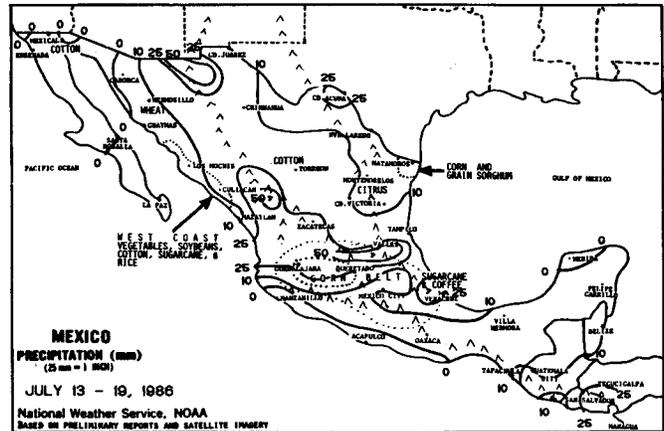
EASTERN ASIA ... Showers (around 25mm) covered Shandong and eastern Hebei, benefiting late corn in the tasseling stage and cotton in the flowering stage. Hot, dry weather stressed nonirrigated crops in northern Henan, Shanxi, and western Hebei. Moderate rain continued in northeast corn and soybean areas of Liaoning, Jilin, and Heilongjiang. Frequent showers with locally heavy downpours covered intermediate rice in the Yangtze Valley. Rainfall amounts ranged from (50 to 100mm) with some locations receiving rain in excess of 200mm. Drier weather in parts of southern China allowed floodwaters from Typhoon Peggy to recede and aided late rice planting.



SOUTHEAST ASIA ... Moderate to heavy showers (30 to 137mm) covered eastern Thailand aiding upland rice and reproductive corn. However, lighter rain (less than 20mm) fell in most of the corn region to the west. Only negligible rain (less than 10mm) fell near Bangkok and in the rainfed rice areas of northern Thailand. Moderate to heavy monsoon rains (25 to 120mm) covered Laos, Kampuchea, and most of Vietnam, but drier weather persisted in coastal Vietnam. In the Philippines, light rain (10 to 30mm) fell in northern Luzon. Scattered tropical showers covered south Luzon and the southern Islands.



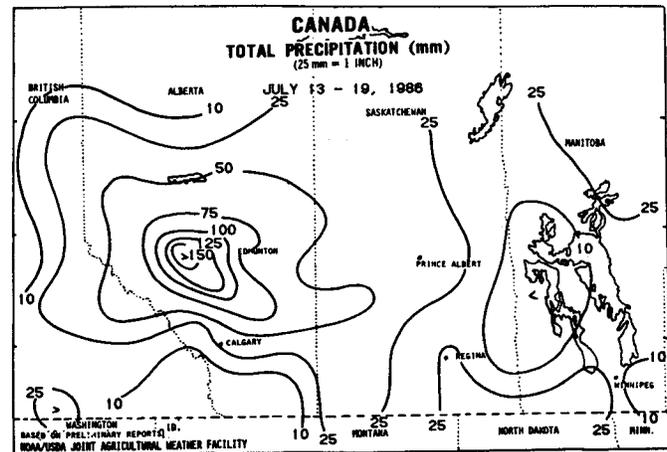
AUSTRALIA ... Beneficial rain (10 to 24mm) fell in eastern New South Wales, favoring establishment and late planting of wheat. Persistent moisture deficiency continued in western New South Wales where only minimal rain fell. Light to moderate rain (3 to 20mm) covered crop areas in South Australia, Victoria, and Western Australia, with heaviest rain falling in coastal areas. Soil moisture in the west and south is adequate for wheat growth, but drought conditions continue in the east hampering early wheat development.



MEXICO ... Some rain fell over most of the Southern Plateau corn belt. Rainfall amounts were quite variable, but substantial showers (25 to 60mm) fell across northern portions of the major corn producing region. Showers diminished to the south with 10 to 30mm of weekly rainfall in the southeast and less than 10mm in the southwest corn belt. The moisture and near to slightly below-average weekly temperatures promoted corn development. Showers fell over the western mountain watersheds with locally heavy amounts (50 to 60mm) in the extreme north and to the east of Culiacan, benefiting irrigation reservoirs which are relatively low. Mostly light showers fell in north-central cotton areas where the crop is maturing. Generally dry weather in the northeast favored grain and vegetable harvesting.



SOUTH AMERICA ... In Argentina, dry weather prevailed over southern wheat areas of Buenos Aires and La Pampa. Light showers (mostly less than 5mm) dampened topsoils in northern Buenos Aires, and southern portions of Cordoba and Santa Fe. Heavier showers (10 to 25mm) fell in northern Cordoba and Santa Fe, bringing beneficial moisture for wheat planting. Argentina's wheat crop is over 30 percent planted. A narrow band of heavier showers (25 to 65mm) extended from extreme northeastern Argentina into southern Brazil, benefiting wheat establishment in Rio Grande do Sul and Santa Catarina. Showers diminished over Parana, producing light amounts (less than 10mm) in the south for wheat's vegetative growth. However, dry weather persisted from northern Parana into the northern coffee and citrus growing areas, favoring tropical crop harvesting but extending the long spell of no rainfall.



CANADA ... Wet weather prevailed over the Prairie Provinces. Locally heavy rain fell in the northwest, and light showers occurred in the extreme southwest and northeast. In northwestern crop areas of Alberta, weekly rainfall averaged 50 to nearly 100mm with heavier amounts in the western mountains. Substantial showers (20 to 50mm) fell over much of Saskatchewan and southwestern Manitoba. Light rain (less than 10mm) was confined to a small area of southwestern Alberta, northeastern Saskatchewan, and northwestern Manitoba. While locally heavy showers may have been excessive in the northwest, the moisture was mostly favorable for grains and oilseeds. These crops are heading and flowering with early plantings advancing into grain formation and podding. Crop conditions are good to excellent in most areas.

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