

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

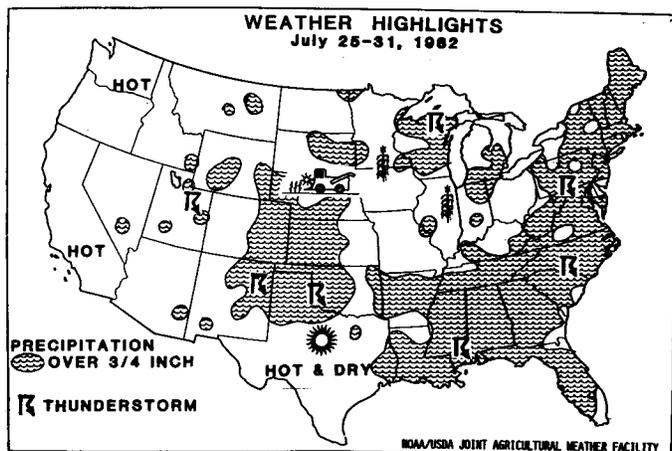
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Aug. 3, 1982

National Weather Summary

July 25-31



HIGHLIGHTS: Moderate to heavy rain over the east coast and the Appalachian Mountains helped dry soils, but some deluges caused local flooding. Heavy rain associated with severe thunderstorms in the western central Plains and eastern central Rockies delayed some fieldwork but helped dry soils. Mild temperatures and generally light rain over most of the Corn Belt benefited crops.

SUNDAY... Showers and thunderstorms covered the area from eastern Texas and central Arkansas to southern North Carolina and Florida. They were widely scattered in southeastern California, over the Plateau and southern Rockies but were more frequent and occasionally heavy from the northern Rockies to the Great Lakes. Low temperatures across the Corn Belt were in the low sixties in the East to the high sixties in the West. Highs ranged from the high eighties to low nineties.

MONDAY... Thunderstorms covered most of the Nation. Only the west coast, the Pacific Northwest, most of Texas, New England, and Virginia and North Carolina were without thunderstorms. Some heavy storms hit the area from eastern Colorado and western Kansas into central Wisconsin. Temperatures warmed a few degrees through the Corn Belt with occasional 90° readings in the eastern portion.

TUESDAY... A cold front moved to a line from Michigan to the Texas Panhandle and spread showers and thunderstorms along and ahead of it. Light showers fell over the central Plateau but became heavier in the central Rockies and west-central Plains. The showers spread across the Corn Belt to the east coast and southern New England. A few showers fell across the South from Louisiana to Georgia, and

heavier thunderstorms covered the area from central Georgia through Florida. The cold front brought much cooler weather to the western Corn Belt.

WEDNESDAY... Thunderstorms were frequent and occasionally heavy along and ahead of the cold front as it moved through the Northeast, into the South, and to the central Rockies. Thundershowers covered the area of eastern Arizona and New Mexico, northward to southern Idaho, and through Wyoming. Some heavy downpours fell in eastern Colorado and western Nebraska. High temperatures were in the low to mideighties throughout the Corn Belt.

THURSDAY... A slow-moving cold front through the South triggered thunderstorms from Virginia to Florida and across the South to the Texas Panhandle. Isolated heavy downpours fell throughout the area, but especially heavy storms hit from the Texas Panhandle to western Arkansas. Lighter showers fell in Arizona and New Mexico and through the central Rockies. Another cold front triggered thunderstorms from northeastern Iowa through Wisconsin. Mild temperatures dominated the Corn Belt.

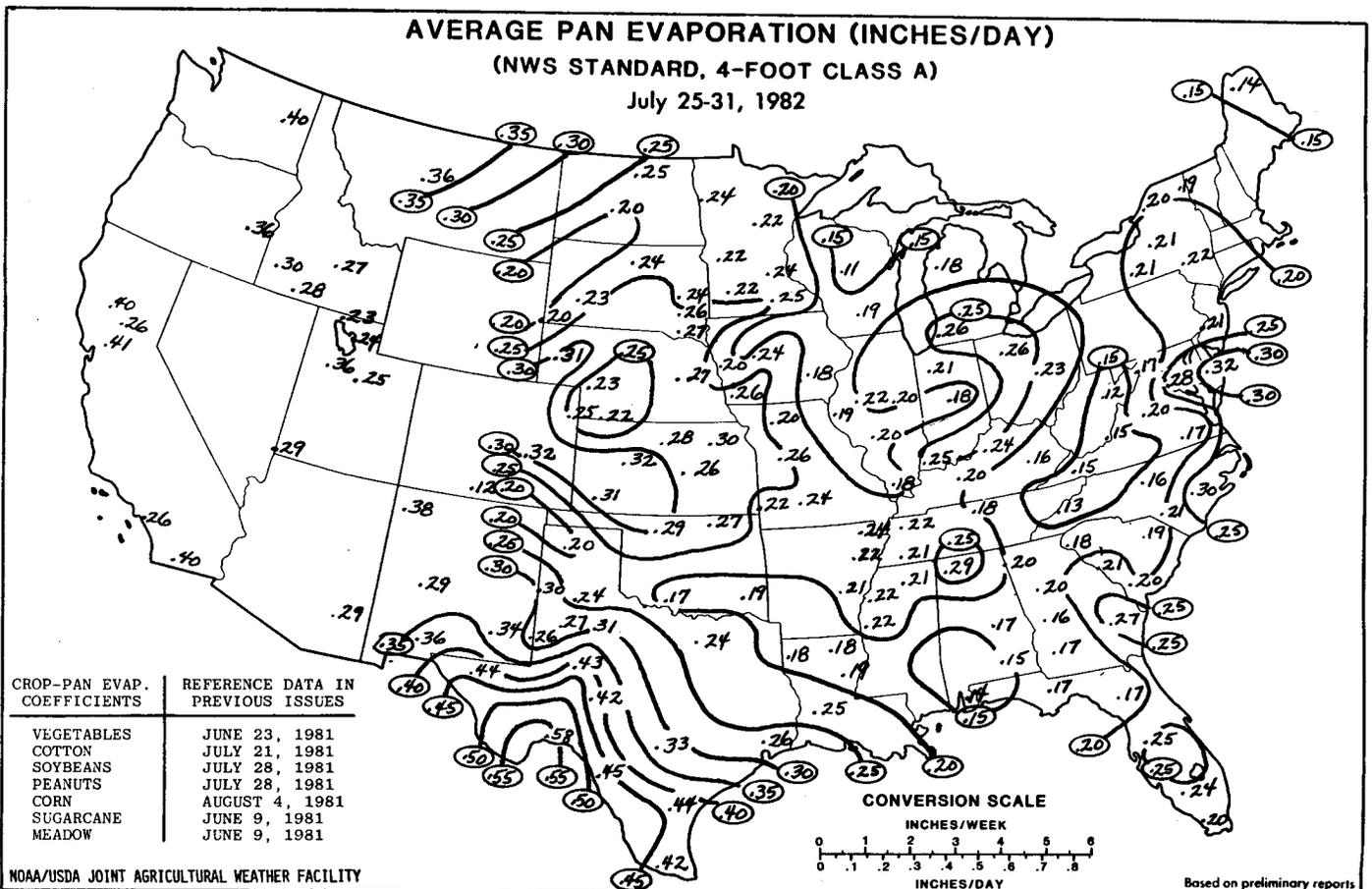
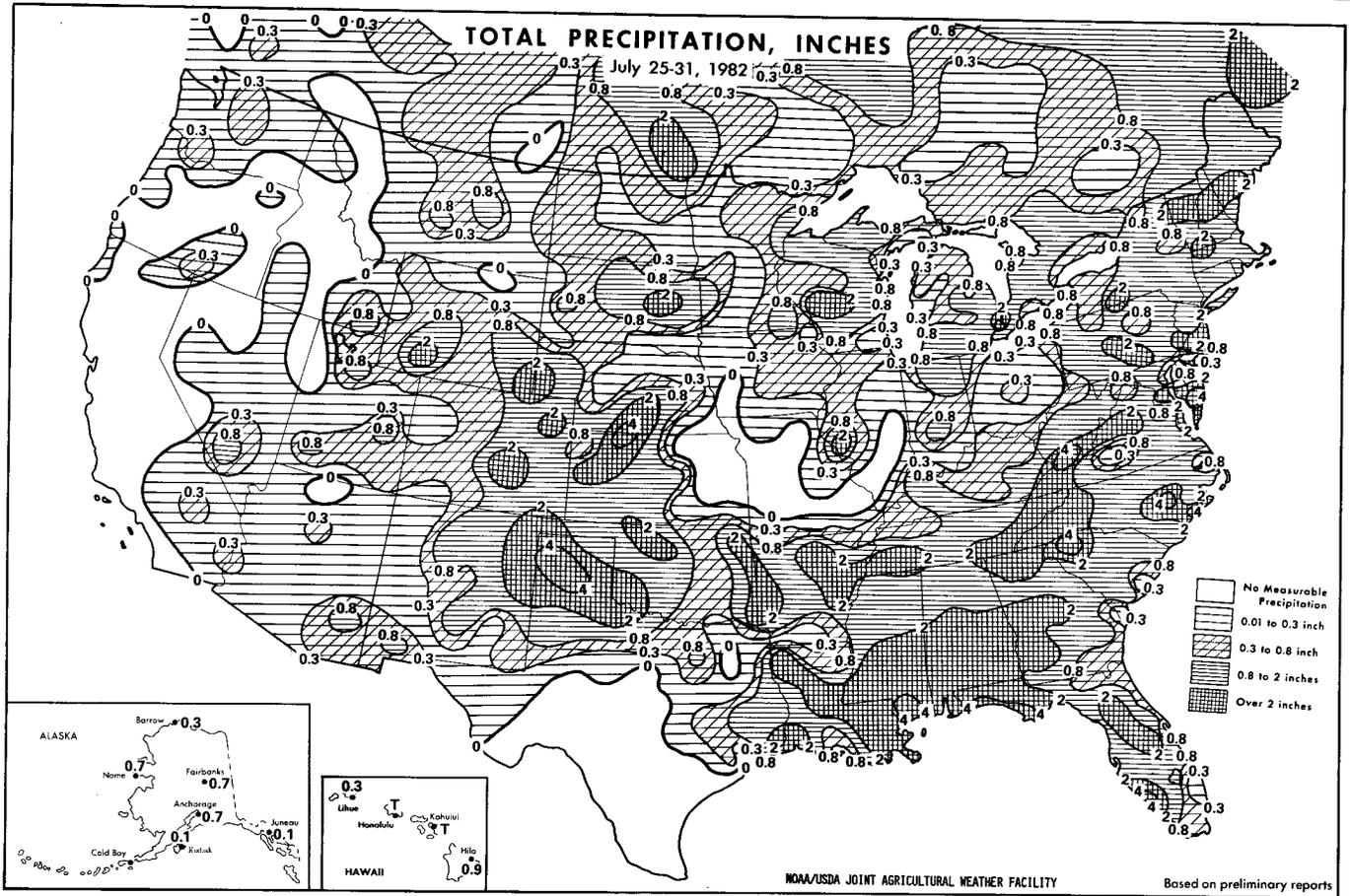
FRIDAY... Showers and thunderstorms covered the Southeast--from Maryland to Florida and from the Mississippi Delta through the Ohio Valley. Isolated severe storms spread throughout the area. More showers and thunderstorms covered the southern Rockies and High Plains and the eastern Great Lakes region. Light showers fell from Washington and Oregon into western Montana.

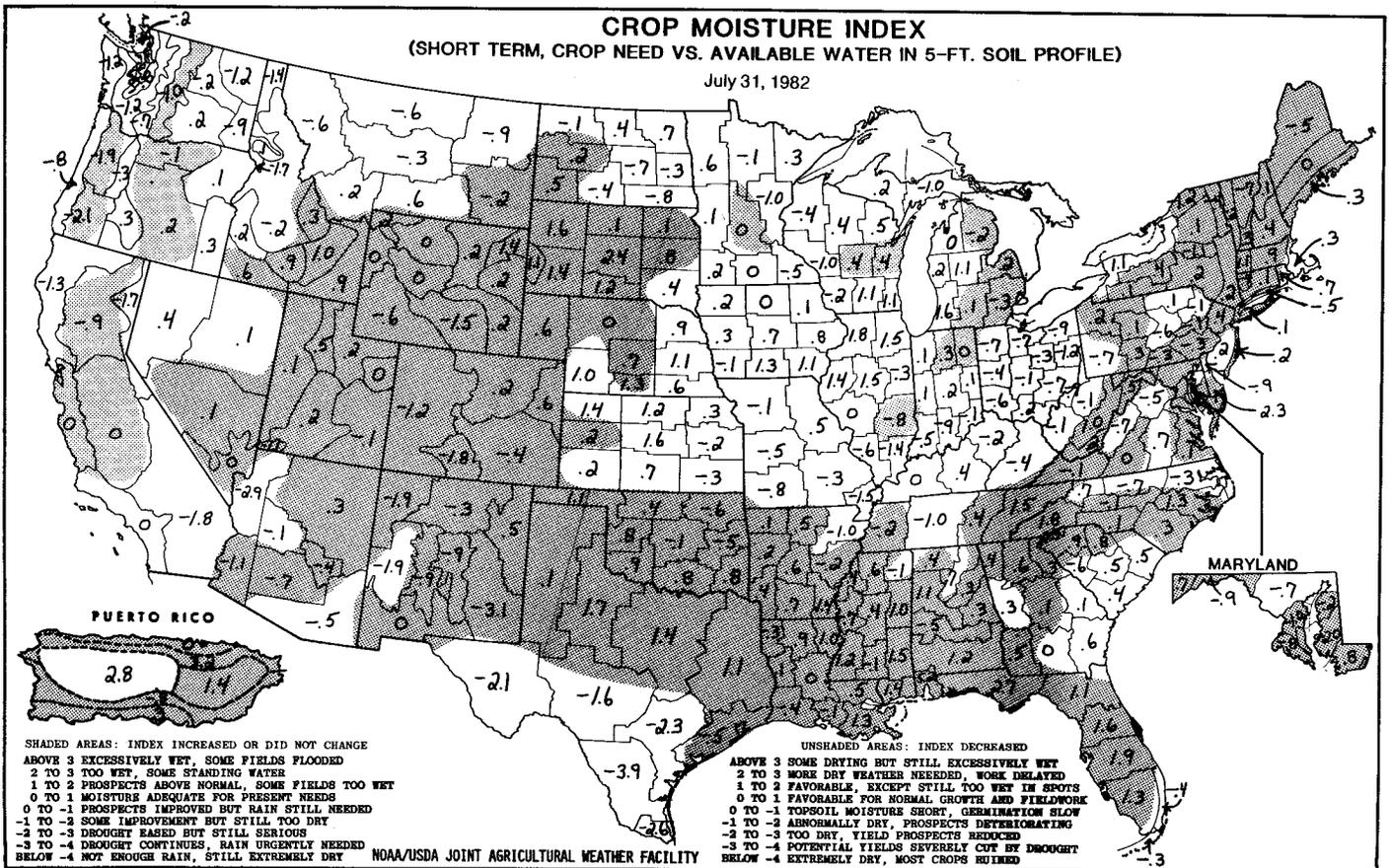
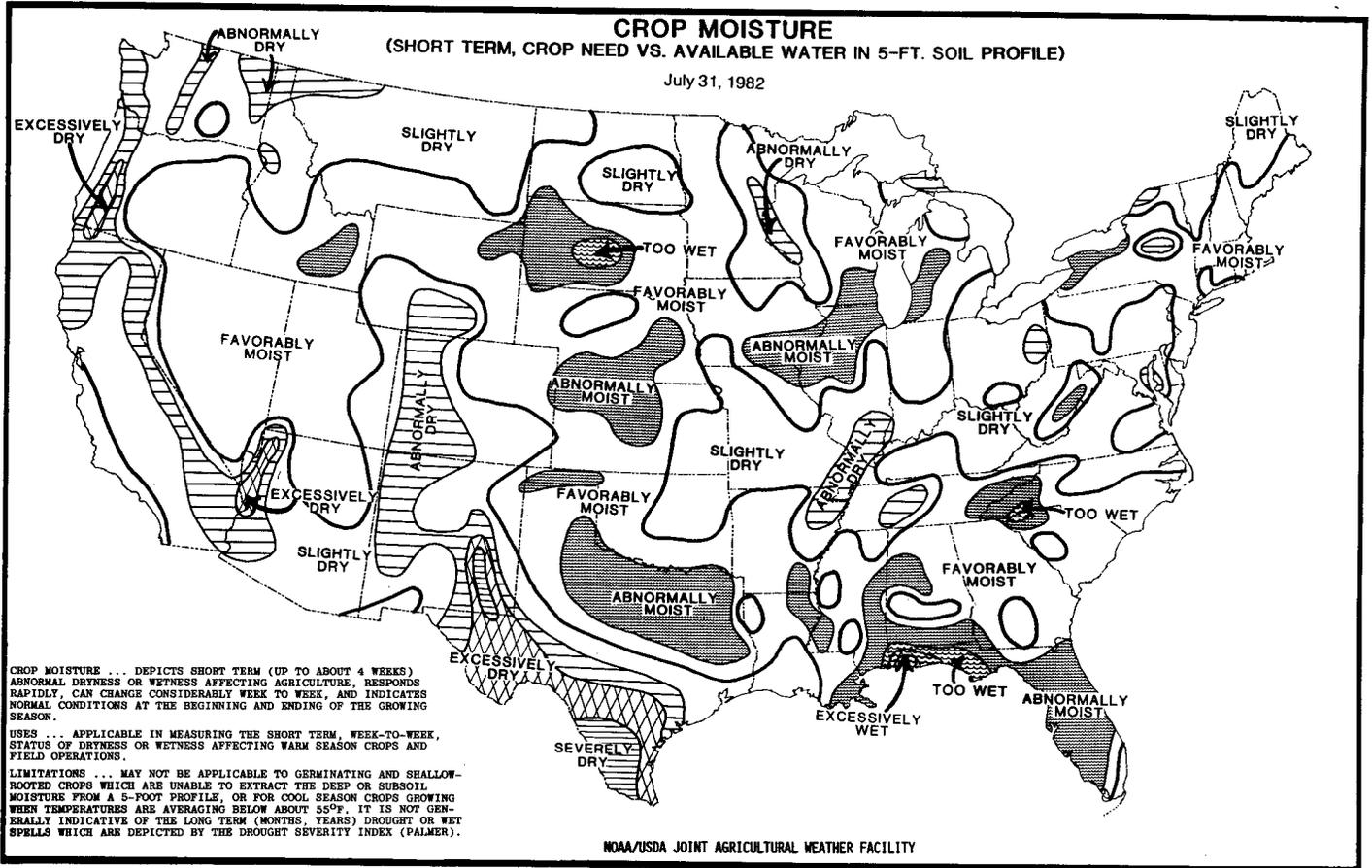
SATURDAY... Showers and thunderstorms covered the area from New York and New England, down the east coast, the East Coast States from Maryland to Florida, across the South through Louisiana and Arkansas, and across southern Oklahoma into New Mexico

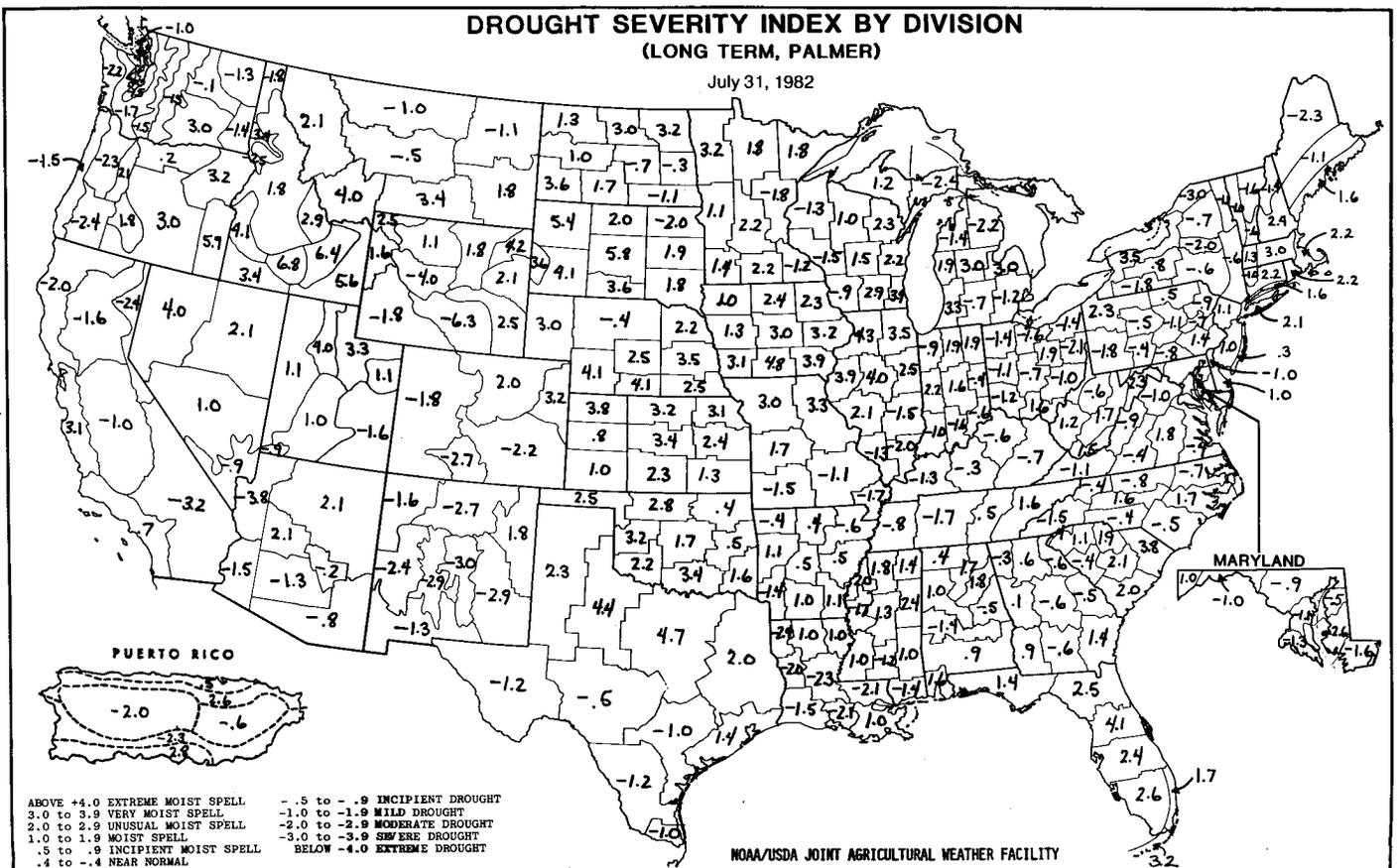
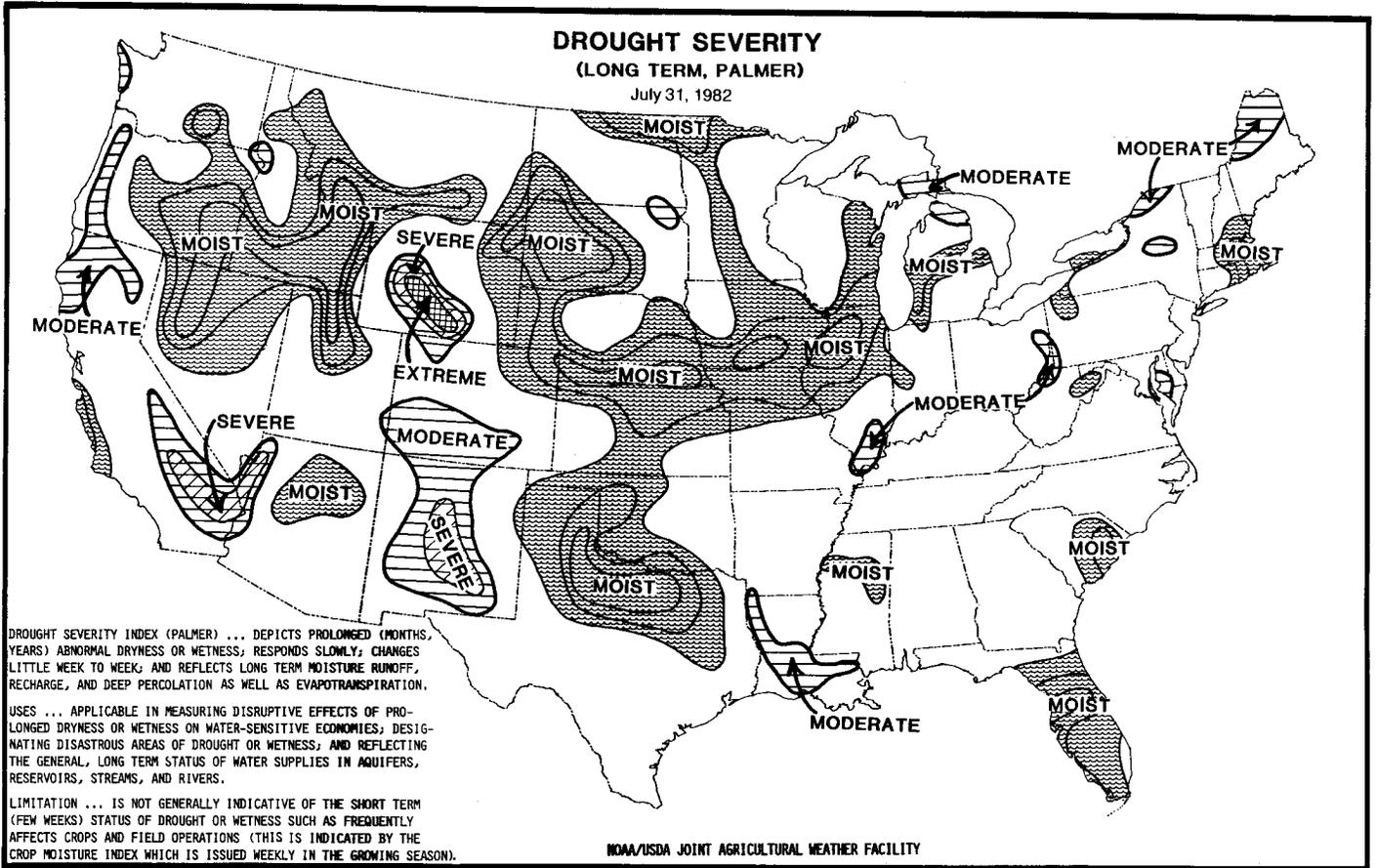
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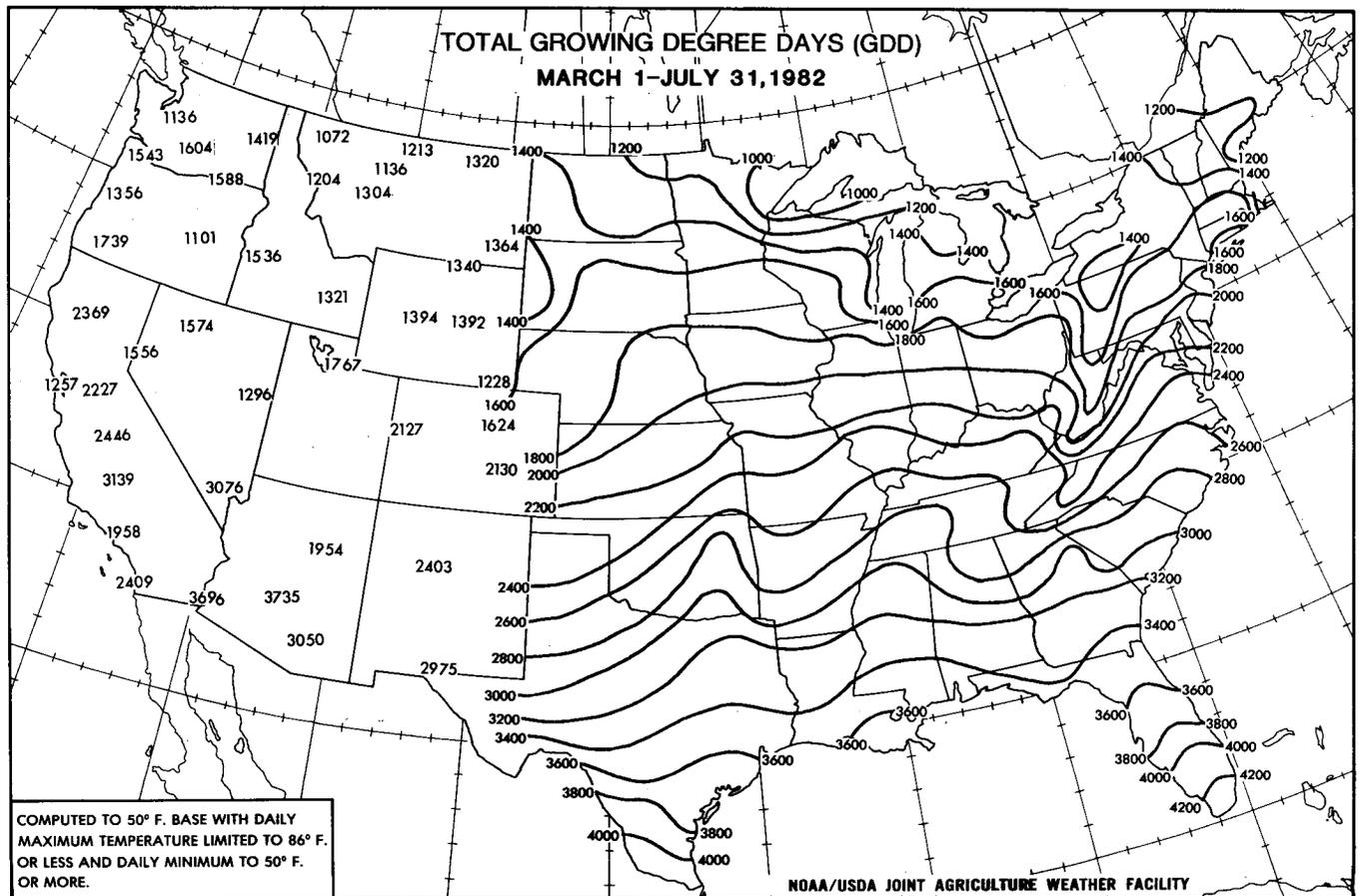
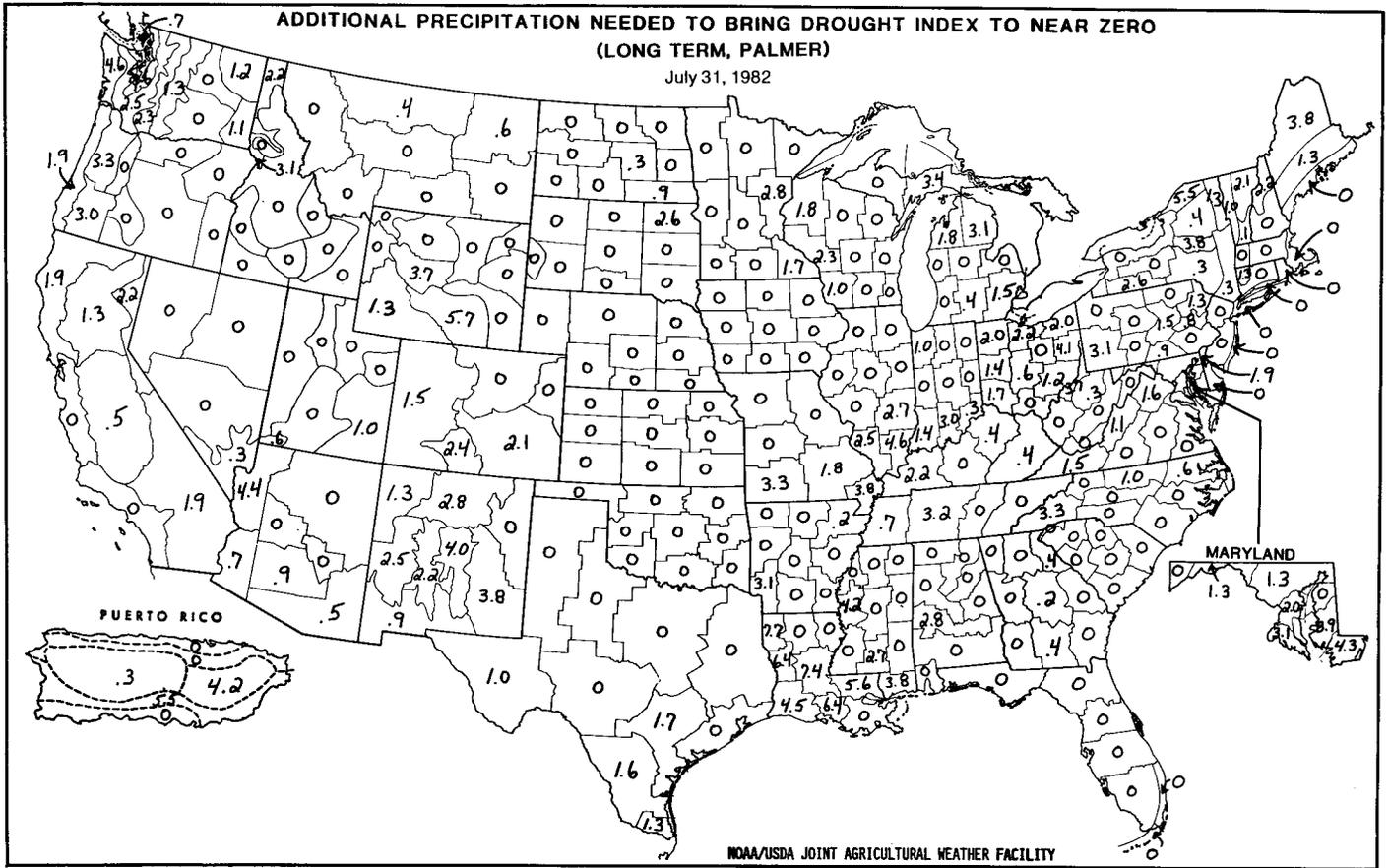
Contents

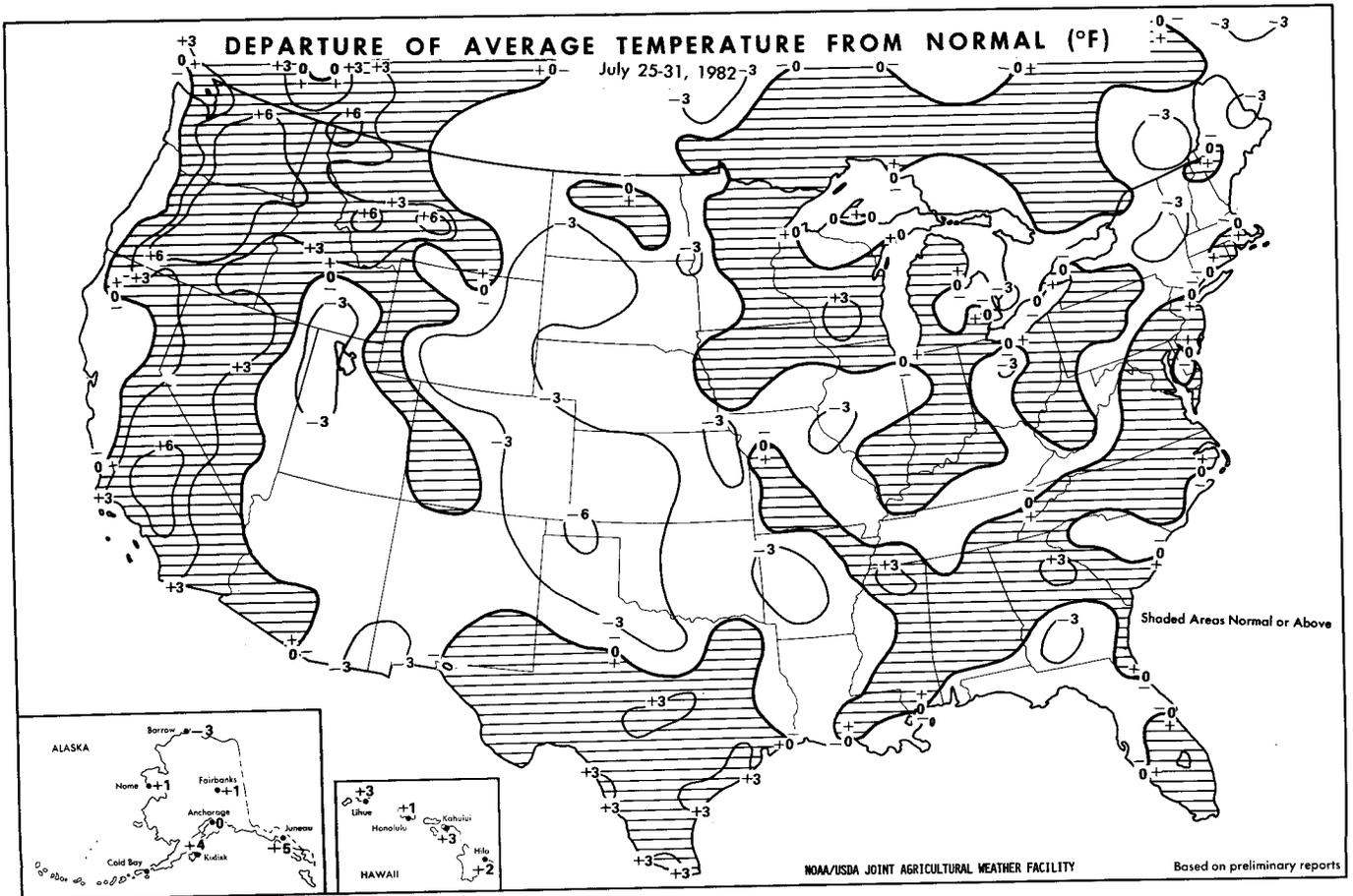
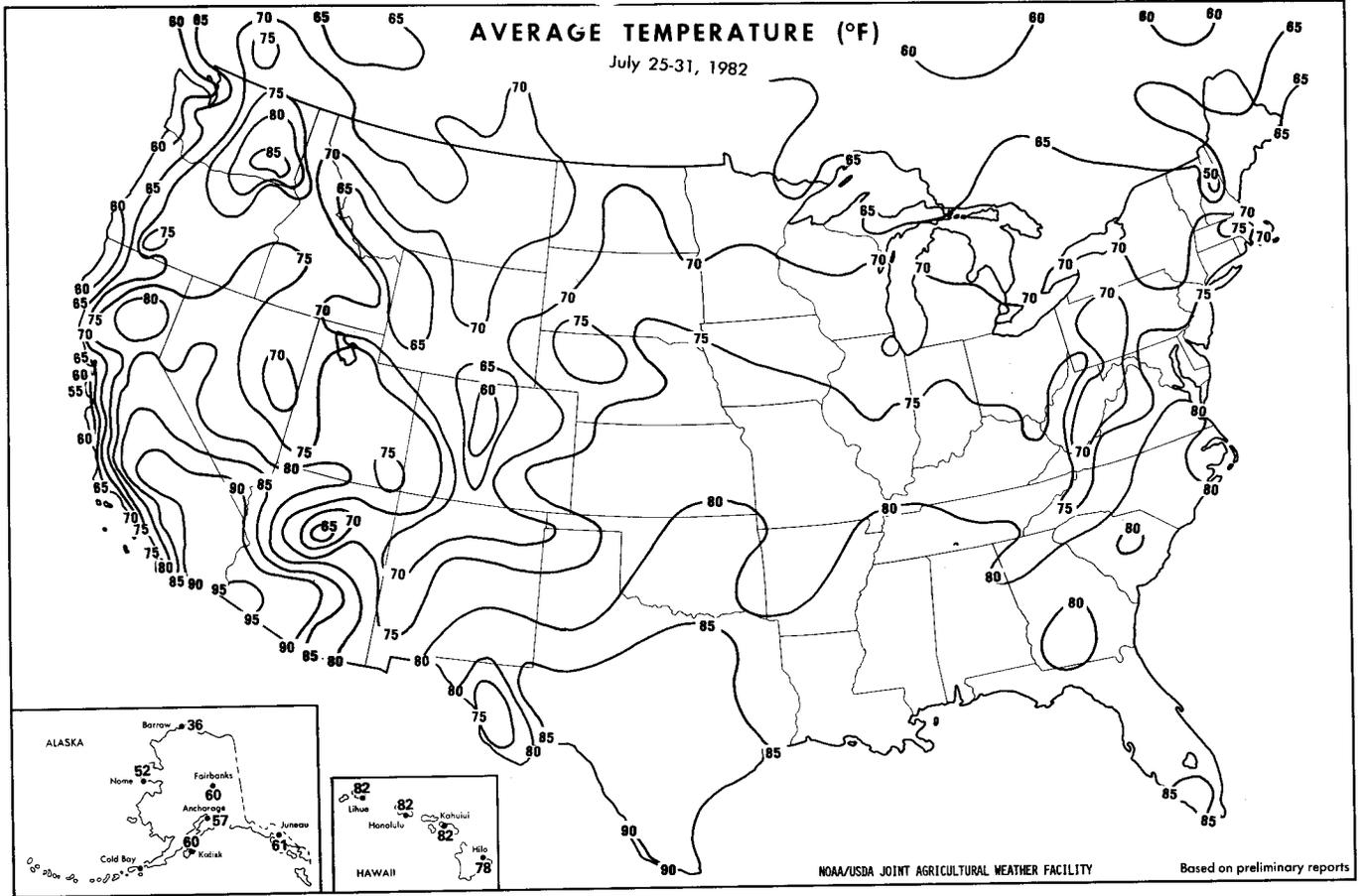
	Page
National Weather Summary	1
Precipitation & Pan Evaporation	2
Crop Moisture & Crop Moisture Index	3
Drought Severity & Drought Severity Index	4
Additional Precipitation Needed to End Drought & Growing Degree Days	5
Average Temperature & Departure	6
Weather Data for Selected Cities	7
Cooling Degree Days	10
National Agricultural Summary	11
Crop Progress Tables	12
State Summaries of Weather & Agriculture	13
Date & Probability of First Fall Freeze	19
International Weather & Crop Summary	21
Subscription Information	24











Weather Data for the Week Ending July 31, 1982

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 May 30	PCT. NORMAL SINCE May 30	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	90	72	94	71	81	1	2.1	.9	2.0	18.7	195	45.0	138	97	59	5	0	3	1
MOBILE	88	73	94	72	81	-1	2.8	.9	1.4	24.5	158	49.2	123	85	58	3	0	5	3
MONTGOMERY	91	73	95	71	82	1	3.6	2.5	1.7	12.3	128	42.4	141	86	55	4	0	4	2
AK ANCHORAGE	63	52	65	48	57	0	.7	.2	.4	3.9	118	5.8	91	87	58	0	0	4	0
BARROW	40	32	43	28	36	-3	.3	0	.2	.9	75	2.5	109	99	85	0	4	3	0
FAIRBANKS	68	53	77	46	60	1	.7	.2	.5	4.3	119	7.3	122	92	55	0	0	3	0
JUNEAU	73	49	81	46	61	5	1.0	1.0	1.1	3.6	46	21.7	90	79	47	0	0	2	0
KODIAK	67	52	72	49	60	4	.1	.7	.1	11.2	140	33.7	118	91	60	0	0	1	0
NOME	56	48	61	42	52	1	.7	0	.6	3.4	97	9.0	123	82	65	0	0	5	1
AZ PHOENIX	104	83	107	80	94	2	.1	.1	.1	.4	50	3.7	116	56	24	7	0	2	0
PRESCOTT	85	64	92	62	74	-1	.1	.7	.1	.6	16	7.0	74	82	33	1	0	2	0
TUCSON	95	73	98	68	84	-2	.7	.1	.3	2.3	92	5.7	108	76	30	7	0	3	0
YUMA	106	84	112	79	95	0	.2	.2	.1	.2	200	1.8	164	56	24	7	0	2	0
AR FORT SMITH	87	71	90	69	79	-4	2.2	1.5	1.1	9.9	134	29.6	114	93	61	2	0	3	2
LITTLE ROCK	88	71	92	68	79	-3	1.9	1.3	.9	10.3	161	35.1	122	94	68	2	0	4	2
CA BAKERSFIELD	105	78	108	75	92	7	0	0	0	0	+100	4.3	116	43	16	7	0	0	0
EUREKA	62	53	64	51	57	0	T	0	T	.8	114	24.4	110	94	79	0	0	1	0
FRESNO	102	69	106	66	85	4	0	0	0	.3	300	8.6	137	62	19	7	0	0	0
LOS ANGELES	78	66	82	65	72	2	0	0	0	0	+100	8.6	115	85	60	0	0	0	0
RED BLUFF	100	64	104	58	82	0	0	0	0	1.8	360	12.8	99	66	18	7	0	0	0
SACRAMENTO	93	55	97	52	74	-1	0	0	0	.1	100	18.1	156	68	21	6	0	0	0
SAN DIEGO	79	69	80	68	74	3	0	0	0	0	+100	9.0	161	85	61	0	0	0	0
SAN FRANCISCO	68	52	71	51	60	-3	T	0	T	.1	100	22.6	200	86	54	0	0	0	0
CO DENVER	80	61	92	58	71	-3	.4	.1	.3	3.4	92	7.6	77	83	43	1	0	3	0
GRAND JUNCTION	93	67	98	64	80	1	.2	0	.1	.6	67	2.9	67	71	26	5	0	2	0
PUEBLO	85	63	99	59	74	-3	2.7	2.2	1.7	5.2	158	8.2	111	87	42	2	0	4	2
CT BRIDGEPORT	83	65	91	58	74	-1	1.1	.2	1.1	14.4	225	31.8	149	90	57	1	0	1	1
HARTFORD	86	62	94	54	74	1	.9	.1	.8	16.3	233	33.5	145	81	44	2	0	2	1
DC WASHINGTON	88	73	96	69	80	1	1.8	.7	1.5	9.7	120	25.1	114	84	48	4	0	3	1
FL APALACHICOLA	87	73	93	71	80	-2	5.5	3.7	3.6	15.5	112	36.9	121	97	74	3	0	4	3
DAYTONA BEACH	89	72	92	70	80	-1	.7	.8	.5	15.3	115	34.3	133	97	63	2	0	4	1
JACKSONVILLE	93	74	97	71	83	2	.3	1.4	.1	13.2	94	28.0	96	97	57	6	0	3	0
KEY WEST	91	82	92	80	87	2	T	.8	T	11.4	127	24.2	134	77	61	7	0	1	0
MIAMI	92	78	97	76	85	2	.3	1.1	.1	17.2	107	38.6	125	87	55	7	0	3	0
ORLANDO	91	74	93	71	82	0	3.9	2.2	3.8	20.7	129	37.6	129	86	49	6	0	4	1
TALLAHASSEE	88	73	94	70	81	-1	3.0	1.1	1.3	19.7	122	40.3	109	97	65	4	0	4	2
TAMPA	88	74	92	73	81	-1	1.1	.8	.5	22.4	147	33.9	122	98	68	4	0	4	1
WEST PALM BEACH	92	75	93	72	84	1	1.1	1.2	.1	13.1	87	48.0	155	88	57	7	0	2	0
GA ATLANTA	88	72	92	70	80	2	1.0	0	.6	12.5	142	36.6	120	94	60	4	0	3	1
AUGUSTA	91	74	98	72	83	2	1.2	0	.7	7.5	82	25.4	95	90	58	4	0	6	1
MACON	91	73	95	72	82	0	3.5	2.5	1.6	8.7	99	31.7	115	96	61	5	0	4	3
SAVANNAH	92	73	93	70	83	1	T	1.7	T	18.7	129	34.5	112	91	53	6	0	1	0
HI HILO	84	72	86	69	78	2	.9	1.6	.4	30.5	179	112.3	157	92	64	0	0	4	0
HONOLULU	89	75	91	72	82	1	T	.2	T	.7	64	20.8	163	81	53	3	0	0	0
KAHULUI	91	73	93	71	82	3	T	.1	T	.7	100	21.1	192	77	48	5	0	0	0
LIHUE	88	76	88	72	82	3	.3	.2	.1	4.1	117	42.2	185	93	70	0	0	4	0
ID BOISE	91	64	98	59	78	2	.1	.1	.1	1.8	138	7.3	100	69	27	4	0	1	0
LEWISTON	100	66	102	62	83	8	0	.1	0	1.1	46	6.5	86	59	16	7	0	0	0
POCATELLO	86	56	93	52	71	-2	.6	.5	.6	1.8	106	8.2	117	95	34	2	0	2	1
IL CHICAGO	85	65	91	57	75	3	.2	.5	.2	8.9	113	21.6	112	87	45	1	0	1	0
MOLINE	85	64	91	60	74	-1	.5	.4	.5	12.4	132	26.9	129	94	55	1	0	1	1
PEORIA	84	64	89	58	74	-1	T	.8	T	10.9	138	28.0	133	95	55	0	0	1	0
QUINCY	83	64	89	60	74	-5	.1	.8	.1	12.0	130	27.0	-	97	56	0	0	1	0
ROCKFORD	84	63	88	55	74	1	.4	.5	.3	13.3	151	26.4	125	93	55	0	0	3	0
SPRINGFIELD	87	64	91	57	75	-1	.4	.4	.4	5.8	71	21.8	106	96	59	2	0	1	0
IN EVANSVILLE	88	70	92	66	79	1	.9	.1	.7	6.7	85	29.2	111	98	57	3	0	2	1
FORT WAYNE	85	62	88	58	73	0	1.2	.4	1.1	8.4	105	26.6	121	92	48	0	0	2	1
INDIANAPOLIS	85	66	89	61	75	0	.9	.2	.8	9.3	113	29.0	123	91	53	0	0	2	1
SOUTH BEND	81	65	85	61	73	0	1.0	.2	1.0	10.9	142	26.2	128	91	58	0	0	1	1
IA DES MOINES	85	66	90	61	75	-1	.3	.3	.3	8.6	102	26.1	137	81	48	1	0	1	0
SIoux CITY	88	66	94	60	77	1	.2	.4	.2	6.2	77	16.6	100	83	47	3	0	1	0
WATERLOO	84	63	90	58	74	1	.7	.2	.6	8.0	81	21.6	107	87	52	2	0	2	1
KS CONCORDIA	89	68	93	66	79	0	T	.6	T	16.1	189	29.1	168	79	41	3	0	0	0
DODGE CITY	89	68	97	63	78	-2	1.6	1.0	1.6	8.8	138	14.4	113	80	43	2	0	1	1
GOODLAND	84	63	97	58	73	-4	.6	0	.4	13.3	238	19.9	186	89	42	2	0	3	0
TOPEKA	87	62	89	53	74	-5	0	.9	0	12.4	119	25.5	120	97	50	0	0	0	0
WICHITA	90	69	96	67	80	-2	T	.8	T	9.4	104	21.8	121	77	38	4	0	1	0
KY BOWLING GREEN	86	69	90	65	78	-2	1.2	.3	.6	7.5	93	27.7	92	100	63	2	0	2	2
LEXINGTON	86	69	92	64	77	1	.5	.5	.4	7.6	82	23.4	84	88	54	2	0	3	0
LOUISVILLE	86	70	90	66	78	1	.2	.5	.1	8.2	101	26.3	97	89	57	2	0	3	0
LA ALEXANDRIA	91	74	93	73	83	-1	3.1	2.1	1.4	10.7	119	28.2	-	87	56	5	0	4	2
BATON ROUGE	90	74	93	71	82	0	1.9	.5	1.3	7.6	72	28.9	87	91	55	6	0	3	2
LAKE CHARLES	91	73	94	72	82	-1	2.3	.9	1.6	8.1	66	25.0	77	91	58	6	0	5	1
NEW ORLEANS	89	74	92	70	81	-1	2.2	.8	.8	17.8	148	37.8	112	95	59	4	0	5	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending July 31, 1982

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 May 30	PCT. NORMAL SINCE May 30	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	93	73	98	71	83	-1	3.6	2.9	3.4	6.1	92	20.5	75	96	50	6	0	3	1
ME CARIBOU	75	53	82	47	64	-1	1.1	.2	.8	7.5	90	18.8	100	92	49	0	0	3	1
ME PORTLAND	78	57	88	53	68	-1	1.2	.6	1.1	10.0	172	27.6	125	90	49	0	0	2	1
MD BALTIMORE	87	68	96	62	78	1	.5	.4	.3	7.8	99	23.7	103	82	48	3	0	4	0
MD SALISBURY	86	69	93	61	78	0	4.1	3.0	2.3	10.5	131	26.7	110	92	54	3	0	3	3
MA BOSTON	82	67	89	63	75	1	1.2	.5	1.1	18.1	297	33.5	143	78	47	0	0	2	1
MA CHATHAM	76	62	82	61	69	-	.8	-	.7	7.1	-	24.9	-	94	69	0	0	3	1
MI ALPENA	79	57	89	49	68	2	.6	0	.6	5.3	96	12.8	88	93	51	0	0	2	1
MI DETROIT	83	62	91	56	72	0	1.2	.5	.7	8.9	133	21.0	114	88	47	1	0	3	1
MI FLINT	79	61	87	52	70	0	.7	0	.5	6.2	95	13.6	81	92	54	0	0	3	0
MI GRAND RAPIDS	84	62	90	53	73	1	.9	.3	.9	6.5	97	18.5	103	82	48	1	0	1	1
MI HOUGHTON LAKE	77	60	86	50	68	1	.2	.4	.2	7.2	109	17.5	114	90	53	0	0	2	0
MI LANSING	80	60	87	51	70	-1	1.0	.4	.6	6.6	103	14.6	82	98	63	0	0	4	1
MI MARQUETTE	77	52	85	48	64	0	1.2	.4	1.2	6.0	72	19.4	102	98	51	0	0	2	1
MI MUSKEGON	80	63	87	51	71	0	T	.6	T	5.3	100	18.1	109	90	56	0	0	1	0
MI SAULT STE. MARIE	75	51	79	44	63	-2	.3	.2	.3	3.4	56	16.8	107	94	52	0	0	1	0
MN ALEXANDRIA	81	61	86	58	71	0	.4	.4	.3	7.8	103	17.2	117	95	47	0	0	2	0
MN DULUTH	76	58	78	53	67	0	1.1	.3	1.1	8.2	99	19.0	111	86	50	0	0	1	1
MN INT'L FALLS	79	54	83	50	67	0	.5	.4	.4	5.4	65	12.9	87	100	53	0	0	2	0
MN MINNEAPOLIS	85	64	89	59	75	1	.3	.5	.2	2.9	36	14.2	91	81	38	0	0	2	0
MN ROCHESTER	83	62	91	57	72	1	1.4	.7	1.3	6.1	70	20.1	119	95	55	1	0	3	1
MS GREENWOOD	89	73	92	72	81	-1	.8	.1	.3	8.0	103	32.5	-	92	63	4	0	5	0
MS JACKSON	90	73	93	72	82	0	2.3	1.3	.8	15.5	194	37.3	125	98	63	4	0	5	2
MS MERIDIAN	93	73	95	70	83	1	4.0	2.8	2.1	14.8	161	38.3	121	93	57	7	0	6	3
MO CAPE GIRARDEAU	89	70	93	67	80	0	0	.7	0	8.3	115	31.3	125	97	54	3	0	0	0
MO COLUMBIA	88	66	92	59	77	-1	0	.8	0	9.5	109	23.7	110	92	49	3	0	0	0
MO KANSAS CITY	88	67	91	62	78	0	T	.9	T	11.0	108	26.7	122	91	45	3	0	0	0
MO SAINT LOUIS	88	70	90	65	79	0	T	.7	T	14.7	175	30.4	139	95	50	3	0	2	0
MO SPRINGFIELD	90	68	94	64	79	0	T	.7	T	7.8	90	22.3	95	90	46	5	0	0	0
MT BILLINGS	84	63	94	61	74	1	.1	0	.1	6.7	191	13.7	149	73	36	2	0	2	0
MT GLASGOW	86	56	95	52	71	-1	T	.3	T	2.3	58	8.1	121	73	27	2	0	1	0
MT GREAT FAJ 3	87	56	94	50	72	1	.2	0	.2	3.8	84	12.5	121	73	25	2	0	1	0
MT HAVRE	86	54	94	54	70	-1	.5	.3	.5	1.7	44	9.5	123	76	24	2	1	2	0
MT HELENA	89	59	93	55	74	5	T	.1	T	3.4	97	8.7	119	71	22	3	0	1	0
MT KALISPELL	87	50	91	44	69	3	T	.2	T	5.6	160	12.9	142	93	27	2	0	0	0
MT MILES CITY	87	61	96	56	74	-2	.1	.2	T	5.8	116	10.4	111	78	29	2	0	2	0
MT MISSOULA	88	53	93	49	70	2	T	.1	T	2.8	97	11.1	146	85	28	2	0	0	0
NE GRAND ISLAND	86	64	95	56	75	-2	1.8	1.3	1.8	7.5	99	22.8	146	94	48	3	0	2	1
NE LINCOLN	89	65	94	57	77	-2	T	.7	T	9.9	116	22.1	128	91	48	3	0	0	0
NE NORFOLK	87	62	95	56	75	-1	.1	.5	.1	4.7	57	17.0	106	82	39	2	0	1	0
NE NORTH PLATTE	86	62	97	53	74	-1	.3	.3	.2	4.4	63	13.1	99	88	43	2	0	3	0
NE OMAHA	86	66	92	60	76	0	T	.8	T	6.9	78	22.2	123	87	53	3	0	0	0
NE SCOTTSBLUFF	84	61	95	58	73	-2	3.5	3.2	2.1	11.6	247	16.0	158	81	38	2	0	4	2
NE VALENTINE	87	61	97	54	74	-1	.6	.1	.6	5.7	92	14.5	124	82	39	2	0	1	1
NV ELY	84	51	95	47	67	-1	.2	0	.2	.8	47	6.5	120	87	34	1	0	2	0
NV LAS VEGAS	101	78	109	73	89	-1	T	.1	T	.1	14	1.9	83	47	22	7	0	1	0
NV RENO	93	52	97	43	72	2	T	0	T	1.0	167	4.2	95	80	19	6	0	0	0
NV WINNEHUCCA	94	59	101	49	76	4	0	0	0	2.3	177	4.6	85	56	18	6	0	0	0
NH CONCORD	80	56	86	49	68	-2	1.5	.8	1.3	10.9	160	25.2	129	84	44	0	0	2	1
NJ ATLANTIC CITY	87	69	94	60	78	2	.2	.9	.2	7.0	89	21.2	85	91	54	1	0	3	0
NM ALBUQUERQUE	90	65	97	63	77	-2	.9	.5	.3	1.4	67	3.3	79	83	32	4	0	4	0
NM CLOVIS	87	67	97	64	77	-1	2.1	1.5	1.0	6.7	122	9.6	-	85	49	3	0	4	2
NM ROSWELL	93	69	98	66	81	2	T	.5	T	1.8	49	3.4	49	70	30	5	0	0	0
NY ALBANY	82	57	89	51	69	-3	1.6	.9	1.6	9.1	144	22.5	125	92	48	0	0	1	1
NY BINGHAMTON	80	59	86	55	70	0	1.0	.2	.5	9.9	132	23.4	112	89	44	0	0	2	2
NY BUFFALO	79	61	87	57	70	0	.7	0	.4	4.9	94	21.5	115	91	51	0	0	2	0
NY NEW YORK	84	69	93	65	77	0	1.9	.9	1.8	7.6	109	23.2	103	79	49	1	0	3	1
NY ROCHESTER	81	62	87	58	71	0	.6	.1	.6	7.2	126	17.5	99	85	50	0	0	2	1
NY SYRACUSE	80	58	86	53	69	-3	1.2	.5	1.1	8.8	140	20.5	103	98	56	0	0	4	1
NC ASHEVILLE	83	67	88	65	75	1	3.8	2.7	1.6	14.3	157	35.6	135	100	70	0	0	5	2
NC CHARLOTTE	86	72	92	69	79	0	1.3	.3	.7	8.9	122	28.0	114	95	64	3	0	3	1
NC GREENSBORO	86	70	92	69	78	0	1.0	0	.6	12.6	148	31.7	133	97	69	3	0	3	1
NC HATTERAS	85	74	89	70	79	1	1.6	.1	1.4	12.3	110	38.0	134	100	74	0	0	3	1
NC NEW BERN	86	72	91	70	79	-1	1.6	.2	1.3	11.0	80	28.9	91	90	63	1	0	3	1
NC RALEIGH	88	72	94	70	80	2	1.7	.5	.8	12.6	138	30.9	126	92	58	3	0	3	2
NC WILMINGTON	88	73	91	71	81	0	1.0	.9	.9	16.0	110	36.0	116	90	59	1	0	3	1
ND BISMARCK	82	58	92	48	70	-2	.4	0	.2	4.1	71	10.8	103	95	38	1	0	3	0
ND FARGO	81	57	86	53	69	-3	.1	.6	.1	4.4	66	9.6	78	93	44	0	0	2	0
ND GRAND FORKS	80	56	84	52	68	-1	.1	.5	.1	6.2	98	12.1	104	97	53	0	0	2	0
ND WILLISTON	86	57	92	53	71	0	.6	.3	.6	4.0	74	9.9	100	76	35	2	0	1	1
OH AKRON-CANTON	84	62	90	55	73	1	.2	.6	.2	6.6	85	21.2	98	87	45	1	0	1	0
OH CINCINNATI	86	65	89	61	76	0	.1	.7	.1	6.7	82	25.9	103	89	48	0	0	1	0
OH CLEVELAND	85	61	91	53	73	1	.2	.6	.1	6.4	91	19.7	95	91	45	1	0	4	0
OH COLUMBUS	85	63	91	56	74	0	.4	.5	.4	7.2	84	24.0	100	92	43	2	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

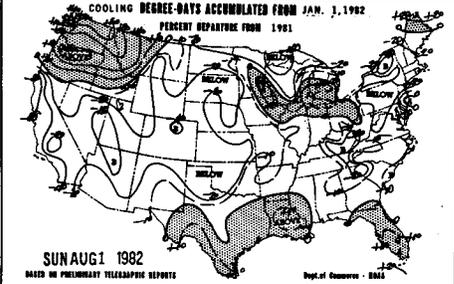
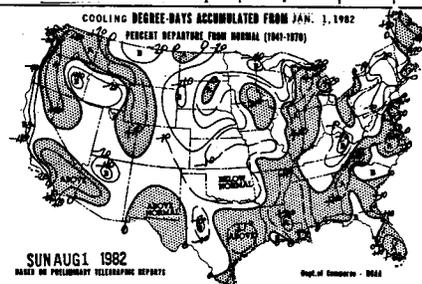
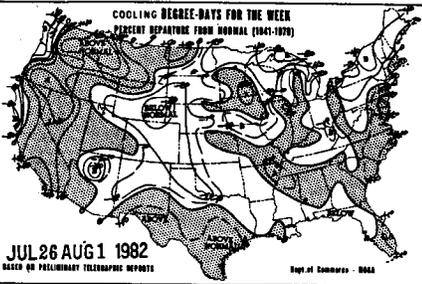
Weather Data for the Week Ending July 31, 1982

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 May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01" INCH OR MORE	.50" INCH OR MORE
DAYTON	86	63	90	58	74	0	T	-.7	T	5.8	75	25.7	116	91	49	1	0	1	0
TOLEDO	86	60	92	55	73	1	.1	-.6	.1	4.2	59	16.6	89	95	47	1	0	1	0
YOUNGSTOWN	83	58	89	52	71	-1	.3	-.5	.3	6.5	86	20.7	92	92	45	0	0	2	0
OK OKLAHOMA CITY	91	72	96	69	81	-1	.9	-.4	.9	7.1	100	26.6	140	81	46	4	0	2	1
TULSA	91	73	96	70	82	-1	.6	-.1	.6	6.1	73	21.2	96	91	51	5	0	1	1
OR ASTORIA	63	56	66	54	59	-2	.2	0	.1	2.1	62	41.0	124	92	72	0	0	3	0
BURNS	88	53	96	46	70	1	T	-.1	T	1.2	92	6.2	91	-	-	3	0	1	0
MEDFORD	97	60	102	57	79	6	0	.1	0	1.0	77	9.2	86	79	23	7	0	0	0
PENDLETON	97	65	101	56	81	7	0	0	0	.8	62	5.5	80	48	15	6	0	0	0
PORTLAND	78	59	89	58	68	0	.5	-.5	.5	2.6	130	21.3	113	84	51	0	0	1	1
SALEM	79	55	88	49	67	0	T	-.1	T	1.8	95	21.3	100	89	47	0	0	0	0
PA ALLENTOWN	85	63	90	58	74	0	1.6	-.6	1.5	10.6	129	26.8	111	92	48	1	0	4	1
ERIE	79	64	82	60	71	2	1.8	1.0	1.3	10.5	144	23.9	118	78	53	0	0	2	2
HARRISBURG	85	66	93	62	76	0	2.2	1.4	.9	10.4	103	26.6	109	90	47	2	0	4	2
PHILADELPHIA	89	69	97	62	79	2	1.0	0	1.0	8.3	104	28.5	128	86	44	4	0	2	1
PITTSBURGH	84	61	88	52	72	0	.9	-.1	.6	5.6	73	20.9	95	89	50	0	0	2	1
SCRANTON	81	61	86	55	71	-1	.9	0	.4	10.4	132	24.8	125	91	58	0	0	4	0
RI PROVIDENCE	82	65	89	60	73	1	1.0	.3	1.0	15.0	263	33.1	148	84	44	0	0	2	1
SC CHARLESTON	91	74	93	71	83	2	T	-1.8	T	14.8	98	31.4	101	91	55	7	0	1	0
COLUMBIA	91	73	94	70	82	0	1.3	0	.9	15.2	154	33.5	122	92	56	4	0	5	1
FLORENCE	88	72	92	71	80	0	1.9	-.5	.9	11.1	98	28.5	107	99	59	3	0	3	2
GREENVILLE	85	70	90	69	78	-1	5.4	4.5	3.3	16.9	201	40.6	143	98	67	1	0	5	3
SD ABERDEEN	84	60	94	53	72	-1	-	-	-	-	-	-	-	90	38	1	0	0	0
HURON	83	62	95	56	73	-2	2.1	1.6	1.8	7.3	116	15.4	123	96	57	1	0	3	1
RAPID CITY	80	59	91	51	70	-4	.6	-.3	.4	4.7	80	14.0	114	92	48	1	0	2	0
SIoux FALLS	83	62	91	54	73	-1	.1	-.5	.1	6.9	92	14.5	93	89	53	2	0	1	0
TN CHATTANOOGA	89	71	95	68	80	1	2.4	1.4	1.3	7.7	84	32.6	102	96	59	4	0	4	2
KNOXVILLE	86	71	91	70	79	0	3.6	2.6	1.7	10.6	120	36.7	128	96	62	2	0	5	2
MEMPHIS	91	78	93	76	85	3	1.5	-.7	1.1	11.4	152	38.4	126	90	58	6	0	4	1
NASHVILLE	89	72	91	69	80	0	1.4	-.5	1.1	8.2	108	31.1	110	98	57	3	0	3	1
TX ABILENE	96	76	101	72	86	1	T	-.5	T	5.5	102	15.4	108	73	36	6	0	1	0
AMARILLO	87	65	100	63	76	-3	5.0	4.4	2.6	10.8	171	14.3	124	83	45	2	0	4	2
AUSTIN	100	77	101	76	88	3	0	-.4	0	3.1	60	16.0	87	82	31	7	0	0	0
BEADWORTH	90	75	92	74	83	-1	2.0	-.6	.8	14.3	127	38.0	125	94	63	5	0	4	3
BROWNSVILLE	97	78	98	75	88	3	0	-.3	0	.2	5	14.4	133	87	43	7	0	0	0
CORPUS CHRISTI	97	75	98	73	86	1	0	-.4	0	.8	17	14.6	105	94	44	7	0	0	0
DEL RIO	101	77	102	76	89	2	0	-.1	0	3.3	110	8.1	88	68	26	7	0	0	0
EL PASO	97	70	101	67	84	2	.1	-.2	.1	1.2	52	2.3	58	68	23	7	0	3	0
FORT WORTH	95	76	99	74	85	-1	.5	-.1	.5	7.1	139	29.3	152	78	43	6	0	1	1
GALVESTON	89	82	91	81	85	2	0	-1.0	0	4.7	53	16.9	78	83	64	3	0	0	0
HOUSTON	96	77	97	76	87	3	T	-.9	T	5.1	57	19.2	74	92	43	7	0	1	0
LUBBOCK	90	69	98	64	79	-1	.9	-.5	.7	7.1	134	15.1	136	84	41	4	0	4	1
MIDLAND	98	71	100	69	85	2	T	-.4	T	4.5	129	9.3	119	67	24	7	0	1	0
SAN ANGELO	98	73	99	70	86	0	0	-.2	0	6.4	194	14.4	147	72	27	7	0	0	0
SAN ANTONIO	99	75	100	73	87	2	0	-.4	0	1.5	32	11.8	81	87	30	7	0	0	0
VICTORIA	99	77	99	76	88	3	0	-.6	0	.2	3	16.2	89	90	37	7	0	0	0
WACO	101	78	102	77	89	3	.3	0	.2	6.6	150	21.7	117	79	35	7	0	2	0
WICHITA FALLS	92	70	98	67	81	-6	.8	-.4	.5	8.8	149	29.7	182	96	46	6	0	4	1
UT BLANDING	87	58	88	54	72	-2	.7	-.4	.3	1.8	75	6.4	97	88	50	2	0	3	0
CEDAR CITY	88	59	96	54	73	-1	.8	-.5	.4	1.8	129	8.5	160	83	28	3	0	3	0
SALT LAKE CITY	87	66	97	61	76	-2	1.5	1.3	1.3	3.3	157	10.8	117	79	34	1	0	2	1
VT BURLINGTON	79	57	86	51	68	-2	2.8	1.9	1.5	8.1	108	19.1	107	92	45	0	0	3	2
VA NORFOLK	87	72	93	69	80	2	1.8	-.4	1.3	10.3	105	27.0	109	93	58	3	0	4	1
RICHMOND	87	72	93	67	80	1	.9	-.5	.8	14.7	148	30.3	124	96	64	3	0	3	1
ROANOKE	85	67	90	64	76	0	.2	-.7	.1	9.3	126	26.8	122	93	57	3	0	2	0
WA COLVILLE	93	56	97	50	74	5	0	-.1	0	3.1	135	11.4	125	66	30	5	0	0	0
QUILLAYUTE	65	52	73	47	58	-1	.1	-.4	T	4.0	66	64.3	121	97	69	0	0	5	0
SKATTLE-TACOMA	75	56	87	54	65	0	T	-.1	T	1.6	73	21.0	109	95	54	0	0	1	0
SPOKANE	93	60	98	54	77	5	T	-.1	T	2.0	105	9.2	96	72	20	6	0	1	0
YAKIMA	96	60	103	51	78	7	T	0	T	1.8	200	4.9	111	72	21	5	0	1	0
WV BECKLEY	80	62	89	59	71	1	4.6	3.7	1.8	13.0	149	29.2	113	98	58	0	0	4	3
CHARLESTON	87	66	92	60	77	2	1.3	-.2	.9	10.9	124	28.9	116	100	56	3	0	2	1
HUNTINGTON	84	65	87	59	74	-1	.5	-.4	.4	9.5	119	27.3	112	100	62	0	0	3	0
PARKERSBURG	86	66	90	60	76	1	.2	-.8	.2	7.8	83	22.6	84	93	48	2	0	1	0
WI GREEN BAY	80	62	89	56	71	1	1.2	-.6	1.0	7.7	117	16.5	109	95	56	0	0	2	1
LA CROSSE	85	63	92	57	74	1	.2	-.6	.1	3.2	39	11.8	67	100	49	1	0	3	0
MADISON	81	60	87	53	71	0	.2	-.6	.1	6.8	82	18.1	103	96	56	0	0	2	0
MILWAUKEE	80	63	88	53	71	0	.1	-.6	.1	6.9	95	20.5	119	92	55	0	0	1	0
WAUSAU	80	61	89	56	70	1	.5	-.3	.3	11.4	133	22.1	123	92	50	0	0	4	0
WY CASPER	82	57	93	48	69	-4	.6	-.4	.4	6.1	235	10.8	144	89	36	1	0	3	0
CHEYENNE	74	57	86	53	66	-4	1.8	1.4	.8	7.1	169	11.8	123	93	51	0	0	4	2
LAUDER	81	58	92	53	69	-3	1.4	1.4	.9	2.8	112	6.3	68	78	39	1	0	4	1
SHERIDAN	88	58	95	53	73	1	T	-.1	T	4.8	114	9.5	90	74	29	2	0	0	0
FR SAN JUAN	89	78	90	76	84	3	.6	-1.0	.3	7.6	61	29.1	99	89	65	3	0	5	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING AUG. 1, 1982.
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JAN. 1, 1982

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +, and DEPARTURE FROM 1981-82. Rows list various cities across the United States.



National Agricultural Summary

JULY 26-AUGUST 1

Highlights: Another week of good weather allowed the winter wheat harvest to advance rapidly; progress nearly caught up with normal in many States. Rainfall in eastern areas benefited crops and pastures, but more is needed. Soil moisture supplies were mostly adequate even though some shortages appeared in the northern Plains, parts of the Corn Belt, and Southeast. Farmers had 4 to 7 days suitable for fieldwork in all areas of the Nation. Winter wheat harvest advanced to 84%, 3 points behind average. Spring wheat was 98% headed. Corn was silking on 71% of the acreage and 20% was in the dough stage. Soybeans bloomed on 63% of the acreage; 27 percent of the crop had set pods. Cotton squaring reached 86% and boll set was 48% complete. Heading was 35 percent complete on sorghum and 39 percent complete on rice. Pastures and ranges were in good condition. Livestock rated good.

SMALL GRAINS: Winter wheat harvest in the 15 major producing States was 84% complete, behind last year's 85% and the 87% average. Harvesting started in Montana during the week and became more wide spread in the other Northern States. Progress was 44 percentage points behind average in South Dakota, 24 points behind in Montana, and 13 points behind in Colorado. Clear weather permitted Nebraska producers to harvest 20% of their acreage during the week. Combining was finished in Indiana, Kansas, and Texas. In the Corn Belt, growers began plowing the harvested fields. Indiana farmers had plowed 5% of the winter wheat land.

Spring wheat headed on 98% of the acreage, equal to the average, but 1 point behind last year.

CORN: Corn was in good to excellent condition in parts of the Corn Belt and Southeast and fair to good condition in other regions. Corn was silking on 71% of the acreage in the 17 major producing States and was in the dough stage of development on 20% of the acreage. Crop development was ahead of average in the eastern Corn Belt, while in the western Corn Belt, it was slower than normal. In the South, most fields were in the dent stage and many were mature. Harvesting was 10% finished in Georgia, 5% in South Carolina, and 24% completed in Louisiana.

SOYBEANS: Soybeans remained in mostly good condition. In the 18 major producing States plants were blooming on 63% of the acreage and setting pods on 27%. Like corn, soybeans developed slower than normal in the western Corn Belt but ahead of average in the eastern Corn Belt.

Eighty-seven percent of the soybeans were blooming and 50% were setting pods in the eastern region while only 56% were blooming and 17% were setting pods in the western region.

SORGHUM: Sorghum was in fair to good condition. In the 7 major producing States, 35% of the acreage headed, 13 points behind a year earlier. Harvest in Texas was 46% complete, about on schedule. Combining was active in the Blacklands. Hail damage caused erratic yields on the low Plains.

COTTON: In the 14 major producing States, 86% of the cotton was squaring and 48% was setting bolls. A year earlier, 95% was squaring and 73% was setting bolls. Only 24% of the cotton in Texas was setting bolls, well behind last year's 68%. Harvesting in Texas was active from the Lower Valley through the Coastal Bend area.

OTHER CROP: Peanuts growth was good in Texas despite short soil moisture supplies. Most stands were pegging in northern Texas and in the Southeast.

The Georgia tobacco harvest was 77% complete while South Carolina growers were 62% finished. The flue-cured harvest was 39% completed in North Carolina and 18% completed in Virginia. The Virginia flue-cured tobacco crop was 8% harvested.

VEGETABLES: Vegetable harvests increased in northern areas. Processing plants in New Jersey opened as supplies became available. Land preparation for planting was the major activity in the South. Harvesting continued very active in California.

FRUITS AND NUTS: Peaches were 95% picked in South Carolina and Georgia and 79% harvested in North Carolina. Apple and peach harvesting increased in New Jersey. The New York tart cherry harvest was nearly 75% finished while the Michigan harvest reached 80%. Sweet cherry picking in Michigan neared completion. Florida's citrus groves were in good condition and flushed with new growth. California growers harvested apples, avocados, figs, grapes, nectarines, cling and freestone peaches, pears, plums, grapefruit, lemons, and Valencia oranges.

PASTURES AND LIVESTOCK: Pastures and ranges were in mostly good condition. Rainfall during the week provided moisture for growth, but more is needed. Livestock rated good condition.

CROP PROGRESS
FOR WEEK ENDING AUG 1

SOYBEANS % BLOOMING			SOYBEANS % SETTING PODS			CORN % SILKING			CORN % DOUGH						
1982	1981	AVG.	1982	1981	AVG.	1982	1981	AVG.	1982	1981	AVG.				
ALA	56	58	50	ALA	17	29	29	COLO	20	38	37	COLO	0	1	0
ARK	30	31	32	ARK	10	21	18	GA	100	100	100	GA	97	99	NA
GA	60	60	NA	GA	23	29	NA	ILL	97	91	91	ILL	50	35	42
ILL	85	74	80	ILL	55	34	44	IND	92	50	80	IND	35	10	25
IND	90	45	80	IND	40	10	30	IOWA	65	96	88	IOWA	0	12	14
IOWA	60	90	90	IOWA	25	59	57	KANS	65	80	80	KANS	15	20	25
KANS	25	45	40	KANS	5	10	25	KY	90	80	78	KY	23	20	20
KY	60	35	52	KY	20	8	14	MICH	80	75	75	MICH	10	6	7
LA	59	66	64	LA	29	41	36	MINN	60	82	75	MINN	0	0	6
MICH	75	50	50	MICH	20	15	17	MO	75	77	73	MO	35	36	36
MINN	79	85	89	MINN	11	28	39	NEBR	40	85	85	NEBR	5	15	20
MISS	65	72	65	MISS	25	30	25	N C	96	99	95	N C	79	82	73
MO	39	43	55	MO	18	15	18	OHIO	95	55	75	OHIO	25	5	10
NEBR	55	97	NA	NEBR	10	30	45	PA	65	71	53	PA	6	8	0
N C	36	49	34	N C	7	8	NA	S DAK	28	52	55	S DAK	0	0	0
OHIO	90	55	70	OHIO	60	15	40	VA	84	91	NA	VA	48	58	NA
S C	32	42	43	S C	7	9	NA	WIS	46	66	54	WIS	6	11	9
TENN	55	52	58	TENN	17	21	18								
18 STATES	63	63	NA	18 STATES	27	28	NA	17 STATES	71	79	NA	17 STATES	20	18	NA
EXCL. STATES WITH NA	63	62	67	EXCL. STATES WITH NA	29	29	35	EXCL. STATES WITH NA	71	79	79	EXCL. STATES WITH NA	18	16	20
THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.				THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.				THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.				THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.			
NA - NOT AVAILABLE				NA - NOT AVAILABLE				NA - NOT AVAILABLE				NA - NOT AVAILABLE			

COTTON % SQUARING			COTTON % SETTING BOLLS			SORGHUM % HEADED			WINTER WHEAT % HARVESTED						
1982	1981	AVG.	1982	1981	AVG.	1982	1981	AVG.	1982	1981	AVG.				
ALA	100	100	100	ALA	78	91	71	COLO	15	12	11	CALIF	95	99	98
ARIZ	99	99	99	ARIZ	95	99	96	KANS	5	15	20	COLO	78	89	91
ARK	100	100	100	ARK	93	99	92	MO	53	43	48	IDAHO	7	13	9
CALIF	90	98	98	CALIF	60	80	62	NEBR	5	60	55	ILL	99	100	100
GA	100	100	100	GA	89	96	97	OKLA	20	50	40	IND	100	100	100
LA	99	99	99	LA	95	94	91	S DAK	11	22	23	KANS	100	100	100
MISS	100	100	100	MISS	82	80	78	TEX	78	79	NA	MO	97	81	100
MO	100	92	100	MO	94	63	63	7 STATES	35	48	NA	MONT	1	15	25
N MEX	92	100	NA	N MEX	46	50	45	EXCL. STATES WITH NA	12	32	33	NEBR	95	98	97
N C	99	97	92	N C	74	77	76	THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.				OHIO	99	100	100
OKLA	15	90	80	OKLA	0	25	30	NA - NOT AVAILABLE				OKLA	99	100	100
S C	100	100	100	S C	97	100	92					OREG	41	31	32
TENN	100	99	97	TENN	92	70	68					S DAK	38	90	82
TEX	83	93	NA	TEX	24	68	NA					TEX	100	100	100
14 STATES	86	95	NA	14 STATES	48	73	NA					WASH	38	18	28
EXCL. STATES WITH NA	89	98	97	EXCL. STATES WITH NA	73	79	73					15 STATES	84	85	87
THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.				THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.								THESE 15 STATES PRODUCED 88% OF THE 1981 WINTER WHEAT CROP.			
NA - NOT AVAILABLE				NA - NOT AVAILABLE											

RICE % HEADED			SPRING WHEAT % HEADED				
1982	1981	AVG.	1982	1981	AVG.		
ARK	19	30	26	IDAHO	100	100	100
CALIF	5	15	23	MINN	98	99	99
LA	67	79	76	MONT	95	100	100
MISS	35	40	35	N D	99	99	95
TEX	100	98	NA	S DAK	100	100	100
5 STATES	39	48	NA	5 STATES	98	99	98
EXCL. STATES WITH NA	28	38	37	THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.			
THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.							
NA - NOT AVAILABLE							

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures near normal. Most stations reported over 1.00 in. of rainfall.

Soil moisture adequate to surplus. Fieldwork: 3.9 days. Corn dented 82%, 85% 1981, 67% average. Soybeans blooming 56%, 58% 1981, 50% average; setting pods 17%, 29% 1981, 29% average. Cotton setting bolls 78%, 91% 1981, 71% average. Peanuts pegging. Conditions: Corn, soybeans, cotton, peanuts sorghum, pastures, and livestock good to excellent.

ALASKA: The weather was favorable at the beginning of the week with warm, dry weather followed by showery weather later in the week. Temperatures for the most part were near normal. Seasonal rainfall totals are above normal everywhere.

Tanana Valley during first part of week was generally warm and dry followed by cool rainy weather at end of week. Temperatures for the week averaged near normal. Seasonal rainfall totals 1 to 2 in. above normal except for Kenney Lake which remained dry at 1.50 in. below normal. Matanuska Valley was generally warm, dry weather early in the week and had cool rainy weather by 29th. Temperatures averaged near normal for the week. Seasonal precipitation totals climbed to 0.50 to 1.00 in. above normal. Kenai Peninsula generally had dry weather the first of the week which was followed by a wet pattern especially on 29th and 30th. Temperatures averaged near normal throughout the week. Seasonal precipitation totals are from 0.50 to nearly 1.50 in. below normal except for Anchorage where the amount is 0.50 in. above normal. Kodiak Island was generally dry except for light rain midweek. Warmer than normal temperatures prevailed. Precipitation total remains approximately 4.50 in. above normal. Scattered rain throughout much of Railbelt was beneficial to all crops. Sunny and warm days now needed to promote crop maturity and to complete harvesting of hays. Farmers averaged 2 days of haying in the Matanuska Valley. Farmers had 3 to 5 days available for fieldwork. Crops remain in mostly fair to good condition. Small grain was reported about 25 to 50% headed. Second crop looks good throughout most of the area. Second crop brome ranged 12 to 20 in. in height. Potato fields were hilled with 30 to 75% in bloom. Heights varied from 12 to 24 in. in the Tanana Valley - 18 to 13 in. in the Matanuska Valley which still lags last years crop. Soil moisture supplies were adequate with reports of surplus in some lowland areas.

ARIZONA: Hot, humid weather continued with numerous thunderstorms over eastern two-thirds of State. Precipitation amounts mostly between 0.10 and 0.75 in. except locally 1.50 in. over Mogollon Rim, White Mountains. Average temperatures 3° below normal to 3° above.

Cotton setting bolls on 95% of acreage behind last year's 99%. Safflower harvest almost completed in western area. Sugarbeet harvest finished. Sorghum, corn for grain made satisfactory progress. Cutting, baling of alfalfa hay seasonally active. Honeydew, watermelon harvest will finish in central, western area at end of August. Eastern area watermelon harvest will begin around August 5. Grape harvest approaching completion. Harvest of green onions continued. Citrus groves in good condition. Ranges throughout State mostly fair condition. Southeastern ranges poor condition, southwestern ranges very poor to poor conditions.

Livestock generally fair to good condition. Water supplies short to adequate.

ARKANSAS: Cooler and wetter week than normal. Highest temperatures 98°, lowest 64°. All departures from normal ranged from 0 to -4°. Most rainfall 4.15 in., least 0.06 in.

Six days available for fieldwork. Soil moisture mostly adequate, still short many areas. Crops in good condition, but soybeans good to fair. Growth rate moderate to slow. Soybeans blooming 30%, 31% 1981, 32% average; setting pods 10%, 21% 1981, 18% average. Rice headed 19%, 30% 1981, 26% average. Cotton setting bolls 93%, 99% 1981, 92% average. Corn dented, sorghum good condition but many insects; Pastures average and livestock good condition.

CALIFORNIA: No precipitation with higher than normal temperatures in the Sierra Nevada and in the San Joaquin Valley. The central coastal areas were a little below normal. The southern Deserts were typically hot with Death Valley recording 122°; the warmest in the U.S. this year.

Most crops developing well with good growing conditions. Cotton progressing well with pesticide application and irrigation active. Ninety percent acreage squared, 98% last year, 98% average. Boll sets 60% compared to 80% previous year, 62 average. Rice fields continue behind, but showing good growth, 5% headed, 15% last year, 23 average - some treatment due armyworm problems on rice. Small grain harvest winding down, winter wheat 95% harvested, 99% last year, 98 average. Dry beans setting pods and blooming. Corn and milo progressing well. Safflower heads starting to dry. Alfalfa haying remains active. Gravenstein apple harvest continues Sebastopol, Watsonville areas. Below average size, color. Avocado harvest slowing down, good quality. Mission (Black) fig harvest near completion. Flame Seedless, Perlettes, Cardinal table grapes harvest active. Table Thompson Seedless beginning. Good quality, but high acid, low sugar. Insect, mildew control active. Nectarine varieties packed - Fantasia, Flavortop, Niagara Grand; good quality. Cling peach harvest active; below average quality. Freestone peach varieties moving -- Fay Elberta, Fayette, Angelus. Average quality, good prices, excellent demand. Pear, plum harvest active. Other area Ruby, White grapefruit harvest continues -- good condition. Lemons picked poor to fair. Central California Valencia orange harvest near completion; active Southern California. Almond hulls splitting; early varieties shaking in southern San Joaquin. Navel orange worm spraying active. Franquette walnuts better than earlier expectations. Broccoli, cauliflower moderate supply Central Coast, diversion to processors heavy due market conditions. Melon harvest continues San Joaquin Valley, size and quality good. Celery good supply Salinas-Watsonville, harvest slow due to market conditions, disease problems reported. Sweet corn, cucumbers, beans, bell peppers, market tomatoes, etc. harvested San Joaquin, Central Coast areas. Lettuce moderate supply Salinas-Watsonville, quality good. Fall crop San Joaquin Valley being planted and growing well. Dehydrator onions, garlic harvested west-side, summer potato crop harvest Riverside County. Fall crop Tulalake-Butte Valley good condition. Processing tomato harvest rapidly gaining momentum San Joaquin and Sacramento Valleys. Volume to date below last year due late crop. Range grasses

good. Lower range requiring supplemental feeding. Livestock growth excellent. Water supplies adequate.

COLORADO: Rainfall widespread over most of State the 26th thru 30th with sunshine prevalent over the weekend. Temperatures averaged 1 to 3° below normal in the east due to the cloud cover. West of the Continental Divide and in the San Luis Valley, temperatures were near normal for the period. Scattered showers during week improved crop prospects, but slowed winter wheat harvest in some areas. Winter wheat 97% turning color, 87% ripe, and 78% harvested. In 1981, 98% turning color, 97% ripe, and 89% harvested. Barley 69% turning color, 39% ripe, and 28% harvested. Last year, 66% turning color, 41% ripe, and 30% harvested. Dry beans, 43% flowered, last year 45%. Corn progressing normally, 63 in. high, 20% silked. Last year 67 in. high, and 38% silked. Sorghum 15% headed compared with 12% last year. First cutting alfalfa nearly complete, second cutting 39%, second cutting last year 47% complete. Moisture short to adequate. Four days suitable for fieldwork. Livestock in good condition.

FLORIDA: Normal summertime conditions with scattered daily thundershowers. Upper air disturbance caused increased cloudiness and precipitation over the Panhandle. Rainfall amounts averaged around 3.00 in. Panhandle, with 2.00 in. north and central Peninsula, and 1.00 in. in the south. Temperatures averaged 2° below normal Panhandle and near normal elsewhere.

Soil moisture mostly adequate to excessive. Corn harvest delayed by wet conditions. Tobacco harvest about complete, auction sales in full swing. Haymaking delayed due to wet fields. Soybeans, cotton, peanuts mostly good condition. Sugarcane good to excellent condition. State pastures good to excellent condition, some moisture content too high for optimum nutrition. Low land pastures providing poor quality grazing. Cattle condition mostly good with some reporting excellent. Citrus groves in good condition, and flushed with new growth. Almost daily rainfall has maintained good soil moisture. Some flatwoods groves being ditched to remove excessive amounts of surface water. Land preparation fall vegetables continues very active. Light plantings some fall vegetables getting underway. Some summer vegetables continue to move to local markets but on a limited basis.

GEORGIA: Temperatures near normal or slightly above in north and central and above in the south. Means from mid 70's in mountains to low 80's in central. Rainfall varied but scattered showers over State during week. Amounts from none at a few spots to 5.89 in. at Thomasville. Average amounts 1.00 to 1.25 in. The 28th and 29th rainfall from scattered showers averaged near 0.50 in. continued near normal temperatures.

Soil moisture 11% short, 56% adequate, 32% surplus. Four days suitable for fieldwork. Main activities spraying for disease, insects and weed control and hay making. Corn 21% fair, 68% good, 11% excellent, 100% silked, same last year and average, 97% dough stage, 99% last year, dent stage 84%, 91% last year, 57% mature, 80% last year, 10% harvested, 24% last year, 13% average. Cotton 3% poor, 23% fair, 68% good, 6% excellent, 100% squaring, same last year and average, 89% setting bolls, 96% last year, 97% average, insect pressure increasing in some fields. Grain sorghum 98% planted, 100% last year and average. Peanuts 17% fair, 69% good, 14% excellent, 100% blooming, same last year and average, 99% pegging, 98% last year, 97% average. Spraying con-

tinues active for corn rootworm, white mold. Soybeans 19% fair, 70% good, 11% excellent, 60% blooming this year and last, 23% setting pods, 29% last year. Cyst nematodes reported in some fields. Tobacco 26% fair, 69% good, 5% excellent, 77% harvested, 54% last year, 55% average. Some reports of armyworms attacking tobacco and other crops. Watermelons 4% very poor, 8% poor, 29% fair, 55% good, 4% excellent, 90% harvested, 88% last year, 87% average. Apples 13% very poor, 19% poor, 30% fair, 35% good, 3% excellent, 25% harvested, 23% last year, 17% average. Peaches 14% very poor, 20% poor, 29% fair, 34% good, 3% excellent, 95% picked, 85% last year, 90% average. Pecans 3% poor, 37% fair, 54% good, 5% excellent. Hay crops 3% very poor, 5% poor, 18% fair, 64% good, 10% excellent. Rain hampering haymaking. Pastures 9% fair, 78% good, 13% excellent. Cattle and hogs good.

HAWAII: Weather variable. Rains light most areas. Some heavy isolated rains caused crop activity slow down, Island of Oahu. Occasional strong winds caused bruising to crops in exposed areas. Spraying for disease and insect control. Vegetable supplies adequate. Banana supplies light. Frequent spraying of papayas for disease control, supplies light. Pineapple pickings active. Sugar harvesting steady. Rains beneficial to pastures, generally fair to good.

IDAHO: A stream of subtropical moisture from Arizona brought much above normal rainfall to most of east last week. Malad received the most at 2.78 in. of rain. Above normal precipitation also occurred in south central areas. Malta recorded the most there at 1.66 in. of rain. Below normal rainfall occurred in north while a few above and a few below normal spots were observed in the southwest. Temperatures averaged 1 to 4° above normal over north and southwest last week. Temperatures were 3 to 4° below normal in the soggy southeast.

Mixed weather during the week. Potatoes closed the middles on 89%, last year 60%. Potato crop generally excellent condition. Winter wheat; 7% harvested, 13% last year, 9% average. Spring wheat; 3% harvested, 5% last year, 2% average. Barley 4% harvested. Second cut alfalfa 22% complete. Dry pea harvest; 15% finished, 3% last year. Mint harvest at 26%. Seed corn detasseling in progress.

ILLINOIS: Temperatures 4° below to 1° above normal. Precipitation light to moderate in most areas (0.04 to 0.08 in.).

Winter wheat 99% combined, 100% 1981, 100% average. Corn 48% excellent, 50% good, 2% fair. Corn 97% silked; 50% dough, 10% dented. Soybeans 23% excellent, 67% good, 10% fair. Soybeans 85% blooming; 55% setting pods. Alfalfa 86% second crop cut. Oats 95% ripe; 65% combined. Pastures 37% excellent, 60% good, 3% fair. Soil moisture 14% short, 70% adequate, 16% surplus. Days suitable for fieldwork: 6.

INDIANA: Fieldwork averaged 6 days. Topsoil and subsoil moisture adequate. Corn 92% silked, 1981 50%, average 80%. Corn 35% in dough, 1981 10%, average 25%. Corn condition mostly good to excellent. Soybeans 90% in bloom, 1981 45%, average 80%. Soybeans 40% setting pods, 1981 10%, average 30%. Soybean condition good. Wheat 100% harvested, 1981 100%, average 100%. Wheat land 5% plowed, 1981 8%, average 8%. Oats 75% combined, 1981 95%, average 75%. Rye 100% combined, 1981 100%, average 100%. Alfalfa hay 85% cut second time, 1981 70%, average 85%.

IOWA: A humid, seasonably warm week with scattered light showers. Over 1.00 in. fell on a few northeast and north central localities while many south and western areas reported no rain.

Topsoil moisture: 5% surplus, 85% adequate, 10% short. Subsoil moisture: 16% surplus, 83% adequate, 1% short. Corn tasseled: 85%, last year 100%, normal 98%. Corn silked: 65%, last year 96%, normal 88%. Corn in or past milk stage: 15%, last year 48%, normal 43%. Soybeans blooming: 60%, last year 90%, normal 90%. Soybeans setting pods: 25%, last year 59%, normal 57%. Oats harvested: 70%, last year 96%, normal 87%. Wheat harvested: 95%, last year 100%, normal 98%. Second crop alfalfa hay harvested: 80%, last year 90%, normal 87%. Second crop clover harvested: 50%, last year 69%, normal 60%. Fieldwork: 6.4 days suitable. Crop conditions: Corn, mostly good to excellent; soybeans, fair to good; pasture and hay, good to excellent. Livestock in good condition.

KANSAS: Precipitation averaged little or none northeast, 1.72 in. west central, 0.50 to 0.75 in. elsewhere. Temperatures averaged 75° northwest and 77 to 80° elsewhere, 1 to 3° below normal.

Wheat 100% harvested, same as last year and average. Sorghum 5% headed, 15% last year, 20% average. Soybeans 25% blooming, 45% last year, 40% average; 5% podding, 10% last year, 25% average. Corn 65% silked, 80% last year and average; 15% dough stage, 20% last year, 25% average. Alfalfa hay 2nd cutting 90% complete, 97% last year, 100% average; 3rd cutting 25% complete, 40% last year and average. Crop conditions generally good to excellent except east central where sorghum and soybeans very poor to good. Pastures and range continue good to excellent. Topsoil moisture generally adequate western two-thirds, short eastern third; subsoil moisture generally adequate except southwest where short to adequate. Fieldwork: 6.0 days suitable.

KENTUCKY: Week began with daily highs in 90's then cooler and less humid. Heaviest precipitation southern part of State. Rainfall variable ranging from zero to over 2.00 in. in extreme.

Fieldwork: 4.9 days available. Soil moisture 38% short, 60% adequate, 2% surplus. Corn mostly good; 90% silked or beyond, 80% year ago, 78% average; 23% dough, 20% year ago and average. Soybeans mostly good; 60% blooming and bloomed, 35% last year, 52% average; 20% pods, 8% year ago, average 14%. Tobacco fair to mostly good. Burley 25% topped. Hay and pastures fair to mostly good.

LOUISIANA: Rainfall averaged 1.25 to 4.40 in. Temperatures normal to 1° above normal.

Soil moisture adequate. Days suitable: 4.6. Corn mature 71%, 75% 1981, 60% average; harvested 24%, 32% 1981, 15% average; condition good. Rice headed 67%, 79% 1981, 76% average; ripe 20%, 32% 1981, 30% average; harvested 13%, 18% 1981, 16% average; condition good. Cotton squaring 99% 1982, 1981 and average; setting bolls 95%, 94% 1981, 91% average; condition good. Soybeans flowering 59%, 66% 1981, 64% average; setting pods 29%, 41% 1981, 36% average; condition fair to good. Sorghum headed 92%, 87% 1981, 86% average; turning color 55%, 59% 1981, 45% average; ripe 8%, 25% 1981; condition fair to good. Sweetpotatoes harvested 10% 1982 and 1981; condition good. Sugarcane rated good. Peaches harvested 94%, 95% 1981. Pecans and vegetables rated fair to good. Pastures, livestock rated good.

MARYLAND AND DELAWARE: Temperatures averaged 1° above normal. Highs in 90's, lows in 50's. Precipitation averaged 1.54 in. Range 0.48 to 3.15 in.

Delaware: Corn in good condition. Corn 90% silked, last year 90%. Corn 40% in dough, last year 40%. Soybeans 25% bloomed, last year 20%; 0% podded. Topsoil and subsoil moisture short to adequate. Fieldwork: 6.7 days suitable.

Maryland: Corn generally good condition. Corn 80% silked, last year 90%. Corn 30% in dough, last year 35%. Soybeans 35% in bloom, last year 25%. Soybeans 10% podded, last year 15%. Tobacco 50% bloomed, 20% topped. Topsoil and subsoil moisture short to adequate. Potato leaf hoppers moderate to heavy infestations in central counties. Mexican Bean beetles and Japanese beetles light throughout the State. Fieldwork: 5.9 days suitable.

MICHIGAN: Typical summer conditions prevailed. Average temperatures did not deviate much from normal. Occasional thunderstorms dropped light to moderate amounts of precipitation. Average precipitation varied from 0.10 in. in central Lower to 1.00 in. in east central Lower.

Good weather for development of crops continued during most of the week and timely rains replenished moisture supplies. Statewide 5 days suitable for field activity. Soil moisture supplies adequate. Winter wheat harvest 60% complete, 90% in 1981 and 83% average. Oats harvest 5% in, 25% last year and 22% average. Corn 80% silked, 75% last year and 70% normal. Soybeans setting pods 20%, 15% last year and 17% normal. Dry beans setting pods 20%, 35% last year and 28% average. Second cutting hay 50% complete, 50% in 1981 and 55% average. Tart cherry harvest 80% complete, 90% last year and 81% average. Sweet cherry harvest nearing completion. Vegetable harvest on schedule with normal.

MINNESOTA: Near normal temperatures and generally light rainfall. Temperatures averaged from low 60's extreme northeast to generally low to mid 70's south and were from 2° above normal to 5° below normal. Highest reported temperature was 92° at Preston and Browns Valley while coolest was 44° at Pipestone. Rainfall generally averaged less than 0.50 in. except for a strip from northwest corner to southeast corner which averaged from 0.50 to 0.75 in. Largest reported weekly total was 1.38 in. at Winona.

Weather favorable for crop development and fieldwork. Heavy rains saturated topsoil in the northwest corner of the State. Other regions, rains scattered and amounts varied greatly. Some soils still dry in southeast quarter of State. Other regions, rains scattered and amounts varied greatly. Some soils still dry in southeast quarter of State. Topsoil moisture 3% very short, 24% short, 65% adequate, and 7% surplus. Turning ripe: Spring wheat 67%, 1981 89%, normal 79%; oats 86%, 1981 93%, normal 88%; barley 81%, 1981 96%, normal 89%. Cut or swathed: Spring wheat 6%, 1981 25%, normal 33%; oats 23%, 1981 56%, normal 54%; barley 29%, 1981 62%, normal 58%. Tasseling: Field corn 77%, 1981 92%, normal 90%. In milk stage: Field corn 6%, 1981 12%, normal 27%. Blooming: Soybeans 79%, 1981 85%, normal 89%, sunflowers 18%, 1981 53%, normal 55%. Setting pods: Soybeans 11%, 1981 28%, normal 39%.

MISSISSIPPI: Temperatures averaged slightly below normal. Extremes: upper 60's to 99°. Thunderstorms and rain covered the State with totals in excess of 3.00 in. common. Amounts averaged near 2.00 in.

Soil moisture adequate. Fieldwork: 4.8 days suitable. Weed and insect control measures main farm activity. Cotton 100% blooming, 100% last year, 95% average; 82% setting bolls, 80% last year, 78% average; condition good. Soybeans 65% blooming, 72% last year, 65% average; 25% podding, 30% last year, 25% average; condition good to fair. Rice 35% headed, 40% last year,

35% average; condition good to fair. Corn 60% dented, 28% mature; condition good. Sorghum 71% headed. Hay 72% harvested, peaches 80%, watermelons 83% and corn silage 38% harvested. Sweetpotato and peanut harvest just underway. Pasture condition good.

MISSOURI: Temperatures averaged 3° below normal in the north and 2° above normal in the extreme south. Rains were scattered and precipitation varied from zero to 0.25 in.

Fieldwork: 5.9 days suitable. Corn 87% tasselled, last year 86%. Corn 75% silking, last year 77%, normal 73%. Corn 35% in dough stage, last year 36%, normal 36%. Grain sorghum 53% headed, last year 43%, normal 48%. Soybeans 39% blooming, last year 43%, normal 55%. Soybeans 18% setting pods, last year 15%, normal 18%. Wheat 97% harvested, last year 81%, normal 100%. Oats 92% harvested, last year 79%, normal 100%. Alfalfa hay - second cutting 88% harvested, last year 84%, normal 23%. Third cutting alfalfa hay 29% harvested, last year 21%, normal 23%. Other hay 86% harvested, last year 79%. Condition of corn and pasture mostly good. Condition of soybeans and grain sorghum fair to good. Topsoil moisture supply mostly adequate.

MONTANA: Showers and thunderstorms first and end of week left from 0.10 to 1.00 in. scattered over State. Temperatures near seasonal normals and ranged 3° above normal in west to 3° below normal in southeast. Highest 99° at Thompson Falls, lowest 36° Wisdom and West Yellowstone.

Topsoil moisture short to adequate. Subsoil moisture mostly adequate. Seven days suitable for fieldwork. Cereal crops and potatoes in good condition. Sugarbeets and corn fair to good. Crop progress compared with last year and normal: percent ripe but not harvested winter wheat 8, 40, 40; percent harvested winter wheat 1, 15, 25; percent turning: spring wheat 30, 65, 65; barley 30, 70, 65; oats 30, 65, 65. First cutting alfalfa hay 90, 100, 100. Harvest of wild hay 70, 70, 70. Range feed and stockwater supplies adequate.

NEBRASKA: Precipitation: 3.00 to 4.00 in. over Panhandle, declining to near 0.10 in. over southeast. Remainder of State about 0.50 in. Temperatures: 2° below normal.

Winter wheat harvest 95%, 98% last year and 97% normal. Oat harvest active and nearing completion. Corn mostly good to fair. Silked 40%; about 1 to 1.5 weeks behind 85% last year and normal. In dough 5%, 15% last year and 20% normal. Soybeans mostly good to fair. Blooming 55%, 97% last year. Setting pods 10%, 30% last year and 45% normal. Sorghum mostly good to fair. Heading 5%, two full weeks behind 60% last year and 55% normal. Second cutting of alfalfa near completion. Most irrigation units running. Pasture and range feed mostly adequate. Topsoil moisture mostly short to adequate. Subsoil supplies mostly adequate to short. Days suitable: 6.1.

NEVADA: Scattered to numerous afternoon and evening thundershowers first half of week. Gradual drying trend developed remainder of period accompanied by warmer air. Temperatures averaged near summer normals. Extremes: 34 and 112°.

Small grain maturity accelerated by hot, dry weather. First cuttings alfalfa hay about finished, second crop well along. Hot weather favorable for potatoes and cotton development.

NEW ENGLAND: Temperatures averaged near normal. Warmest at start of week. Coldest on the

30th with minimums in the 40's. Precipitation above normal, exceeding 1.00 in. in most areas and in excess of 2.00 in. in northwest Connecticut and western Massachusetts.

Hay harvest: 2nd crop 43%, 1981 35%. As more crop was cut, quality less than anticipated. Main potatoes: Variable plant size, dry, some heat sprouting, crop condition only fair. Cranberries: Post set stage, irrigation continues, crop developing well. Very good crop prospects. Warm weather helping all crop development. Harvest of summer vegetables, sweet corn, blueberries and raspberries.

NEW JERSEY: Temperatures averaged slightly below normal. Extremes were 49° at Charlotteburg on the 29th and 96° at Toms River on the 26th. Rainfall averaged 1.62 in. north, 1.84 in. central and 0.36 in. south. The heaviest 24 hour total was 2.20 in. at Flemington on the 27th to 28th. Estimated soil moisture, in percent of field capacity, averaged 90% north, 84% central and 60% south. Four inch soil temperatures averaged 71° north, 75° central and 76° south.

Fieldwork: 5.6 days suitable. Heavy thunderstorms caused some local flooding. A few areas still dry. Summer vegetable movement continues good. Tomato canneries opening as supplies increase. Irish potato digging remains light. Blueberry volume declining. Peach harvest continues to increase. Summer variety apple harvest general. Oat combining well advanced. Field corn and soybeans continue to make good growth. Second cutting of hay continues. Pasture growth improved in response to recent showers.

NEW MEXICO: General thunderstorm activity across the State. Precipitation in all areas but in greatly varied amounts. Temperatures near normal.

Alfalfa in good condition with third cutting advancing. Hot weather had helped cotton: condition good but progress still lags. Wheat and barley harvests complete. Corn and grain sorghum making good growth. Onion harvest beginning to wind down. Irish potato digging getting underway. Chile in good condition with a light to average pod set. Peanuts, sweetpotatoes, pecans all in good condition. Ranges in good to excellent condition in the north; mostly fair in the south. Supplemental feeding necessary in areas. Cattle and sheep in good shape. Cotton squaring 92%, 100% 1981. Cotton setting bolls 46%, 50% 1981, 45% average.

NEW YORK: Needed rain fell mid week, first widespread rain in nearly a month. Temperatures normal.

Fieldwork conditions good. Corn tasseling. Wheat harvest 60% done Statewide, mostly done in west, 25% in east. Second cutting alfalfa 36% done, 35% 1981, 38% average. Apples, grapes, pears in good condition. Harvest of early varieties beginning. Sweet cherry harvest done. Tart cherries 65 to 75% harvested in west. Early harvest of potatoes underway. Sweet corn, snap bean harvests progressing well.

NORTH CAROLINA: Temperatures near normal. Precipitation: Rainfall was quite variable across the State, up to 4.40 in. at Aurora in the east.

Fieldwork: 5.4 days suitable. Soil moisture: 1% very short, 12% short, 76% adequate, and 11% surplus. Conditions: Pasture, field tobacco, cotton, peanuts, soybeans, hay, Irish potatoes, sweetpotatoes, and truck crops mostly good; corn mostly good to excellent; apples poor to fair. Harvests: Flue-cured tobacco 39%, 1981 31%, 31% average; hay 73%, 1981 75%, 75% average; peaches 79%, 1981 69%, 72% average. Phenological

stages: Cotton squared 99%, 1981 97%, 92% average; cotton setting bolls 74%, 1981 77%, 76% average; corn silked 96%, 1981 99%, 95% average; corn soft dough 79%, 1981 82%, 73% average; corn dent 50%, 1981 59%, 50% average; corn matured 12%, 1981 11%; soybeans blooming 36%, 1981 49%, 34% average; soybeans setting pods 7%, 1981 8%. Major farm activities: Harvesting flue-cured tobacco, cutting hay, and herbicide applications.

NORTH DAKOTA: Temperatures averaged near normal. Warmest districts were northwest, south central and southeast. Extremes from 95° south central to 41° northeast. Precipitation scattered and near normal for most districts. Isolated thunderstorms produced small hail.

Warm, sunny weather pushed crop development. Small grains matured rapidly. Small grain harvest getting underway. Most advanced in southeast. Percentage of acreage combined along with last year and average was: Hard red spring wheat 2, 4, 6; durum less than one-half, 1, 2; barley 10, 19, 18; oats 3, 9, 10; winter wheat 14, 28, 32; and rye 17, 31, 35. The percent of spring wheat acreage headed or beyond with last year and average was 95, 99, 99. Row crops growth also rapid but remains well behind average. Most row crops in good condition but insects doing some damage in eastern sunflower fields. Additional moisture needed for row crops. Sunflower growth about 9 days behind last year. The percentage of acreage in bloom or beyond compared to last year and average: Sunflower 7, 25, 35; flax 66, 83, 81; potatoes 62, 90, 89. Corn and soybeans also behind average pace.

OHIO: Temperatures averaged 1 to 3° above normal. Growing degree day accumulations continued at an above normal pace ranging from about 150 north to well over 200 south. Precipitation spotty with amounts highly variable and generally light. Totals averaged 0.10 to 0.33 in. north. Much of southwest completely missed although few reports of totals close to 0.50 in. Evaporative loss rates averaged 1.50 to 1.75 in. Soil moisture reserves declined at an accelerated pace.

All operators wishing for rain as corn, soybeans, hay and pasture were under stress. Soybean fields weedy; being sprayed for Mexican Bean Beetles. Major activities included baling hay and straw, harvesting wheat, combining oats, hauling manure, picking sweet corn and raspberries, harvesting early apples and cucumbers for pickles. Corn silked 95%, 55% 1981, 75% average. Corn in dough 25%, 5% 1981, 10% average. Soybeans blooming 90%, 55% 1981, 70% average. Soybeans setting pods 60%, 15% 1981, 40% average. Winter wheat harvested 99%, 100% 1981, 100% average. Oats harvested 70%, 75% 1981, 60% average. Alfalfa harvested (2nd cut) 90%, 50% 1981, 50% average. Other hay harvested (2nd cut) 60%, 50% 1981, 50% average. Days favorable 6. Pasture condition fair. Soil moisture 78% short, 22% adequate.

OKLAHOMA: Rainfall averaged from 0.78 in. in the east central district to 2.23 in. in the southeast district. Temperatures ranged from normal in the northeast to 5° below normal in the Panhandle district.

Scattered showers and slightly cooler temperatures have improved field conditions. Wheat harvested: 99%, 100% 1981, 100% average. Sorghum heading: 25%, 50% 1981, 40% average. Cotton squaring: 40%, 90% 1981, 80% average. Days suitable for fieldwork: 6.1.

OREGON: Temperatures above average except normal along coast. Rainfall scattered from none up to

0.50 in. in North Willamette Valley and south central areas. Wheat harvest making rapid gains; 41% complete; 31% last year. Barley harvest winding down in early areas; starting in higher elevations. Grass seed harvest in west almost complete; field burning underway; harvest in east continuing. Mint condition good; harvest next week. Haying continuing. Cherry harvest over except a few high elevation orchards. Raspberry harvest complete with marion and boysenberry harvest past peak. Sprays going on cranberries, walnuts and filberts. Peach harvest started. Pears and apples sizing well. Norgold potato harvest well along in the Hermiston-Boardman area. Late processing potato harvest a week away. Potatoes sizing well in later areas. Snap beans being picked in volume; some slow up due to cannery strikes; growers concerned. Sweet corn harvest started. Green pea harvest complete. Other vegetables moving to market. Watermelon harvest in full swing. Livestock generally good shape. Ranges in high elevations good; deteriorating in lower elevations. Pastures are dry; need rain.

PENNSYLVANIA: Hazy, hot and humid through 27th, seasonably warm days and cool nights thereafter. Temperatures averaged near to 3° below normal. Extremes: 94 and 43°. Scattered showers and thunderstorms 26th, 27th and 31st provided 1.00 to 2.00 in. rainfall most areas for wettest week since beginning of July. Fieldwork five days suitable. Moisture adequate to short. Activities: Spraying; baling straw; clipping pastures; making hay; and harvesting barley, wheat, oats, peaches, apples, potatoes, snap beans, tomatoes, sweet corn, and cantaloupes. Barley harvest virtually complete, last year 92%. Wheat 93% harvested, last year 79%. Oats 30% harvested, last year 35%. Potatoes 5% harvested, last year 10%. Corn 65% silked with 6% in dough; last year 71% silked with 8% in dough; average 53% silked with less than 5% in dough. Second crop alfalfa 59% harvested, last year 68%. Harvest of first crop clo-tim virtually complete, over 2 weeks later than last year. Second crop clo-tim 22% harvested, last year 32%. Quality of hay made good to fair. Feed from pastures average to below average.

PUERTO RICO: Island average rainfall 2.25 in. or 0.80 in. above normal. Temperatures averaged about 81 to 82° on Coasts and 75 to 78° Interior Divisions. Extremes: 94 and 59°.

SOUTH CAROLINA: First half hot, afternoon highs in the 90's; weather front over the southeast brought showers and cooler temperatures.

Soil moisture adequate to wet; 4 days suitable for fieldwork. Corn good condition; 96% dough stage, 93 last year, 89 average; 42% mature, 58 last year, 53 average; 5% harvested ahead of last years 3%. Cotton good condition; 97% setting bolls, 92 average. Early planted soybeans blooming and look good, 32% behind last year's 42% and 43% average; 7% setting pods compared to 9% last year. Tobacco fair to good; 62% harvested, 49 last year and 52 average. Crop curing light in color and weight. Peach season winding down; 95% harvested, 81 a year ago, 81 average. Fall vegetable planting continue at 18% for snap beans compared to 16 last year. Cucumbers 22% planted ahead of last year's 10%. Fall hay and pastures looking good, rain continues to slow haying.

SOUTH DAKOTA: Temperatures averaged 2 to 3° below normal. Extremes: 104 and 45°.

Topsoil moisture critically short parts of north central and northeast. Short in much of northern districts, southeastern districts and southern counties west of Missouri River. Adequate or surplus elsewhere. Subsoil moisture critically short parts of north central and

northeast. Short over much of northern districts, southwest and southeast. Adequate or surplus elsewhere. Five days suitable. Haying and small grain harvest main activities. Early yields are mostly above average south, average or below north. Development of row crops behind last year and normal. Spring wheat turning color 88%, 1981 100%, average 93%. Oats turning color 95%, 1981 100%, average 97%. Barley turning color 95%, 1981 100%, average 99%. Winter wheat ripe 95%, 1981 100%, average 98%. Winter rye ripe 98%, 1981 100%, average 99%. Spring wheat ripe 60%, 1981 100%, average 79%. Oats ripe 81%, 1981 100%, average 91%. Barley ripe 88%, 1981 100%, average 93%. Flax blooming 90%, 1981 93%, average 98%. Soybeans blooming 60%, 1981 81%, average 84%. Winter wheat harvested 38%, 1981 90%, average 82%. Winter rye harvested 44%, 1981 65%, average 73%. Spring wheat harvested 12%, 1981 37%, average 45%. Oats harvested 23%, 1981 60%, average 60%. Barley harvested 34%, 1981 62%, average 64%. Corn tasseled 45%, 1981 77%, average 74%. Corn silked 28%, 1981 52%, average 55%. Sorghum headed 11%, 1981 22%, average 23%.

TENNESSEE: Crops were in good condition. Field-work averaged 4.6 days. Soil moisture 35% short, 53% adequate, 12% surplus. Soybeans blooming 55%, 1981 52%, average 58%. Soybeans setting pods 17%, 1981 21%, average 18%. Corn silking 93%, 1981 88%, average 88%; dough stage 51%, 1981 54%, average 54%; dented 14%, 1981 17%, average 15%. Cotton setting bolls 92%, 1981 70%, average 68%. Tobacco blooming 72%, topped 28%. Pastures fair. Cattle good.

TEXAS: Upper level trough triggered scattered showers, thunderstorms over northern half State during first part week. Weak frontal system North Texas set off showers, thunderstorms north of front late week. Temperatures near, above normal across State. Precipitation ranged from near 0.50 to 1.50 in. above normal over much State, except along Lower Coast and Valley.

Commercial vegetables: Lower Rio Grande Valley, bell pepper, tomato fields up and making good progress, irrigation operations very active. Land preparation, planting fall vegetables making good progress. Citrus development remains good. San Antonio-Winter Garden, cucumber harvest winding down. Fall vegetable planting full swing. East Texas, sweetpotatoes good progress. Melon harvest active. Trans-Pecos, mid-season onion harvest underway El Paso. Cantaloup harvest slow start, potato harvest active. Blossom end rot problem in some tomato fields. Plains, scattered showers interrupted harvest during week. Onion harvest winding down, most poor quality crop badly bruised. Cucumber, potato harvest active. Fall cabbage being planted. Peach harvest winding down. Light volumes moving to market through end of August. Pecan nutlets sizing, although dry weather may reduce nut size. Producers spray for walnut caterpillars and webworms.

Range and pasture: Range, pasture condition declining with continued hot, dry weather. However, forage supplies adequate, a lot of dry grass available. Scattered showers across Plains and Central Texas revived pastures, grazing remains good. South Texas producers hauling water, some culling herds reduce demand on moisture-stressed pastures. Livestock good condition, although hay fed some areas South Central Texas.

Crops: Cotton squaring 83%, 93% 1981. Cotton setting bolls 24%, 68% 1981. Cotton open bolls 7%, 8% 1981. Rice turning color 91%, 83% 1981. Rice harvested 44%, 35% 1981, 36% average. Sorghum headed 78%, 79% 1981. Sorghum turning color 62%, 64% 1981. Sorghum mature 51%, 53% 1981. Sorghum harvested for grain 46%, 41% 1981, 45% average.

Corn for grain harvested 18%, 4% 1981, 9% average. Oats for grain harvested 100%, 100% 1981, 100% average. Soybeans planted 100%, 98% 1981, 100% average. Cotton harvest active Lower Valley through Coastal Bend, and good yields have been reported in some areas. Crop set bolls Central Texas, and rain needed across most region for bolls to fill out properly. On Plains stands blooming, setting bolls. Most late-planted fields making good progress, but yield potential low most areas. Weekend rains much-needed moisture Plains. Statewide condition improved during week and was 67% of normal with 3% excellent; 32% good; 55% fair; and 10% poor. This compares with 83% of normal last year. **Sorghum** harvest active Blacklands. Midge, headworms problem Central Texas, control measures active. Harvest underway Low Plains, yield erratic because earlier hail damage. Greenbug populations increasing High Plains. Reported condition across State was 83% of normal with 16% excellent; 57% good; 21% fair; and 6% poor. This compares with 89% of normal last year. **Corn** maturing rapidly under hot, summer weather. Fields roasting-ear stage High Plains, some stands denting. Harvest almost complete Coastal Bend. Harvesting operations active Blacklands through South Central Texas, and yields have varied widely throughout region. Statewide condition was 85% of normal with 23% excellent; 50% good; 24% fair; and 3% poor. This compares with 91% of normal last year. Favorable weather along Coast ideal for rice harvest. Harvest remains active, good yields reported. Red rice major problem many fields. Reported condition was 81% fair; and 7% poor. This compares with 86% of normal last year. **Peanuts** moisture-stressed across Cross-Timbers and Edwards Plateau. Despite short moisture supplies, crops make good progress, most stands pegging northern part State. Early soybean fields setting pods High Plains. Some late-planted stands stunted and probably not reach good height. Nematodes problem some areas. Along Coast most stands need rain, some early fields ready for harvest. Growth hay meadows slowed by hot, dry weather, additional moisture needed for additional production. However, most producers have good supply on hand. On Plains, sugarbeets sprayed podworms, and sunflowers make good progress. Early fields blooming.

UTAH: Scattered shower and thunderstorm activity most areas. Accumulated amounts moisture generally light to moderate, but locally quite heavy. Few thunderstorm areas with considerable local flooding. Average temperatures ranged from 3° below normal to 5° above. Water use by plants on both irrigated and nonirrigated fields considerably less than a week ago. Accumulated pan evaporation ranged from 1.62 in. to about 2.75 in.

Weather major factor in determining farm activities. Only 5.5 days available for doing fieldwork. Soil moisture mostly adequate but some local areas need more moisture. Winter wheat 66% ripe, 25% harvested; spring wheat, 32% ripe, 10% harvested; barley, 50% ripe, 18% harvested. Oats 18% ripe, very little harvested to week's end. Corn responding to higher temperatures, a full 48 in. high. Some in tassel. Second crop alfalfa hay progressing to 40% cut. Some rain damage. Spraying for aphids. Tart cherry harvest well along, apricots about 70%. Average date for beginning peach harvest about August 10.

VIRGINIA: Precipitation in all areas of State ranging: 0.25 in. to 3.00 in. Central and southern the heaviest with average of 1.25 to 1.50 in. Western areas only 0.50 in. Temperatures averaged up to 5° above normal.

Fieldwork was active as 4.8 days rated suitable. General crop conditions very good with rainfall scattered stressing some crops locally. Tobacco,

potato, peach, and vegetable harvesting active. Topsoil moisture 58% adequate, 28% short and 14% surplus. Corn excellent condition, 84% silked, 91% 1981; 48% dough, 58% 1981. Army worm infestations in central district. Flue-cured tobacco: 18% harvested, 17% 1981, 8% average. Fire-cured: 8% harvested, 10% 1981 and 2% average. Topping and suckering active. Wet weather causing some spotting and flecking in burley tobacco. Soybeans in very good condition, 31% bloomed, 9% pods set. Potato harvest 88% complete. Peaches 24% harvested. Peanuts in very good condition-leaf spot spraying active. Pasture in good condition with locally dry areas. Incidence of fly and pink eye unusually high in one central district locality.

WASHINGTON: A strong high pressure system centered nearly 1,000 miles northwest of the State was the most significant feature controlling the weather during the week. The high-combined with low pressure extending north from California-produced a cool onshore flow of marine air over western Washington and a hot, dry air flow east of the Cascades where afternoon temperatures were often above 100°. A weak disturbance, accompanied by thunderstorms and rain showers, crossed the State on 29th and 30th. Most of the measurable rainfall for the week occurred on 30th with widely scattered amounts up to 0.33 in. reported.

West: Field corn, for silage, in excellent condition. Barley almost ready to cut. Good quality green peas were harvested. Sweet corn tasseling. Late summer vegetables were harvested. Digging of flower bulbs continued. Turnip and radish seed was also harvested. Raspberry harvest winding down, blueberry picking just

beginning. Blackberries load good. Livestock and pastures in good condition. Hay supplies adequate. Greenchop, grass silage cutting, and hay making were main activities.

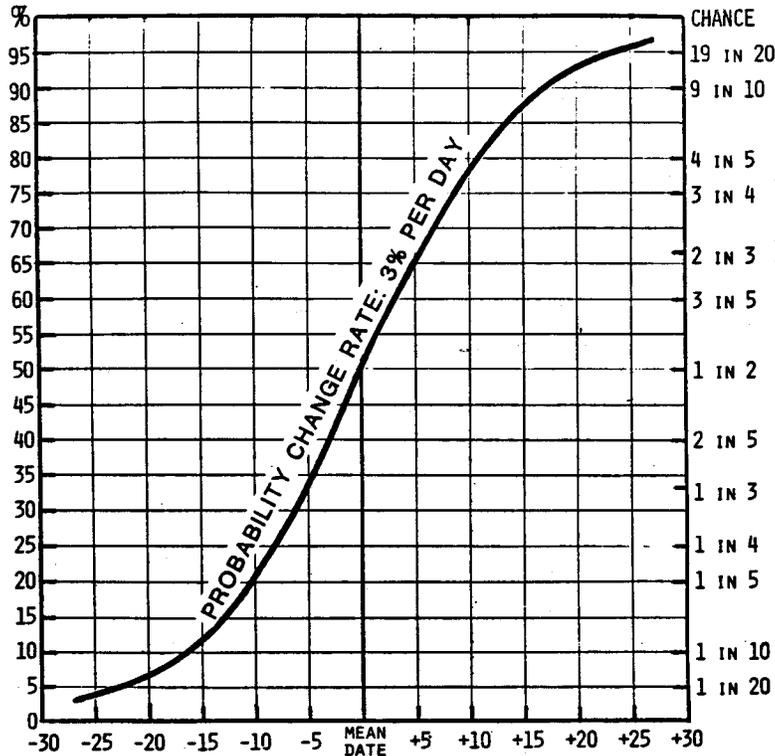
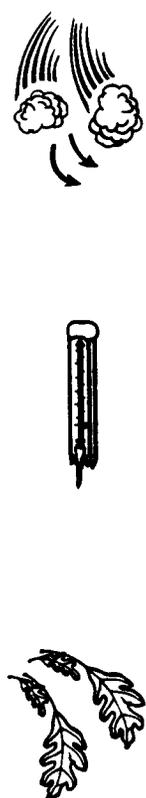
East: Wheat, barley, dry peas, green peas, barley variety potatoes, Walla Walla sweet onions, early storage onions, sweet corn, peppers, tomatoes, cucumbers, and cantaloupes were all harvested. The second cutting of alfalfa hay also continued. Peaches and apricots were picked. Pears and apples were progressing nicely. Cherry harvest over. Cover sprays were applied for cooling moth and aphids. Livestock and pastures were generally in good condition. Hay supplies were adequate.

WEST VIRGINIA: Temperatures near normal. High 99°, low 45°. Precipitation varied. Range 0.14 to 4.61 in.

Soil moisture adequate to short. Days worked averaged 4.2. Main activities: Hay harvesting, gardening, small grain harvesting and general maintenance. Wheat good to fair condition: 82% harvested; 82% harvested in 1981. Barley fair to good condition; 91% harvested; 96% harvested in 1981. Oats good to fair condition; 53% harvested, 48% harvested in 1981. Corn good condition. Pasture good to fair condition. Hay fair to good condition. First cutting 93% complete and 78% of normal, 91% and 85% in 1981. Second cutting 27% harvested, 68% of normal, 30% and 73% in 1981. Tobacco fair to good condition. Peaches poor to fair condition. Apples good to fair. Gardens good to fair. Scattered shower interrupted grain and hay harvesting. Heavy localized showers caused some flooding in southern areas.

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PROBABILITY OF FIRST FALL FREEZE BEFORE A CERTAIN DATE



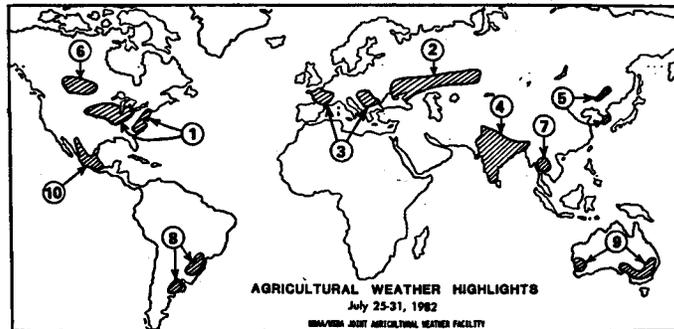
NUMBER OF DAYS TO SUBSTRACT FROM, OR ADD TO, THE MEAN DATE OF FIRST FREEZE (32 °F OR LOWER) IN THE FALL, TO OBTAIN OTHER PROBABILITIES OF OCCURRENCE. THE NATIONAL CURVE DEPICTED ABOVE WAS DERIVED FROM NUMEROUS, LONG-TERM REPORTS THROUGHOUT THE NATION. DH

MEAN DATE OF FIRST 32°(F.) TEMPERATURE IN AUTUMN

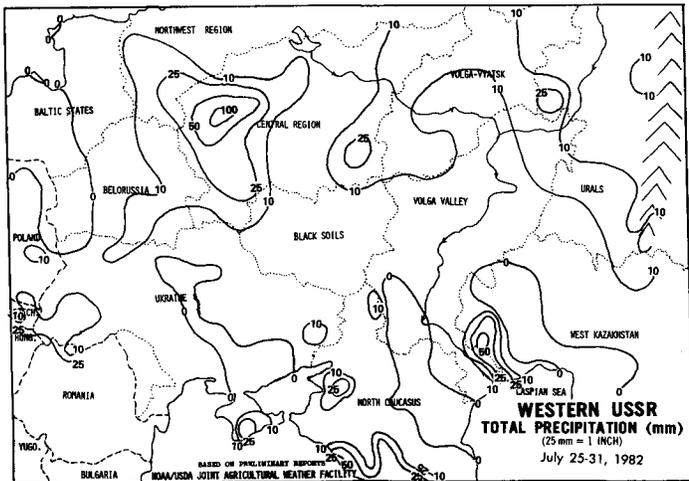


International Weather and Crop Summary

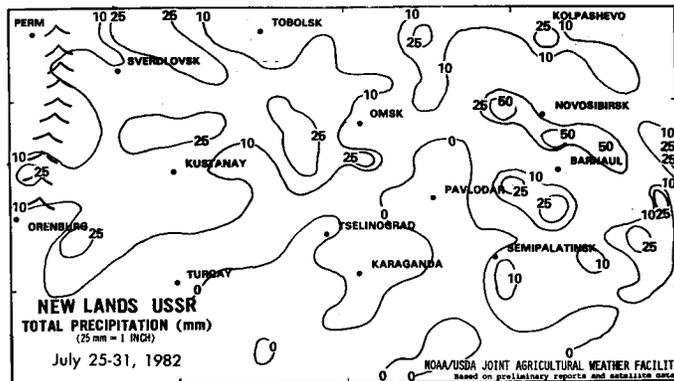
July 25-31



1. **UNITED STATES:** Sunny conditions over northern part of the central Plains allow rapid harvesting of winter wheat. Scattered rains along the east coast benefit crops and replenish soil moisture. Generally ideal weather prevails for Corn Belt crops.
2. **USSR:** Mostly dry weather over southern grain areas aids harvest.
3. **EUROPE:** Heavy rains in some areas of France and the southeast delay harvest.
4. **SOUTH ASIA:** Strong monsoon rains maintain improved growing conditions in most areas.
5. **EASTERN ASIA:** Generous rains improve growing conditions in South Korea; northeastern China still too dry.
6. **CANADA:** Beneficial, light showers aid crop growth as grains and oilseeds advance into filling periods; locally heavy rain in southern Manitoba.
7. **SOUTHEAST ASIA:** Lighter rainfall in Thailand leaves some rainfed rice and corn areas too dry.
8. **SOUTH AMERICA:** Heavy rain inundates wheat areas of Argentina; favorably dry for wheat growth and coffee harvest in Brazil.
9. **AUSTRALIA:** Drought intensifies over eastern crop areas; beneficial showers aid early growth in west and south.
10. **MEXICO:** Lighter-than-usual rainfall over most agricultural areas, especially those in the Northeast, keeps rainfed immature crops progressing slowly.

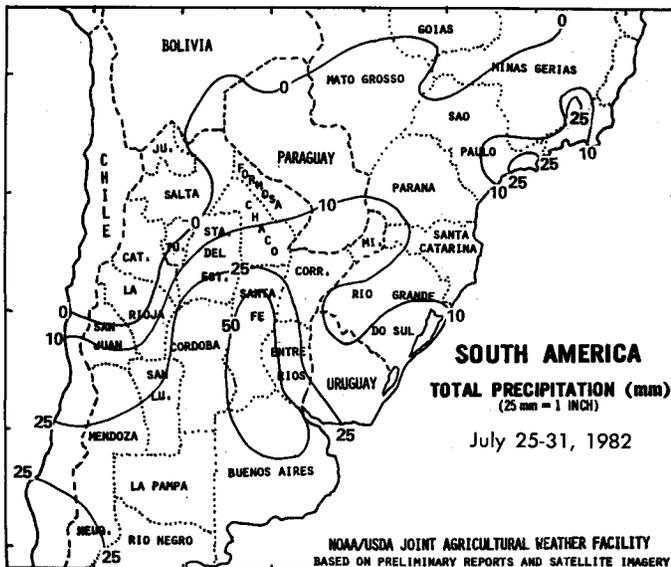


USSR: A light precipitation pattern in the Baltic States and western Belorussia favored winter grain ripening. The Central Region reported wet weather with locally heavy amounts of precipitation falling on more western locations. In general, the moisture aided those spring grains which are in the filling stage. Scattered showers fell over the western Ukraine, causing only minor delays in harvest activity. Mostly dry weather from the eastern Ukraine northeastward through the Black Soils extending into the central Volga Valley increased the harvest pace. The corn crop, however, will require additional moisture to ensure favorable yield prospects. In addition,

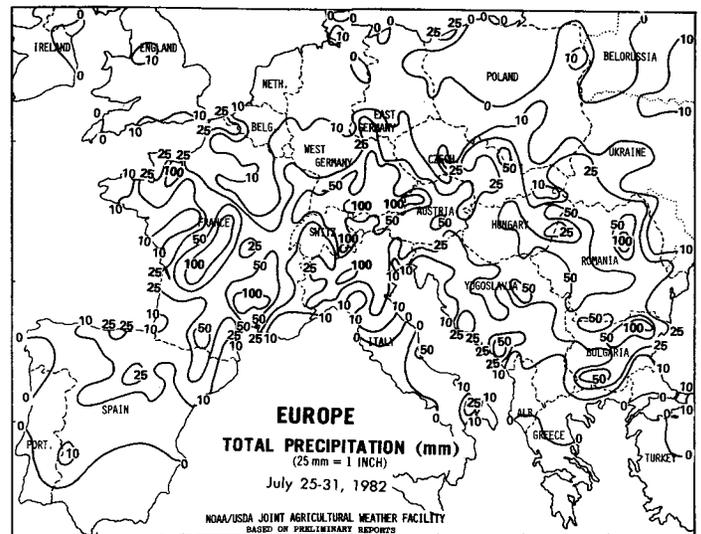


weekly temperatures over much of European USSR were below those which are optimum for corn now in the reproductive stage.

In the New Lands, an eastward moving frontal system produced widespread showers over western areas early in the week. A short period of hot, dry weather covered the eastern grain areas ahead of the front, but locally heavy showers relieved potential stress conditions. Precipitation amounts in the west ranged from 10 to 25 mm, but in the east limited areas reported extremes as high as 70 mm. Spring grains are approaching maturity in the north, and reports indicated that harvest activity is underway in more southern areas.

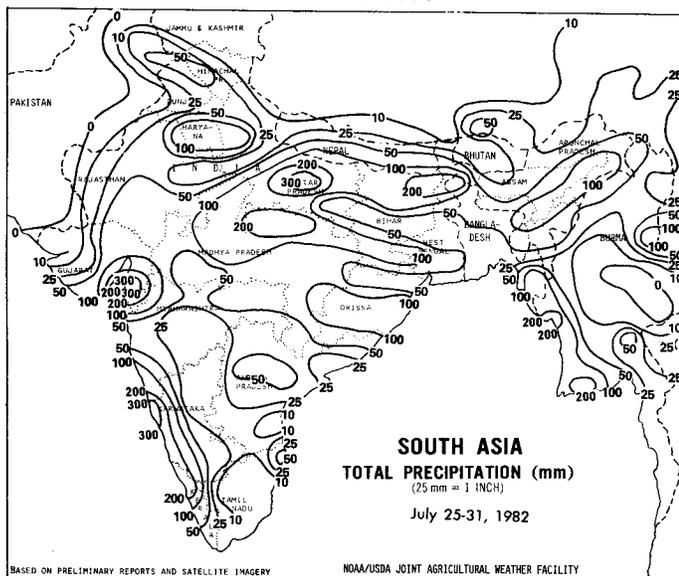


SOUTH AMERICA: An unusually intense storm system produced locally heavy rain in the wheat area of Santa Fe and Entre Rios. The rain caused flooding of the Parana River which likely inundated portions of the wheat crop grown in that area. Heavy rain also fell in northern Buenos Aires which produced excessively wet conditions for the semidormant wheat crop. By midweek, dry weather moved into the region bringing welcomed relief from the wetness. The storm system weakened as it moved into Uruguay and southern Brazil. Thus, weekly rainfall was mostly light in those wheat areas. This light rainfall followed a several-week period of wetness throughout much of Brazil's crop areas. Cold weather moved into southern Brazil behind the storm, but frost was not reported in the coffee areas.

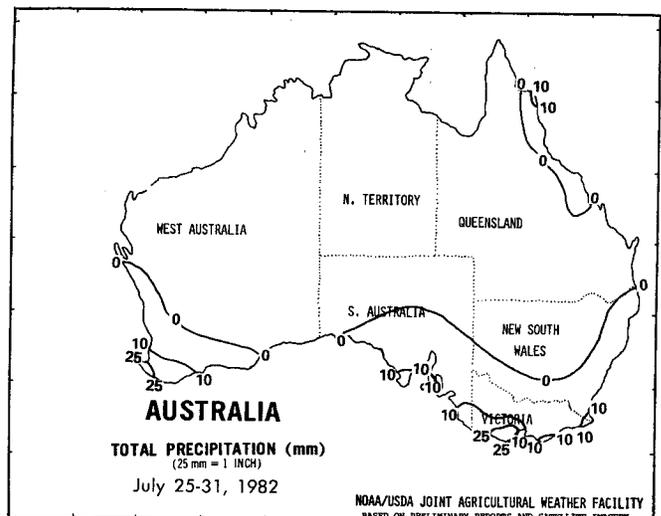


EUROPE: Heavy precipitation fell from France, eastward through northern Italy, central Europe, extending into southeastern Europe. The continued heavy rain falling on France and Italy came late in the period, reversing a dry pattern which had persisted in some areas since early April. Rainfall as heavy as 100 mm were reported at several locations, saturating fields. In addition, gusty winds accompanied the heavy showers, likely causing some crop lodging. The precipitation which fell on southeastern Europe continued to delay the winter grain harvest and

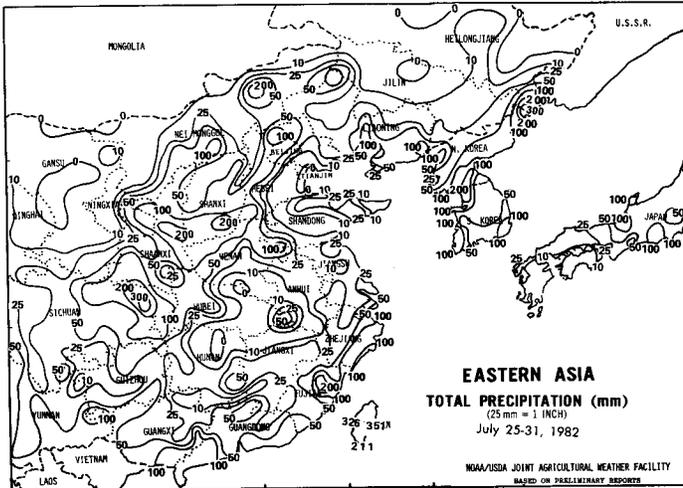
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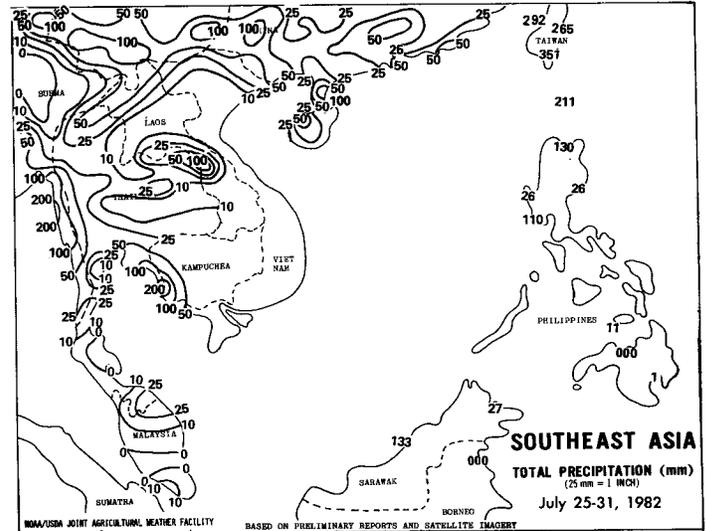
SOUTH ASIA: The summer monsoon maintained its strength over the subcontinent. Most agricultural areas of India, Bangladesh, and the Punjab of Pakistan had normal rainfall or greater. Dry areas to the northeast of the hills along the southwest coast of India diminished, but conditions remained drier than normal in central and northwestern Gujarat. This area has intense peanut cultivation and is on the western edge of an important cotton-growing region. Other than these two persistent problem areas, crop prospects improved over most of the region. Temperatures held near normal for the most part.



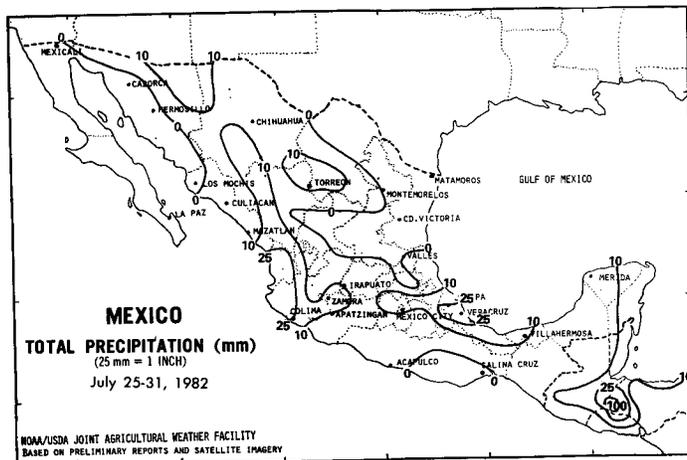
AUSTRALIA: As the drought worsened over eastern crop areas, the government of New South Wales officially declared 70 percent of that state drought-stricken. Only coastal areas have received substantial rains during the past few months while the major crop area has been virtually dry. Reports indicate that winter growth of pastures has been stunted by the combination of persistent dryness and periods of cold weather. Thus, the condition of winter wheat which was planted must also be severely stressed. Showers during the week aided crops in the southwestern portion of Western Australia as well as in South Australia and southern areas of Victoria. However, the major portion of eastern Australia's wheat crop has suffered substantial reductions in potential yields due to the lack of any significant moisture to sustain proper emergence and early growth. In addition, the drought has prevented planting of up to 20 percent of the wheat crop intended for that area.



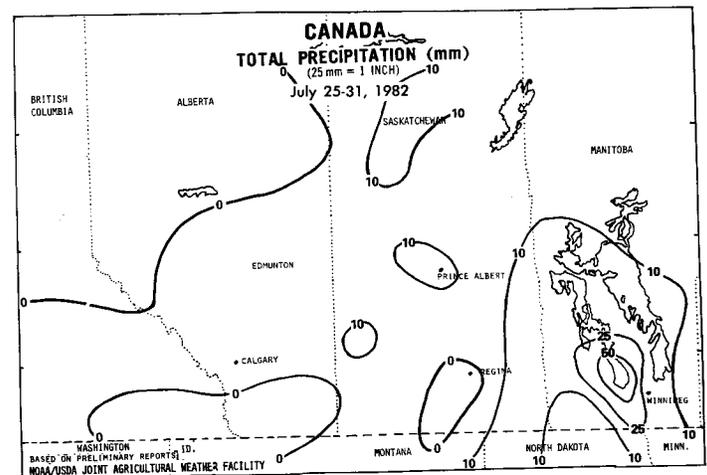
EASTERN ASIA: Drier weather dominated most of the North China Plain and the Yangtze Valley, giving previously drenched areas a chance to dry out. Some southern areas were becoming too dry. The area centered in Hunan has had little rain in the past 5 weeks; however, irrigation supplies should be adequate for crop needs. Northern parts of Hunan benefited from above-normal rainfall. This area was the edge of a rainy belt which covered many northwestern crop areas and improved growing conditions substantially. However, heavy rains may have caused some flooding. Many southern coastal locations also had above-normal rains. Typhoon Andy dumped heavy rains on Fujian and Zhejiang Provinces, but the moisture was mostly beneficial, except for localized flooding. Liaoning had beneficial rain, but the rest of the northeast remained unfavorably warm and dry. Temperatures in central China stayed below normal. In South Korea, generous rains over most rice-growing areas improved growing conditions as the crop approached the flowering stage. Temperatures were slightly below normal.



SOUTHEAST ASIA: Rainfall slackened somewhat to below normal over most of Thailand. Irrigation supplies on the Central Plains were likely adequate to meet crop water needs, but conditions in some eastern areas were too dry. In this region of rainfed rice, a band of below-normal rainfall has persisted for much of the growing season. Crop areas just to the north and south of this band had adequate moisture. The dry band extended into corn-growing areas, where mature fields benefited but late-planted fields needed additional moisture. Reservoir levels in the north likely did not increase much with the mostly below-normal rainfall. Satellite imagery indicated that rainfall in Vietnam, Laos, and Kampuchea was about the same as in Thailand.



MEXICO: Lighter-than-usual rainfall over most major agricultural areas, especially those in the Northeast, slowed growth of immature crops. Rainfed citrus and sugarcane continued being stressed by lack of moisture over the Northeast and southward along the central coastal states. Light rains dotted the southern Plateau corn belt, favoring harvest of early corn and beans. However, the rains were inadequate for water needs of late crops. Sunny, hot conditions continuing over northern northwestern cotton areas kept crops progressing well and irrigation requirements high.



CANADA: Scattered showers produced mostly light weekly rainfall across the Canadian Prairies. However, locally heavy rain may have lodged crops and waterlogged fields in southern Manitoba during midweek as thunderstorms developed over the region ahead of a frontal system. Otherwise, favorable temperatures and generally adequate moisture maintained good to excellent crop conditions throughout the grain belt. Grain crops are in heading to early-filling stages of development while oilseed crops are flowering to early podding. Some localized severe weather has been scattered throughout the Prairie Provinces, and southeastern Saskatchewan reported limited moisture supplies until very recently. However, generally favorable weather during the growing season in most areas has compensated for the slow early crop development and indicates the potential for excellent yield prospects.



FIRST CLASS MAIL

210

National Weather Summary

(continued from front page)

and Arizona. Some severe storms produced heavy rain in southern New England and at isolated points across the South. Temperatures remained mild over most of the Corn Belt, but a warming trend began in the western portion.

State Summaries (continued from p. 19)

WISCONSIN: Temperatures averaged near normal. Week categorized by frequent showers. Temperatures ranged from a high of 92° in Iola on the 28th to a low of 47° in Lake Thompson on the 29th. Daytime highs were mostly in the 70's and 80's and nighttime lows were mostly in the 50's and 60's. Rain fell on 26th, 27th and again on 29th and 30th. Heaviest precipitation totals came from the central third of State.

Fieldwork: 5 days suitable. Farmers continued with the second crop hay harvest. Currently 48% of second crop harvested, 46% 1981, 40% average. With very adequate rainfall accumulation, pastures continue to look good and rated 86% of normal, 78% 1981, 75% average. The corn crop playing catch-up and has perked up over the past three weeks. Currently 46% of the crop has silked, 66% 1981, 54% average. An average of 6% of the corn acreage in dough stage of development, 11% 1981, 9% average. Harvest has begun on small grains and the winter wheat crop 20% harvested. Combines being readied for oats. Some fields of barley and rye have been harvested. Snap beans being harvested in the central sands area as early varieties of potatoes.

Topsoil moisture supplies were rated 9% short, 76% adequate and 15% surplus. Moisture supplies most abundant in the central district where they were rated 33% surplus.

WYOMING: Cool, wet week. Temperature averages below normal. Precipitation above normal ranging from 0.25 in. in west to 3.12 in. in east.

Topsoil moisture adequate 73% State. Average 4 days suitable fieldwork. Small grains maturing slower than normal. Winter wheat mature: 40%; normal 93%. Winter wheat harvested: 5%; normal 64%. Spring wheat turning color: 84%; normal 81%. Spring wheat mature: 5%; normal 41%. Oats turning color: 31%; normal 65%. Oats mature: 5%; normal 29%. Barley turning color 55%; normal 80%. Barley mature: 15%; normal 48%. Corn fair to good condition, 10% tasseled. Dry beans good condition, 70% in bloom. Potatoes good condition, 70% in bloom. Sugarbeets mostly good condition. First cutting alfalfa 85% complete. Other 40% harvested. Livestock good condition. Ranges, pastures mostly good condition. Fall, winter grazing prospects mostly good.

International Summary (continued from p. 22)

may be reducing the quality of the crop. In contrast, the light precipitation pattern, which continued from England eastward through northern Europe into Poland, aided harvest activity. Weekly temperatures were above normal in the west and below normal in the east.

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