

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

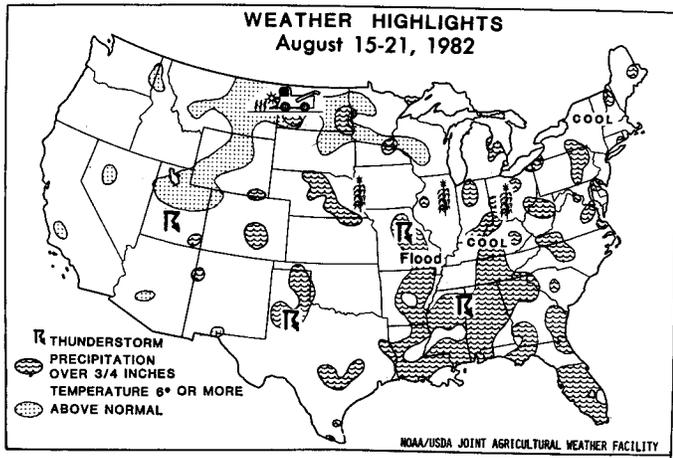
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Aug. 24, 1982

National Weather Summary

August 15 - 21



the East Coast States to Virginia. The warm, moist air over the rest of the coastal states also promoted thunderstorms from the lower Mississippi Valley to Georgia and from Florida to Virginia. Widely scattered thunderstorms broke out over the central Plateau, the Rockies, and the high Plains.

WEDNESDAY . . .Thunderstorms covered the area all along the gulf coast from southeastern Texas through Florida and northward to western North Carolina. Widely scattered storms continued over the central Plateau, the Rockies, and the northern high Plains. A few thunderstorms reached to the western Great Lakes. Very warm temperatures continued in the northern high Plains. It was much cooler from the central Appalachians through New England.

THURSDAY . . .Thunderstorms diminished over the gulf coast, but some moderate showers fell in Florida. Isolated showers fell on the southern tip of Texas where rain was badly needed. Showers and thunderstorms were scattered over nearly all of the Rockies and Plateau, and a few light showers even fell in the Central Valley of California. Thunderstorms spread from the central Rockies into Nebraska and the Dakotas and through the Great Lakes region.

FRIDAY . . .Scattered showers and thunderstorms continued along the gulf coast from the tip of Texas through Florida and along the southeastern coast. A cold front brought showers and thunderstorms to the northeastern United States from the Ohio Valley and eastern Great Lakes to the east coast. There were widespread showers and thunderstorms throughout the Rockies. Moderate storms extended from the east-central Rockies, through Kansas and southern Nebraska, and through northern Missouri to the Ohio Valley. Nighttime temperatures were rather cool over much of the Nation, but daytime temperatures rose to at least the eighties over all but the Northeast.

(continued on back cover)

HIGHLIGHTS: Temperatures in the western Corn Belt were quite cool early in the week but warmed later, allowing crops to develop at a normal rate. Warm weather in the northern Plains hastened crop development and accelerated the spring wheat harvest. Light, scattered showers in the eastern Corn Belt and cool weather slowed crop development and stressed some corn. Severe thunderstorms from eastern Missouri to northeastern Arkansas caused heavy downpours, resulting in local flooding.

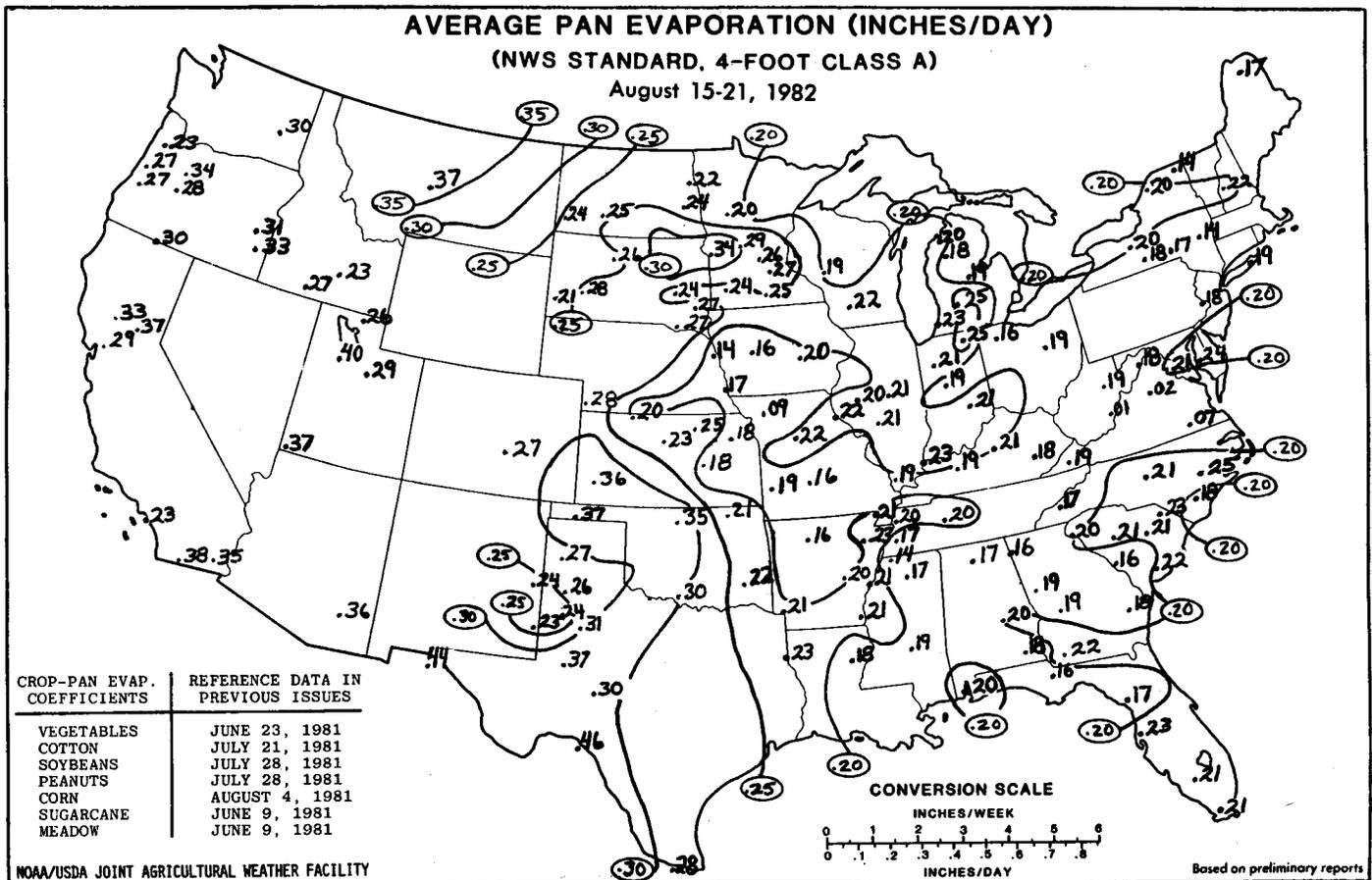
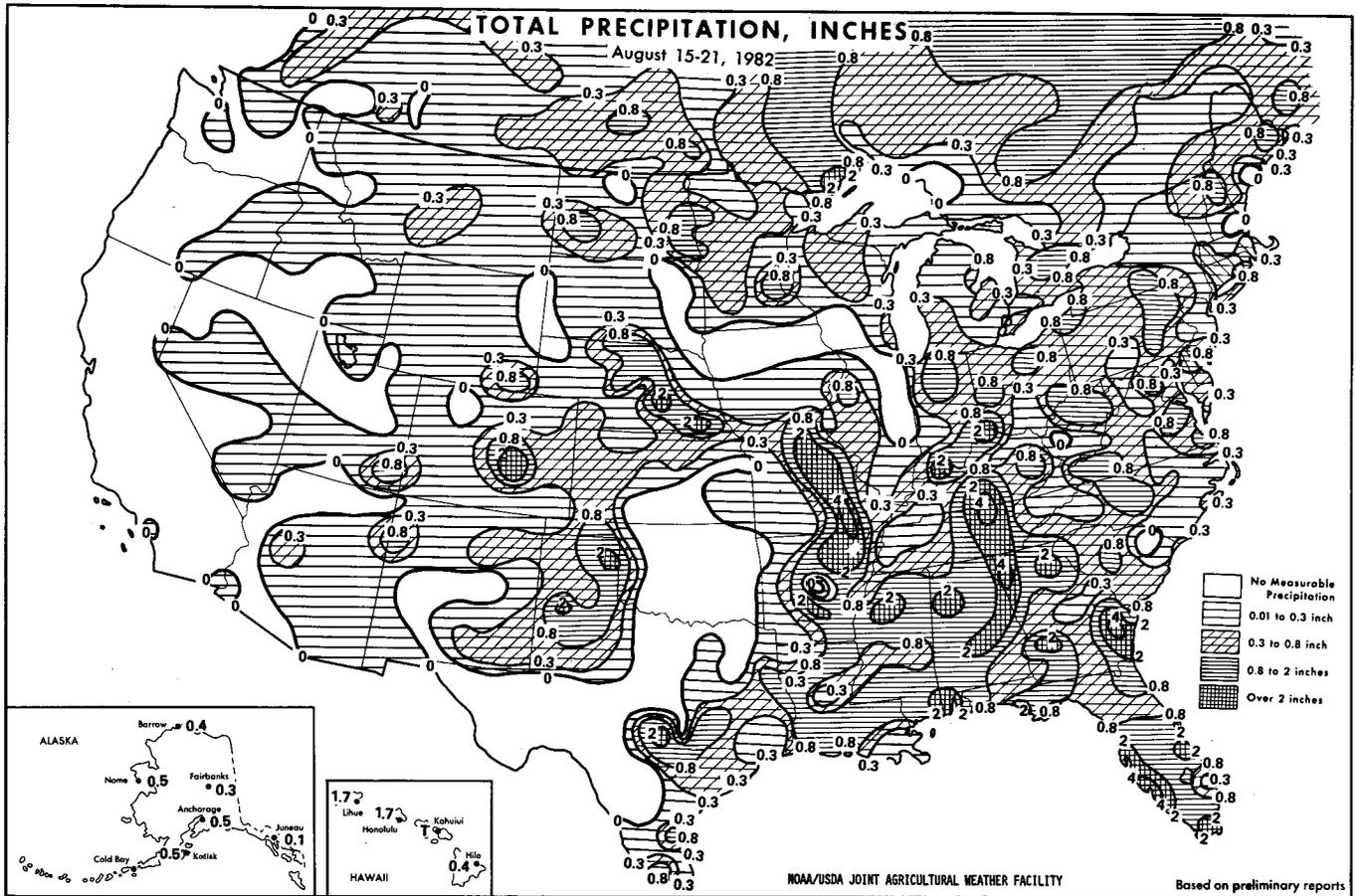
SUNDAY . . .A pool of cool air remained over the western end of the Corn Belt while the rest of the Nation warmed. Temperatures in the nineties reached through the Plains to South Dakota and even to southwestern Missouri, but Illinois, Iowa, southeastern Nebraska, and northern and eastern Missouri remained in the seventies. Along the edge of the cool air, through eastern Missouri and down the Mississippi Valley to the coast, severe thunderstorms broke out. Less violent thunderstorms extended through the Ohio and Tennessee Valleys and in the Texas Panhandle and south-central Rockies.

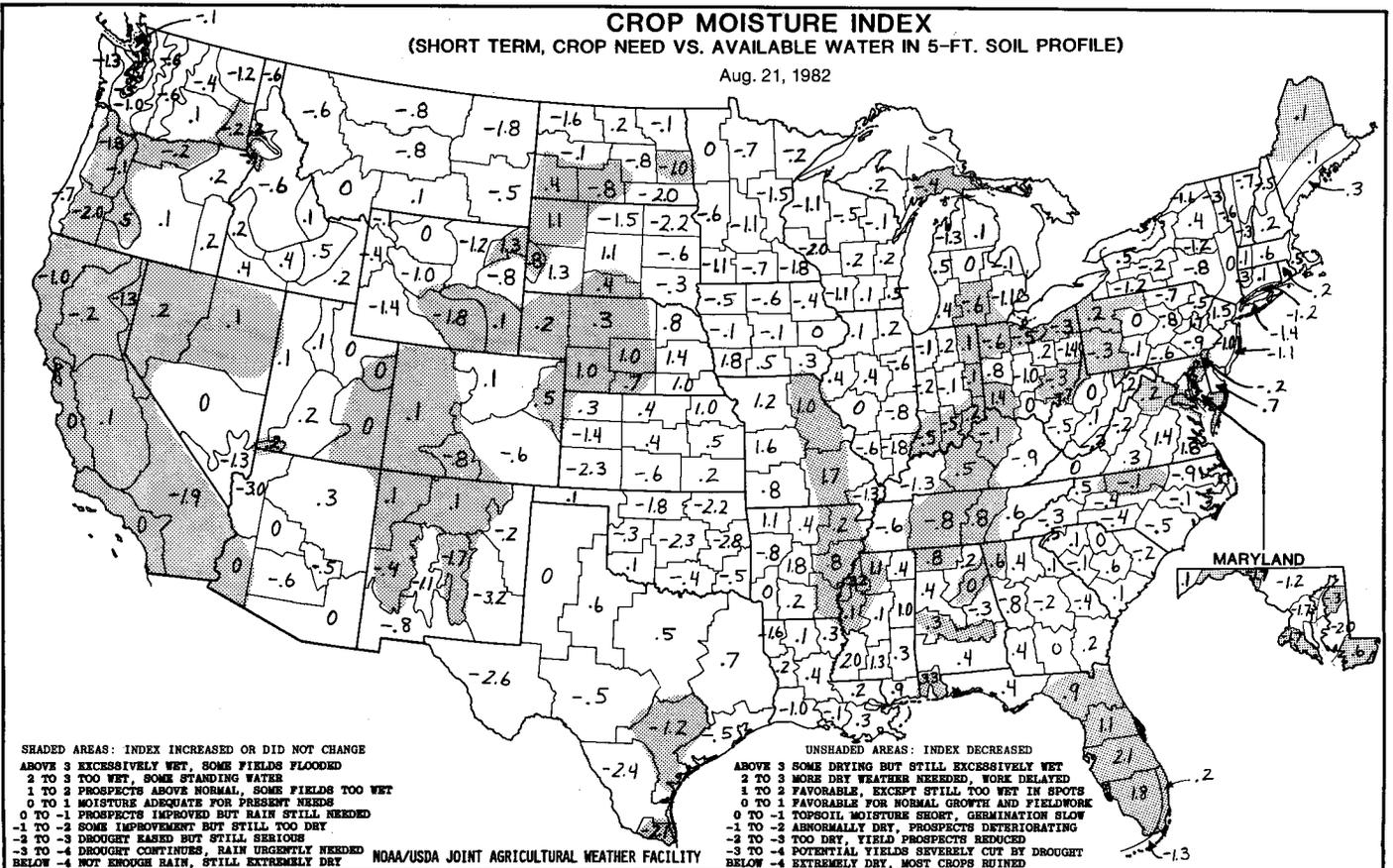
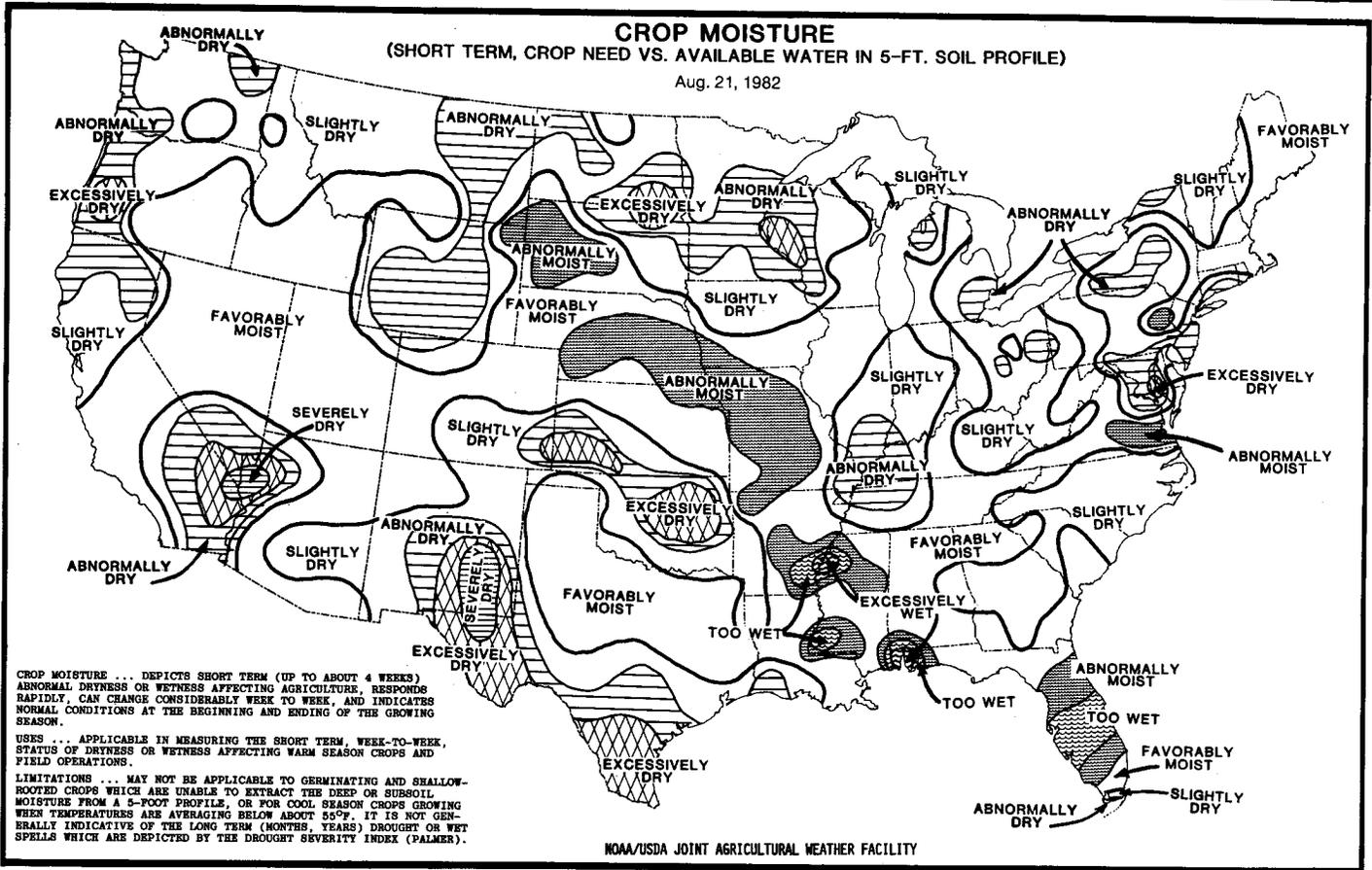
MONDAY . . .Temperatures in the western Corn Belt rose into the eighties after seeing morning low temperatures in the sixties. The warmer weather promoted growth of corn and soybeans which were beginning their critical filling stage. Light showers and thunderstorms covered the area through the Rockies, the Missouri Valley, south of the Ohio Valley, and across the Appalachians through Virginia. Thunderstorms became heavy in the Tennessee Valley, the southern Appalachians, and the lower Mississippi Valley.

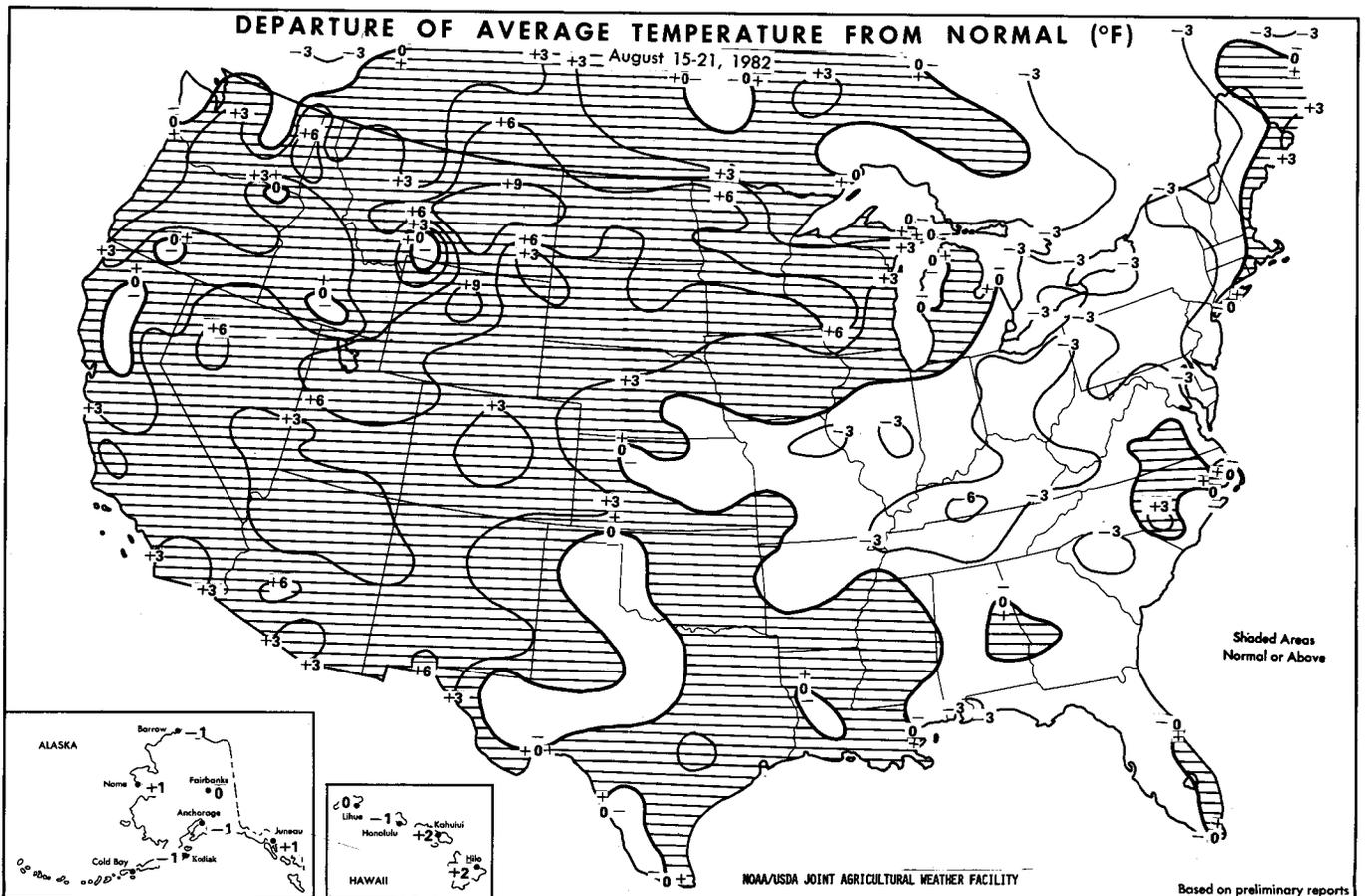
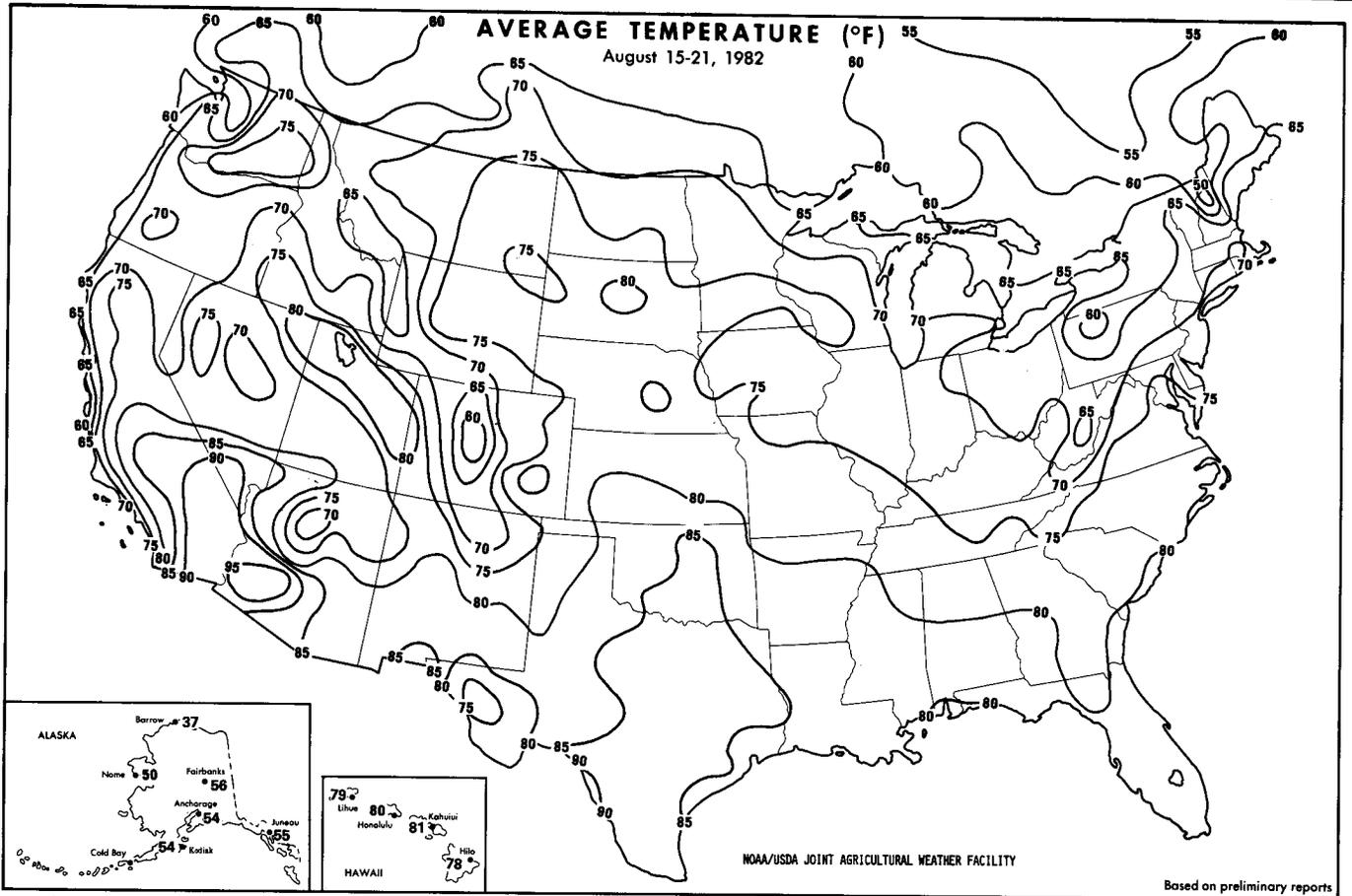
TUESDAY . . .A cold front moving through the Northeast triggered widespread, moderate, occasionally heavy, thunderstorms along and ahead of it through

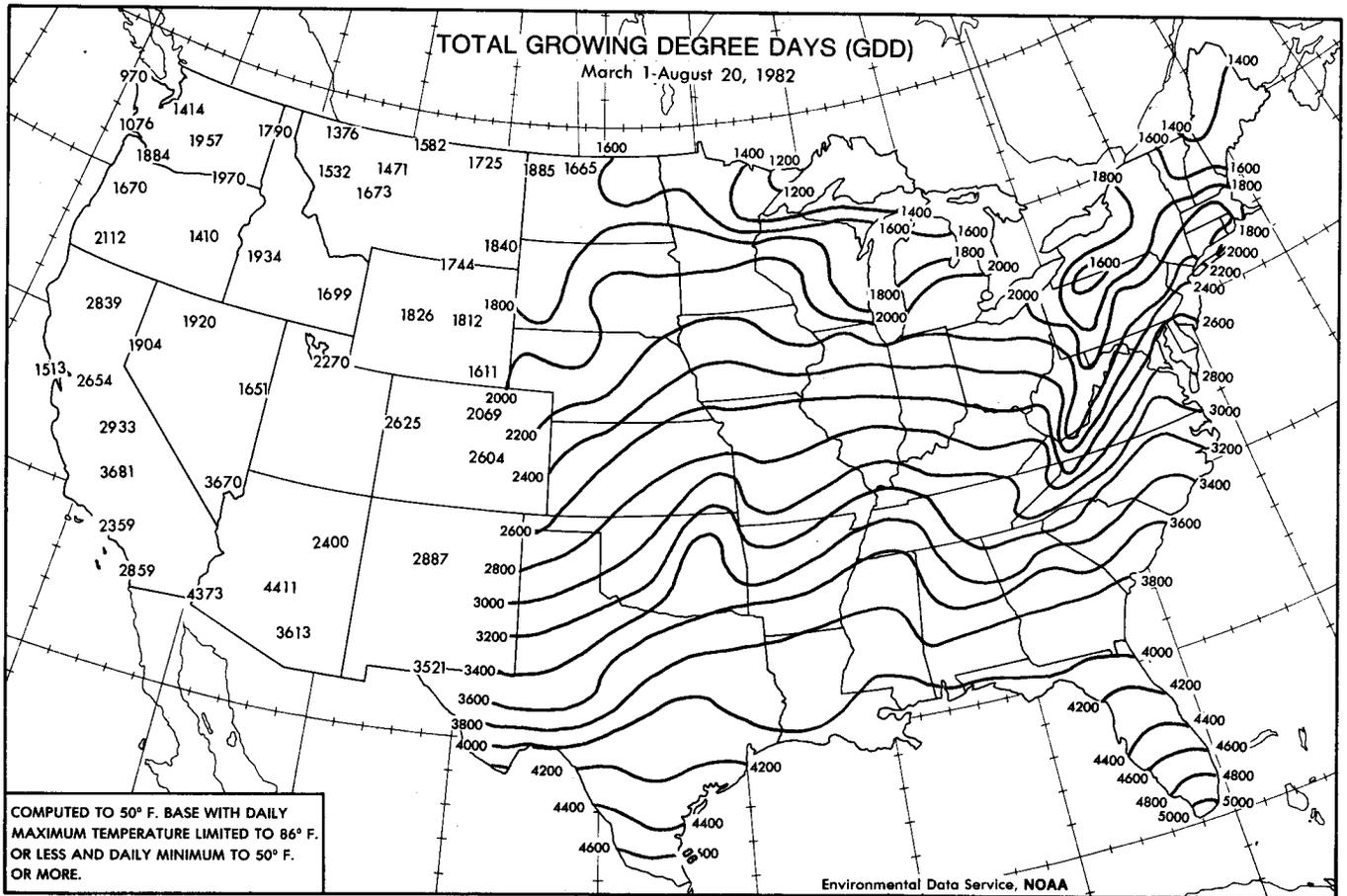
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Weather Data for the Week Ending Aug. 21, 1982

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
AL BIRMINGHAM	88	69	89	67	79	0	1.7	.7	1.0	22.3	177	48.6	137	99	59	0	0	3	1
MOBILE	88	71	90	70	80	-2	3.4	2.0	1.6	31.1	154	55.8	125	97	59	2	0	5	3
AK MONTGOMERY	90	71	91	69	81	0	2.9	2.2	2.9	15.5	130	45.6	141	89	53	5	0	2	1
ANCHORAGE	63	46	68	43	54	-1	.5	0	.5	4.8	100	6.7	85	94	57	0	0	1	1
BARROW	41	32	49	28	37	-1	.4	.2	.2	1.7	89	3.3	110	100	87	0	4	5	5
FAIRBANKS	63	48	71	43	56	0	.3	.2	.2	5.2	100	8.2	108	87	52	0	0	3	0
JUNEAU	64	46	72	43	55	1	.1	1.0	.1	5.5	50	23.6	87	98	67	0	0	3	0
KODIAK	61	48	64	43	54	-1	.5	.5	.5	12.6	117	35.1	112	84	66	0	0	1	0
NOME	55	45	61	39	50	1	.5	.3	.5	5.0	83	10.6	108	83	65	0	0	3	0
AZ PHOENIX	106	86	112	83	96	7	.7	.3	.7	1.2	71	4.5	110	52	22	7	0	3	0
PRESCOTT	86	64	92	62	75	3	.4	.3	.3	1.9	30	8.3	69	78	30	1	0	4	0
TUCSON	98	72	103	68	85	2	.1	.4	.1	4.3	108	7.7	113	74	25	7	0	4	0
YUMA	107	83	114	80	95	3	.7	.1	.7	2.2	50	1.8	129	51	21	7	0	1	0
AR FORT SMITH	91	70	95	64	81	-1	.7	.6	.7	11.8	127	31.5	113	93	50	5	0	1	0
LITTLE ROCK	88	70	93	67	79	-1	.7	.6	.7	15.9	192	40.7	133	85	57	3	0	0	0
CA BAKERSFIELD	98	72	103	66	85	4	0	0	0	0	+100	4.3	116	64	26	7	0	0	0
EUREKA	66	54	71	50	60	3	.7	.1	.7	.8	89	24.4	109	93	70	0	0	0	0
FRESNO	96	64	100	60	80	2	0	0	0	0	+100	8.6	115	87	56	0	0	0	0
LOS ANGELES	77	63	85	61	70	0	0	0	0	0	300	8.6	137	85	28	7	0	0	0
RED BLUFF	97	62	107	59	79	0	0	0	0	0	+100	8.6	115	87	56	0	0	0	0
SACRAMENTO	90	56	98	54	73	-1	0	0	0	1.8	300	12.8	98	72	20	6	0	0	0
SAN DIEGO	80	68	89	64	74	2	0	0	0	.1	100	18.1	156	82	30	5	0	0	0
SAN FRANCISCO	71	54	77	53	63	0	0	0	0	0	+100	9.0	161	87	59	0	0	0	0
CO DENVER	87	62	91	57	74	3	.2	.1	.2	4.4	98	8.6	80	80	31	1	0	2	0
GRAND JUNCTION	93	67	96	64	80	5	.1	.2	.1	1.4	88	3.7	74	64	24	6	0	0	0
PUEBLO	88	64	94	59	76	2	2.8	2.3	2.3	10.5	219	13.5	152	90	42	4	0	1	0
CT BRIDGEPORT	81	62	87	57	71	-1	.2	.7	.2	16.2	178	33.6	140	91	51	0	0	1	0
HARTFORD	82	57	88	48	69	-1	.3	.7	.3	20.4	210	37.6	146	87	39	0	0	1	0
DC WASHINGTON	86	66	91	64	76	-1	1.1	0	.7	12.4	108	27.8	109	84	41	1	0	2	1
FL APALACHICOLA	87	73	90	71	80	-1	.7	1.1	.3	17.6	93	39.0	110	97	69	1	0	3	0
DAYTONA BEACH	88	71	91	70	80	-1	.6	1.0	.3	16.7	93	35.7	117	97	60	2	0	3	0
JACKSONVILLE	89	71	91	69	80	-1	.9	.9	.7	17.6	91	32.4	94	100	64	4	0	6	1
KEY WEST	88	77	90	74	83	-2	1.1	.1	.5	13.0	110	25.8	124	87	66	2	0	4	1
MIAMI	90	76	91	73	83	0	2.0	.4	.8	21.9	106	43.3	123	93	58	3	0	5	2
ORLANDO	90	73	92	72	81	-1	1.8	.3	1.1	24.9	120	41.8	124	83	51	5	0	4	1
TALLAHASSEE	88	72	92	70	80	-1	1.2	.3	.9	23.5	113	44.1	106	100	67	3	0	3	1
TAMPA	87	75	91	74	81	-2	2.2	.4	1.3	28.7	139	40.2	120	93	66	2	0	4	2
WEST PALM BEACH	90	74	93	73	82	0	.2	1.4	.1	18.1	93	53.0	150	90	57	4	0	4	0
GA ATLANTA	85	67	89	65	76	-1	.8	0	.5	14.0	123	38.1	115	94	56	0	0	2	0
AUGUSTA	88	68	92	67	78	-2	.2	.7	.2	10.6	87	28.5	96	96	53	1	0	1	0
MACON	89	72	93	70	80	-1	.1	.7	.1	11.0	97	34.0	113	96	59	2	0	3	0
SAVANNAH	87	72	92	70	80	-1	1.6	.2	1.0	27.0	142	42.8	121	91	60	3	0	4	1
HI HILO	85	71	87	69	78	2	.4	2.1	.2	45.6	185	127.4	161	93	66	0	0	3	0
HONOLULU	86	75	90	73	80	-1	1.7	1.5	1.2	2.4	150	22.5	169	87	63	2	0	5	1
KAHULUI	89	73	93	71	81	2	.7	0	.7	2.1	233	22.5	201	82	54	3	0	1	0
LIHUE	83	75	86	72	79	0	1.7	1.2	1.2	7.2	141	45.3	186	95	77	0	0	5	1
ID BOISE	91	58	95	54	75	3	.7	.1	.7	1.8	113	7.3	96	65	22	5	0	1	0
LEWISTON	95	61	105	55	78	7	.7	.1	.7	1.4	50	6.8	85	68	21	5	0	0	0
POCATELLO	92	55	97	53	74	4	.1	0	.1	2.7	135	9.1	125	81	22	6	0	1	0
IL CHICAGO	83	60	88	53	72	0	0	.6	0	11.7	121	24.4	116	87	41	0	0	0	0
MOLINE	85	62	89	55	74	1	0	.7	0	14.0	119	28.5	123	93	49	0	0	0	0
PEORIA	84	63	88	57	73	0	.2	.5	.2	12.1	121	29.2	126	91	54	0	0	1	0
QUINCY	82	64	85	59	73	-4	.2	.7	.2	14.6	124	29.6	119	93	62	0	0	1	0
ROCKFORD	83	59	86	52	71	-1	0	.8	0	14.9	132	28.0	119	95	47	0	0	0	0
SPRINGFIELD	85	63	88	57	74	-1	.1	.5	.7	7.7	76	23.7	106	92	58	0	0	2	0
IN EVANSVILLE	85	62	90	55	74	-2	.2	.5	.1	7.6	76	30.1	106	94	51	1	0	3	0
FORT WAYNE	82	57	86	52	70	-2	.6	.1	.6	10.6	105	28.8	120	86	38	0	0	1	0
INDIANAPOLIS	86	59	89	53	72	-1	.2	.4	.2	9.7	97	29.4	116	94	45	0	0	1	0
SOUTH BEND	81	60	85	56	71	0	.6	.1	.6	12.9	129	28.2	124	91	45	0	0	1	1
IA DES MOINES	84	66	87	60	75	1	.1	.6	.1	11.9	113	29.4	139	86	55	0	0	1	0
SIoux CITY	85	64	91	55	74	1	.7	.7	.7	6.9	68	17.3	93	87	52	1	0	0	0
WATERLOO	84	62	87	55	73	2	0	.8	0	8.5	69	22.1	98	95	51	0	0	0	0
KS CONCORDIA	88	70	97	66	79	2	.4	.3	.4	17.1	161	30.1	155	83	47	2	0	1	0
DODGE CITY	92	70	97	67	81	3	.7	.6	.7	9.1	111	14.7	101	85	39	6	0	0	0
GOODLAND	89	64	96	60	77	2	.4	.1	.4	13.8	192	20.4	166	87	37	4	0	1	0
TOPEKA	84	66	88	61	75	-2	.7	1.0	.7	15.5	117	28.6	119	96	62	0	0	0	0
WICHITA	93	70	97	65	81	2	0	.6	0	9.8	89	22.2	111	81	39	6	0	0	0
KY BOWLING GREEN	83	60	87	54	72	-6	.9	.2	.3	8.6	83	28.8	89	100	57	0	0	4	0
LEXINGTON	85	61	90	53	73	-2	.1	.6	.1	8.3	71	24.1	79	86	38	1	0	2	1
LOUISVILLE	83	64	87	58	74	-2	1.0	.3	.6	10.2	99	28.3	96	89	49	0	0	2	0
LA ALEXANDRIA	91	74	93	70	83	0	.7	.6	.7	14.8	133	32.3							

Weather Data for the Week Ending Aug. 21, 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	94	73	97	70	83	0	.2	.4	.2	7.9	95	22.3	77	94	47	7	0	1	0
ME	74	54	84	45	64	2	.3	.6	.2	9.2	88	21.0	98	90	46	0	0	3	0
ME	78	55	86	44	67	0	.1	.5	.1	12.7	169	30.3	128	87	45	0	0	1	0
MD	86	61	91	58	73	-1	.2	.8	.2	8.6	80	24.5	94	79	38	2	0	2	0
MD	85	63	88	59	74	-2	.6	.7	.6	11.9	100	28.1	100	100	50	0	0	2	1
MA	81	64	87	54	72	1	.3	.5	.3	20.1	239	35.5	138	75	41	0	0	2	0
MA	74	63	80	55	68	-1	.1	.1	.1	10.0	-	27.8	-	86	71	0	0	1	0
MA	80	51	89	42	66	2	.1	.5	.1	6.6	92	14.1	87	96	43	0	0	2	0
MI	82	56	87	51	69	-2	.1	.7	.1	9.5	104	21.6	103	89	37	0	0	1	0
MI	80	58	85	51	69	1	.5	.3	.4	7.3	83	14.7	77	91	42	0	0	2	0
MI	83	58	88	49	71	1	.4	.1	.3	7.9	96	19.9	102	89	36	0	0	2	0
MI	78	53	84	45	66	1	.2	.3	.1	9.1	112	19.4	115	93	46	0	0	2	0
MI	82	58	86	51	70	0	.3	.3	.3	7.1	87	15.1	77	93	42	0	0	2	0
MI	78	50	84	43	64	1	.1	.7	.1	8.1	76	21.5	100	96	48	0	0	1	0
MI	79	59	83	50	69	0	.8	.2	.8	7.8	111	20.6	113	96	49	0	0	2	1
MI	74	48	79	39	61	-3	.2	.5	.2	5.1	64	18.5	105	94	50	0	0	1	0
MN	86	63	88	57	74	6	.5	.4	.4	8.7	84	18.1	104	97	44	0	0	2	0
MN	77	55	81	47	66	2	.1	.8	.1	9.1	83	19.9	101	88	48	0	0	2	0
MN	78	53	84	46	65	2	.6	.2	.3	7.9	75	15.4	90	99	56	0	0	2	0
MN	88	64	91	56	76	6	.9	.2	.7	3.9	38	15.2	86	86	42	2	0	3	1
MN	85	61	88	52	73	5	.1	.8	.1	6.5	59	20.5	106	87	50	0	0	2	0
MS	90	72	93	67	81	0	2.0	1.4	1.2	10.7	108	35.2	--	94	56	5	0	4	2
MS	91	73	94	69	82	1	.5	.3	.4	20.5	195	42.3	131	98	58	5	0	3	0
MS	92	72	93	68	82	1	.3	.5	.2	17.4	146	40.9	119	92	52	7	0	2	0
MO	86	65	90	59	76	-3	.2	.7	.2	10.1	103	33.1	119	98	54	2	0	1	0
MO	84	66	88	58	75	-1	2.9	2.2	2.9	14.0	131	28.2	119	95	59	0	0	1	1
MO	83	67	89	61	75	-1	.1	.7	.1	18.5	146	34.2	141	95	61	0	0	2	0
MO	84	67	89	63	76	-2	.5	.1	.5	18.3	176	34.0	142	96	52	0	0	1	0
MO	88	68	92	62	78	1	.1	.5	.1	14.0	132	28.5	113	94	54	2	0	1	0
MT	92	65	97	60	79	9	.1	.2	.1	6.8	166	13.8	141	66	26	5	0	1	0
MT	90	61	95	53	76	7	.1	.3	.1	2.6	51	8.4	108	72	23	4	0	2	0
MT	86	52	89	40	69	2	.1	.2	.1	4.2	81	12.9	117	69	26	0	0	2	0
MT	88	57	94	47	73	5	.1	.1	.1	3.1	69	10.9	131	70	20	3	0	2	0
MT	91	55	93	49	73	7	.2	0	.2	4.0	98	9.3	118	73	21	5	0	2	0
MT	84	47	89	44	66	3	.1	.3	.1	6.4	145	13.7	137	95	32	0	0	1	0
MT	93	65	98	62	79	6	.1	.1	.1	5.9	105	10.5	105	78	26	5	0	1	0
MT	89	52	92	47	70	5	.1	.2	.1	3.1	89	11.4	139	92	26	4	0	0	0
NE	82	64	91	59	73	-3	2.1	1.6	2.1	12.6	138	27.9	163	98	61	1	0	1	1
NE	83	65	92	56	74	-1	.1	.8	.1	15.7	145	27.9	143	97	65	1	0	1	0
NE	84	65	93	56	75	1	.1	.6	.1	7.3	74	19.6	111	91	56	1	0	1	0
NE	86	63	92	59	75	1	.1	.3	.1	5.6	66	14.3	97	90	48	2	0	1	0
NE	82	66	89	58	74	0	.1	.8	.1	9.3	81	24.6	118	94	64	0	0	1	0
NE	90	65	95	62	77	6	.1	.2	.1	13.0	228	17.4	157	79	34	6	0	1	0
NV	91	65	96	56	78	5	1.8	1.2	1.8	9.1	115	17.9	134	76	37	5	0	1	1
NV	87	50	90	48	69	3	.3	.1	.3	1.9	90	7.6	131	74	21	1	0	1	0
NV	103	77	106	74	90	3	.1	.1	.1	1.1	122	4.3	91	78	19	4	0	1	0
NV	91	49	100	41	70	4	.1	0	.1	2.4	171	4.7	85	48	14	5	0	1	0
NH	93	50	99	43	71	4	.1	0	.1	1.1	122	4.3	91	78	19	4	0	1	0
NH	78	51	86	38	65	-2	0	.6	0	13.3	151	27.6	128	86	43	0	0	0	0
NJ	86	60	90	55	73	0	.4	.8	.2	7.7	67	21.9	77	96	45	1	0	2	0
NM	93	66	96	62	80	3	.1	.2	.1	2.3	74	4.2	81	72	28	6	0	1	0
NM	89	67	101	65	78	2	.2	.4	.1	7.8	107	10.7	--	82	37	3	0	3	0
NM	93	70	100	64	82	4	.1	.3	.1	2.4	49	4.0	49	68	31	6	0	1	0
NY	78	52	84	45	65	-5	.2	.5	.2	10.7	129	24.1	121	95	46	0	0	1	0
NY	74	54	83	46	64	-3	1.2	.4	.7	11.6	115	25.1	107	90	47	0	0	2	2
NY	76	55	82	46	66	-3	.6	.2	.6	7.4	99	24.0	114	90	48	0	0	1	1
NY	83	66	89	58	75	0	.2	.9	.2	8.9	88	24.5	95	78	42	0	0	1	0
NY	78	57	84	47	68	-2	.5	.2	.4	8.9	114	19.2	97	82	41	0	0	3	0
NY	77	53	83	45	65	-5	.1	.7	.1	10.9	125	22.6	101	96	59	0	0	2	0
NC	81	61	85	60	71	-2	.3	.7	.3	15.4	125	36.7	124	100	60	0	0	3	0
NC	85	67	88	66	76	-2	.5	.4	.3	10.6	105	29.7	108	96	58	0	0	3	0
NC	86	65	90	62	76	0	1.2	.2	.9	14.0	122	33.1	124	93	52	2	0	2	1
NC	84	70	86	66	77	0	.2	1.3	.2	14.2	90	39.9	121	100	65	0	0	2	0
NC	85	68	89	65	77	-2	.2	1.4	.1	12.2	66	30.1	82	93	60	0	0	3	0
NC	87	66	90	64	77	0	.2	.9	.2	14.4	115	32.7	117	90	52	1	0	2	0
NC	85	69	88	66	77	-2	.2	1.3	.2	18.6	96	38.6	108	93	56	0	0	1	0
ND	89	60	96	52	75	5	.6	.1	.5	5.0	68	11.7	98	92	35	4	0	3	1
ND	87	62	94	50	74	5	.5	.1	.2	5.3	61	10.5	73	92	40	2	0	4	0
ND	86	59	94	50	73	6	.7	.1	.7	7.3	90	13.2	99	94	44	2	0	1	1
ND	93	61	99	52	77	8	.1	.3	.1	4.7	73	10.6	97	68	25	5	0	1	0
OH	79	55	87	46	67	-3	.2	.5	.1	8.0	82	22.6	96	85	40	0	0	2	0
OH	82	59	87	56	71	-4	2.5	1.9	2.5	12.8	127	32.0	119	82	43	0	0	1	

Weather Data for the Week Ending Aug. 21, 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	
DAYTON	82	59	87	54	70	-2	1.4	.8	1.4	10.7	111	30.6	127	85	47	0	0	1	1	
TOLEDO	82	54	86	50	68	-2	.5	.2	.5	5.5	60	17.9	86	95	39	0	0	1	1	
OK YOUNGSTOWN	79	51	85	43	65	-4	.7	.0	.5	8.2	83	22.4	90	96	44	0	0	2	0	
OKLAHOMA CITY	95	72	103	67	83	2	0	.6	.4	8.2	94	27.7	134	72	36	0	0	2	0	
TULSA	96	72	104	68	84	3	0	.6	0	6.8	67	21.9	92	90	41	7	0	0	0	
OR ASTORIA	70	50	76	45	60	0	T	.3	T	2.6	62	41.5	122	90	57	0	0	0	0	
BURNS	86	48	92	41	67	1	T	.1	T	1.4	88	6.4	90	77	21	5	0	0	0	
MEDFORD	93	54	100	48	74	3	0	.1	0	1.0	63	9.2	84	77	21	5	0	0	0	
PENDLETON	88	61	96	54	74	3	T	.1	T	.8	50	5.5	76	61	23	3	0	0	0	
PORTLAND	84	57	90	52	70	4	T	.2	T	3.7	148	22.4	115	78	36	1	0	0	0	
SALEM	85	50	90	45	68	2	0	.1	0	1.9	86	21.4	99	87	31	1	0	0	0	
PA ALLENTOWN	80	57	85	51	69	-3	.1	.9	.1	17.9	160	34.1	126	93	40	0	0	1	0	
ERIE	76	57	80	49	66	-1	1.3	.5	1.2	12.5	132	25.9	115	78	45	0	0	2	1	
HARRISBURG	82	60	85	55	71	-3	.3	.4	.2	12.5	98	28.7	106	91	42	0	0	2	0	
PHILADELPHIA	84	66	90	62	75	0	.1	.8	.1	10.2	94	30.4	121	85	35	1	0	2	0	
PITTSBURGH	81	55	84	50	68	-2	.6	.1	.4	7.0	71	22.3	92	92	44	0	0	3	0	
SCRANTON	77	55	83	47	66	-4	1.0	.3	1.0	13.2	129	27.6	125	94	52	0	0	2	1	
RI PROVIDENCE	81	60	85	48	71	0	.1	.9	.1	17.3	206	35.4	142	84	43	0	0	1	0	
SC CHARLESTON	86	72	92	70	79	-1	.5	.9	.4	18.7	95	35.3	99	94	63	1	0	2	0	
COLUMBIA	88	67	90	65	77	-3	1.0	.3	1.0	21.1	153	39.4	125	95	52	1	0	1	1	
FLORENCE	86	68	89	66	77	-2	0	1.0	0	13.2	90	30.6	102	97	56	0	0	0	0	
GREENVILLE	84	66	87	65	75	-3	.1	.8	.1	18.5	167	42.2	136	94	60	0	0	1	0	
SD ABERDEEN	91	64	95	57	78	7	---	---	---	---	---	---	---	84	35	5	0	0	0	0
HURON	90	65	98	57	78	5	T	.5	T	7.4	97	15.5	112	91	45	3	0	0	0	
RAPID CITY	86	63	90	60	75	3	.3	.1	.2	9.2	131	18.5	138	91	49	1	0	2	0	
TH SIOUX FALLS	86	64	93	56	75	4	.1	.6	.1	7.0	74	14.6	83	92	48	1	0	1	0	
CHATTANOOGA	85	66	91	62	76	-2	2.4	1.8	1.8	11.9	104	36.8	108	96	54	1	0	4	2	
KNOXVILLE	86	68	89	63	77	0	.2	.6	.2	12.5	113	38.6	125	90	56	0	0	1	0	
MEMPHIS	88	75	91	72	82	1	.3	.4	.2	14.5	148	41.5	127	91	63	4	0	2	0	
NASHVILLE	86	67	88	61	76	-2	.8	.1	.6	9.9	101	32.8	108	98	55	0	0	3	1	
TX ABILENE	97	75	101	71	86	2	T	.4	T	6.6	97	16.5	106	68	29	7	0	1	0	
AMARILLO	89	66	102	60	77	0	.4	.3	.2	11.2	133	14.7	108	80	41	2	0	3	0	
AUSTIN	100	77	104	75	88	3	0	.5	0	3.5	53	16.4	83	82	31	7	0	0	0	
BEAUMONT	93	76	95	75	84	1	.2	1.0	.2	16.7	110	40.4	117	93	58	7	0	1	0	
BROWNSVILLE	96	76	98	74	86	2	.2	.4	.2	1.1	20	15.3	125	90	45	7	0	1	0	
CORPUS CHRISTI	95	75	98	73	85	0	T	.7	T	1.4	22	15.2	97	91	46	7	0	1	0	
DEL RIO	99	76	101	74	88	1	T	.3	T	3.4	92	8.2	83	74	31	7	0	0	0	
EL PASO	99	73	102	70	86	6	T	.2	T	1.4	45	2.5	52	56	21	7	0	0	0	
FORT WORTH	97	75	102	73	86	1	T	.5	T	7.6	119	29.8	145	70	32	7	0	0	0	
GALVESTON	90	80	93	78	85	2	.4	.6	.4	6.5	56	18.7	77	84	65	5	0	1	0	
HOUSTON	94	75	96	72	84	1	T	1.0	T	7.8	66	21.9	75	94	49	7	0	1	0	
LUBBOCK	92	68	103	64	80	1	1.0	.6	1.0	8.2	126	16.2	132	79	39	5	0	1	1	
MIDLAND	95	70	102	68	83	1	0	.4	0	5.1	113	9.9	113	68	27	6	0	0	0	
SAN ANGELO	96	71	100	67	83	-1	0	.3	0	7.0	171	15.0	142	81	31	7	0	0	0	
SAN ANTONIO	98	73	102	71	86	1	0	.6	0	2.1	34	12.4	77	80	30	7	0	0	0	
VICTORIA	97	76	100	74	87	2	.6	.1	.5	1.8	21	17.8	89	90	41	7	0	2	0	
WACO	100	75	104	70	87	2	T	.4	T	6.7	124	21.8	112	84	36	7	0	1	0	
UT WICHITA FALLS	97	70	105	65	84	-2	0	.4	0	9.0	129	29.9	172	87	35	7	0	0	0	
BLANDING	89	59	92	55	74	4	.1	.2	.1	3.2	94	7.8	103	75	36	3	0	2	0	
UT CEDAR CITY	90	61	93	56	75	4	.2	.1	.2	2.6	113	9.3	150	72	25	4	0	2	0	
SALT LAKE CITY	94	68	97	64	81	7	T	.2	T	3.4	126	10.9	111	60	22	7	0	1	0	
VT BURLINGTON	78	54	86	45	66	-1	.6	.2	.4	10.1	101	21.1	103	86	41	0	0	3	0	
VA NORFOLK	83	67	90	65	75	-2	1.6	.3	.9	16.7	119	33.4	116	93	57	1	0	3	0	
RICHMOND	85	66	90	63	76	-1	.9	.2	.5	17.1	127	32.7	117	98	56	1	0	5	2	
ROANOKE	84	62	88	58	73	-1	.2	.8	.2	14.4	141	31.9	129	94	48	0	0	1	0	
WA COLVILLE	86	51	92	44	69	2	0	.2	0	3.3	114	11.6	120	74	35	2	0	0	0	
QUILLAYUTE	72	46	80	42	59	0	0	.6	0	5.9	76	66.2	120	98	48	0	0	0	0	
SEATTLE-TACOMA	77	55	84	49	66	2	.1	.2	.1	2.1	72	21.5	108	83	39	0	0	1	0	
SPokane	89	59	95	54	74	6	T	.1	T	2.2	96	9.4	94	69	25	3	0	0	0	
WY YAKIMA	87	56	94	47	72	3	0	.1	0	2.1	210	5.2	116	79	28	3	0	0	0	
BECKLEY	77	55	80	52	66	-3	.1	.7	.1	14.4	127	30.6	107	99	54	0	0	1	0	
WV CHARLESTON	86	58	89	55	72	-2	T	.8	T	11.4	99	29.4	106	96	42	0	0	0	0	
HUNTINGTON	82	57	84	54	70	-4	.2	.6	.2	11.4	110	29.2	109	98	49	0	0	2	0	
PARKERSBURG	84	60	87	55	72	-1	1.4	.6	1.4	11.0	92	25.8	88	96	40	0	0	1	1	
WI GREEN BAY	80	58	84	51	69	1	.1	.5	.1	8.3	99	17.1	101	97	55	0	0	1	0	
LA CROSSE	87	64	91	53	76	4	T	.7	T	3.9	36	12.5	63	99	46	1	0	0	0	
MADISON	82	58	86	50	70	2	T	.7	T	7.7	74	19.0	97	96	49	0	0	0	0	
MILWAUKEE	80	63	85	56	71	2	.6	.1	.6	9.4	104	23.0	122	91	48	0	0	1	1	
WY WAUSAU	83	59	88	52	71	3	.4	.5	.4	12.1	107	22.8	110	93	46	0	0	1	0	
CASPER	93	59	96	58	76	7	.2	0	.2	6.3	210	11.0	139	72	21	5	0	1	0	
WY CHEYENNE	84	58	87	56	71	3	1.1	.8	.9	8.6	162	13.3	124	85	38	0	0	5	1	
LANDER	92	60	94	54	76	7	.1	0	.1	3.0	111	6.5	68	59	21	7	0	1	0	
PR SHERIDAN	94	58	98	53	76	7	.1	.1	T	5.0	106	9.7	87	73	23	6	0	3	0	
PR SAN JUAN	92	79	93	77	85	4	.1	1.5	.1	8.2	47	29.7	87	86	57	7	0	3	0	

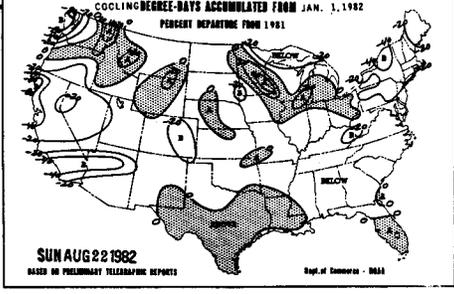
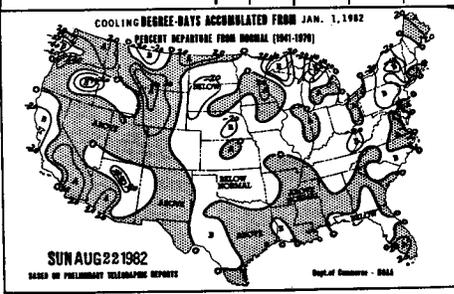
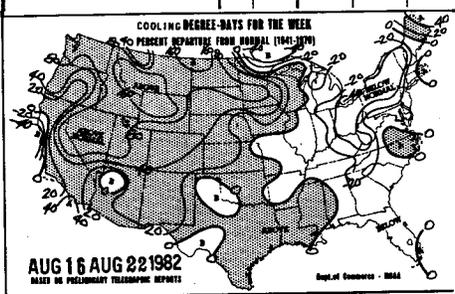
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING AUG. 22, 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. Rows list various cities across the United States with their corresponding HDD values.



Heating Degree Days (Base 65° F.)

July 1982

ALA. Birmingham	0	MAINE, Caribou	60	OKLA. Okla. City	0
Mobile	0	Portland	20	Tulsa	0
Montgomery	0	MD. Baltimore	0	OREG. Astoria	171
ALASKA, Anchorage	261	MASS. Boston	2	Burns U.	86
Barrow	833	Chatham	9	Medford	13
Fairbanks	86	MICH. Alpena	29	Pendleton	22
Juneau	-	Detroit	2	Portland	22
Nome	293	Flint	3	Salem	42
ARIZ. Flagstaff	65	Grand Rapids	6	PA. Allentown	5
Phoenix	0	Houghton Lake	12	Erie	11
Tucson	0	Lansing	7	Harrisburg	7
Winslow	0	Marquette U	37	Philadelphia	0
Yuma	0	S. Ste. Marie	97	Pittsburgh	9
ARK. Fort Smith	0	MINN. Duluth	66	Scranton	17
Little Rock	0	Internatl Falls	21	R. I. Providence	1
CALIF. Bakersfield	0	Minneapolis	0	S. C. Charleston	0
Eureka U.	204	Rochester	0	Columbia	0
Fresno	0	St. Cloud	13	Greenville	0
Los Angeles U	0	MISS. Jackson	0	S. DAK. Aberdeen	-
Red Bluff	0	Meridian	0	Huron	0
Stockton	0	Vicksburg U	0	Rapid City	7
San Diego	0	MO. Columbia	0	Sioux Falls	0
San Francisco	100	Kansas City	0	TENN. Chattanooga	0
COLO. Denver	3	St. Louis	0	Knoxville	0
Grand Junction	2	Springfield	0	Memphis	0
Pueblo	-	MONT. Billings	12	Nashville	0
CONN. Bridgeport	1	Glasgow	16	TEX. Abilene	0
Hartford	1	Great Falls	44	Amarillo	0
D. C. Washington	0	Havre	40	Austin	0
FLA. Apalachicola	0	Helena	30	Beaumont	0
Ft. Myers	0	Kalispell	133	Brownsville	0
Jacksonville	0	Miles City	9	Corpus Christi	0
Key West	0	Missoula	71	Dallas	-
Lakeland U.	-	NEBR. Grand Island	0	Del Rio	0
Miami	0	Lincoln	0	El Paso	0
Orlando	0	Norfolk	0	Fort Worth	0
W. Palm Beach	0	North Platte	0	Galveston U.	0
Tallahassee	0	Omaha	0	Houston	0
Tampa	0	Valentine	0	Lubbock	0
GA. Atlanta	0	NEV. Ely	60	Midland	0
Augusta	0	Las Vegas	0	San Angelo	0
Macon	0	Reno	15	San Antonio	0
Savannah	0	Winnemucca	29	Victoria	0
IDAHO, Boise	27	N. H. Concord	25	Waco	0
Lewiston	15	N. J. Atlantic City	0	Wichita Falls	0
Pocatello	38	Trenton U	-	UTAH, Milford	19
ILL. Cairo U.	0	N. MEX. Albuquerque	0	Salt Lake City	7
Chicago	7	Roswell	-	VT. Burlington	30
Moline	0	N. Y. Albany	20	VA. Lynchburg	0
Peoria	0	Binghamton	19	Norfolk	0
Rockford	0	Buffalo	4	Richmond	0
Springfield	0	New York	0	Roanoke	0
IND. Evansville	0	Rochester	10	WASH. Colville	-
Fort Wayne	0	Syracuse	13	Omak	-
Indianapolis	0	N. C. Asheville	0	Quillayute	237
South Bend	2	Charlotte	0	Seattle-Tacoma	93
IOWA, Burlington	-	Greensboro	0	Spokane	62
Des Moines	0	Hatteras R.	0	Walla Walla U.	6
Dubuque	-	Raleigh	0	Yakima	43
Sioux City	0	Wilmington	0	W. VA. Beckley	0
KANS. Concordia	0	N. DAK. Bismarck	5	Charleston	1
Dodge City	0	Fargo	0	Huntington	1
Goodland	1	Williston U	2	Parkersburg U.	-
Topeka	0	OHIO. Akron-Canton	5	WIS. Green Bay	3
Wichita	0	Cincinnati U.	0	Madison	5
KY. Lexington	0	Cleveland	5	Milwaukee	3
Louisville	0	Columbus	3	WYO. Casper	4
LA. Baton Rouge	0	Dayton	1	Cheyenne	29
Lake Charles	0	Toledo	3	Lander	12
New Orleans	0	Youngstown	11	Sheridan	26
Shreveport	0				

National Agricultural Summary

August 16-22

HIGHLIGHTS: Rain benefited corn and soybeans in parts of the eastern Corn Belt, but more is needed for good plant development and to prevent any further stress. In the western Corn Belt, cool weather again prevailed, especially early in the week, and slowed growth of the already late crops. Warm weather in Montana and the northern Plains aided spring wheat development and allowed harvesting to move rapidly toward completion. Soil moisture supplies were short to adequate in parts of the Northeast, North Central States, and the West. Georgia, Alabama, Mississippi, and Tennessee reported adequate to surplus supplies. Mostly adequate supplies prevailed in other areas of the Nation. Farmers generally had from 4 to 7 days suitable for fieldwork. Growers in the East North Central States had the most days available--from 6 to 7. Winter wheat harvest advanced to 94% completion, only 3 points slower than average. Spring wheat was 46% harvested, 9 points behind average. Corn and soybean development lagged in the western Corn Belt but was ahead of average in the eastern region. In the major States, 66% of the corn was in or past the dough stage, and 29% was in or past the dent stage. Harvests picked up in the South. Soybeans were 93% bloomed, and 73% were setting pods. Leaves began to drop in Georgia. Cotton was setting bolls on 86% of the acreage, 10 points behind normal. Harvesting continued to increase in Texas. Sorghum heading reached 71% completion. The Texas harvest was 62% finished. Rice harvest was 24% complete, 4 points behind average. Summer vegetable harvest slowed, but apple and peach picking gained momentum in the North. Pastures were in mostly good condition.

SMALL GRAINS: Winter wheat harvest was 94% complete in the 15 major producing States, 3 points behind 1981 and average. Only Colorado, Idaho, Montana, Oregon, and Washington had acreage left to be combined. Progress was 24 points behind schedule in Idaho and 35 points behind in Montana due to a late, cool spring and wet conditions. In the Corn Belt, producers plowed fields for fall planting of the 1983 crop. Plowing was 22% finished in Indiana.

Spring wheat was 46% harvested in the 5 major producing States, behind last year's 68% and the average of 55%. Progress lagged in all States except South Dakota.

CORN: Corn was in good to excellent condition in parts of the Corn Belt and Southeast and fair to good in other areas. Rain is needed, especially in eastern parts of the Corn Belt, to prevent further stress and for good plant development. Cool temperatures in the western Corn Belt again slowed development of the already late crop. In the 17 major producing States, 66% of the corn was in or past the dough stage, and 29% was in or past the dent stage. Progress continued ahead of normal in the eastern Corn Belt and behind average in the western region. Corn was 42% dented in the eastern area, 9 points ahead of average, and only 12% dented in the western region, 14 points later than normal. Harvest gained momentum in the South, reaching 43% completion in Georgia. Harvest was just getting underway in North Carolina, Virginia, and Tennessee.

SOYBEANS: Soybeans were in good to excellent condition in many southern areas and in parts of the Corn Belt. In other regions, mostly good conditions were reported. Rain is needed in the eastern Corn Belt for good development and to prevent any further stress. In the 18 major producing States, 93% of the soybeans had bloomed,

and 73% were setting pods. Development was ahead of average in the eastern Corn Belt but lagged in the western region. Progress of pod set was particularly behind average in Kansas and Nebraska. Cool temperatures during the week again slowed growth in this region. Leaves were beginning to drop from plants in Georgia.

COTTON: Cotton was in fair to mostly good condition. In the 14 major producing States, cotton was setting bolls on 86% of the acreage, behind last year's 97% and the average of 96%. Progress lagged by 17 points in Texas and 25 points in Oklahoma due to earlier weather conditions. In the Southeast, bolls were beginning to open. Bolls had opened on over one-half the acreage in central and western Arizona. Arizona reported some hail and rain damage. Dry, open weather provided excellent conditions for harvesting in the southern half of Texas. This year's crop was 9% harvested in Texas. Operations were winding down in portions of the Coastal Bend and Lower Valley, with stalk destruction in full swing in the Coastal Bend area.

OTHER CROPS: Sorghum remained in fair to good condition. In the 7 major producing States, sorghum was 71% headed, behind last year's 85% and the 84% average. Progress was behind average in all States, ranging from 1 point in South Dakota to 25 points in Kansas and 37 points in Colorado. In Texas, harvesting was 62% finished, equal to last year and average. Harvest was underway as far north as the Low Plains.

In the 5 major rice producing States, rice was headed on 79% of the acreage. Harvest was 24% complete, 4 points behind average. Harvest was 82% finished in Texas, 44% in Louisiana, and just getting started in other States.

Peanuts made good growth in Texas with very little disease reported. Irrigation was needed to combat dry conditions.

Sunflower harvests were underway in scattered areas of the Texas Panhandle. Early fields were defoliated in preparation for harvest while late-planted fields were sprayed for head moths.

Harvesting of all types of tobacco gained momentum. The Georgia and South Carolina harvest neared completion. Heavy rains damaged some fields in Tennessee.

VEGETABLES: Summer vegetable harvests declined in Northern areas. Growers prepared fields and planted fall crops. Land preparations for fall planting remained very active in Florida. Seeding and transplanting of crops gained momentum. Harvesting continued very active in California for a wide variety of crops. Fall vegetable planting was well underway in Texas.

FRUITS AND NUTS: Early apple harvests started in the Northeast and increased in volume further South. Peach harvests were at peak in New Jersey. Florida's citrus groves were in good to excellent condition. Arizona's citrus groves responded favorably to recent rains and were in good condition. New crop fruit continued growing well. Lemon harvest was underway on a limited scale in Yuma County. California's dried fig harvest started in the San Joaquin Valley. Thompson table grapes were also picked in this area. The almond harvest began; walnuts, pecans, and pistachios progressed normally. Growers also picked peaches, pears, prunes, plums, grapefruit, lemons, and oranges.

(Continued on back cover)

CROP PROGRESS

FOR WEEK ENDING AUG 22

	SOYBEANS % BLOOMING		
	1982	1981	AVG.
ALA	92	89	86
ARK	79	78	78
GA	94	90	NA
ILL	98	98	99
IND	100	95	98
IOWA	95	100	100
KANS	65	90	NA
KY	88	74	75
LA	96	92	92
MICH	100	100	96
MINN	99	99	99
MISS	95	93	95
MO	82	76	86
NEBR	95	100	NA
N C	79	84	77
OHIO	100	95	95
S C	87	86	86
TENN	96	100	93

18 STATES 93 92 NA

EXCL. STATES WITH NA 93 92 93

	SOYBEANS % SETTING PODS		
	1982	1981	AVG.
ALA	70	62	68
ARK	55	52	49
GA	69	69	NA
ILL	89	82	88
IND	85	55	85
IOWA	78	95	97
KANS	40	60	70
KY	60	30	40
LA	79	77	75
MICH	85	80	82
MINN	95	95	94
MISS	63	63	65
MO	55	52	64
NEBR	65	95	98
N C	49	61	47
OHIO	95	60	85
S C	51	49	54
TENN	52	63	59

18 STATES 73 71 NA

EXCL. STATES WITH NA 73 71 77

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.

NA - NOT AVAILABLE

	CORN % DOUGH		
	1982	1981	AVG.
COLO	28	37	39
GA	100	100	NA
ILL	88	81	85
IND	97	60	85
IOWA	46	63	75
KANS	70	75	75
KY	94	84	86
MICH	80	75	72
MINN	44	43	58
MO	81	82	73
NEBR	50	75	75
N C	94	97	96
OHIO	95	45	65
PA	58	67	60
S DAK	32	52	58
VA	86	91	NA
WIS	49	58	45

17 STATES 66 66 NA

EXCL. STATES WITH NA 65 65 72

	CORN % DENT		
	1982	1981	AVG.
COLO	4	5	4
GA	99	99	NA
ILL	55	41	50
IND	50	15	35
IOWA	11	23	32
KANS	25	30	35
KY	65	48	51
MICH	15	9	14
MINN	9	9	23
MO	52	54	49
NEBR	10	25	25
N C	84	90	82
OHIO	45	15	20
PA	12	13	11
S DAK	0	15	17
VA	66	67	NA
WIS	11	15	15

17 STATES 29 27 NA

EXCL. STATES WITH NA 27 25 32

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

NA - NOT AVAILABLE

	WINTER WHEAT % HARVESTED		
	1982	1981	AVG.
CALIF	100	100	100
COLO	92	99	98
IDAHO	38	67	62
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	91	100
MONT	45	85	80
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	92	88	89
S DAK	100	100	100
TEX	100	100	100
WASH	84	86	80

15 STATES 94 97 97

THESE 15 STATES PRODUCED 88% OF THE 1981 WINTER WHEAT CROP.

	SORGHUM % HEADED		
	1982	1981	AVG.
COLO	29	58	66
KANS	45	75	70
MO	77	77	82
NEBR	80	97	98
OKLA	70	90	80
S DAK	77	84	78
TEX	91	93	93

7 STATES 71 85 84

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

	RICE % HARVESTED		
	1982	1981	AVG.
ARK	3	3	3
CALIF	0	0	0
LA	44	55	56
MISS	1	2	1
TEX	82	88	92

5 STATES 24 27 28

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

	SPRING WHEAT % HARVESTED		
	1982	1981	AVG.
IDAHO	29	55	31
MINN	57	77	61
MONT	15	45	40
N D	39	67	47
S DAK	94	92	91

5 STATES 46 68 55

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.

	COTTON % SETTING BOLLS		
	1982	1981	AVG.
ALA	100	100	96
ARIZ	100	100	100
ARK	100	100	99
CALIF	95	98	92
GA	99	100	100
LA	99	100	100
MISS	99	100	100
MO	100	96	92
N MEX	90	99	93
N C	98	95	95
OKLA	55	90	80
S C	100	100	100
TENN	100	100	93
TEX	79	96	96

14 STATES 86 97 96

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.

	RICE % HEADED		
	1982	1981	AVG.
ARK	77	80	74
CALIF	45	50	63
LA	91	94	94
MISS	93	84	84
TEX	100	100	100

5 STATES 79 81 81

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures below normal. Rainfall variable from trace to near 4.00 in.

Soil moisture adequate to surplus. Fieldwork: 4.3 days. Corn: Mature 86%, 90% 1981, 68% average; harvested 35%, 44% 1981. Soybeans: Blooming 92%, 89% 1981, 86% average; setting pods 70%, 62% 1981, 68% average. Cotton bolls open 17%, 18% 1981. Sorghum harvested 7%. Conditions: Corn, soybeans, cotton, peanuts, sorghum, pastures and livestock good to excellent.

ALASKA: Warm, sunny conditions promoted crop maturity in most areas over the Railbelt although showers fell in Tanana Valley. Crops could use more warm frost-free days to fully mature. Suitable haying days ranged from 1 to 6 days. Several growers starting second cutting. Very little wind damage to small grain occurred. Most small grain fields in turning color stage to maturity. Some early fields being swathed. Only 1% of barley crop reached ripe stage compared with 5% in 1981. Potato harvesting underway on early variety fields. Vegetable supplies were plentiful in all areas. Soil moisture generally adequate.

ARIZONA: Hot, humid weather. Scattered afternoon, evening showers, thunderstorms. Rain mostly confined to eastern two-thirds. Amounts mostly between 0.10 and 0.75 in. except locally over 1.00 in. White Mountains. Average temperatures 1 to 7° above normal.

Cotton boll setting present 100% acreage, continues to match average, last year's crop progress. Open bolls in 57% acreage central area, 67% western area. None recorded southeast area. Insect activity increased in areas. Several growers spraying pink boll worm, stinkbugs. Rain damage light Mohave County. Cochise County received some hail damage to cotton crop. Sorghum at all stages growth, vegetative to mature grain. Crop mostly boot stage Yuma County. Corn for grain southeast making average progress, harvesting activity increased Santa Cruz County, began Greenlee County. Alfalfa baling seasonally active, eighth cutting Yuma area. Watermelon harvest full swing southeastern part State. Harvest activities winding down for watermelons, honeydew melons central area. Yuma County fall melon planting, stand establishments well advanced. Land preparations, planting continued active green onions, carrots, other mixed cool season fall vegetables central, southwestern parts State. Lettuce planting mostly complete in southeastern areas, just getting underway Yuma area. Lemon harvest activities progressing on limited scale Yuma County. Normal to above normal growth new crop fruit continued as citrus groves responded favorably to recent rains. Citrus groves generally good condition. Apple harvesting beginning Cochise County. Recent rains continued improving range conditions north central, northeastern, southeastern part State. Ranges these areas fair to good condition. Ranges continued drying out central, western Desert areas State and poor to very poor condition. Even with deterioration, livestock fair to good shape. Water supplies short to adequate. Southeastern areas had some tanks filling from rains.

ARKANSAS: Near normal temperatures. Highest temperature 99°, lowest 57°. All departures from normal ranged from -3 to +2°. Most rainfall 3.76 in., least zero.

Six days suitable for fieldwork. Soil moisture rated adequate. Crop growth moderate. Soybean

condition good. Blooming 79%, 78% 1981, 78% average; setting pods 55%, 52% 1981, 49% average. Rice good condition; heading 77%, 80% 1981, 74% average; ripe 13%, 16% 1981, 13% average. Cotton good condition; open bolls 5%, 15% 1981, 8% average. Bollworm activity increasing. Corn harvested 6%, 20% 1981, 13% average. Sorghum harvested 6%, 17% 1981, 7% average. Pasture average. Cattle good condition.

CALIFORNIA: Another week this summer where the average temperatures were narrowly mixed around the normal. No definite trend showing in any of the State's divisions. Dry again although some sprinkles occurred late in the week as weak remnants from a tropical disturbance drifted north over the Central Coast.

All crops showing good progress with warm temperatures. Rice heading out in satisfactory condition, 45% headed, 50% last year, 63% average. Cotton maturing well, setting bolls, 95% boll set, 98% last year, 92% average. Sugarbeets growing well with some harvest of overwintered beets active. Safflower harvest continues. Grain sorghum, field corn growing well. Early dry beans maturing while later double crop remains in good shape. Alfalfa, sudan haying activities continue. Gravenstein apple harvest complete Watsonville, active Sebastopol area - below average quality. Hass avocado harvest slow - good quality, price. Dried fig harvest starting San Joaquin Valley. Thompson table grape harvest active San Joaquin Valley. High acid, low sugar problem remains. Cling peaches, Freestone peaches moving; Bartlett pear harvest 67% complete. Excellent quality, large size. Prune, Casselman plum harvest active. Other area grapefruit continues - average. Poor to fair lemons picked. Good quality Valencia oranges harvested south. Almond harvest beginning; walnuts, pecans, pistachios progressing normally. Artichokes supplies very light. Broccoli moderate supply Central Coast. Cantaloup harvest active; planting fall crop Desert. Carrots good supply. Celery supplies moderate. Garlic packing active. Lettuce supplies moderate Central Coast. Harvest green peppers active Coastal and San Joaquin Valley districts. Summer potato harvest decreasing San Diego. Harvest fall potatoes to start current week. Very light harvest sweetpotatoes. Market tomato harvest very active. Processing tomato harvest active Sacramento, San Joaquin Valleys. Summer ranges providing good feed. Marketing livestock for late August through October delivery beginning. Stock water supplies continue decline, some ponds dried up.

COLORADO: Scattered thunderstorms were again the rule over the State with heaviest amounts falling in eastern areas. Temperatures averaged 3° above normal in each river basin.

Scattered showers slowed the winter wheat harvest but generally crop prospects continue to improve. Winter wheat 92% harvested, 1981 99%. Barley, 93% turning color, 64% ripe, and 53% harvested. Last year 92% turning color, 79% ripe, and 58% harvested. Dry beans, 77% flowered, last year 87%. Corn progressing normally, 84% silked, 28% in dough stage, and 4% dented. Last year, 94% silked, 37% in dough, and 5% dented. Sorghum, 28% headed, 2% turning color. Last year 58% headed and 3% turning color. Second cutting alfalfa 68% and third cutting 38% complete. In 1981, second cutting 80% and third cutting 19% complete.

Moisture generally adequate. Five days suitable for fieldwork. Livestock in good condition.

FLORIDA: Scattered to widely scattered thunderstorms throughout the week. Locally heavy rains fell over Peninsula. Temperatures averaged 1 to 2° below normal because of afternoon cloud cover.

Soil moisture ranges from adequate to excessive. Corn harvest delayed in many areas by rain. Peanut harvest underway. Leafspot a problem, soybeans growing rapidly but pod set poor due to rainy weather. Hay cutting limited because of wet conditions. Tobacco marketing active. Cotton rapid growth. Sugarcane good to excellent condition. Pastures good to excellent condition. Excessive moisture in low areas problem for cattlemen. Cattle mostly good to excellent condition. Citrus groves near excellent condition, moisture adequate to surplus, lots of new growth, excellent new crop fruit progress, fresh fruit testing continues. Vegetable areas cloudy to partly cloudy skies, rain prevailed. Frequent showers beneficial to transplants. Wet fields caused delays in land preparation. Laying plastic, planting Dade County, Immokalee area. Eggplant, celery, pepper, tomato plantings increasing. Plant live in early set cabbage good. Small acreage squash, watermelons up to good stands west central area. Sweet corn seeding continues active Everglades, weather permitting.

GEORGIA: Temperatures averaged 2 to 3° below normal. Rainfall averaged 0.50 to 1.00 in. except 1.50 to 2.00 in. in the southeast. Locally heavy amounts up to 8.00 in. in the extreme northwest. On 21st and 22nd mostly sunny and warm. Rainfall less than 0.25 in. and fell mainly in south.

Soil moisture 2% short, 61% adequate, 37% surplus. Four days suitable for fieldwork. Spraying for weeds, disease and insects. Silage and haying active as weather permits. Harvesting corn, tobacco and apples. Corn 19% fair, 67% good, 14% excellent; 100% dough stage this year and last; 99% dent stage this year and last; 91% mature, 96% last year; 43% harvested, 56% last year, 38% average. Cotton 31% fair, 62% good, 7% excellent; 99% setting bolls, 100% last year and average; bolls open 10%, 26% last year, 22% average. Spraying for boll weevils and boll worms. Peanuts 16% fair, 79% good, 5% excellent. White mold still a problem, spraying for disease control. Soybeans 12% fair, 77% good, 11% excellent, 94% blooming, 90% last year; 69% setting pods this year and last year; 1% dropping leaves, 3% last year. Spraying for insect control - loopers and corn earworms causing problems. Tobacco 29% fair, 68% good, 3% excellent; 96% harvested, 84% last year, 86% average. Apples 16% very poor, 22% poor, 27% fair, 27% good, 8% excellent; 62% harvested, 55% last year, 43% average. Pecans 35% fair, 58% good, 5% excellent. Spraying for diseases and insects. Hay 8% poor, 25% fair, 58% good, 9% excellent. Haying delayed because of wet weather - quality down. Pasture 11% fair, 76% good, 13% excellent. Cattle and hogs good.

HAWAII: Weather variable. Heavy rains drenched Islands of Kauai and Oahu. Taro and watercress fields inundated by overflowing streams. Isolated washouts occurred. Wet conditions slowed crop progress. Rains light other Islands. Spraying continues to minimize insect and disease damage. Vegetables: Supplies light to moderate. Green peppers heavy. Bananas: Supplies light. Rains beneficial. Papayas: New fields favorable progress. Supplies up slightly. Pineapples: Harvesting slackening. Gradual decline expected. Sugar: Steady harvest will continue. Pastures: Rains added moisture to some dry leeward pastures

on Kauai and Oahu. Condition generally fair to good.

IDAHO: High pressure dominated with only widely scattered shower and thundershower activity. Precipitation was about 0.10 in. or less below normal. The most rainfall recorded occurred at Porthill with a total of 0.27 in. Temperatures were generally near to a little above normal. The north averaged near to 3° above normal while the south was from 1 to 5° above normal. The highest temperature recorded was at Lewiston where the mercury reached 105°. Lowest recorded temperature was at Stanley with 32°.

Hot, dry days allowed grain harvest to progress rapidly. Winter wheat 38% harvested, 67% in 1981, 62% average. Spring wheat 29% harvested, 55% last year, 31% average. Barley 27% harvested. Potatoes turned color on 27% of acreage, 23% in 1981. Second cutting alfalfa hay at 72% complete versus 81% last year. Dry edible beans beginning to turn color. Mint harvest 90% complete. Processing sweet corn 46% harvested. Ranges rated very good this time of year. Fire hazard condition rated high.

ILLINOIS: Temperatures 2° below to 1° above normal. Precipitation none to light (trace to 0.49 in.)

Winter wheat 100% combined, 100% 1981, 100% average. Corn 49% excellent, 49% good, 2% fair. Corn 88% dough, 81% 1981, 85% average; 55% dent, 41% 1981, 50% average; 5% mature, 1% 1981, 15% average. Soybeans 28% excellent, 64% good, 8% fair. Soybeans 98% blooming, 98% 1981, 99% average; 89% setting pods, 82% 1981, 88% average; 5% turning yellow, 2% 1981, 4% average. Alfalfa 16% excellent, 79% good, 5% fair; 57% third crop cut, 61% 1981, 52% average. Pastures 18% excellent, 59% good, 21% fair, 2% poor. Soil moisture 40% short and 60% adequate. Days suitable for fieldwork 6.5.

INDIANA: Fieldwork averaged 7 days. Topsoil moisture mostly short to adequate. Subsoil moisture short to mostly adequate. Corn 97% in dough, 1981 60%, average 85%. Corn 50% dented, 1981 15%, average 35%. Corn 5% mature, 1981 0%, average 3%. Soybeans 100% in bloom, 1981 95%, average 98%. Soybeans 85% setting pods, 1981 55%, average 85%. Soybeans 5% turning yellow, 1981 0%, average 5%. Wheat land 22% plowed, 1981 20%, average 22%. Tobacco harvest starting. Pastures fair.

IOWA: A warm, dry week. Temperatures averaged about 3° above normal and spotty precipitation fell mostly during the late week on southern and eastern counties.

Topsoil moisture: 3% surplus, 65% adequate, 32% short. Subsoil moisture: 6% surplus, 89% adequate, 5% short. Corn in or past dough stage: 46%, last year 63%, normal 75%. Corn in or past dent stage: 11%, last year 23%, normal 32%. Soybeans blooming: 95%, last year 100%, normal 100%. Soybeans setting pods: 78%, last year 95%, normal 97%. Third crop alfalfa hay harvested: 32%, last year 55%, normal 46%. Second crop clover harvested: 86%, last year 95%, normal 88%. Fieldwork: 6.2 days suitable. Crop conditions: Corn, soybeans, hay, and pasture mostly good to excellent. Livestock in fair-to-good condition. Corn in or past milk stage: 82%, last year 97%, normal 97%.

KANSAS: Precipitation averaged less than 0.10 in. southwest, 0.10 to 0.20 in. elsewhere. Temperatures averaged 82° south central, 81° southwest, 78 to 79° elsewhere -- normal southeast to 4° above normal northwest.

Sorghum 45% headed, 75% last year, 70% average; 3% coloring, 10% last year, 15% average; 1% ma-

ture, 0% last year. Soybeans 65% blooming, 90% last year; 40% podding, 60% last year, 70% average; 1% dropping leaves, 2% last year. Corn 97% silked, 99% last year; 70% dough, 75% last year and average; 25% dent, 30% last year, 35% average; 10% mature, 10% last year, 15% average. All crops generally good to excellent, except sorghum, soybeans poor to good east central. Alfalfa hay third cutting 75% complete, 90% last year, 80% average; fourth cutting 10% complete, 15% last year and average. Pasture and range conditions remain good to excellent except in some dry southwestern counties. Topsoil moisture short western two-thirds, adequate eastern one-third. Subsoil moisture short to adequate west central, southwest, south central, adequate elsewhere. Days were suitable for fieldwork which included wheat seedbed preparation, making silage and haying: 5.5

KENTUCKY: Few low readings in upper 40's, west averaged above normal temperatures, central and east 1 to 5° below normal. Rainfall in most of State 0.50 in. below normal, while north central averaged 0.50 to 0.75 in. in excess of normal.

Fieldwork: 5.4 days suitable. Soil moisture 53% short, 44% adequate, 3% surplus. West continues driest. Corn good to excellent; 94% dough, 84% last year, average 86%; dented 65%, 48% year ago, 51% average. Soybeans good; 88% blooming or beyond, 74% last year, average 75%; 60% setting pods, 30% year ago, average 40%. Tobacco mostly good. Burley 20% cut, dark types 19% cut. Temperatures dry in west.

LOUISIANA: Rainfall averaged 1.30 in. east central, 0.50 or less elsewhere. Temperatures near normal.

Soil moisture adequate. Days suitable: 3.7. Corn mature 95% 1982 and 1981, 90% average; harvested 55%, 58% 1981, 39% average. Rice headed 91%, 94% 1981 and average; ripe 55%, 68% 1981 and average; harvested 44%, 55% 1981, 56% average; condition fair to good. Cotton setting bolls 99%; open bolls 6%, 31% 1981, 15% average; condition good. Soybeans flowering 96%, 92% 1981 and average; setting pods 79%, 77% 1981, 75% average; leaves turning 2% 1982 and 1981; condition good. Sorghum headed 99%, 96% 1981 and average; turning color 91%, 83% 1981, 71% average; ripe 70%, 60% 1981, 43% average; harvested 30%, 38% 1981, 20% average; condition fair to good. Sweetpotatoes harvested 19%, 29% 1981, 22% average; condition good. Sugarcane planted 3%, 5% 1981; condition good. Pecans rated fair to good. Vegetables rated fair. Last cutting hay 8%, 4% 1981. Pastures and livestock good condition.

MARYLAND AND DELAWARE: Temperatures averaged 2° below normal. Highs in 90's, lows in 40's. Precipitation averaged 0.43 in. Range trace to 2.37 in.

Delaware: Soil moisture adequate. Fieldwork averaged 6 days. Corn condition good. Corn 95% in dough, 1981 80%. Corn in dent 70%, 1981 65%. Soybean condition good. Soybeans bloomed 85%, 1981 75%. Soybeans podding 55%, 1981 45%. Peaches 65% harvested.

Maryland: Soil moisture mostly adequate. Fieldwork averaged 6 days. Corn condition good. Corn in dough 70%, 1981 85%. Corn in dent 35%, 1981 50%. Soybeans condition good. Soybeans bloomed 85%, 1981 75%. Soybean podding 55%, 1981 45%. Tobacco condition good. Tobacco harvested 30%, 1981 55%. Peaches 65% harvested.

MICHIGAN: The week began warm and sunny and ended cloudy, cooler and damp.

Cool nighttime temperatures slowed crop development. Statewide 6 days were suitable for field-

work. Winter wheat harvest virtually complete. Oats harvest 80% complete, 95% last year and 87% average. Corn in dough 80%, 75% last year, 72% average. Soybeans setting pods 85%, 80% in 1981 and 82% average. Dry beans leaves turning advanced to 15%, 40% last year and average 46%. Third cutting hay got underway with 10% baled, 20% a year earlier and 12% average. Fruit and vegetable harvest in full swing.

MINNESOTA: Warm, humid conditions prevailed early in the week and were replaced by more seasonal temperatures by late week. Temperatures averaged from the mid 60's north to the mid 70's south and were from 3 to 7° above normal. The highest reported temperature was 98° at Browns Valley and the coolest was 46° at International Falls and Hibbing. Rainfall was the heaviest through the central portion of the State and the northwest. The east central averaged 1.09 in. and the remainder of the State averaged between 0.50 and 1.00 in. except less than 0.50 in. northeast, southwest, and southeast. Largest amount of rainfall was 2.34 in. at Aitkin.

Sparse rainfall in the southern half of State with topsoil moisture mostly short to very short. Some corn and soybeans under drought stress, especially in counties around Twin Cities and in the west central districts. Other areas, good early reserves of subsoil moisture carrying crops through in good condition so far. Moisture still needed to avoid yield loss. Especially in late-planted corn and soybeans. Some stubble fields too hard to plow, and rain needed to soften them up. Pasture grazed very short in drier counties. In the northwest, severe local wind and hail damage. Topsoil moisture: 26% very short, 40% short, 32% adequate, and 2% surplus. Cut or swathed: Spring wheat 82%, 1981 97%, normal 83%; oats 93%, 1981 99%, normal 94%; barley 91%, 1981 99%, normal 94%. Combined: Spring wheat 57%, 1981 77%, normal 61%; oats 83%, 1981 89%, normal 78%; barley 75%, 1981 93%, normal 82%. In milk: Field corn 91%, 1981 97%, normal 93%. In dough: Field corn 44%, 1981 43%, normal 58%. Denting: Field corn 9%, 1981 9%, normal 23%. Setting pods: Soybeans 95%, 1981 95%, normal 94%. Turning yellow: Soybeans 4%, 1981 6%, normal 9%.

MISSISSIPPI: Temperatures mostly normal over southern half of State, north 6° below normal. Extremes: 55 and 94°. Rainfall scattered but more in northern parts. Greatest 24-hour rainfall 1.75 in.

Soil moisture adequate to surplus. Fieldwork: 3.7 days suitable. Cotton 99% setting bolls, 100% last year and average; condition good. Soybeans 95% blooming this year and average, 93% last year; 63% podding this year and last, 65% average; condition good. Rice 93% headed, 84% last year and average; 23% turning color, 36% last year; 1% harvested this year and average, 2% last year; condition good to fair. Sorghum 97% headed, 3% harvested. Corn 53% mature, 8% harvested. Hay 81% harvested, sorghum silage 65%, peanuts 10%, peaches 95%, watermelons 90%, corn silage 56%, and sweetpotatoes 8%. Pasture condition good.

MISSOURI: Below normal temperatures stayed over the State except the southwest was slightly above normal. Rainfall was less than 1.00 in. except in a narrow corridor in north central areas, where as much as 5.25 in. fell.

Fieldwork: 3.9 days suitable. Corn 91% in dough stage or beyond, last year 82%, average 73%. Corn dented 52%, last year 54%, normal 49%. Corn mature 12%, last year 12%, normal 11%. Grain sorghum 77% headed, last year 77%, normal 82%. Sorghum mature 14%, last year 12%, normal 14%.

Soybeans in blooming stage or beyond 82%, last year 76%, normal 86%. Soybeans setting pods 55%, last year 52%, normal 64%. Third cutting alfalfa hay 64% harvested, 69% last year, 66% normal. Cotton with open bolls 12%, 3% last year, 9% normal. Corn condition 17% fair, 66% good, 17% excellent. Soybean condition 1% poor, 40% fair, 54% good, 5% excellent. Condition of grain sorghum 31% fair, 65% good, 4% excellent. Pasture 1% poor, 32% fair, 57% good, 10% excellent. Topsoil moisture 11% short, 69% adequate, 20% surplus.

MONTANA: Very warm week as temperatures averaged 4° above normal west and southwest, 5° above central areas and 7° above normal northeast and southeast. Precipitation mostly light, southwest about 0.20 in. Few areas extreme east near 1.00 in.

Topsoil moisture short to adequate. Subsoil moisture mostly adequate. Six days suitable for fieldwork. Crop progress compared with last year and normal; Percent harvested winter wheat 45, 85, 80; spring wheat 15, 45, 40; barley 20, 45, 40; oats 20, 60, 50; second cutting alfalfa hay 45, 60, 60; wild hay 90, 100, 90. Winter wheat seeding for 1983 crop expected to start September 7. Grazing prospects late summer ranges good.

NEBRASKA: Precipitation: Widespread showers and thunderstorms. Heavy rainfall except for northeast. Amounts ranged from 0.20 in the northeast up to 1.00 to 2.00 in. in west and south. Temperatures: 2° below normal to 6° above normal.

Corn mostly good to fair; dough 50%, 75% last year and normal; dented 10%, 25% year ago and normal. Soybeans good; blooming 95%, 100% last year; setting pods 65%, well behind 95% last year and 98% normal. Sorghum mostly good to fair; heading 80%, 97% last year and normal; turning color 5%, 25% last year and normal. Third cutting of alfalfa 40%, compared to 65% last year and normal. Ground preparation for 1983 winter wheat crop in progress. Pasture and range feed supplies adequate. Topsoil moisture adequate to short. Subsoil moisture mostly adequate to short. Days suitable for fieldwork were 4.7.

NEVADA: Mostly warm temperatures with frequent surges of moisture. Scattered thunderstorms developed over at least some section every day. Average temperatures varied from 1° below normal to 11° above. Extremes: 31 and 108°.

Scattered showers hampered remaining harvest of small grains and hay. Higher night temperature favored growth of 1982 potato crop. Ranges continued mostly good condition.

NEW ENGLAND: A relatively dry week. Rainfall averaged 0.20 in.; range 0.10 to 0.50 in. Least amount over Cape Cod and for northern Maine. Temperatures well above average beginning of week dropping to subnormal by the weekend. Lows on 22nd in 30's and possible scattered frost in rural valleys of VT, NH, interior ME and central and western MA.

Second and third hay cuttings being made. Good hay growth. Silage corn may not mature before frost. A large crop of excellent quality blueberries being harvested in Maine. Cranberry growers in MA preparing to harvest a record large crop. Potato growers in ME will begin to apply topkiller to seed plots of round whites, and a few will begin to harvest some for processing.

NEW JERSEY: A cold week with temperatures averaging 2 to 5° below normal. Extremes: 36° at Charlotteburg on 22nd, 92° at Cape May Court House on 20th. Rainfall averaged 0.16 in. north, 0.01 in. central and 0.30 in. south. The heaviest 24-hour total, 0.63 in. at Atlantic City marina on 18th. Estimated soil moisture, in percent of field capa-

city, averaged: 77% north, 63% central and 47% south. Four inch soil temperatures averaged: 70° north, 72° central and 77° south.

Fieldwork: 6.4 days suitable. Most areas need a good rain. Summer vegetable harvest declining. Irish potato digging active. Scattered sweetpotato harvest beginning. Peach harvest nearing peak volume. Quality generally excellent. Cranberries sizing, prospects continue good. Field corn condition excellent in most areas. Late planted soybean development slow. Third cutting of hay advancing. Pasture growth limited.

NEW MEXICO: Average temperatures for the week were a few degrees above normal in most sections of the State. Scattered showers continued to occur in all areas.

Soil moisture remains in an adequate supply in the northern areas and in mostly short supply in the southern areas. Cotton remains in good condition. The fourth cutting progressing slowly due to continued rainfall. Grain sorghum in fair to good condition with about 60% of the fields heading. Corn in good condition. Winter wheat seeding just getting underway. Onion harvest winding down in the southern areas. Green chile fields in good condition with harvest progressing well. Fall lettuce fields beginning to emerge and in good condition. Range conditions remain varied depending on the area and the amount of rainfall received. Cattle and sheep in good condition. Cotton setting bolls 90%, 99% 1981, 93% average.

NEW YORK: Warm early in week, very cool late week. Rainfall light, crops need more.

Good drying, harvesting conditions. Oat harvest 50% complete, 40% 1981, 55% average. Wheat harvest nearly done, same as 1981 and average. Second cutting alfalfa 78% done, 71% 1981, 74% average. Third cutting 10% in; 10% 1981, 14% average. Apple condition good, early variety harvesting active. Vegetable crop harvests active. Irrigation major activity on Long Island. Onion harvesting underway in many areas.

NORTH CAROLINA: Temperatures near normal in central portions and 1 to 3° below normal along the coast and over the mountains. Rainfall generally light with greatest amount being 1.17 in. at Greensboro.

Fieldwork: 5.5 days suitable. Soil moisture: 13% short, 81% adequate, and 6% surplus. Conditions: Pasture, tobacco, cotton, peanuts, soybeans, sweetpotatoes, and truck crops mostly good; corn mostly good to excellent; apples poor to good. Harvests: Sweetpotatoes 4%, 1981 4%, 6% average; flue-cured tobacco 79%, 1981 70%, 61% average; corn for grain 4%, 1981 5%; corn for silage 30%, 1981 36%; apples 10%, 1981 6%, 13% average; hay 81%, 1981 78%, 79% average. Phenological stages: Cotton setting bolls 98%, 1981 95%, 95% average; corn silked 100%, 1981 100%, 100% average; corn soft dough 94%, 1981 97%, 96% average; corn dent 84%, 1981 90%, 82% average; corn matured 58%, 1981 65%, 59% average; soybeans bloomed 79%, 1981 84%, 77% average; soybeans setting pods 49%, 1981 61%, 47% average. Major farm activities: Flue-cured tobacco harvest, pesticide application, and cutting silage.

NORTH DAKOTA: Warm, humid weather with temperatures averaging 2 to 7° above normal. Extremes: 100° central to 43° south central. Most areas received below normal precipitation but there was some locally heavy rainfall. Divisional averages ranged from 0.11 to 0.70 in. The southwest and east central received the most widespread precipitation.

Small grain harvest made steady progress despite interruptions from thunderstorms and humid

conditions. Hard red spring combining was 39% complete, about 3 days behind average. The percentage of acreage combined by crop, with last year and the average pace was: Hard red spring wheat 39, 67, 47; durum 24, 54, 32; barley 68, 84, 67; oats 54, 72, 60; rye 95, 97, 93; winter wheat 91, 94, 93; and flax 7, 5, 7. Early yields and quality of small grains has been mostly good. Row crops made good progress with sunflower development about 5 days behind average at week's end. Other row crops were also behind average in development. About 23% of the corn for grain acreage was denting or beyond compared to 31 normally. Most areas were in need of additional moisture for row crops and pastures.

OHIO: High temperatures into mid and upper 80's; average from upper 70's to low 80's, 1 to 3° below normal. Lows from 2 to 5° below normal; readings into 40's many areas. Growing degree day accumulations fell as many as 27 below normal northwest but 10 to 15 below normal other areas. Precipitation less than 0.50 in. Most rain fell on weekend; heaviest amounts southwest.

Farm activities included plowing winter wheat fields, cutting corn silage, hauling manure, baling straw, topping tobacco, harvesting vegetables, preparing machinery for corn and soybean harvest and general farm maintenance. Most areas have not had normal rainfall since early July. Precipitation desparately needed to prevent further stress and for plant development - especially filling of soybean pods and corn ears. Corn in dough and beyond 95%, 45% 1981, 65% average. Corn dented and beyond 45%, 15% 1981, 20% average. Soybeans blooming 100%, 95% 1981, 95% average. Soybeans setting pods 95%, 60% 1981, 85% average. Soybeans - pods set, leaves green 55%, 20% 1981, 45% average. Alfalfa harvest, 3rd cut 60%, 25% 1981, 25% average. Oats harvested 99%, 100% 1981, 100% average. Tobacco topped 55%, 40% 1981. Days favorable 7. Pasture condition fair. Soil moisture 90% short, 10% adequate.

OKLAHOMA: Temperatures averaged from near normal in the southwest to 3° above normal central and northeast. Rainfall averaged near 0.25 in. in Panhandle and less than 0.10 in. in other sections of the State.

Warm summer weather continued to advance crop development in all areas. In order to maintain good progress, additional rainfall needed to boost depleted soil moisture conditions. Wheat harvested: 100%, 100% 1981, 100% average. Sorghum headed: 70%, 90% 1981, 80% average. Cotton setting bolls: 55%, 90% 1981, 80% average. Days suitable for fieldwork: 6.7.

OREGON: Warm trend continues with average temperatures 2° above normal. Rainfall 0.20 in. at interior stations, 0.30 in. at high plateau area.

Winter wheat harvest 92% complete; 88% last year; 89% average. Overall yields average or above. High elevation harvest just starting. Red clover seed, mint, sugarbeet seed, alfalfa and grass hay harvest continues. Field burning well advanced. Preparation for fall seeding in full swing. Bartlett pear harvest started; good size and quality. Early apples, peaches being picked. Evergreen blackberry harvest underway; poor prices may shorten season. Filberts and walnuts good condition. Early potato harvest progressing, later fields sizing well and fast. Cannery crops continue to be picked in volume. Onions beginning to be lifted. Livestock condition good. Range and pastures vary; mostly fair. High ranges providing good forage.

PENNSYLVANIA: Seasonable temperatures to start the week but cooling to the 30's and 40's by 22nd.

The mean temperature averaged 1 to 9° below normal. Extremes: 88 and 32°. Showers on the 17th and 20th totaled 1.00 in. or less for the week. Southeast corner received little or no rain.

Five days suitable. Moisture adequate to short. Activities: Spraying; baling straw; plowing; seeding alfalfa; making hay; and harvesting oats, tobacco, peaches, apples, cantaloups, watermelon, potatoes, cabbage, sweet corn, and tomatoes. Oats 90% harvested, last year 92%. Tobacco 14% harvested, last year 22%. Potatoes 22% harvested, last year 23%. Corn 58% in dough with 12% dented; last year 67% in dough with 13% dented; average 60% in dough with 11% dented. Fall plowing 21% complete, last year and average 20% complete. Second crop alfalfa 91% harvested, last year 86%. Third crop alfalfa 38% harvested, last year 40%. Second crop Clo-Tim 74% harvested, last year 68%. Quality of hay made good to fair. Feed from pastures average to below average.

PUERTO RICO: Island average rainfall 0.63 in. or 1.03 in. below normal. Highest weekly total 3.70 in. Temperatures averaged about 82 to 81° on Coasts and 78 to 76° Interior Divisions. Extremes: 95 and 57°.

SOUTH CAROLINA: Temperatures 2 to 3° below normal. Showers numerous at first; including some localized flash floods.

Soil moisture variable, averaging adequate. Days suitable for fieldwork: 5. Corn condition good to excellent; 86% mature, 85 last year, 83 average; 23% harvested, 22 last year, 26 average. Cotton fair to good, insect control aided as showers less frequent; 10% open bolls, 14 year ago, 19 average. Soybean conditions good, spraying insects feeding on blooms, pods; 87% blooming, 86 year ago, and average; 51% setting pods, 49 year ago, 54 average. Tobacco 93% harvested, 78 last year, 84 average; stalk destruction to prevent disease carryover. Some good hay, silage gathered where showers permitted.

SOUTH DAKOTA: Temperatures averaged 4 to 6° above normal. Extremes: 104 and 49°.

Topsoil moisture critically short north central and northeast. Adequate west central and south central. Short elsewhere. Six days suitable. Most areas need rain. Corn and soybeans yield potential has been lowered by lack of rain. Spraying for grasshoppers, greenbugs and sunflower seed weevil and head moth. Flax ripe 76%, 1981 81%, average 77%. Soybeans blooming 95%, 1981 95%, average 100%. Sunflowers blooming 85%, 1981 90%, average 89%. Soybeans setting pods 79%, 1981 79%, average 91%. Spring wheat harvested 94%, 1981 92%, average 91%. Oats harvested 98%, 1981 98%, average 96%. Barley harvested 99%, 1981 100%, average 97%. Flax harvested 38%, 1981 58%, average 48%. Corn tasseled 96%, 1981 100%, average 100%. Corn silked 86%, 1981 98%, average 100%. Corn dough 32%, 1981 52%, average 58%. Sorghum headed 77%, 1981 84%, average 78%.

TENNESSEE: Fieldwork: 3.8 days. Soil moisture 12% short, 59% adequate, 29% surplus. Soybeans blooming 96%, 1981 100%, average 93%; setting pods 52%, 1981 63%, average 59%. Corn dented 87%, 1981 75%, average 57%; mature 22%, 1981 21%, average 12%; harvested 1%, 1981 1%, average 1%. Cotton setting bolls 100%, 1981 100%, average 93%; open bolls 5%, 1981 0%, average 5%. Tobacco harvested: Burley 32%, 1981 40%, average 27%; dark-fired 31%, 1981 46%, average 28%; air-cured 30%, 1981 52%, average 22%. Heavy rains damaged tobacco in several counties.

TEXAS: Weather: Early week, cold front northern half State bringing cooler temperatures, scatter-

ed thundershowers Panhandle and North Texas. Late week, showers along coast, and along weak front High Plains. Temperatures near normal. Precipitation above normal most areas; South Central Texas below normal.

Range and pasture: Native pastures and ranges continue brown under hot, dry weather, forage supplies fair most areas. Heavy vegetable growth early spring, combined with dry weather, increased chances range fires Cross-Timbers and Edwards Plateau. Livestock good to excellent condition. However, auctions active some areas since producers moving more cattle to market because pasture and weather conditions. Supplemental feeding continued Trans-Pecos and South Central Texas.

Commercial vegetables: Lower Rio Grande Valley, planting good progress fall vegetable fields, irrigation operations active across area. Citrus continues size well. San Antonio-Winter Garden, fall vegetable planting active. East Texas, watermelon harvest active. Sweetpotato harvest gaining momentum. Dry conditions slowed fall vegetable planting some areas. Trans-Pecos, onions, cabbage move to market. Cantaloupe, watermelon harvest active Pecos County. Plains, some onion fields plowed up because bulb rotting. Cucumbers and cabbage moving to market in good volume. Pecans Cross-Timbers early gel stage. Trees across State shed nutlets because dry weather. Insect control activities active most areas.

Crops: Dryland crops moisture stressed many areas. Weather ideal harvesting operations, land preparation small grains delayed because dry conditions. Regrowth hay meadows slowed lack of moisture. Plains weeds problem cotton and sorghum stands, control measures active. Dry, open weather excellent for cotton harvest southern half State, harvesting operations winding down portions Coastal Bend and Lower Valley. Stalk destruction full swing Coastal Bend. Harvest underway South Central Texas, Blacklands. Plains, stands developing well under hot temperatures, some moisture-stressed fields shed squares. Crop ranges from squares to mature bolls Southern High Plains, some bolls crack open scattered areas. Bollworm build across Plains, damage heavy some areas. Condition across State was 64% of normal with 1% excellent; 27% good; 60% fair; and 12% poor. This compares with 89% of normal last year. **Sorghum** harvest underway scattered areas Low Plains. Northern Low Plains, some herbicide damage reported fields replanted after hailed-out cotton. Harvest active Blacklands, yields good. Early fields turning color Panhandle. Midge and greenbug infestations increasing some stands High Plains. Statewide condition was 80% of normal with 8% excellent; 60% good; 28% fair; and 4% poor. This compares with 91% of normal last year. Irrigation operations winding down High Plains preparation corn harvest. Silage harvest good progress Panhandle. Harvest active Central Texas, yields good. South Central Texas shredding stalks harvested fields. Statewide condition, at 85% of normal, was down from last week with 17% excellent; 61% good; 17% fair; 4% poor and 1% failure. This compares with 92% of normal last year. Harvest first rice crop complete most areas, although scattered showers delayed operations some fields along coast. Second crop rice heading some areas. Peanuts making good progress across Plains and Cross-Timbers, very little disease damage reported. Stands dry, irrigation active. **Soybean** stands Plains pod-fill stage, irrigation operations active. Some fields South Central Texas shedding pods because hot, dry weather. Light insect damage some stands along coast. **Sunflower** harvest underway scattered areas Panhandle; early fields being defoliated in preparation for harvest. Late-planted fields blooming, being sprayed for head moths. Cotton squaring 98%, 100% 1981, 100% aver-

age. Cotton setting bolls 79%, 96% 1981, 96% average. Cotton open bolls 14%, 19% 1981, 19% average. Cotton harvested 9%, 5% 1981, 9% average. Rice turning color 100%, 97% 1981, 99% average. Rice harvested 82%, 88% 1981, 92% average. Sorghum headed 91%, 63% 1981, 93% average. Sorghum turning color 69%, 70% 1981, 72% average. Sorghum mature 62%, 65% 1981, 66% average. Sorghum harvested for grain 62%, 62% 1981, 62% average. Corn for grain harvested 37%, 29% 1981, 28% average. Peanuts harvested 5%, 5% 1981, 7% average.

UTAH: Recurring periods scattered shower and thunderstorm activity most areas. Accumulated amounts moisture generally moderate to heavy. Average temperatures ranged from 5° below normal to 6° above. Moisture use by plants, as indicated by pan evaporation, was slightly above normal except in heavy precipitation areas.

Harvest of small grains and hay making slow progress because of rain showers. Winter wheat and barley 75% harvested. Corn 90% tasseled or beyond. Yield prospects rate average or above. Irrigation water continues in good supply. Spring wheat 40% harvested. Livestock and range feed in good condition. Recent rains have helped range grasses. Cattle and sheep expected to leave summer ranges about September 20.

VIRGINIA: Warm and humid with scattered showers and thunderstorms over the State each day. Highs: 80's to around 90°, lows: 60's. Rainfall amounts generally less than 1.00 in. but southeastern locations reported nearly 1.50 in. Saturday, 21st, morning a cold front moved through the area with scattered rainfall of less than 0.10 in. Cooler and drier air 21st through 22nd with temperatures reaching the upper 70's on 22nd after overnight lows in the 50's.

Weather did not slow fieldwork in most counties where activities consisted mainly of haying, tobacco harvest, seeding and fruit and vegetable harvest. Topsoil moisture 8% short, 82% adequate, 10% surplus. Days suitable for fieldwork: 4.8. Haying very active in north, central and southwest districts. Corn in excellent condition: Dough stage 86%, 91% 1981; dent stage 66%, 67% 1981; mature stage 37%. Harvest for silage well underway. Harvest for grain beginning. Soybeans in excellent condition: 83% blooming, 54% setting pods. Tobacco in excellent condition with harvest progressing well. Flue-cured: 45% pulled, 56% 1981, 30% average. Fire-cured: 57% cut, 35% 1981, 20% average. Burley: 11% harvested, 17% 1981, 8% average. Sun-cured: 43% harvested, 28% 1981, 15% average. Peanuts in excellent condition. Spraying active, when weather allowed, for sclerotinia, leafspot and corn earworm. Pastures and hay rated good to mostly excellent. Leaf hopper problem lessening in alfalfa. Seeding of alfalfa, clover and grass starting. Peach harvest about 74% complete while apples about 9% complete. Livestock in good condition with marketing and vaccinating active.

WASHINGTON: High pressure off the coast forced cool marine air into western areas and relatively cool unstable air to the east of the Cascades early in the week. The high pressure system slowly moved into British Columbia and produced an easterly flow of warm dry air over the State by 19th. Widely scattered rain showers occurred over the entire State but amounts were negligible except in the southeast where Walla Walla reported 0.53 in. from shower on 21st.

West: Hot, dry weather caused stress to some corn, cucumbers, and beans. Early carrots harvested. Pea harvesting continues with moderate improvement in yield due to warmer weather. Raspberry harvest over. Apples ripening. Livestock

in good condition, with pasture and hay supplies adequate.

East: Grain harvesting continued in full swing. Norgold potatoes, pea, and lentil harvest nearly complete. Second and third cuttings of alfalfa hay being done. Second cutting of Timothy hay underway. Pears, peaches, nectarines, and prunes continue to be harvested. Apples look good, but growth rate has slowed due to hot weather. Livestock in good condition. Pastures and hay supplies adequate. Winter wheat harvested 84%, 86% 1981, 80% average.

WEST VIRGINIA: Temperatures averaged 1 to 3° below normal. High 90°, low 40°. Precipitation averaged below normal. Range: Trace to 2.35 in.

Soil moisture short to adequate. Days worked averaged 5.3. Main activities: Hay harvesting, gardening, pasture clipping. Wheat and barley harvest complete. Oats good to fair condition: 87% harvested, 90% harvested in 1981. Corn good to fair condition. Tobacco fair to good condition. Pasture fair to good condition. Hay fair to good condition, 1st cutting: 98% complete, 80% of normal; 2nd cutting: 61% complete, 75% of normal, 52% and 74% in 1981. Apples fair condition. Peaches poor to fair condition, 64% harvested, 49% of normal. Gardens good to fair condition. Unseasonably cool nights and limited rainfall in most areas beginning to affect some crops.

WISCONSIN: Typical summer-like weather prevailed. Temperatures averaged 2° above normal. Temperatures ranged from a high of 95° in Altoona on the 19th to a low of 42° in Lake Thompson on the 21st. Scattered thunderstorms hit most of State on 19th. Most reporting stations recorded weekly rainfall totals of 0.20 to 0.50 in.

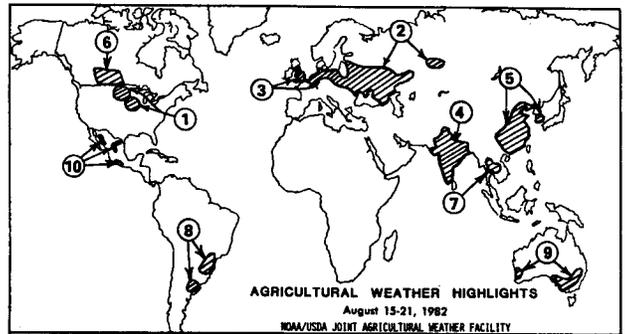
Fieldwork: 7 days suitable. Farmers made progress with the second crop hay harvest, 88% complete, 81% 1981, 74% average. Pastures were rated at 77% of normal, 85% 1981, 79% average. Combines rolled through the oats. Harvesting 76% complete, 84% 1981, 69% average. Yields of oats have been disappointing. Corn crop continues to progress and 49% at dough stage of development, 58% 1981, 45% average. Some early corn at the dent stage of development. Currently an estimated 11% of the corn crop has dented, 15% 1981, 15% average. Many favorable comments on this year's corn crop have been received. Harvesting began on many specialty crops such as tobacco. In other areas potatoes and sweet corn being harvested. Topsoil moisture supplies were rated 54% short, 45% adequate, and 1% surplus. Moisture supplies were rated 100% short in the State's west central district, where growing season rainfall has averaged 12% below normal. Growing degree day accumulations have averaged 97% of normal.

WYOMING: Temperatures above normal. Highest readings in northern sections. Precipitation mainly below normal in north and west but east, specifically southeast had a soaking.

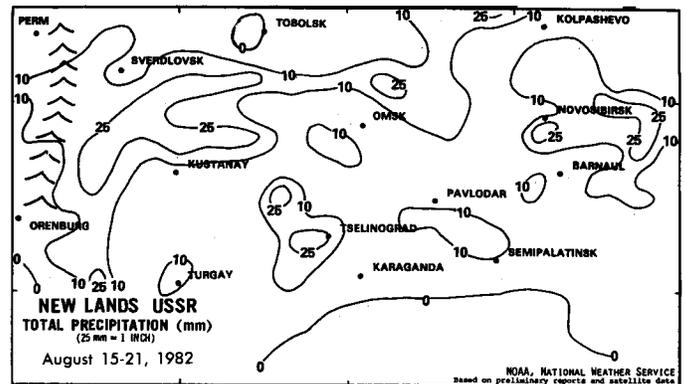
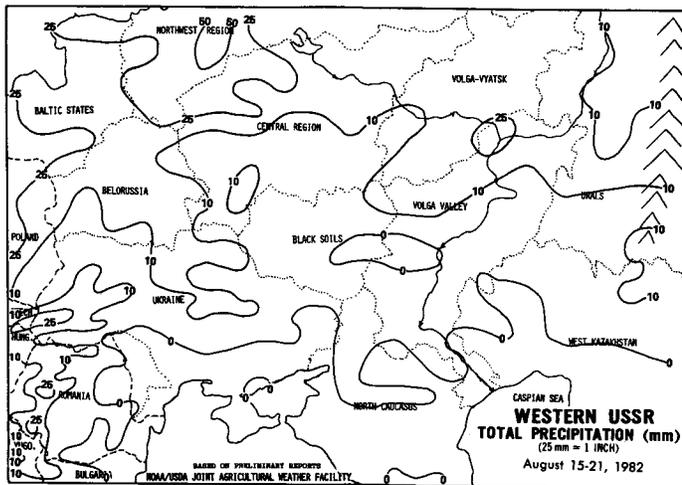
Topsoil moisture adequate in 56% State. Average 6 days suitable fieldwork. Winter wheat harvested: 70%; year ago 95%. Spring wheat mature: 70%; year ago 85%. Spring wheat harvested: 45%; year ago 40%. Oats mature: 50%; year ago 65%. Oats harvested: 25%; year ago 40%. Barley mature: 70%; year ago 85%. Barley harvested: 45%; year ago 65%. Corn in milk: 45%; year ago 75%. Corn in dough: 30%; year ago 50%. Dry beans setting pods: 80%; year ago 70%. Dry beans leaves turning color: 20%; year ago 25%. Row crops fair to good condition. Winter wheat seeded in a few fields. Stored feed supplies above normal.

International Weather and Crop Summary

August 15-21

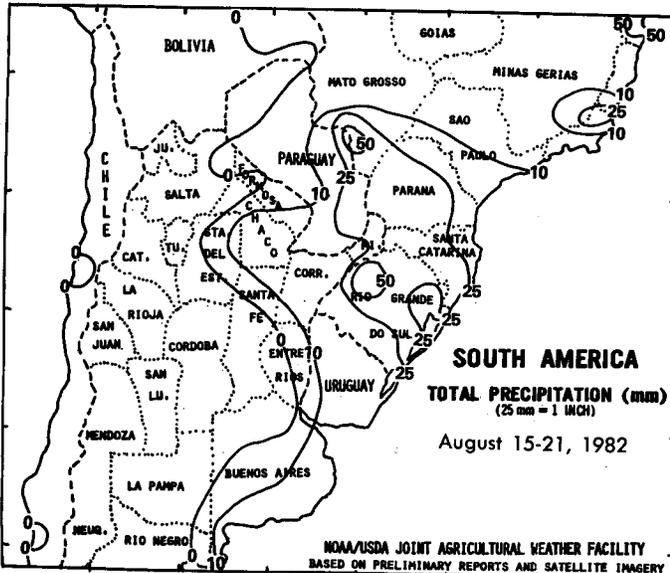


1. UNITED STATES: Warm weather accelerates crop growth and harvest in northern Plains, but dry soils stress some crops. Showers benefit the eastern Corn Belt, but dry areas remain and cool weather slows all crop development.
2. USSR: Generally favorable harvest weather continues in European crop areas; in the New Lands, scattered showers with light frost in some eastern grain areas.
3. EUROPE: Widespread showers continue to improve moisture conditions in the north.
4. SOUTH ASIA: Continued beneficial rains across most of India, but some localized dryness persists.
5. EASTERN ASIA: Above-normal rains benefit many areas, but locally unfavorable wetness in southern China.
6. CANADA: Mostly favorable weather for maturing crops in the Prairie Provinces.
7. SOUTHEAST ASIA: Increasing rainfall improves Thai rice-growing conditions; more needed to boost reservoir levels.
8. SOUTH AMERICA: Rainy weather over southern Brazil; generally dry in coffee areas; seasonably dry in Argentina's wheat areas.
9. AUSTRALIA: Drought worsens in eastern and southern crop areas; showers aid crops in west.
10. MEXICO: Moderate showers over the east-central mountain slopes benefit pastures and range cattle. Showers in the northwestern watershed help, but much more is needed.

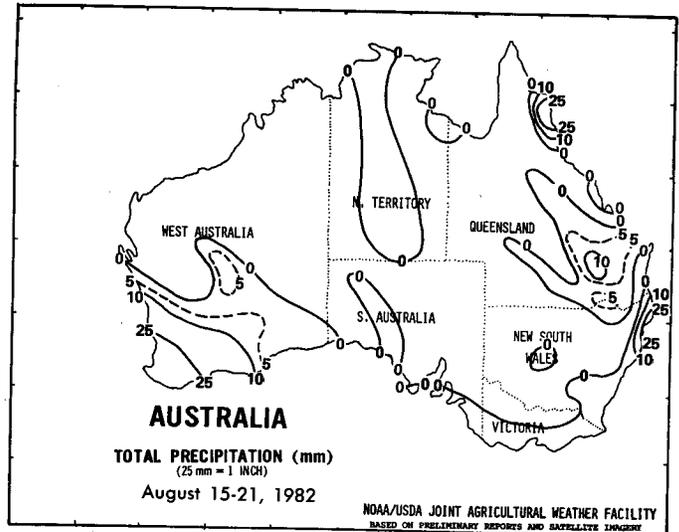


USSR: Generally favorable harvest weather continued over European USSR, especially in southern and eastern crop areas which experienced mostly dry weather. Heaviest amounts of rain fell over western and northern crop areas but should have caused few delays in the harvest. Fieldwork, in preparation for sowing winter grains, is taking place in many areas. Reports confirm winter grain sowing in the northeast Black Soils Region, northern Volga Valley, the Urals, and Volga Vyatsk. Winter wheat sowing in the major producing areas of the North Caucasus and eastern Ukraine normally does not begin until late August. Temperatures this past week continued their below-normal pattern in most areas except the southwest where temperatures were above normal.

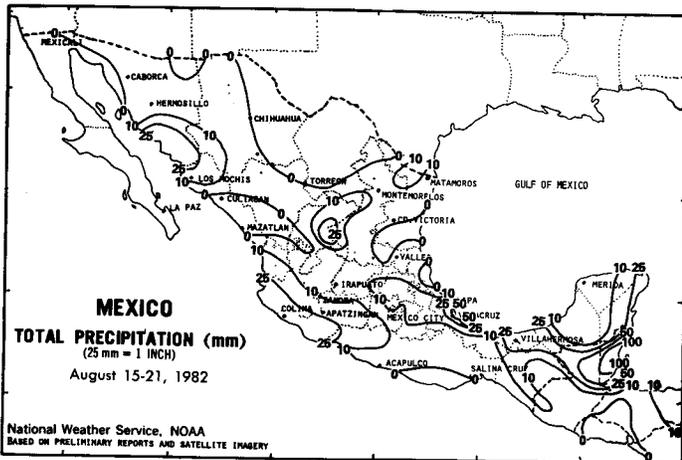
In the New Lands, showers in western crop areas may have created some harvest delays. Elsewhere, showers fell on maturing grains in the north while widely scattered showers caused only minor harvest delays in the south. Reports indicate that the grain harvest in Kazakhstan began earlier than normal. In addition, harvesting in this area has been difficult because dry, hot weather during the growing season caused uneven germination and stunted growth. Weekly temperatures were below normal in the west, and temperatures fell to near-freezing in crop areas around Barnaul and Novosibirsk by the end of the week. Scattered frost may have covered grains which are maturing in these areas.



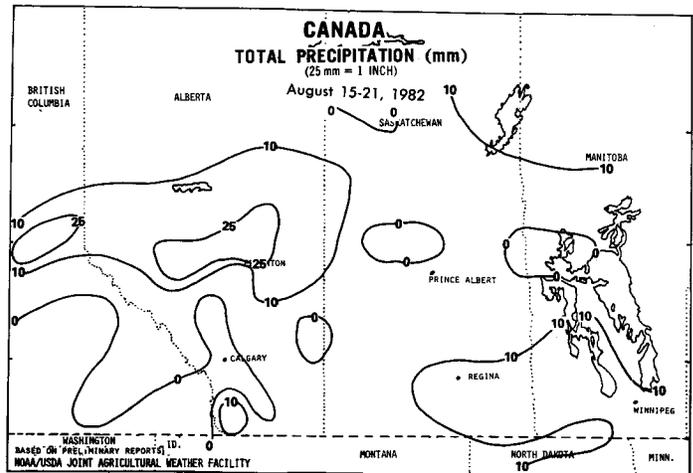
SOUTH AMERICA: The rainy pattern continued over southern Brazil with the areal coverage expanding northward into Parana and extreme southern Mato Grosso. In Rio Grande do Sul, rainfall amounts were generally less than the previous 2 weeks. Parana's wheat area benefited from the moisture while the southern wheat areas of Brazil continue to have abundant moisture supplies. Coffee bean harvesting is nearly complete in Parana and Sao Paulo. The weather has been favorable in the coffee growing areas, with the flowering period beginning in the next few weeks. In Argentina, seasonably dry weather prevailed during most of the week, although some showers fell in southeastern Buenos Aires. Temperatures averaged near the seasonal normal throughout Argentina's wheat area.



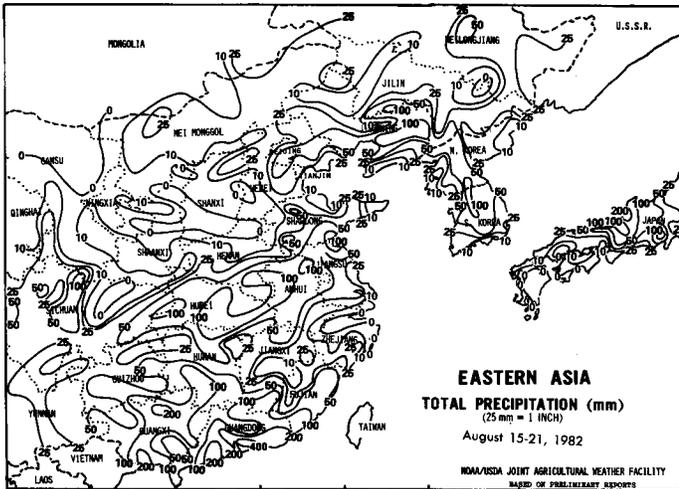
AUSTRALIA: The deteriorating agricultural situation in eastern crop areas was tempered only by isolated, scattered showers in the Darling Downs area of Queensland. However, these showers were mostly too light to benefit crops and grazing areas. Otherwise, mild dry weather covered New South Wales, Victoria, and South Australia as drought conditions expanded into southern crop areas which produce much of Australia's barley crop. The combination of clear skies and very dry soils caused weekly temperatures to average well-above normal, further aggravating the worsening crop and rangeland condition. Western Australia's crop area received beneficial moisture as cool fronts continued to brush the southwestern portion of the continent, then dissipated before reaching southern and eastern crop areas.



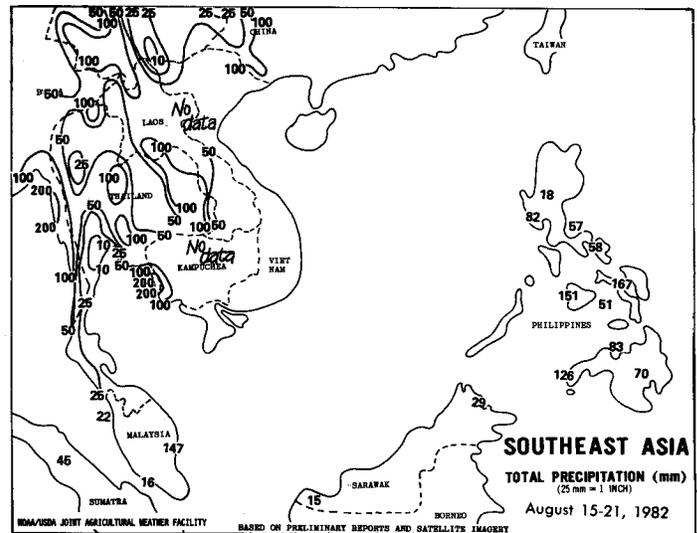
MEXICO: Light showers in the northeastern crop areas helped citrus and grain, but the area remains very dry. A little further south, on the eastern slopes of the central high mountains, some heavy showers benefited pastures and will help water range cattle. West of the mountains, showers in the western Plateau Corn Belt may have delayed late harvest. Light to moderate showers over the western watershed was welcome, but much more rain is needed.



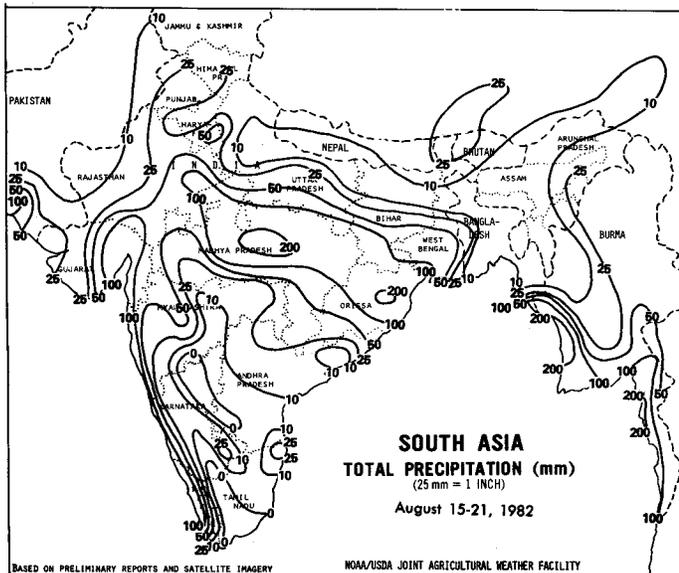
CANADA: A storm system produced widespread showers over the eastern half of the Canadian grain belt during midweek. Rainfall totals of 10-20 mm were common in crop areas of southeastern Saskatchewan and Manitoba. Elsewhere, showers were generally light (less than 10 mm) except in extreme northwestern crop areas of Alberta where another band of significant showers fell. Drier, mild weather during the remainder of the week in all crop areas favored maturing crops. Initial harvesting of early-seeded spring wheat and barley has begun, with crop development still rated in mostly good to excellent condition. Southern Alberta and south-central Saskatchewan have reported some moisture stress in recent weeks as the grain crops advanced through filling stages. Overall yield prospects remain very good, however.



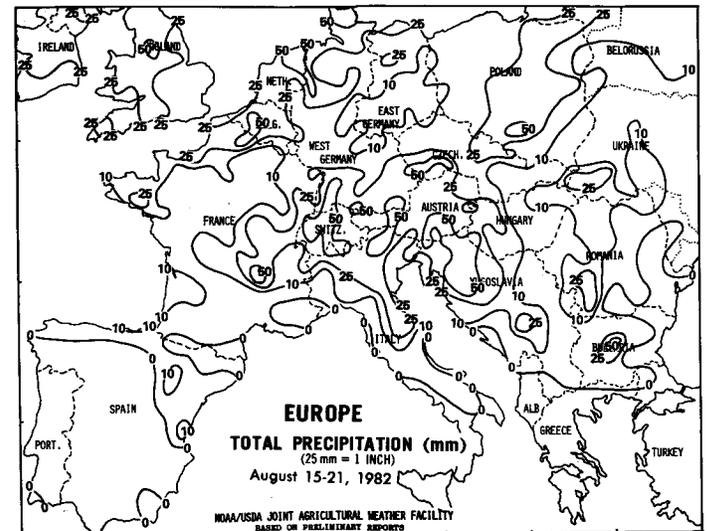
EASTERN ASIA: Most agricultural areas of China had above-normal rainfall. Tropical Depression Dot dumped heavy rains on Guangdong early in the week, causing some flooding but generally benefiting late rice. The belt of heavy rainfall on the North China Plain shifted further south. Cotton harvesting should have been starting along the middle reaches of the Yangtze River, and this moisture was unfavorable. Last week's drying trend along the Yellow River continued, giving that area a chance to dry out. Above-normal rains in the northeast had little impact on maturing soybeans. China temperatures averaged above normal in the north but were near normal to the south. In South Korea, above-normal rainfall maintained improved conditions over most rice areas, while temperatures stayed slightly above normal.



SOUTHEAST ASIA: Rainfall increased substantially over most of Thailand, and many locations reported above-normal amounts. Conditions for rainfed rice in the east improved markedly. Some areas on the Central Plains had generous rainfall, but others stayed unfavorably dry. Most reservoir source areas in the north had below-normal rainfall, keeping irrigation prospects for the fall unfavorable. Temperatures dipped slightly below normal. Satellite imagery indicated that rainfall in Kampuchea and southern Laos and Vietnam was less than in Thailand, but was greater in northern Laos and Vietnam.



SOUTH ASIA: Generous rains continued throughout most of northern India. Some flooding has been reported in Uttar Pradesh, but a strip adjacent to the mountains and extending from Uttar Pradesh eastward to Assam had only light rainfall. At least intermittent dryness has plagued localized areas in this part of India, as well as parts of Nepal and Bangladesh. Conditions over most of Gujarat remained adequately moist for peanuts, but some interior areas of Peninsular India had little or no rainfall. Crops may be stressed locally. Little rainfall was reported in Sri Lanka. Pakistan had drier weather, with only the southern coastal areas getting substantial rains. Temperatures over the region averaged near normal.



EUROPE: Showers continued from England eastward through northern Europe and extended into Poland. The moisture benefited row crops such as sugar beets and corn but may have caused some minor delays in the harvest. Reports indicate that the East German grain harvest is complete. In England, reports confirm the winter barley harvest is complete, but harvesting continued in winter wheat and spring barley areas. Wet weather also blanketed the area from central France eastward through northern Italy into northern Yugoslavia, continuing a favorable moisture pattern. In southeastern Europe, scattered showers early in the week caused few delays in the harvest. Weekly temperatures were below normal in England and France, near-normal in the north, and below normal in the south.

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National Weather Summary (continued from front page)

SATURDAY . . . Showers and thunderstorms were widely scattered through most of the United States. Only the West Coast States (except southern California), the extreme northern Plains, and the Ohio Valley were without showers. A concentration of showers fell in the upper Mississippi Valley and scattered showers continued over the southern tip of Texas. Temperatures rose to near 100° in all of the West Coast States.

National Agricultural Summary (continued from p. 12)

PASTURES AND LIVESTOCK: Pastures were in mostly good condition. Growth of grasses has generally been favorable in most areas due to timely rainfall. However, in Texas grasses were brown due to hot, dry weather. Chances of range fires increased. Supplemental feeding continued in some areas. Livestock were in mostly good condition.

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