

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Economics and Statistics Service
World Food and Agricultural Outlook and Situation Board

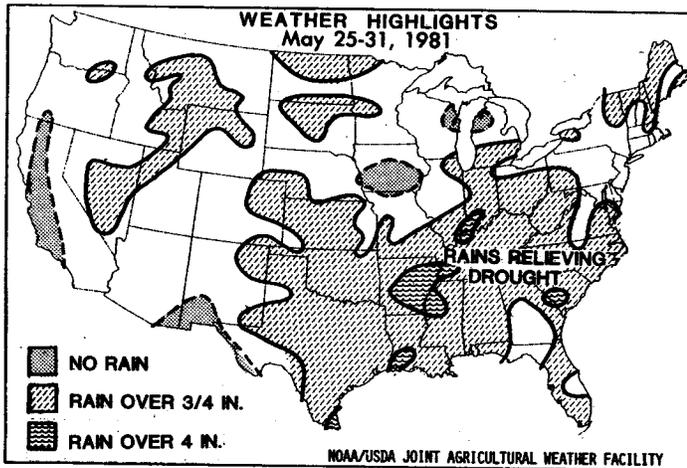
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June 2, 1981

National Weather Summary

May 25-31, 1981



HIGHLIGHTS: Nearly all the Nation received some precipitation during the week. Heavy downpours flooded many areas. Continued heavy rain in the eastern Corn Belt delayed planting and eroded fields. Heavy rain, hail, and tornadoes plagued much of the Plains and the area from Texas to Michigan. Welcome showers were heavy at times in the Carolinas. Spring wheat in the northern Plains received additional rain. Temperatures were somewhat above normal in many areas, but averaged as much as 10° above in New England.

MONDAY...Thunderstorms pushed across eastern Texas into the low Mississippi Valley. Heavy showers caused local flooding in Missouri, Louisiana, and eastern Texas. Showers and thundershowers were scattered from California and Washington into the northern and central Rockies, across the central and southern Plains, the Tennessee and Ohio Valleys, and over portions of the central and northern Appalachians. A few light showers fell over Florida and from the northern Plains to the Great Lakes. Temperatures warmed to record highs in the mid-Atlantic States. Albany, N.Y., reached 91° -- a 100-year record.

TUESDAY...The line of thunderstorms moved across the southern States, producing heavy rain at many locations. Late in the day, severe storms extended from Florida to the Great Lakes -- some of them producing very heavy rain and local flooding. Other strong thunderstorms developed over western Kansas and the Oklahoma and Texas Panhandles. Tornadoes and large hail were reported in the area. Showers and some thundershowers were scattered from northern California across the intermountain region into the central Rockies.

WEDNESDAY...A cold front spread showers east of the Mississippi to the Atlantic Coast. Heavy

thunderstorms developed over the southeastern corner of the Nation and moderate-to-heavy rain continued in the Ohio Valley, adding to the flood problems in parts of that area. Showers and thunderstorms were scattered from central and southern California across the Rockies to the northern and central Plains. The unseasonable rain in the mountains and deserts of southern California caused local flooding when 1/2- to 1-inch of rain fell. The showers were beneficial in the pasture lands of California and Arizona.

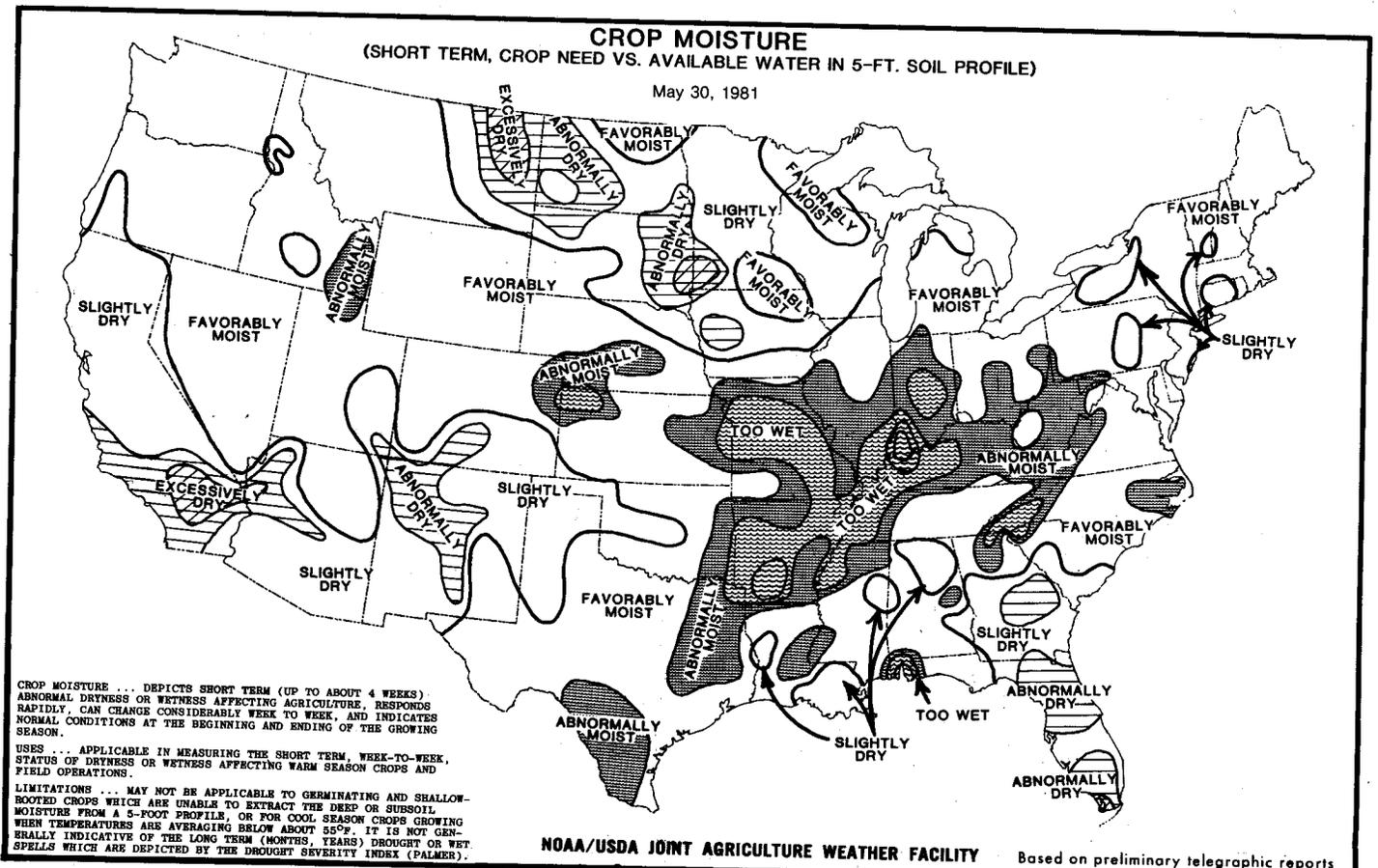
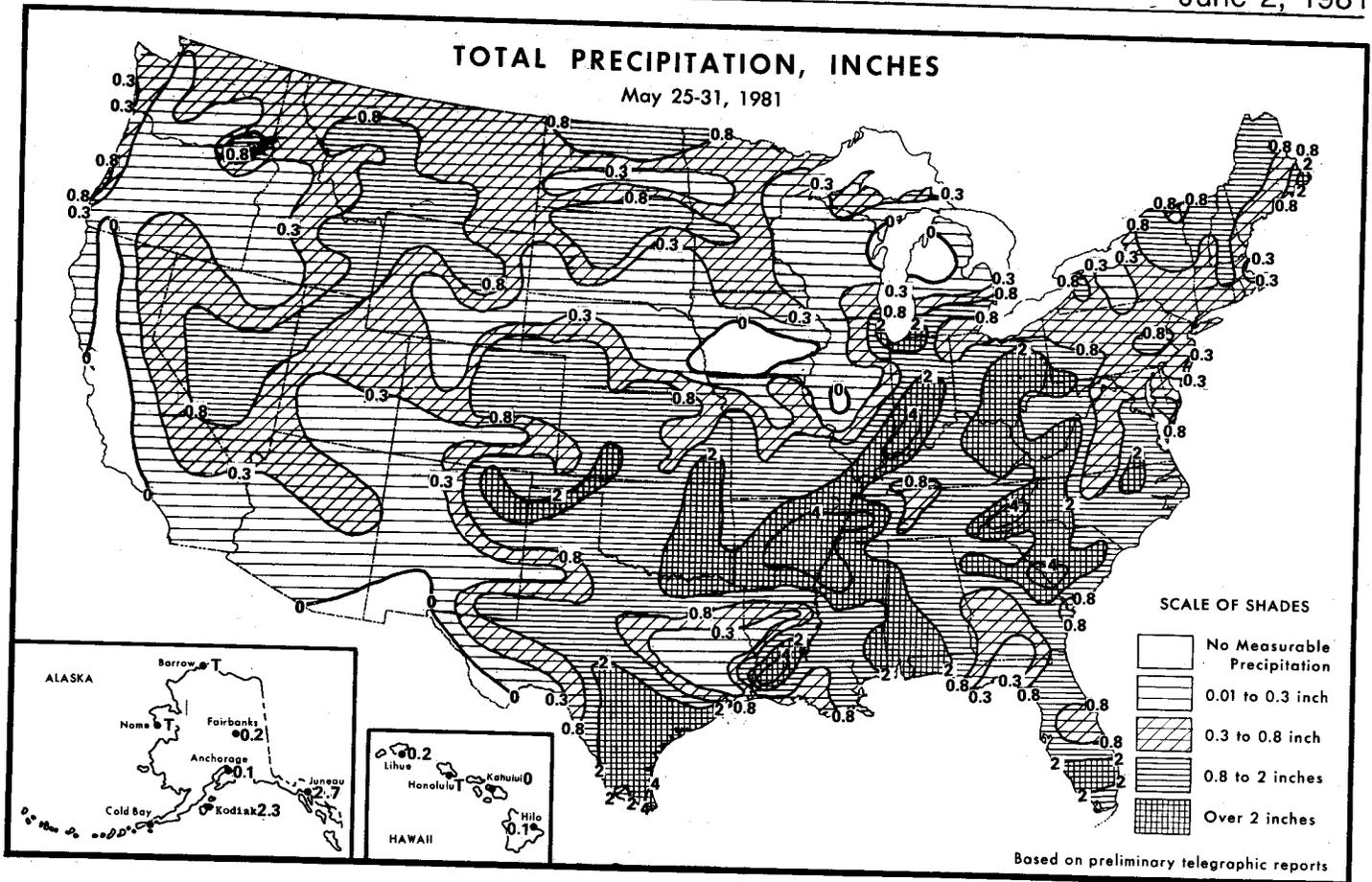
THURSDAY...A cold front spread severe weather through Kansas and Oklahoma and from Arkansas to Lake Superior. Late in the day, heavy thunderstorms were frequent throughout the south central States, spawning many tornadoes and hail storms. Hardest hit was Texas where winter wheat, ready for harvest, was damaged. Scattered showers and thundershowers were still over the southern Plateau and Rocky Mountains and continued in the mid-Atlantic region. A few showers lingered over northern Maine.

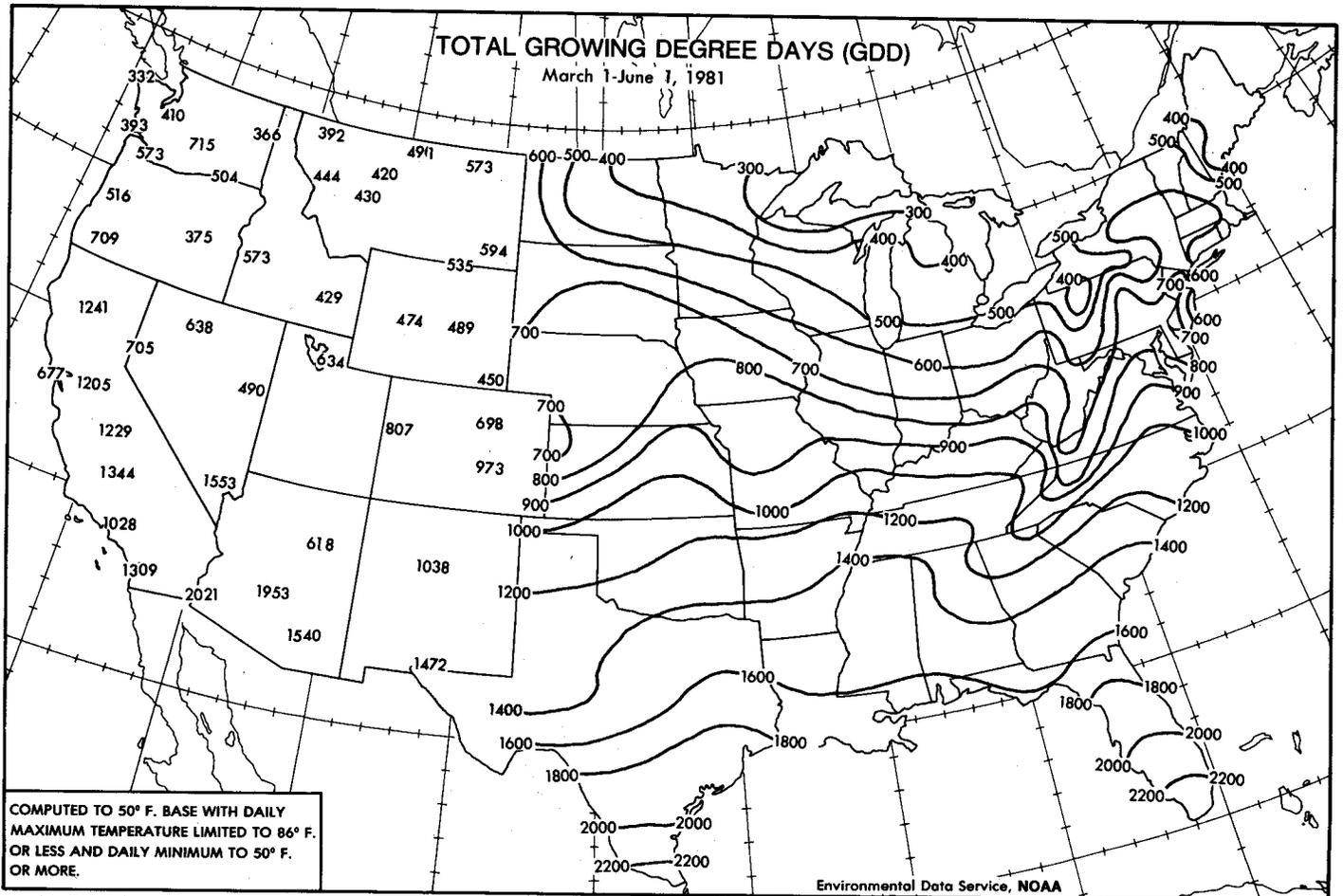
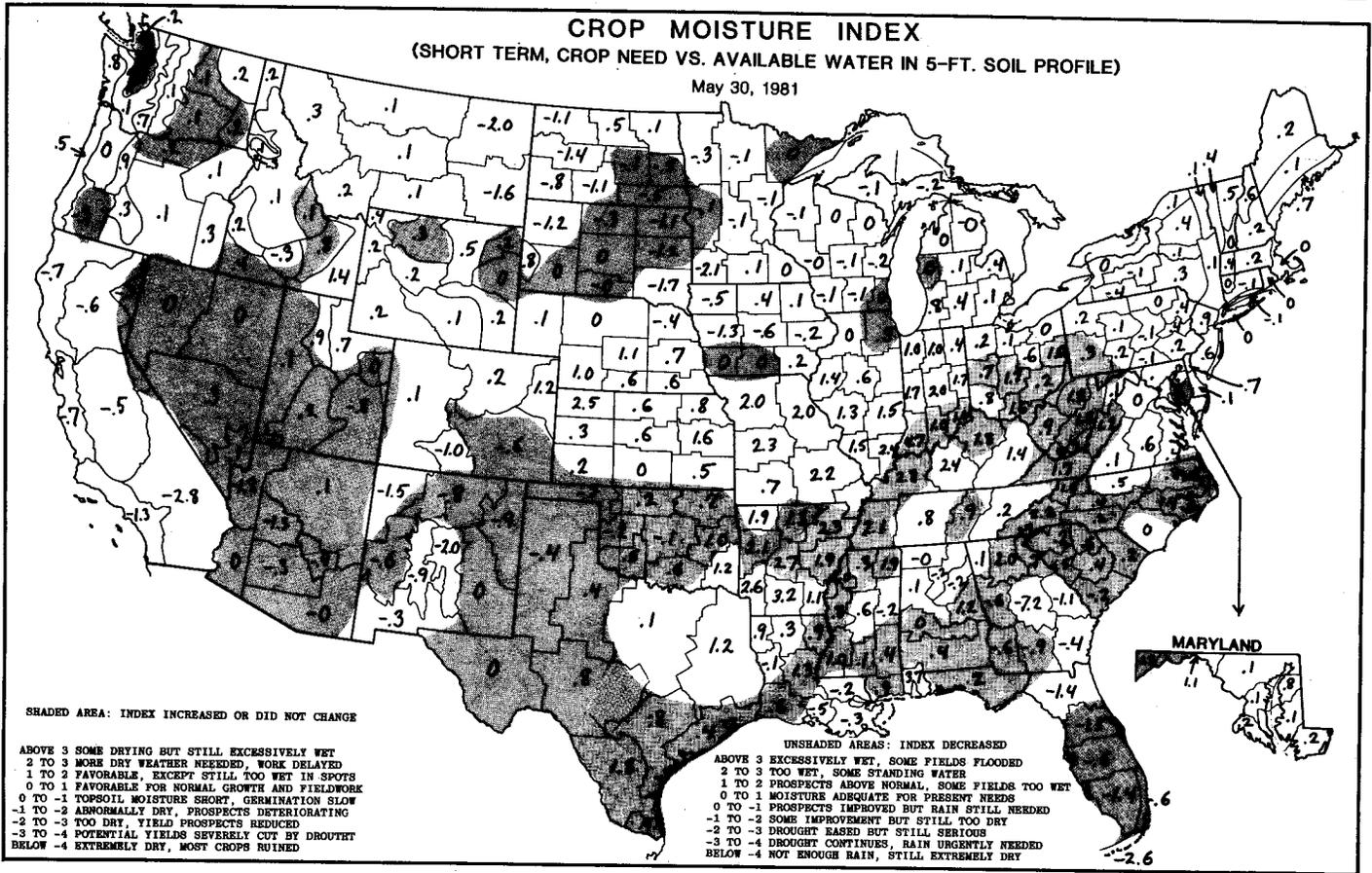
FRIDAY...The slow-moving cold front continued to spread thunderstorms across the Nation's midsection -- from the southern Rockies and southern half of the Plains through Arkansas and Missouri to the upper Great Lakes region. Heavy downpours produced local flooding from central Texas to Chicago. Tornadoes and hail were frequent from southwestern Texas through Kansas. Scattered showers and thunderstorms continued along the northern half of the Atlantic Coast. A cold front produced showers in Washington, Oregon, and western Nevada.

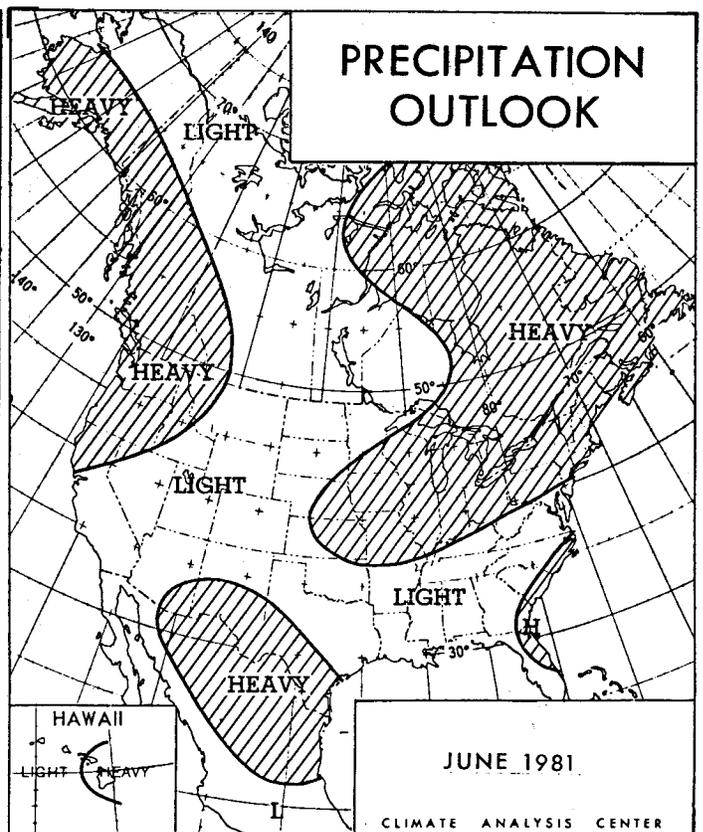
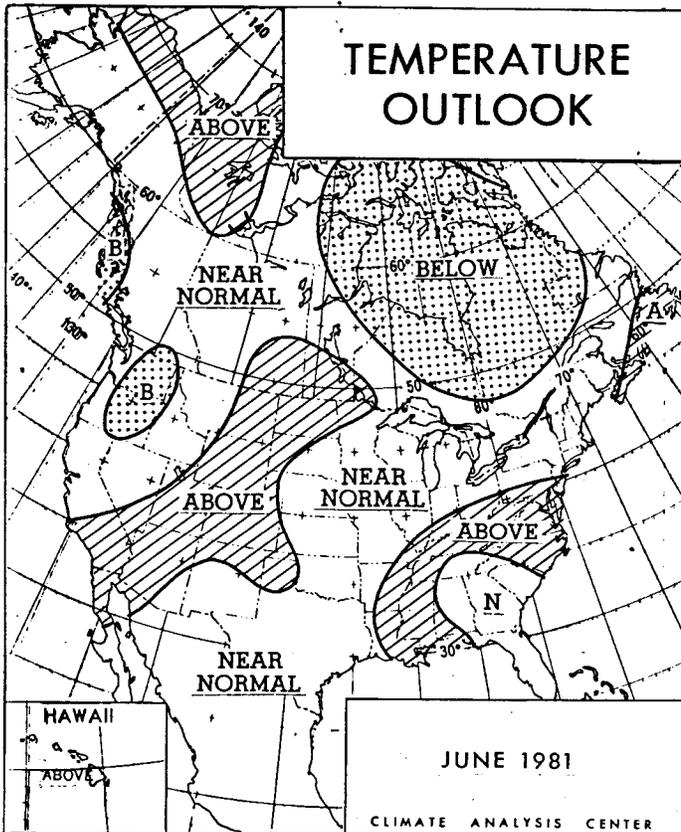
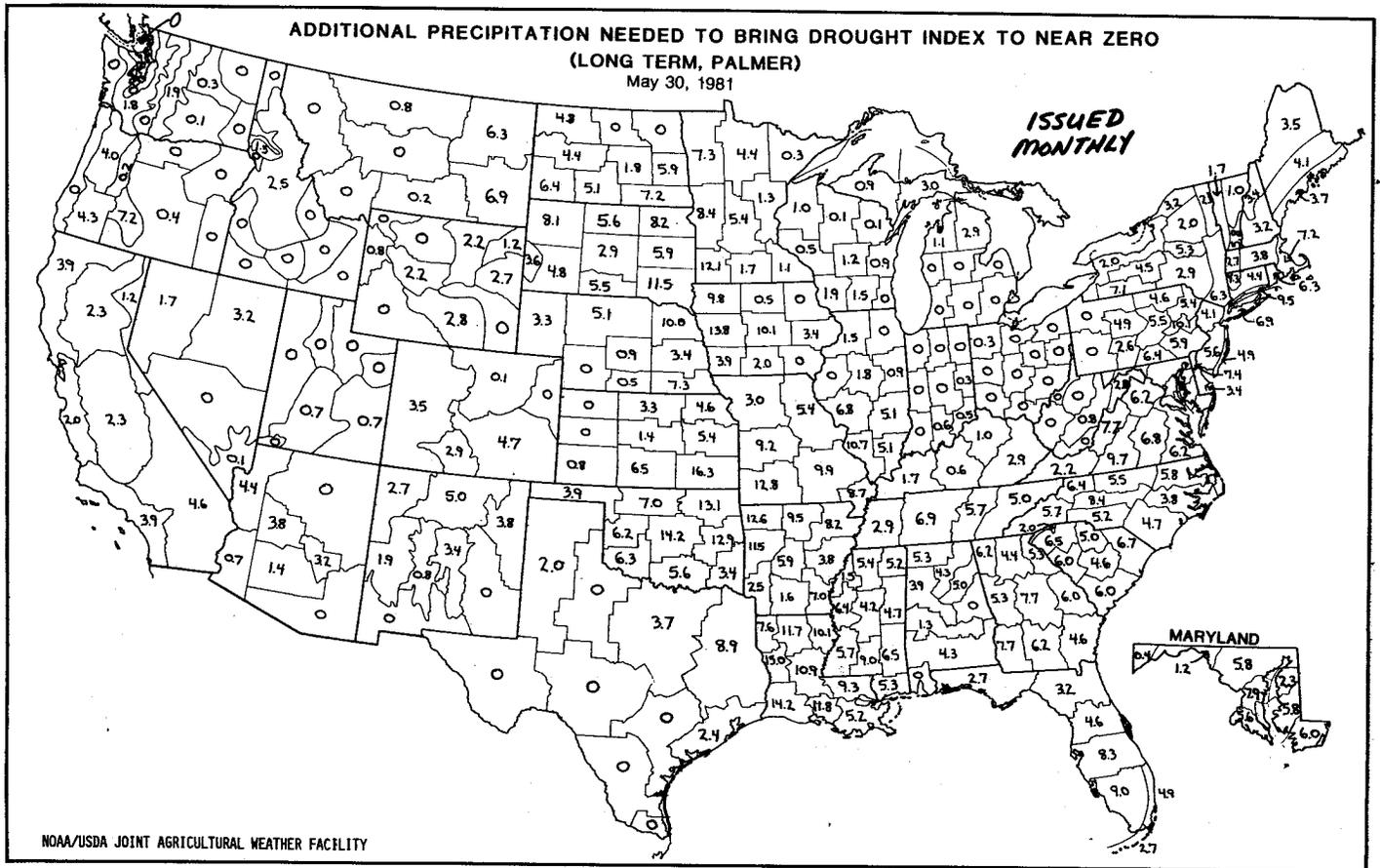
SATURDAY...The weather was not as violent as on the previous 2 days, but thunderstorms extended from the southern Plains to the northern Appalachians. The showers and thundershowers spread eastward into Alabama and Georgia, reaching into the Carolinas. Out West, a cold front triggered showers and thunderstorms from western Montana into Nevada. A few showers fell over southern Florida and in the eastern part of the Dakotas. (Continued on page 13)

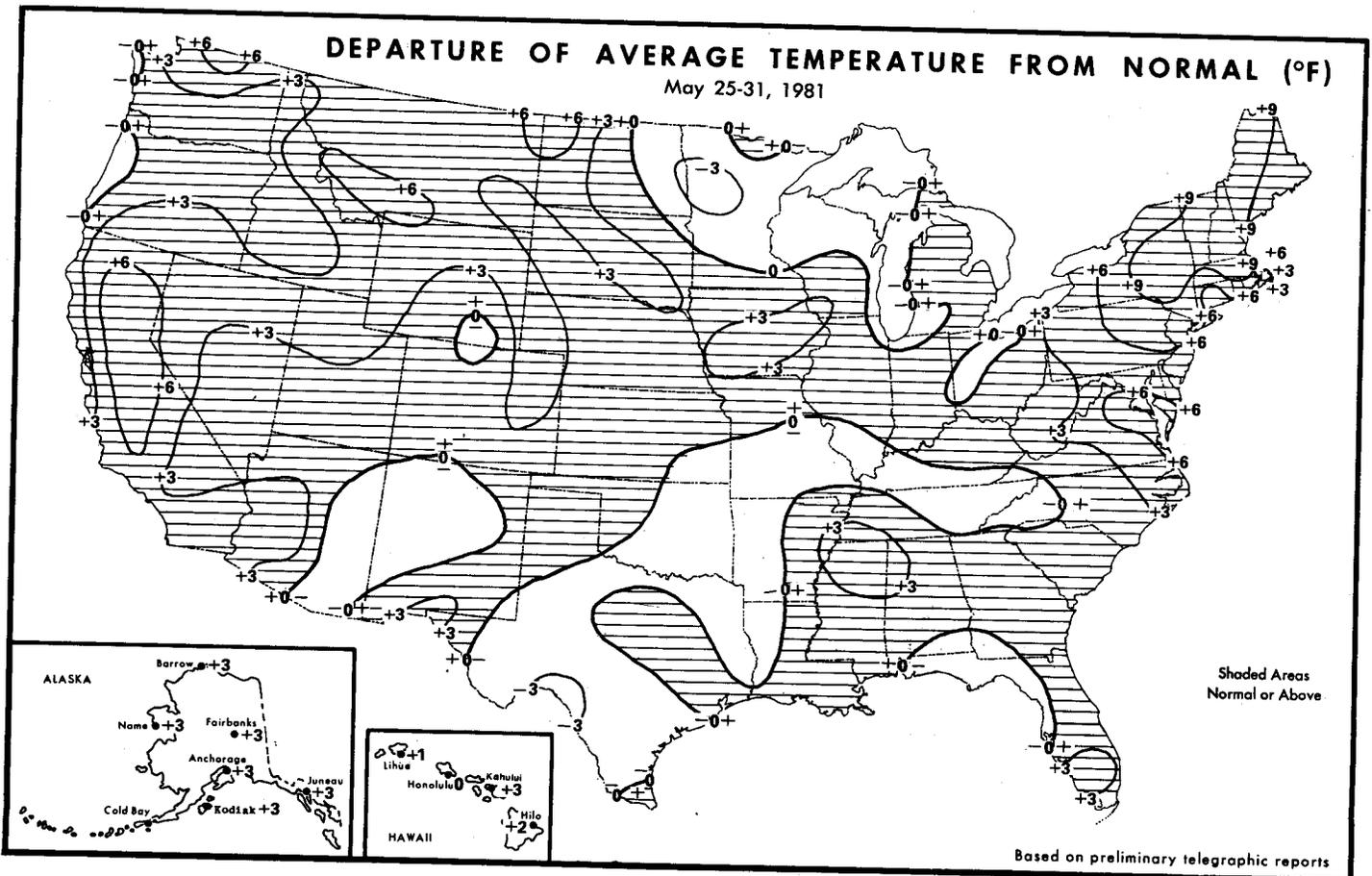
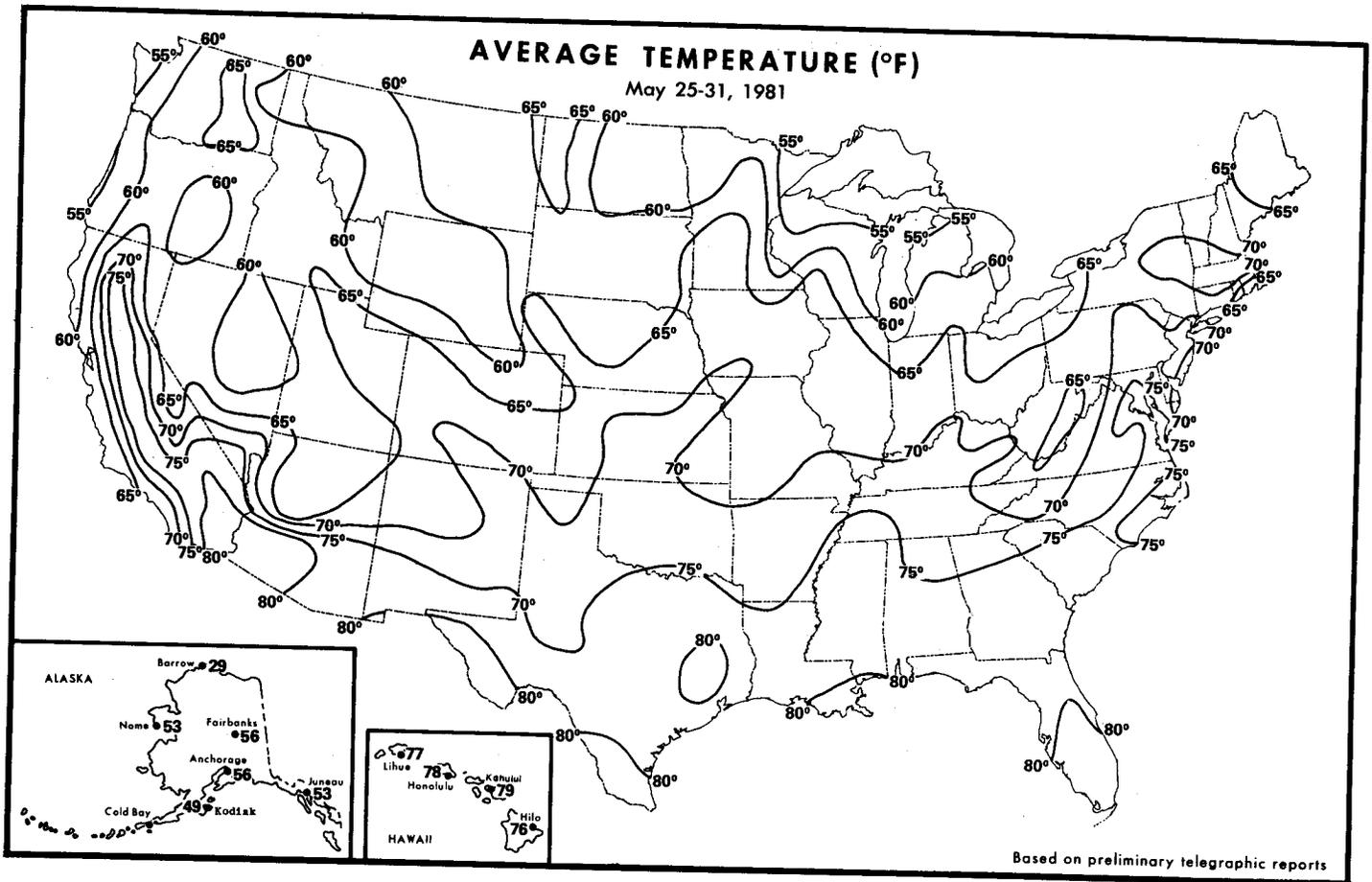
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Weather Data for the Week Ending May 31, 1981

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 MAR. 2	PCT. NORMAL SINCE MAR. 2	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIPITATION		
																		.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	85	65	92	57	75	3	1.2	.4	.8	12.0	85	18.4	75	88	48	2	0	3	1	
MOBILE	88	70	91	64	79	3	2.2	1.2	2.1	16.5	92	26.5	99	94	48	3	0	2	1	
MONTGOMERY	87	67	91	65	77	3	2.0	1.2	2.0	14.7	107	22.9	104	91	54	2	0	1	1	
AK ANCHORAGE	65	47	73	43	56	3	.1	0	.1	1.1	79	3.2	103	82	42	0	0	2	1	
BARROW	32	26	34	24	29	3	T	0	T	--	--	--	--	99	86	0	7	0	0	
FAIRBANKS	65	49	76	38	56	3	.2	.1	.2	.5	33	1.5	68	68	38	0	0	2	0	
JUNEAU	61	45	69	40	53	3	2.7	2.0	1.3	7.1	73	16.4	96	93	64	0	0	6	2	
KODIAK	53	46	59	41	49	3	2.3	1.3	.9	17.9	150	36.6	166	92	77	0	0	5	2	
NOME	65	43	78	32	53	13	T	.1	T	2.5	119	5.4	142	66	38	0	1	2	0	
AZ FLAGSTAFF	68	42	74	37	55	4	.6	.5	.4	6.3	166	8.8	119	85	35	0	0	3	0	
PHOENIX	94	73	98	68	84	4	T	0	T	1.2	92	3.1	129	51	20	6	0	1	0	
TUCSON	90	63	93	59	77	0	T	0	T	2.9	264	5.0	200	55	19	5	0	1	0	
WINSLOW	78	54	85	46	66	0	.7	.6	.4	1.2	75	2.1	84	--	--	0	0	3	0	
YUMA	98	71	104	65	85	4	.1	.1	.1	.3	60	1.1	79	48	18	7	0	1	0	
AR PORT SMITH	79	62	86	60	71	-1	1.7	.4	1.1	11.6	83	15.9	81	95	63	0	0	4	1	
LITTLE ROCK	84	64	88	60	73	0	4.9	3.7	3.1	16.4	105	22.6	93	100	62	0	0	5	2	
CA BAKERSFIELD	90	66	98	63	78	7	.1	.1	.1	2.5	132	4.4	113	62	25	4	0	2	0	
EUREKA	60	52	63	51	56	3	.1	.4	.1	7.2	72	18.4	81	95	80	0	0	2	0	
FRESNO	91	64	96	57	77	7	T	.1	T	3.2	.91	7.5	109	61	25	4	0	0	0	
LOS ANGELES	71	62	74	60	66	3	T	0	T	2.9	100	6.6	84	84	65	0	0	0	0	
RED BLUFF	92	64	98	63	78	7	T	.2	T	8.9	168	16.3	125	76	23	6	0	0	0	
SAN DIEGO	72	65	74	62	68	4	T	0	T	3.0	115	8.5	142	90	72	0	0	1	0	
SAN FRANCISCO	71	53	79	51	61	1	T	.1	T	3.9	86	12.2	100	89	51	0	0	0	0	
STOCKTON	91	60	96	57	76	7	T	.1	T	4.1	111	9.2	103	74	28	4	0	0	0	
CO DENVER	73	53	77	49	63	2	1.3	.7	.8	7.1	122	7.8	113	86	43	0	0	5	1	
GRAND JUNCTION	80	56	85	51	68	2	.6	.5	.5	3.6	189	3.9	130	73	25	0	0	2	1	
PUEBLO	82	54	89	50	68	3	.1	.2	T	1.7	45	2.3	52	84	29	0	0	3	0	
CT BRIDGEPORT	76	59	81	55	68	6	.6	.2	.6	5.9	57	11.0	69	99	66	0	0	2	1	
HARTFORD	83	62	91	53	72	4	.5	.2	.5	5.3	49	12.9	74	85	38	1	0	1	1	
DC WASHINGTON	85	67	90	64	76	6	.4	.4	.2	7.4	77	10.6	72	91	56	1	0	3	0	
FL APALACHICOLA	85	69	89	63	76	-1	.3	.5	.3	4.2	37	8.8	48	90	60	0	0	2	0	
DAYTONA BEACH	89	67	93	59	78	2	1.6	.9	1.6	5.0	61	10.8	81	88	47	3	0	2	1	
FORT MYERS	93	72	97	67	83	4	2.8	1.7	2.4	4.6	52	7.0	56	90	44	6	0	2	1	
JACKSONVILLE	92	66	97	60	79	2	.9	.1	.9	7.3	73	12.8	79	96	43	5	0	1	1	
KEY WEST	88	78	90	75	83	2	.4	.2	.3	1.7	27	4.4	44	95	71	1	0	3	0	
MIAMI	88	74	91	69	81	3	1.2	.3	.7	6.4	57	11.7	75	91	57	4	0	3	1	
ORLANDO	92	68	95	63	80	3	.7	0	.7	4.1	46	8.7	60	93	39	6	0	2	1	
TALLAHASSEE	89	64	92	58	76	-1	.2	.7	.2	11.5	83	21.7	97	98	43	5	0	1	0	
TAMPA	88	68	92	66	78	-1	1.3	.6	1.2	3.4	41	9.2	67	97	52	2	0	2	1	
WEST PALM BEACH	89	74	93	72	82	4	2.5	1.3	2.4	8.7	71	13.3	81	83	55	4	0	2	1	
GA ATLANTA	84	65	91	59	75	4	2.3	1.5	1.3	9.8	71	17.4	76	87	45	1	0	3	3	
AUGUSTA	90	62	98	58	76	1	4.7	4.4	2.1	10.1	88	16.2	86	94	40	4	0	3	1	
MACON	89	65	96	59	77	1	.6	.3	.5	8.6	69	18.5	90	87	41	4	0	2	0	
SAVANNAH	89	67	96	63	78	2	.5	.5	.2	7.9	70	11.8	69	85	42	4	0	2	0	
HI HILO	83	69	84	67	76	2	.1	.2	.1	--	--	--	--	84	54	0	0	3	0	
HONOLULU	86	71	88	67	78	3	T	.2	T	2.6	46	4.4	35	83	52	0	0	2	0	
KAHULUI	88	70	89	65	79	3	0	.1	0	--	--	--	--	74	45	0	0	0	0	
LIHUE	84	71	85	65	77	1	.1	.4	.1	--	--	--	--	89	61	0	0	2	0	
ID BOISE	77	47	83	43	62	2	.3	0	.3	5.8	166	8.0	127	84	25	0	0	2	0	
LEWISTON	77	51	86	47	64	3	.5	.1	.3	4.1	114	6.1	105	86	36	0	0	3	0	
POCATELLO	71	48	76	43	60	4	.5	.2	.4	6.3	197	7.7	154	86	43	0	0	3	0	
IL CAIRO	80	65	87	63	73	0	2.3	1.1	1.4	3.2	--	17.9	80	999	999	0	0	2	2	
CHICAGO	74	50	83	41	62	2	3.5	2.7	3.4	12.7	137	15.0	121	93	45	0	0	2	1	
MOLINE	80	54	87	46	67	2	T	.9	T	6.7	66	9.3	70	87	45	0	0	0	0	
PEORIA	79	58	87	50	69	3	.3	.6	.2	12.3	109	15.1	103	91	52	0	0	3	0	
ROCKFORD	78	52	82	45	65	2	.5	.4	.5	7.8	76	10.4	78	91	48	0	0	1	1	
SPRINGFIELD	82	57	87	48	69	2	T	.8	T	13.0	125	15.5	111	94	49	0	0	4	0	
IN EVANSVILLE	78	61	83	57	69	0	5.6	4.6	3.1	17.1	132	20.5	103	100	68	0	0	4	3	
FORT WAYNE	73	57	81	50	65	1	.8	.1	.4	10.5	104	14.2	95	91	59	0	0	4	0	
INDIANAPOLIS	75	57	82	52	66	1	2.6	1.7	1.1	16.3	140	19.6	117	87	55	0	0	5	2	
SOUTH BEND	73	53	79	47	63	0	2.6	2.0	2.4	13.0	131	15.7	109	96	57	0	0	2	1	
IA BURLINGTON	79	57	85	52	68	2	T	.8	T	10.6	107	12.4	96	96	54	0	0	1	0	
DES MOINES	80	59	83	51	69	4	T	1.0	T	5.0	54	6.4	55	73	37	0	0	0	0	
DUBUQUE	76	57	80	54	67	5	.2	.9	.1	7.1	61	10.0	68	87	48	0	0	3	0	
SIoux CITY	81	53	86	49	67	2	.1	.7	.1	4.2	56	5.0	57	76	36	0	0	1	0	
KS CONCORDIA	79	59	83	55	69	2	1.5	.5	1.3	10.2	128	10.4	109	91	46	0	0	3	1	
DODGE CITY	80	60	85	57	70	2	2.3	1.5	.7	8.3	138	8.7	123	85	46	0	0	4	3	
GOODLAND	75	54	80	50	65	2	1.9	1.3	1.3	15.7	334	16.7	298	91	47	0	0	5	1	
TOPEKA	81	59	84	50	70	2	.4	.5	.3	7.6	100	10.1	89	93	49	0	0	2	0	
WICHITA	79	61	83	56	70	0	.5	.4	.2	9.0	107	9.5	92	82	45	0	0	6	0	
KY LEXINGTON	77	61	81	52	69	1	2.0	1.0	1.2	11.8	94	16.7	83	95	62	0	0	4	2	
LOUISVILLE	78	64	85	56	71	3	1.4	.4	.7	10.5	79	14.1	69	92	59	0	0	5	1	
LA BATON ROUGE	88	70	92	68	79	1	.6	.3	.6	9.4	64	17.8	74	100	57	3	0	1	1	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending May 31, 1981

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 Mar. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LAKE CHARLES	87	69	91	65	78	0	4.4	3.3	4.4	9.0	69	14.2	65	96	55	2	0	2	1
NEW ORLEANS	89	72	92	68	81	3	1.4	.4	1.4	10.5	76	19.7	84	91	55	3	0	1	1
SHREVEPORT	85	66	89	63	75	-1	.6	.5	.3	14.0	97	20.4	91	96	64	0	0	4	0
ME CARIBOU	71	57	79	48	64	9	1.3	.6	.6	8.7	116	13.1	110	100	63	0	0	6	1
PORTLAND	76	55	87	48	66	9	.8	0	.6	7.2	70	15.2	87	93	57	0	0	4	1
MD BALTIMORE	83	62	90	56	72	5	.6	.2	.5	6.8	67	10.3	65	86	54	1	0	3	0
MA BOSTON	83	64	91	61	74	13	.2	.5	.2	4.7	44	12.4	69	83	45	1	0	2	0
CHATHAM	66	54	70	52	60	-	.5	-	.5	8.2	-	16.0	-	98	79	0	0	2	1
MI ALPENA	70	45	77	40	58	3	.1	.6	.1	5.5	79	8.0	78	93	49	0	0	2	0
DETROIT	72	54	78	41	63	3	.9	.1	.3	6.9	75	10.5	83	90	55	0	0	5	0
FLINT	71	51	79	41	61	2	.3	.4	.2	8.2	104	10.8	96	93	51	0	0	3	0
GRAND RAPIDS	74	51	80	42	63	2	.3	.4	.2	15.7	174	18.1	145	90	50	0	0	2	0
HOUGHTON LAKE	70	49	78	37	59	2	T	T	T	6.6	93	9.7	97	85	46	0	0	0	0
LANSING	72	50	80	41	61	0	1.1	.3	1.0	11.0	128	12.9	107	98	58	0	0	3	1
MARQUETTE	62	39	77	32	50	-2	.6	.2	.4	7.8	91	12.1	102	96	49	0	1	4	0
MUSKEGON	70	49	75	39	60	0	.2	.3	.2	7.4	89	11.1	90	93	51	0	0	1	0
SAULT STE. MARIE	67	41	75	31	54	1	.3	.4	.2	5.7	81	8.8	84	93	49	0	2	3	0
MN DULUTH	62	42	72	34	52	-1	.1	.7	.1	6.7	88	8.4	88	94	54	0	0	2	0
INT'L FALLS	66	45	72	37	56	2	.5	.1	.3	5.2	92	5.7	81	87	48	0	0	3	0
MINNEAPOLIS	69	52	78	46	61	0	.4	.4	.4	5.0	71	7.4	87	86	55	0	0	1	0
ROCHESTER	70	50	78	45	60	0	.3	.5	.3	5.8	78	8.0	94	98	62	0	0	2	0
SAINT CLOUD	66	48	75	48	57	-2	.7	.1	.6	5.9	80	7.4	85	96	60	0	0	3	1
MS JACKSON	88	67	92	61	77	1	1.4	.4	1.0	13.0	86	18.4	76	92	50	3	0	3	1
MERIDIAN	89	66	92	60	77	2	1.9	1.0	1.4	15.7	103	22.8	94	92	49	3	0	2	1
MO COLUMBIA	77	58	82	53	68	0	.2	.9	.1	14.6	130	16.5	112	92	57	0	0	3	0
KANSAS CITY	78	60	81	53	69	1	1.1	.1	.7	12.8	127	13.6	106	92	51	0	0	2	1
SAINT LOUIS	78	60	84	53	69	-1	.3	.6	.1	13.1	122	16.0	110	99	58	0	0	2	0
SPRINGFIELD	77	57	88	53	67	-2	.8	.3	.4	11.6	95	14.2	87	95	63	0	0	4	0
MT BILLINGS	77	52	85	49	64	6	.9	.4	.8	9.6	204	9.9	165	79	40	0	0	3	1
GLASGOW	72	50	78	47	61	5	.5	.2	.4	2.7	123	2.8	90	84	37	0	0	2	0
GREAT FALLS	71	48	77	41	60	3	.9	.3	.6	7.7	175	8.5	139	87	36	0	0	4	1
HAVRE	72	50	78	45	61	4	.5	.1	.4	3.4	113	3.5	90	88	36	0	0	2	0
HELENA	72	47	75	42	60	6	.4	0	.4	8.1	258	8.2	205	77	33	0	0	2	0
KALISPELL	70	42	74	37	56	4	.7	.3	.4	5.8	156	9.3	145	92	37	0	0	3	0
MILES CITY	73	51	79	48	62	2	.6	.1	.4	3.3	84	3.5	73	88	41	0	0	3	0
MISSOULA	73	48	80	43	61	7	1.0	.6	.9	6.2	193	7.1	137	90	38	0	0	3	1
NE GRAND ISLAND	77	54	80	48	66	1	.2	.7	.2	8.7	119	9.1	107	95	48	0	0	2	0
LINCOLN	80	56	83	48	68	2	T	.8	T	6.7	91	7.1	81	89	48	0	0	0	0
NORFOLK	79	52	84	47	66	2	T	.9	T	5.0	70	5.5	65	86	35	0	0	1	0
NORTH PLATTE	75	52	79	44	63	1	.9	.1	.8	10.6	174	10.9	156	95	48	0	0	2	1
OMAHA	81	54	85	45	67	3	T	.9	T	6.6	80	7.0	71	85	35	0	0	0	0
VALENTINE	76	49	85	41	62	1	T	.6	T	3.9	72	4.1	68	78	40	0	0	1	0
NV ELY	70	42	77	36	56	2	.9	.7	.6	4.5	161	5.5	145	88	35	0	0	4	1
LAS VEGAS	87	65	96	60	76	1	.3	.3	.3	1.3	144	2.2	122	66	25	4	0	2	0
RENO	79	47	85	42	63	7	.4	.2	.4	1.5	88	2.5	64	64	22	0	0	1	0
WINNEMUCCA	76	46	86	39	61	4	.5	.3	.4	3.1	135	4.1	103	90	31	0	0	2	0
NH CONCORD	82	57	90	45	69	10	.8	.1	.4	7.2	84	15.4	112	92	44	1	0	3	0
NJ ATLANTIC CITY	80	59	87	53	69	4	T	.8	T	10.8	96	15.1	83	85	44	0	0	1	0
TRENTON	82	65	88	63	73	7	.4	.4	.4	9.2	88	12.9	81	96	57	0	0	2	0
NM ALBUQUERQUE	81	53	88	44	67	-2	.1	.1	.1	1.6	114	2.4	104	59	23	0	0	1	0
ROSWELL	87	58	92	52	73	1	.1	.2	.1	4.4	220	4.9	169	66	22	4	0	2	0
NY ALBANY	84	59	94	51	71	10	.5	.2	.2	4.7	56	10.3	80	94	49	1	0	4	0
BINGHAMTON	78	59	85	49	68	9	.6	.3	.5	5.9	60	10.7	73	91	44	0	0	5	0
BUFFALO	71	56	79	45	64	5	.9	.3	.8	7.3	83	11.9	83	92	58	0	0	3	1
NEW YORK	79	67	88	63	73	7	.5	.3	.4	7.3	68	13.3	79	82	50	0	0	2	0
ROCHESTER	76	57	83	43	66	6	.3	.4	.2	5.4	67	9.8	76	91	58	0	0	3	0
SYRACUSE	80	60	87	50	70	9	.6	.1	.2	5.7	63	9.7	66	88	44	0	0	4	0
NC ASHEVILLE	77	56	85	49	67	0	4.1	3.3	2.1	12.9	113	18.1	97	99	57	0	0	4	3
CHARLOTTE	82	62	88	60	72	0	2.4	1.8	1.5	7.9	75	12.0	66	92	50	0	0	3	2
GREENSBORO	83	61	90	56	72	2	.5	.2	.4	6.4	66	10.7	65	91	51	1	0	3	0
HATTERAS	81	67	86	62	74	4	.8	.1	.7	9.3	93	13.1	70	90	60	0	0	2	1
RALEIGH	83	62	89	58	72	2	1.6	.8	.8	7.7	77	13.6	77	97	53	0	0	3	2
WILMINGTON	84	66	92	62	75	1	1.1	.2	.6	9.4	85	13.6	77	95	52	1	0	4	1
ND BISMARCK	69	50	79	46	59	1	.3	.2	.2	1.6	37	2.2	42	95	56	0	0	3	0
FARGO	63	49	71	36	56	-3	.1	.4	.1	4.7	-90	5.3	87	94	59	0	0	2	0
WILLISTON	79	54	88	50	66	8	.7	.3	.7	1.9	58	2.3	55	82	36	0	0	1	1
OH AKRON-CANTON	73	56	79	44	65	2	2.5	1.6	2.3	14.3	136	19.7	127	82	56	0	0	4	1
CINCINNATI	77	60	81	51	68	3	1.5	.6	.8	12.1	110	16.6	94	99	62	0	0	5	2
CLEVELAND	70	54	78	41	62	0	.7	.1	.3	8.4	84	12.0	79	88	57	0	0	4	0
COLUMBUS	75	59	82	53	67	2	2.2	1.3	.7	13.1	120	18.5	114	93	64	0	0	5	3
DAYTON	73	57	79	52	65	-1	1.6	.7	.8	11.2	109	14.8	96	98	66	0	0	5	1
TOLEDO	73	55	81	43	64	1	.6	.2	.5	6.1	70	10.0	79	95	59	0	0	4	0
YOUNGSTOWN	73	57	79	43	65	3	.9	.1	.8	11.0	103	15.7	97	83	56	0	0	4	1
OK OKLAHOMA CITY	82	62	87	60	72	0	.8	.4	.6	8.5	80	9.8	73	93	57	0	0	3	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

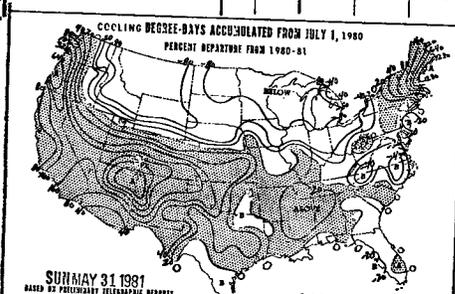
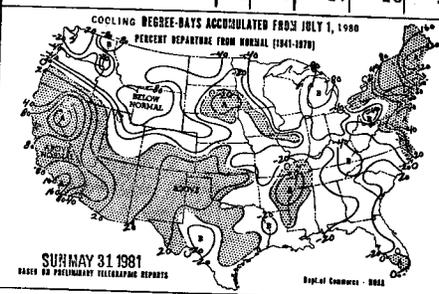
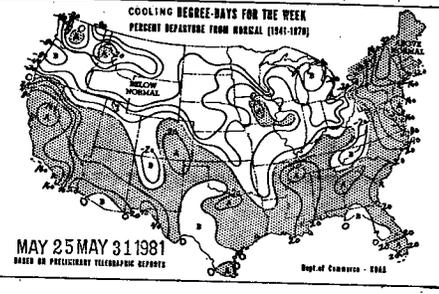
Weather Data for the Week Ending May 31, 1981

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 Mar. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	78	63	87	60	71	-1	3.3	-2.1	1.5	10.3	88	12.7	85	100	71	0	0	5	2
OR ASTORIA	65	48	76	44	57	2	.3	-.3	.1	16.2	117	27.3	86	89	58	0	0	3	3
BURNS	70	49	71	43	59	3	.1	-.1	.1	4.7	195	6.4	118	83	33	0	0	1	0
MEDFORD	81	48	88	40	64	4	.2	-.1	.2	3.0	75	5.4	55	92	29	0	0	1	0
PENDLETON	73	50	82	47	62	2	.8	-.5	.7	4.3	126	6.6	105	82	34	0	0	3	1
PORTLAND	74	51	82	46	62	3	.2	-.3	.3	6.5	83	11.9	67	94	41	0	0	3	0
SALEM	72	45	81	40	58	0	.2	-.3	.2	7.7	88	13.1	64	97	45	0	0	2	0
PA ALLENTOWN	81	60	88	54	71	7	1.3	-.5	.5	9.0	82	14.3	85	97	50	0	0	3	1
ERIE	69	56	77	43	63	4	.6	-.2	.5	9.8	101	15.9	110	88	61	0	0	3	0
HARRISBURG	81	62	91	58	72	5	.7	-.2	.3	5.7	57	12.0	79	91	49	1	0	5	0
PHILADELPHIA	81	63	86	60	72	5	.5	-.3	.5	9.8	94	13.3	84	94	50	0	0	3	0
PITTSBURGH	75	58	81	47	66	3	1.1	-.3	.5	8.9	86	13.6	87	85	54	0	0	4	1
SCRANTON	80	60	87	51	70	7	.4	-.4	.3	7.2	79	15.9	120	83	49	0	0	3	0
RI PROVIDENCE	82	57	92	54	69	8	.4	-.4	.3	6.6	59	12.2	67	99	48	3	0	2	0
SC CHARLESTON	88	67	94	60	77	2	1.4	-.4	1.4	8.4	75	11.6	66	93	46	2	0	1	1
COLUMBIA	88	65	94	62	76	1	2.2	1.4	1.4	7.5	65	12.4	65	91	44	3	0	3	2
GREENVILLE	84	62	90	58	73	1	1.8	1.2	1.0	8.4	67	12.5	60	89	50	1	0	3	1
SD ABERDEEN	72	53	83	48	62	2	1.0	-.4	.8	3.8	70	4.2	66	92	54	0	0	3	1
HURON	75	52	90	46	64	3	.1	-.5	.1	2.8	47	2.9	43	93	49	1	0	2	0
RAPID CITY	74	49	82	41	61	2	.1	-.5	.1	3.2	52	3.5	51	92	47	0	0	2	0
SI OUX FALLS	78	52	88	45	65	3	.1	-.8	.1	2.9	42	3.4	40	80	38	0	0	1	0
TN CHATTANOOGA	82	62	90	54	72	0	1.3	-.5	.8	11.3	84	18.5	79	91	54	1	0	4	1
KNOXVILLE	79	61	85	56	70	-1	1.3	-.6	.6	10.6	91	15.4	72	100	66	0	0	5	1
MEMPHIS	86	70	90	67	78	4	4.0	3.1	2.0	15.7	105	20.7	83	88	55	2	0	4	3
NASHVILLE	82	63	86	57	72	0	.8	-.1	.4	11.2	85	16.7	75	98	55	0	0	4	0
TX ABILENE	89	65	98	56	77	1	.8	-.2	.6	6.9	93	9.5	99	87	40	3	0	2	1
AMARILLO	84	57	93	51	70	1	1.4	-.7	.5	5.0	111	5.3	98	84	39	2	0	4	0
AUSTIN	87	68	92	64	78	0	1.7	-.8	1.4	12.5	132	15.9	109	93	53	4	0	3	1
BEAUMONT	88	71	93	68	79	2	.3	-.8	.2	7.9	65	14.7	71	94	56	4	0	2	0
BROWNSVILLE	91	74	93	68	82	1	4.8	4.2	3.3	9.8	228	12.4	170	96	59	6	0	2	2
CORPUS CHRISTI	88	71	91	66	79	-1	3.3	2.6	2.1	12.0	194	16.4	166	99	62	1	0	2	2
DEL RIO	90	67	97	60	78	-3	.3	-.3	.3	11.0	239	11.9	189	86	58	4	0	2	0
EL PASO	95	66	98	55	80	4	.1	-.1	.1	1.7	142	3.3	157	48	17	7	0	0	0
FORT WORTH	88	67	93	64	78	2	1.4	-.4	1.2	12.0	107	14.4	93	93	46	3	0	4	1
GALVESTON	83	73	86	70	78	0	3.2	2.5	2.1	4.9	59	8.4	60	95	71	0	0	3	2
HOUSTON	89	71	93	68	80	3	.6	-.6	.3	13.3	118	17.9	96	95	54	4	0	3	0
LUBBOCK	84	59	95	54	72	0	.3	-.5	.2	4.5	88	5.4	90	91	36	3	0	4	0
MIDLAND	88	61	99	53	74	-2	1.1	-.6	.8	4.8	141	6.1	142	87	30	4	0	2	1
SAN ANGELO	88	62	99	54	75	-2	1.8	1.2	1.5	10.4	200	12.7	187	92	41	3	0	2	1
SAN ANTONIO	88	68	94	63	78	-2	3.3	2.6	2.7	10.8	152	14.6	132	98	58	3	0	2	2
VICTORIA	88	69	92	65	79	0	2.9	1.9	2.1	11.0	131	14.4	114	97	60	1	0	2	2
WACO	89	68	95	63	78	1	.1	-.9	.1	7.5	68	10.7	70	93	46	3	0	2	0
WICHITA FALLS	86	64	92	61	75	-1	1.4	-.4	1.0	9.4	98	12.9	108	96	51	3	0	3	1
UT BLANDING	76	48	79	43	62	2	.2	-.1	.1	4.2	183	4.6	105	76	40	0	0	4	0
SALT LAKE CITY	74	55	82	52	65	5	.6	-.3	.4	6.3	117	7.8	98	87	37	0	0	4	0
VT BURLINGTON	77	60	82	51	68	9	.9	-.2	.4	8.3	112	14.2	131	99	55	0	0	5	0
VA LYNCHBURG	82	60	89	55	71	3	.7	-.1	.5	5.9	63	10.2	68	96	52	0	0	2	0
NORFOLK	86	65	93	62	76	7	1.0	-.3	1.0	6.8	73	10.1	63	92	45	2	0	2	1
RICHMOND	84	64	90	55	74	4	1.4	-.6	1.0	11.4	121	14.8	96	87	52	1	0	4	1
ROANOKE	79	60	86	55	69	1	2.3	1.4	.9	9.0	94	11.8	76	93	58	0	0	3	2
WA COLVILLE	72	48	81	42	60	3	.4	0	.4	6.2	168	9.0	125	85	52	0	0	2	0
OMAK	79	52	84	46	66	--	.4	--	.4	2.0	71	5.1	93	61	52	0	0	1	0
QUILLAYUTE	64	44	75	36	53	0	.5	-.4	.2	29.2	125	44.8	89	98	59	0	0	4	0
SEATTLE-TACOMA	69	51	77	48	60	4	.2	-.2	.1	5.3	69	12.2	69	82	39	0	0	3	0
SPOKANE	70	47	76	42	58	2	.4	0	.4	4.6	105	7.0	80	89	37	0	0	2	0
WALLA-WALLA	75	53	84	50	65	2	1.0	-.6	.8	6.4	136	10.6	126	81	39	0	0	3	1
YAKIMA	78	49	85	41	64	2	.3	-.1	.3	.9	69	2.5	71	80	28	0	0	1	0
WV BECKLEY	73	56	80	49	65	3	2.2	1.3	.8	10.4	92	13.1	72	97	66	0	0	4	2
CHARLESTON	78	60	86	57	69	1	.8	-.1	.2	9.8	92	15.4	88	91	58	0	0	5	0
HUNTINGTON	77	62	86	59	69	1	2.5	1.6	2.2	14.2	127	19.1	110	99	64	0	0	3	1
PARKERSBURG	78	60	86	54	69	2	1.8	1.0	.9	8.7	83	12.7	77	80	50	0	0	5	2
WI GREEN BAY	71	46	81	39	59	0	.1	-.7	.1	5.3	70	8.0	81	88	51	0	0	0	0
LA CROSSE	74	55	80	46	64	2	.1	-.7	.1	6.8	80	9.1	89	98	54	0	0	1	0
MADISON	77	48	83	41	63	2	.3	-.5	.3	4.4	55	6.9	66	88	41	0	0	1	0
MILWAUKEE	67	46	79	41	57	-1	.8	-.1	.8	8.3	109	11.5	110	92	55	0	0	1	1
WY CASPER	71	46	77	40	58	2	.9	-.5	.4	6.0	136	6.7	126	90	40	0	0	4	0
CHEYENNE	67	46	72	40	56	0	1.1	-.5	.7	6.9	133	7.4	121	92	47	0	0	5	1
LANDER	70	48	76	46	59	3	.1	-.4	.1	6.3	103	7.2	104	78	45	0	0	2	0
SHERIDAN	73	47	78	42	60	3	.5	-.1	.2	5.4	93	6.0	82	91	46	0	0	3	0
PR SAN JUAN	89	77	93	75	83	3	1.7	-.1	.6	18.3	154	23.7	130	89	63	2	0	4	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAY 31, 1981.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +	
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*
ALA. BIRMINGHAM...	71	11	241	41	MAINE CARIBOU...	18	3	183	14	YOUNGSTOWN...	21	3	193	16
MOBILE...	84	12	324	55	PORTLAND...	18	3	183	14	OKLA. OKLAHOMA CITY...	51	3	193	31
HONTGONERY...	84	12	324	55	MD. BALTIMORE...	51	23	53	65	TULSA...	51	3	193	31
ARIZ. FLAGSTAFF...	11	2	49	37	MASS. BOSTON...	63	53	65	45	OREG. ASTORIA...	47	4	100	44
PHOENIX...	11	2	49	37	MICH. ALPENA...	11	1	11	1	BURNS...	47	4	100	44
TUCSON...	11	2	49	37	DETROIT...	11	1	11	1	DEERFIELD...	47	4	100	44
WINSTON...	11	2	49	37	FLINT...	11	1	11	1	HARTFORD...	47	4	100	44
YUMA...	11	2	49	37	GRAND RAPIDS...	11	1	11	1	PORTLAND...	47	4	100	44
ARK. FORT SMITH...	40	19	193	10	HOUGHTON LAKE...	11	1	11	1	SALEM...	47	4	100	44
LITTLE ROCK...	40	19	193	10	LANSGING...	11	1	11	1	PA. ALLENTOWN...	47	4	100	44
CALIF. BAKERSFIELD...	91	39	338	154	MARGUETTE...	11	1	11	1	ERIE...	47	4	100	44
EUREKA...	91	39	338	154	MUSKEGON...	11	1	11	1	HARRISBURG...	47	4	100	44
FRESNO...	91	39	338	154	ST. MARIÉ...	11	1	11	1	PHILADELPHIA...	47	4	100	44
LOS ANGELES...	91	39	338	154	MINN. DULUTH...	11	1	11	1	PITTSBURGH...	47	4	100	44
SAN DIEGO...	91	39	338	154	INTERNATL FALLS...	11	1	11	1	SCHANTON...	47	4	100	44
SAN JOSE...	91	39	338	154	MINNEAPOLIS...	11	1	11	1	R. I. PROVIDENCE...	47	4	100	44
SAN FRANCISCO...	91	39	338	154	ROCHESTER...	11	1	11	1	S. C. CHARLESTON...	47	4	100	44
STOCKTON...	91	39	338	154	ST. CLOUD...	11	1	11	1	GREENVILLE...	47	4	100	44
COLO. DENVER...	13	13	13	13	MISS. JACKSON...	11	1	11	1	S. DAK. ABERDEEN...	47	4	100	44
GRAND JUNCTION...	13	13	13	13	MO. COLUMBIA...	11	1	11	1	HURON...	47	4	100	44
PUEBLO...	13	13	13	13	KANSAS CITY...	11	1	11	1	RAPID CITY...	47	4	100	44
CONN. BRIDGEPORT...	21	13	51	33	ST. LOUIS...	11	1	11	1	STOUX FALLS...	47	4	100	44
HARTFORD...	21	13	51	33	SPRINGFIELD...	11	1	11	1	TENN. CHATTANOOGA...	47	4	100	44
DEL. WILMINGTON...	59	37	81	33	MONT. BILLINGS...	11	1	11	1	KNOXVILLE...	47	4	100	44
D.C. WASHINGTON...	79	40	171	55	GLASGOW...	11	1	11	1	MEMPHIS...	47	4	100	44
FLA. APALACHICOLA...	11	11	11	11	GREAT FALLS...	11	1	11	1	NASHVILLE...	47	4	100	44
DAYTONA BEACH...	11	11	11	11	HAVE...	11	1	11	1	TEXAS. ABILENE...	47	4	100	44
FORT MYERS...	11	11	11	11	ALBANY...	11	1	11	1	AMARILLO...	47	4	100	44
JACKSONVILLE...	11	11	11	11	BINGHAMTON...	11	1	11	1	AUSTIN...	47	4	100	44
KEY WEST...	11	11	11	11	BUFFALO...	11	1	11	1	BEAUMONT...	47	4	100	44
LAKELAND...	11	11	11	11	NEW YORK...	11	1	11	1	BROWNSVILLE...	47	4	100	44
MIAMI...	11	11	11	11	ROCHESTER...	11	1	11	1	CORPUS CHRISTI...	47	4	100	44
ORLANDO...	11	11	11	11	SYRACUSE...	11	1	11	1	DEL RIO...	47	4	100	44
TALLAHASSEE...	11	11	11	11	N. H. CONCORD...	47	4	47	39	FORT WORTH...	47	4	100	44
TAMPA...	11	11	11	11	N. J. ATLANTIC CITY...	31	16	31	47	GALVESTON...	47	4	100	44
NEST PALM BEACH...	11	11	11	11	TRENTON...	31	16	31	47	HOUSTON...	47	4	100	44
GA. ATLANTA...	11	11	11	11	N. MEX. ALBUQUERQUE...	52	22	52	79	LUBBOCK...	47	4	100	44
AUGUSTA...	11	11	11	11	ROSELAND...	52	22	52	79	MIDLAND...	47	4	100	44
MACON...	11	11	11	11	N. Y. ALBANY...	52	22	52	79	SAN ANGELO...	47	4	100	44
SAVANNAH...	11	11	11	11	BINGHAMTON...	52	22	52	79	SAN ANTONIO...	47	4	100	44
IDAHO. BOISE...	1	1	1	1	BUFFALO...	52	22	52	79	VICTORIA...	47	4	100	44
LEHTON...	1	1	1	1	NEW YORK...	52	22	52	79	WACO...	47	4	100	44
POCATELLO...	1	1	1	1	ROCHESTER...	52	22	52	79	WICHITA FALLS...	47	4	100	44
ILL. CAIRO...	53	24	242	39	SYRACUSE...	52	22	52	79	UTAH. SALT LAKE CITY...	47	4	100	44
CHICAGO...	53	24	242	39	N. C. ASHEVILLE...	47	4	47	39	VT. BURLINGTON...	47	4	100	44
MOLINE...	53	24	242	39	CHARLOTTE...	47	4	47	39	VA. LYNCHBURG...	47	4	100	44
PEORIA...	53	24	242	39	GREENSBORO...	47	4	47	39	NORFOLK...	47	4	100	44
ROCKFORD...	53	24	242	39	HATTERAS...	47	4	47	39	REICHMOND...	47	4	100	44
SPRINGFIELD...	53	24	242	39	RALEIGH...	47	4	47	39	WASH. BUILAVUTE...	47	4	100	44
IND. EVANSVILLE...	43	11	112	11	WILMINGTON...	47	4	47	39	SEATTLE-TACOMA...	47	4	100	44
FORT WAYNE...	43	11	112	11	N. DAK. BISMARCK...	47	4	47	39	SPokane...	47	4	100	44
INDIANAPOLIS...	43	11	112	11	FARGO...	47	4	47	39	HALLA HALLA...	47	4	100	44
SOUTH BEND...	43	11	112	11	MILLSTON...	47	4	47	39	YAKIMA...	47	4	100	44
IOWA. BURLINGTON...	2	2	2	2	OHIO. AKRON-CANTON...	1	1	1	1	W. VA. BECKLEY...	47	4	100	44
DES MOINES...	2	2	2	2	CINCINNATI...	1	1	1	1	CHARLESTON...	47	4	100	44
DUBUGUE...	2	2	2	2	CLEVELAND...	1	1	1	1	HUNTINGTON...	47	4	100	44
STOUX CITY...	2	2	2	2	COLUMBUS...	1	1	1	1	PARKERSBURG...	47	4	100	44
KANS. CONCORDIA...	52	13	134	10	DAYTON...	1	1	1	1	WIS. GREEN BAY...	47	4	100	44
BOGIE CITY...	52	13	134	10	TOLEDO...	1	1	1	1	LACROSSE...	47	4	100	44
GOODLAND...	52	13	134	10						MADISON...	47	4	100	44
TOPEKA...	52	13	134	10						MILWAUKEE...	47	4	100	44
WICHITA...	52	13	134	10						WYO. CASPER...	47	4	100	44
KY. LEXINGTON...	3	3	3	3						CHEYENNE...	47	4	100	44
LOUISVILLE...	3	3	3	3						LANDER...	47	4	100	44
LA. BATON ROUGE...	9	9	9	9						SHERIDAN...	47	4	100	44
LAKE CHARLES...	9	9	9	9										
NEW ORLEANS...	9	9	9	9										
SHREVEPORT...	9	9	9	9										

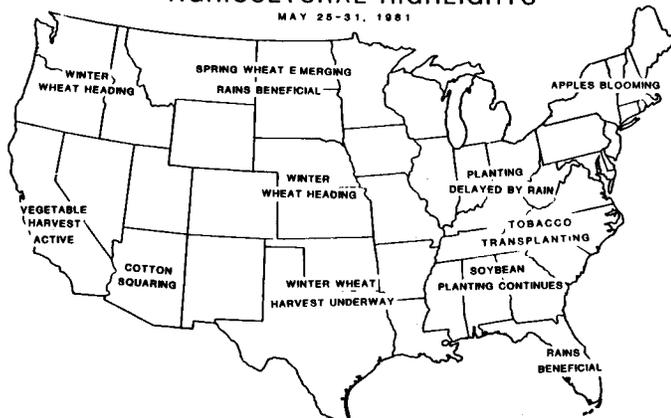


National Agricultural Summary

May 25-31, 1981

AGRICULTURAL HIGHLIGHTS

MAY 25-31, 1981



HIGHLIGHTS: Rainfall in the spring wheat growing areas of the northern Plains and Montana and in much of the South and Eastern parts of the Nation helped alleviate dry conditions and promote growth in recently seeded fields. However, planting progress was again delayed in parts of the Corn Belt where growers were already behind schedule. Soil moisture supplies ranged from adequate to surplus in the East North Central region, and in Missouri, West Virginia, and Kentucky. Moisture was very short to short in Minnesota and South Dakota; and short to mostly adequate elsewhere. Farmers in Illinois, Indiana, Missouri, West Virginia, Arkansas, Mississippi, Montana, and Wyoming had only up to 3 days suitable for fieldwork. In other areas of the Nation, up to 6 days were available. Corn planting was 87% complete, lagging last year's 96% and the 92% average. Soybean planting reached 46% finished, behind last year's 67% and the 64% average. Grain sorghum planting was 54% finished, 4 points behind a year earlier and 2 points behind average. Winter wheat was 84% headed, well ahead of last year's 68%. Harvesting was underway in southern areas. Spring wheat seeding was nearly finished and 91% of the acreage had emerged. Cotton planting was 88% complete, ahead of last year's 80%. Rice seeding neared completion and 87% of the acreage had emerged. Early planted peanuts were blooming. Pastures improved after receiving needed rains.

CORN: Corn planting in the 17 major producing States advanced to 87% complete, lagging last year's 96% and the 92% average. Planting in Georgia and North Carolina was finished. Growers in Indiana, Kansas, and Ohio were able to plant 15% of their acreage during the week while Pennsylvania farmers planted 21%. Progress is 45 points behind normal in Indiana and 30 points behind in Ohio. Rains and wet fields have slowed planting in these areas during most of the planting season. Fair to mostly good stands were reported in most areas. Many fields were silking in the South. In Louisiana 62% of the acreage was silking and in Georgia 30% was silking.

SOYBEANS: Soybean seeding in the 18 major producing States was 46% complete, behind last year's 67% and the 64% average. Progress in all States except Louisiana, Minnesota, and Nebraska was slower than average. Indiana growers were 60 percentage points behind schedule; Ohio, 55 points; Illinois, 39 points; Michigan, 23 points; Missouri, 22 points; Kentucky, 17 points; and

Georgia, 15 points slower than normal. Wet conditions throughout the season have delayed progress. Emerged plants were in fair to good condition.

SMALL GRAINS: Winter wheat was in fair to mostly good condition in all major producing States. Heading was underway in all areas. In the 15 major producing States, heading was 84% complete, well ahead of last year's 68%. Many fields were turning color and harvesting was underway in southern areas. Of the 15 major States, California harvest was 8% finished, Oklahoma was 5% completed, and Texas 9% finished. Harvesting was in full swing in Arizona.

Spring wheat seeding was nearing completion and 91% of the acreage had emerged, compared with 85% last year. Progress ranged from 85% complete in Montana to 100% in South Dakota. Most growing areas received beneficial rains during the week, but more is needed.

COTTON: Cotton planting was 88% finished in the 14 major producing States, ahead of last year's 80%. Squaring was underway on 10% of the acreage, compared to 8% a year earlier. Planting in Texas was delayed by wet fields. Severe hail storms damaged some stands on the High Plains of Texas.

OTHER CROPS: Grain sorghum planting advanced to 54% complete in the seven major producing States, 4 points behind last year and 2 points behind average. Progress was 10 points behind average in Kansas, Missouri, and Nebraska, but 15 points ahead of average in Oklahoma. In Texas, 90% of the crop was planted, 27% was headed, and 6% was turning color.

Rice seeding neared completion and 87% of the acreage had emerged, 2 points behind last year.

Peanut planting neared completion, and early planted fields were blooming. Plants were in fair to good condition.

FRUITS AND NUTS: Apple trees were in full bloom or past full bloom in the Lake States through New England. Orchards were in fair to good condition. Peach harvesting became more active in the South and reached northward into Tennessee and South Carolina.

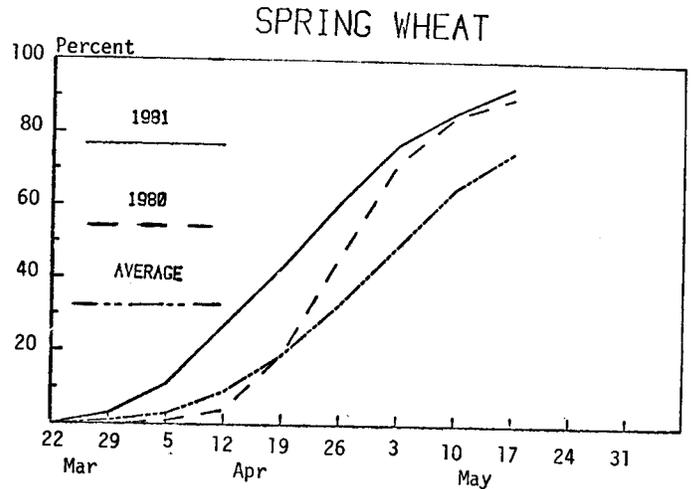
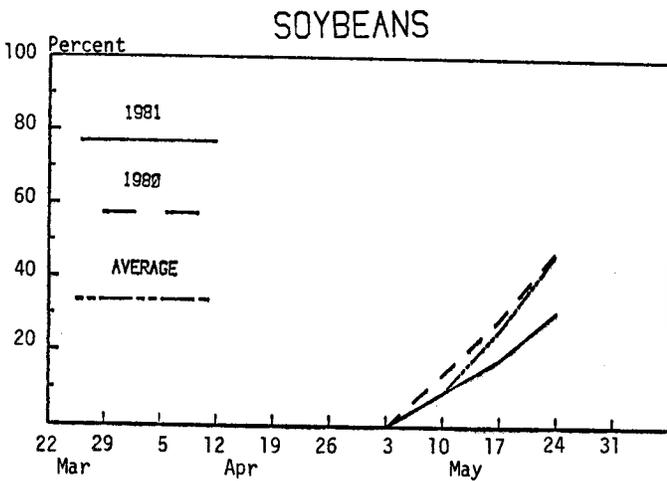
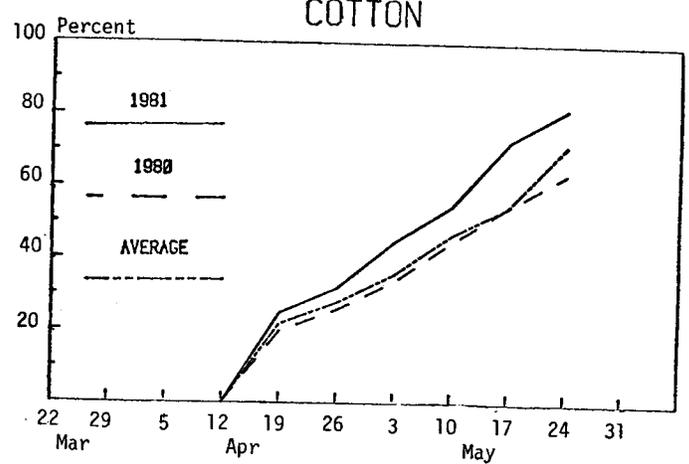
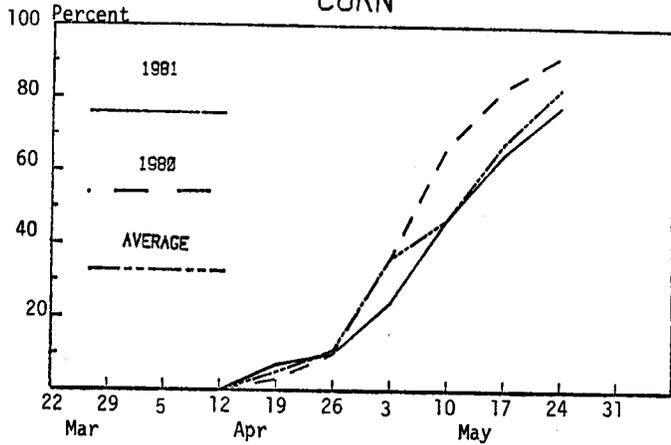
Rain improved the condition of Florida's citrus groves. Irrigation was stopped in a few areas. New crop fruit progressed well. The Valencia orange harvest was slowed by rain. Arizona growers harvested Valencia oranges, grapefruit, and grapes. In California, growers harvested record volumes of Haas avocados. Grapes, nectarines, peaches, and plums were also harvested.

VEGETABLES: Growers in northern production areas continued to plant vegetables and were harvesting early vegetables. Florida vegetable shipments decreased 4% from the previous week. Volume declined for snap beans, cabbage, cucumbers, escarole, lettuce, parsley, and squash. Substantial rainfall fell on growing regions of Florida, alleviating the dry conditions. However, more rain is needed.

California vegetable harvest was seasonally active, with asparagus, snap beans, broccoli, cauliflower, lettuce, and tomato harvest underway. Strawberry picking was active on the South Coast, with a heavy volume going to processors.

PASTURES AND LIVESTOCK: Recent rains improved pastures and ranges in nearly all areas of the Nation. Pastures rated good to excellent in the Corn Belt, poor to fair in parts of the Southwest, and fair to mostly good elsewhere. Movement of herds to summer pastures continued.

U. S. CROP PLANTING PROGRESS



CROP PROGRESS
FOR WEEK ENDING MAY 31, 1981

WINTER WHEAT % HEADED			WINTER WHEAT % HARVESTED			CORN % PLANTED			SOYBEAN % PLANTED						
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.				
CALF	100	100	NA	CALF	8	5	NA	COLO	91	76	89	ALA	57	53	60
COLO	69	2	33	COLO	0	0	0	GA	100	100	100	ARK	26	24	37
IDA	8	20	8	IDA	0	0	0	ILL	87	100	94	GA	50	59	65
ILL	94	96	89	ILL	0	0	0	IND	45	96	90	ILL	36	90	75
IND	75	60	90	IND	0	0	0	IOWA	99	100	97	IND	10	75	70
KANS	99	80	90	KANS	0	0	NA	KANS	80	85	90	IOWA	85	91	87
MO	100	90	90	MO	0	0	0	KY	84	97	84	KANS	20	40	30
MONT	5	10	10	MONT	0	0	0	MICH	85	90	90	KY	22	46	39
NEBR	90	65	55	NEBR	0	0	0	MINN	98	95	94	LA	63	37	60
OHIO	55	40	60	OHIO	0	0	0	MO	80	99	80	MICH	40	65	63
OKLA	100	100	100	OKLA	5	0	0	NEBR	95	98	95	MINN	86	86	82
OREG	86	74	NA	OREG	0	0	NA	N C	100	100	100	MISS	46	43	49
S DAK	71	52	26	S DAK	0	0	0	OHIO	60	95	90	MO	29	74	51
TEX	99	85	NA	TEX	9	2	4	PA	85	81	81	NEBR	60	75	60
WASH	45	22	30	WASH	0	0	0	S DAK	92	90	84	N C	55	60	58
15 STATES	84	68	NA	15 STATES	2	0	NA	VA	95	88	91	OHIO	20	70	75
EXCL. STATES WITH NA	81	64	70	EXCL. STATES WITH NA	3	0	1	WIS	98	99	85	S C	48	57	57
								17 STATES	87	96	92	TENN	31	40	40
												18 STATES	46	67	64

THESE 15 STATES PRODUCED 88% OF THE 1980 WINTER WHEAT CROP. THESE 15 STATES PRODUCED 88% OF THE 1980 WINTER WHEAT CROP.

THESE 17 STATES PRODUCED 93% OF THE 1980 CORN CROP.

THESE 18 STATES PRODUCED 95% OF THE 1980 SOYBEAN CROP.

NA - NOT AVAILABLE

NA - NOT AVAILABLE

CROP PROGRESS
FOR WEEK ENDING MAY 31, 1981

SPRING WHEAT % EMERGED				RICE % EMERGED			SORGHUM % PLANTED				
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
IDA	98	99	80	ARK	89	88	NA	COLO	46	11	36
MINN	98	90	88	CALF	63	79	NA	KANS	20	30	30
MONT	85	85	NA	LA	95	90	95	MO	41	75	51
N D	87	76	72	MISS	96	87	87	NEBR	55	80	65
S DAK	100	100	NA	TEX	95	100	NA	OKLA	60	30	45
5 STATES	91	85	NA	5 STATES	87	89	NA	S DAK	45	50	41
EXCL. STATES WITH NA	91	82	77	EXCL. STATES WITH NA	95	89	93	TEX	90	80	83
								7 STATES	54	58	56

THESE 5 STATES PRODUCED 92%
OF THE 1980 SPRING WHEAT CROP.

THESE 5 STATES PRODUCED 98%
OF THE 1980 RICE CROP.

THESE 7 STATES PRODUCED 92%
OF THE 1980 SORGHUM CROP.

NA - NOT AVAILABLE

NA - NOT AVAILABLE

COTTON % PLANTED				COTTON % SQUARING			
	1981	1980	AVG.		1981	1980	AVG.
ALA	98	97	97	ALA	1	1	1
ARIZ	99	99	99	ARIZ	30	25	28
ARK	100	99	96	ARK	0	0	NA
CALF	100	100	NA	CALF	0	0	NA
GA	100	100	100	GA	13	11	19
LA	96	83	95	LA	0	0	0
MISS	99	98	98	MISS	1	0	3
MO	100	100	96	MO	0	0	0
N MEX	99	98	98	N MEX	0	0	0
N C	100	100	99	N C	0	0	0
OKLA	45	20	40	OKLA	0	0	0
S C	100	100	100	S C	0	0	0
TENN	99	99	95	TENN	0	0	0
TEX	83	72	76	TEX	16	13	NA
14 STATES	88	80	NA	14 STATES	10	8	NA
EXCL. STATES WITH NA	86	78	81	EXCL. STATES WITH NA	5	4	6

THESE 14 STATES PRODUCED 99%
OF THE 1980 COTTON CROP.

THESE 14 STATES PRODUCED 99%
OF THE 1980 COTTON CROP.

NA - NOT AVAILABLE

NA - NOT AVAILABLE

NATIONAL WEATHER SUMMARY
(Continued from page 1)

SUNDAY...A cold front continued to produce showers or thunderstorms from Missouri and Arkansas to northern Georgia and the Carolinas. Scattered storms also fell over the Florida Peninsula. Showers and thundershowers continued over eastern Colorado and rain showers moved through the Dakotas into Minnesota.

State Summaries of Weather and Agriculture

ALABAMA: Temperatures near normal. Rainfall 1.00 to 2.00 in. across State with some spots over 3.00 in.

Fieldwork: 4.0 days. Soil moisture adequate. Corn silking 13%. Soybeans 57% planted, 53% 1980, 60% average. Cotton 98% planted, 97% 1980, 97% average. Peanuts 98% planted, 97% 1980, 94% average. Peanuts 1% pegging. Wheat turning 94%, harvested 19%, 16% 1980, 24% average. Sorghum 54% planted, 43% 1980. Hay 30% harvested. Conditions: Corn, peanut, wheat, pasture, livestock, soybeans mostly good; cotton, mostly fair.

ALASKA: Spring rains were prevalent throughout the Rail Belt. Welcomed moisture was kind to small grain fields and improved prospects for growth on hay fields and pastures. Farmers averaged 5 to 7 days that were suitable for fieldwork. Barley fields averaged 70% emerged. Warmer temperatures needed for continued good growth. Commercial potato planting was virtually complete. Soil moisture supplies were mostly adequate. Livestock in good to excellent condition.

Tanana Valley: Mild days and normally cool nights prevailed with temperatures reaching into

the low 80's late in the week. Precipitation ranged from 0.50 to 1.50 in.

Matanuska Valley: Continued mostly mild and relatively dry weather from previous week. Temperatures were above normal.

Kenai Peninsula: Warmer temperatures and light precipitation with cooler readings south. Precipitation was 0.10 in.

Kodiak Island: Wet and slightly warmer conditions continued.

ARIZONA: Unstable air produced showers, thundershowers Statewide. Heaviest amounts central basins, Mogollon Rim, White Mountains, over 1.00 in. some areas. Showers, thundershowers occurred again over weekend. Amounts Desert generally under 0.10 in. Average temperatures 5° below to 6° above normal.

Cotton planting rapidly closing, planting 99% complete. Squaring, flowering increasing. Small grain harvest full swing. Alfalfa haying excellent progress. Sugarbeet harvest full swing. Safflower, corn, sorghum very good progress during week. Lettuce harvest active Cochise County. Harvest most other miscellaneous winter-type ve-

getables completed. Potato, dry onion digging full swing. Harvest cantaloups, watermelons increased. Harvest Valencia oranges, grapefruit good progress. Grape harvest, primarily Perletttes, began during week. Ranges poor to fair. Soil moisture, water supplies short. Cattle fair to good, sheep very good condition.

ARKANSAS: Mild week with plenty of rainfall. Highest temperature 90°, lowest 47°. All departures from normal +2 to -3°. Most rainfall 6.16 in., least 0.43 in.

Soybean planting and other fieldwork delayed. Soybeans 26% planted, 24% 1980, 37% average. Emergence 21%. Rice planting virtually complete. Emergence 89%, 88% 1980. Stands on recently planted spring crops spotty. Some replanting will be required for cotton, soybeans and rice. Cotton 89% emerged, 88% 1980. Weed control difficult under current wet conditions. Soil moisture adequate. Three days available for fieldwork. Cattle condition good with adequate forage cover pastures.

CALIFORNIA: An upper level low caused rain and briefly cooled temperatures 25th and 26th. Heaviest rainfall occurred near the northern border and in the Sierra Nevada. High pressure dominated the weather the rest of the week causing temperatures in the Central Valley and along the Coast to average 4 to 6° above normal. Temperatures elsewhere were slightly above normal.

Rice 94% planted, 63% emerged. Compares to 100%, 79% last year. Fields being treated for shrimp, leaf miner and scum. Sugarbeets, field corn doing well. Cotton emergence complete. Small grains doing well, harvest in initial stages. Wheat 8% harvested, 5% last year. Royal Derby apricots harvested. Record volumes Hass avocados, price down, cherry shipments finish June 7. Perlette, Cardinal table grapes picked in Desert, Armking. Royal Blaze nectarines underway. Springcrest Freestone peaches, Red Beaut plums moving. Other area grapefruit, southern lemons moving. Navel oranges experience rind breakdown. Valencias to export. Asparagus volume mostly to processing. Snap bean harvest active. Broccoli fairly heavy supply Central Coast. Cantaloup harvest full swing Imperial Valley, starting Palo Verde Valley. Carrot harvest decreasing Desert, increasing Kern, Salinas. Bushberry picking started San Joaquin Valley. Cauliflower moderate supply. Sweet corn volume peaking Coachella Valley. Lettuce heavy supply Central Coast. Onion shipments nearly finished Imperial Valley, increasing San Joaquin Valley. Spring potato volume moderate, started on Russets. Movement from storage continues Tulelake. Diversion strawberries to processors becoming heavy South Coast. Tomato volume increasing Desert. Watermelon harvest active Imperial Valley. Ranges dry, continue furnish good feed. Water supplies adequate. Movement livestock summer grazing areas continues.

COLORADO: Widespread showers, thunderstorms 25th through 29th. Most precipitation east of the Divide. Rainfall amounts ranged from 0.33 in. Colorado Basin to 1.50 in. Arkansas Basin. Temperatures averaged 2 to 4° above normal.

Winter wheat jointed 93%, 70% 1980, 82% average; headed 69%, 2% 1980, 33% average. Barley headed 11%, 0% 1980 and average. Spring wheat seeded 97%, 94% 1980. Corn seeded 91%, 76% 1980, 89% average; emerged 76%, 39% 1980, 61% average. Sorghum seeded 46%, 11% 1980, 36% average; emerged 23%, 8% 1980, 24% average. Dry beans seeded 28%, 10% 1980, 15% average; emerged 13%, 1% 1980, 5% average. Fall potatoes seeded 98%, 71% 1980, 81% average; emerged 12%, 20% 1980, 17% average. Summer potatoes seeded 95%, 93% 1980 and average; emerged 87%, 72% 1980, 78% average. Sugarbeets thinned 28%, 8% 1980, 15% average. Alfalfa 1st cutting 13%, 0% 1980 and average. Livestock good condition. Four days suitable for fieldwork.

FLORIDA: Substantial rains, the first this spring for many sections, fell over the State, 26th and 27th. Rainfall amounts central, south averaged between 1.00 and 2.00 in. with spotty amounts excess of 3.00 in. Additional rains of 0.50 to 1.00 in. fell in afternoon thundershowers in a few sections interior, far south, southeast, 28th, 29th. Tropical moisture slowly increased first of week. A persistent dry, high pressure pattern was broken by midweek. An upper air disturbance and weak surface trough ripped across the State. The dry, high pressure pattern slowly reestablished itself late week and continued through weekend. Widely scattered, late afternoon thundershowers continued interior south, weekend, moving into interior central sections afternoon of 31st. Rain amounts in these showers varied from less than 0.10 in. up to nearly 3.00 in. in a few spots. Temperatures averaged near to slightly above normal.

Soil moisture very short north, short other areas. Scattered rains over the State helpful, more needed. Irrigated corn, tobacco fair to good condition. All dry land crops poor condition. Peanut planting nearing completion. Soybean planting being delayed by dry soils. Sugarcane fair to good condition. Small grain harvest active. Peach harvest continues. Late peaches, nectarines need moisture to insure proper sizing. Pastures most areas began to green from timely mid and late week rains. Some upper northern Peninsula areas, however, received only 0.50 in. or less of rain; severe drought conditions continue this area. Some fertilization of pastures was underway central areas, following rains. Cattle condition shows improvement overall. Mostly fair to good, but some herds rated poor, Upper Peninsula. Citrus improved with two days rain. These rains helped break two months drought. Some irrigation stopped. New crop fruit progressing; new crop fruit droppage generally abated. Valencia harvest slowed by rain last week. Substantial rains fell on vegetable areas when a weak trough moved over the State at midweek. Rainfall averaged 1.00 to 3.00 in. with up to 6.00 in. locally. A few sections had additional rains, 28th, 29th skies were cloudy to partly cloudy; winds moderate. Temperatures averaged near to slightly above normal. Total shipments down 4% from previous week. Harvest gained eggplant, okra and radishes. Supplies about steady carrots, celery, sweet corn, peppers, potatoes, southern peas, tomatoes and watermelons. Volume declined snap beans, cabbage, chinese cabbage, cucumbers, escarole, lettuce, parsley and squash. Watermelon harvest very active. Quality very good. Seasonal decline expected for most crops except watermelons, sweet corn, eggplant.

GEORGIA: Wettest week in recent months for nearly all of State. Rainfall during midweek averaged around 2.00 in. northwest third and 1.00 in. elsewhere. Local amounts ranged from 5.00 to 6.00 in. mountains to 0.25 in. east central. Temperatures averaged 1 to 3° below normal. Rainfall 30th and 31st averaged about 0.50 in. northern third with no significant rain elsewhere. Local amounts near 5.00 in. near Augusta. Temperatures well above normal.

Soil moisture short to adequate. Averaged 5 days suitable for fieldwork, haying, planting, spraying. Corn fair to good condition, 18% silked, last year 11%. Tobacco fair to good condition, applying sucker control. Cotton mostly fair to good condition, 13% squaring, 11% last year, 19% average. Peanuts fair to good condition, 11% blooming, 10% last year, 23% average, pegging 3%, none last year, 4% average, spraying for thrips. Soybeans fair to good condition, 50% planted, 59% last year, average 65%. Sorghum 49% planted, this year and last year, average 51%. Wheat 30% harvested, 17% last year, 35% average. Hay crops

fair to good condition. Peaches 9% harvested, 7% last year, 16% average. Peaches and apples, condition fair to mostly good. Pastures and cattle fair to good. Hogs fair to mostly good.

HAWAII: Favorable weather for crop growth continues. Most crop areas dry. Rains in some sections would be helpful. Crop conditions fair to good with slightly heavier irrigation. Vegetables: supplies adequate. Chinese and head cabbage heavy. Cucumbers declining. Bananas: supplies light. Papayas: harvest moderate. Weather favorable for good fruit development. Pineapples: active. More frequent harvesting as peak period approaching. Sugar: full swing continues as dry weather is making cultivation and harvesting favorable. Pastures: generally fair to good. However, some dry areas need more moisture.

IDAHO: Temperatures averaged slightly above normal in all areas. Precipitation was excessive in portions of east. Flash flood warnings for some creeks and rivers. Average rainfall exceeded 1.00 in. in most of the southeast. Subnormal amounts the north and southwest.

Potatoes planted 68% this year, 82% in 1980 and 90% average. Dry beans 32%, 44%, 62%. Corn 92%, 89%, 94%. Winter wheat headed 8%, 20% 1980 and 18% average. Sugarbeets 50% thinned, 41% in 1980. Potatoes emerged 34%, 42% 1980, 34% average. Emergence levels of all crops behind last year due to cool, wet spring, which delayed planting and slowed growth. Alfalfa hay first cutting 3% complete, 6% 1980. Four days suitable.

ILLINOIS: Temperatures normal to 5° above normal. Precipitation trace in west and central, 5.00 in. in southeast.

Corn planting 87% complete, 100% 1980, 94% average. Soybean planting 36% complete, 90% 1980, 75% average. Winter wheat condition 28% excellent, 67% good, 5% fair; 94% headed, 96% 1980, 89% average; 65% filled, 41% 1980, 55% average; 10% turning yellow, 4% 1980, 16% average. Oats 27% excellent, 70% good, 3% fair; 16% headed, 13% 1980, 22% average. Alfalfa condition 22% excellent, 64% good, 14% fair; first cutting 36% complete, 32% 1980, 38% average. Red clover condition 23% excellent, 72% good, 5% fair; first cutting 15% complete, 24% 1980, 32% average. Pastures 36% excellent, 59% good, 5% fair. Soil moisture 2% short, 47% adequate, 51% surplus. Fieldwork: 3.00 days suitable.

INDIANA: Heavy rains in southwest causing low land flooding and some loss of crops. Evansville 5.63 in. Southwest averaged 3.90 in., northeast 1.00 in., and 1.30 to 2.00 in. elsewhere. Temperatures near normal from 43 to 86°. Humidities high particularly in southwest.

Fieldwork averaged 2 days. Topsoil and subsoil moisture mostly surplus. Corn 45% planted, 1980 96%, average 90%. Corn 45% emerged, 1980 90%, average 75%. Corn 3 in. high, 1980 6 in., average 6 in. Soybeans 10% planted, 1980 75%, average 70%. Soybeans 20% emerged, 1980 50%, 45% average. Wheat fair to mostly good condition. Wheat 75% headed, 1980 60%, average 90%. Oats 10% headed, 1980 5%, average 15%. Alfalfa hay 20% cut first time, 1980 30%, average 40%. Clover hay 15% cut, 1980 15%, average 25%. Pastures good.

IOWA: A mild, dry week. Scattered showers fell mostly over northern and the east central districts the 28th.

Topsoil moisture: 31% short, 60% adequate, 9% surplus. Subsoil moisture: 42% short, 54% adequate, 4% surplus. Corn acreage planted: 99% complete, 1980 100%, normal 97%; corn emerged: 87% emerged, 1980 93%, normal 85%. Soybeans planted: 85% complete, 1980 91%, normal 87%; soybeans emerged: 38% emerged, 1980 45%, normal 48%. First cutting alfalfa hay harvested 28% complete, 1980 5%, normal 18%. Fieldwork: 4.9 days suitable.

Crop conditions: Pasture, winter wheat, alfalfa hay, clover, oats, corn and soybeans mostly good. Livestock good condition.

KANSAS: Precipitation 0.50 in. to over 1.50 in. Heavier amounts southeast much as 4.27 in. Temperatures 67 to 71°, 1° below normal southeast 2 to 4° above normal northern two-thirds State.

Extent wheat freeze damage still uncertain, effects partially masked by cool, wet weather. Hail southwest and south central areas thinned stands that escaped frost. Some drought-stressed fields ready for harvest south central. Rains provide good moisture but delay planting corn, sorghum and soybeans. Range and pasture conditions showing rapid improvement. Wheat headed 99%, 80% 1980, 90% average. Wheat turning color 20%, 0% 1980, 5% average. Corn planted 80%, 85% 1980, 90% average. Sorghum planted 20%, 30% 1980, 30% average. Soybeans planted 20%, 40% 1980, 30% average.

KENTUCKY: Temperatures averaged around 2° above normal with substantial rains in most locations. Rainfall averaged 1.50 to 2.00 in. with localized amounts of more than 6.00 in. near the Ohio River in the west.

Soil moisture mostly surplus in west, adequate to surplus elsewhere. Flooding has occurred in river bottoms. Corn 84% planted, 97% last year, 84% average. Soybeans 22% planted, 46% last year, 39% average. Some replanting of corn and soybeans expected. Tobacco 42% set, ahead of last year and average. Plants ready to set as soon as fields dry. Barley ripe. Wheat lodging in many counties but prospects continue good. Pastures good to excellent. Cut hay damaged by excessive rains.

LOUISIANA: Rainfall Statewide. Heaviest 24-hour total 4.40 in. Temperatures: normal to 3° above. Extremes: 58 and 94°.

Soil moisture adequate. Days suitable: 4.6. Corn silked 42%, 14% 1980, dough stage 18%, 3% 1980, condition good. Rice planted 99%, 94% 1980, 98% average, emerged 95%, 90% 1980, 95% average, condition fair to good. Cotton planted 96%, 83% 1980, 95% average, emerged 87%, 69% 1980, 85% average, condition fair to good. Soybeans planted 63%, 37% 1980, 60% average, emerged 40%, 24% 1980, 46% average, condition good. Sorghum planted 87%, 46% 1980, 66% average, emerged 78%, 42% 1980, 55% average, condition good. Sugarcane condition good. Sweetpotatoes transplanted 84%, 64% 1980, 68% average. Condition good. Vegetables fair to good. Wheat harvested 62%, 19% 1980, 36% average. Hay first cutting 65%, 36% 1980. Pastures, livestock fair to good. Peach condition good, harvested 8%, 2% 1980.

MARYLAND AND DELAWARE: Temperatures above normal. Highs upper 70's to low 80's. Lows mid 50's to low 60's. Precipitation averaged 0.75 in.

Crop development good. Small grains all headed. Acreage turned color: Barley 70%, last year 60; oats, 25%; rye, 35%; wheat, 30%. Condition mostly good. Soybean plantings in Delaware and Maryland 50% complete, last year 30%, average 35%. Corn planting in Maryland 95% seeded, last year and average 90%. Delaware's corn done, equal last year, 95% for average. Tobacco 35% transplanted. First cutting alfalfa 75% in both States. Other hay 40% cut in Maryland, 75% in Delaware. Vegetables 80% and over in the ground.

MICHIGAN: Temperatures averaged 1° below normal Upper and 2° above normal Lower. Cooling trend by weekend with scattered frost 30th. Precipitation spotty averaging 0.32 in. Upper and 0.48 in. Lower. Heaviest rainfall extreme southern Lower.

Fieldwork active except southern tier of counties. About 5 days suitable for fieldwork. Northern areas need rain. Some southern areas too wet. Corn 85% planted, 90% last year and normal. Soy-

beans 40% planted, 65% last year, 63% normal. Potatoes 90% planted, 95% last year, 87% normal. Asparagus 55% harvested, 75% last year, 67% normal.

MINNESOTA: Temperatures generally averaged from near normal to a few degrees above normal. Exceptions were scattered locations in northwest and northeast where temperatures were slightly below normal. Precipitation totals were near normal in the north central and west central and central districts, slightly below normal in the northwest and east central districts and over half an inch below normal in the remainder of the State. Precipitation totals were generally less than 1.00 except locally in the west central districts up to 1.28 in.

Many areas of State received good rains at time when very much needed. Only southwest and portions of central did not receive sizable rainfall and crops there starting to dry up. Topsoil moisture rated 16% very short, 17% adequate, 61% short and 6% surplus. Although rains greatly benefited crops, they also promoted weed growth which was not controlled by herbicide applications when soils were dry. Hay fields heavily infested by dandelions. Planted: field corn 98%, 1980 95%, normal 94%; soybeans 86%, 1980 86%, normal 82%; sunflowers 84%, 1980 88%, normal 81%; potatoes 93%, 1980 91%, normal 82%; flax 88%, 1980 83%, normal 77%. Emerged: field corn 83%, 1980 78%, normal 74%; soybeans 43%, 1980 58%, normal 51%; flax 45%, 1980 49%, normal 56%. Jointing: spring wheat 29%, 1980 6%, normal 12%; oats 31%, 1980 6%, normal 12%; barley 21%, 1980 8%, normal 9%; winter wheat 83%, 1980 63%, normal 53%; winter rye 89%, 1980 75%, normal 56%. Heading: spring wheat 1%, 1980 0%, normal 2%; oats 1%, 1980 0%, normal 3%; barley 1%, 1980 0%, normal 1%; winter wheat 21%, 1980 12%, normal 20%; winter rye 40%, 1980 26%, normal 28%.

MISSISSIPPI: Temperatures about 2° above normal. Extremes: 55 and 93°. Upper level disturbance produced rainfall over much of State early in week. Greatest 24-hour rainfall 3.80 in.

Soil moisture adequate. Fieldwork: 2.9 days suitable. Cotton 99% planted, 98% last year and average; 94% to stand, 85% last year, 86% average; 1% squaring, 0% last year, 3% average; condition fair. Soybeans 46% planted, 43% last year, 49% average; 30% to stand, 20% last year. Rice 99% planted, 96% last year and average; 96% to stand, 87% last year and average; condition good to fair. Corn 99% planted, 98% last year and average; 98% to stand, 89% last year; condition good. Winter wheat 82% ripe, 53% last year; 14% harvested, 4% last year, 11% average; condition good. Hay 23% harvested. Percent planted: peanuts 95, sorghum 65, sweetpotatoes 79. Pasture condition good.

MISSOURI: Temperatures averaged near normal. Precipitation was widespread with the heaviest amounts in eastern areas.

Fieldwork: 2.2 days suitable. Corn 80% planted, last year 99%, normal 80%. Grain sorghum 41% planted, last year 75%, normal 51%. Soybeans 29% planted, last year 74%, normal 51%. Wheat 45% coloring, last year 13%, normal 31%. Alfalfa 1st cutting 61% harvested, last year 60%, normal 45%. Condition of winter wheat and pasture fair to good. Topsoil moisture supply adequate to surplus.

MONTANA: Precipitation was moderate to heavy over west, southwest, central and south central with up to 1.00 in. falling in some areas. North central, northeast and southeast received mostly light amounts of rain. Temperatures were warm again and ranged from 2 to 7° above normal. Highest 87° at Baker, lowest 30° at Wisdom.

Topsoil moisture short northeast, adequate to surplus elsewhere. Subsoil moisture short eastern third, adequate elsewhere. Fieldwork: 3.0

days suitable. Winter wheat, spring wheat, barley and oats condition generally good to excellent, except northeast fair to good. Sugarbeet condition good, 5% thinned. Current percent spring crops planted compared with last year and average; corn 75, 80, 75; potatoes 65, 55, 70; dry beans 70, 95, 90. Crops emerged compared with last year; spring wheat 85, 85; barley 85, 90. Winter wheat progress: 50% preboot, 45% boot, 5% headed. Expected yield alfalfa hay good; wild hay fair to good. Range feed supply short eastern third, generally adequate elsewhere.

NEBRASKA: Precipitation: isolated thunderstorms over much of State, amounts varied from trace to 0.50 in. Most activity in southwest and south central areas. Temperatures normal.

Corn planting 95%, 98% last year and 95% normal. Emergence 70%, 85% last year and 75% normal. Sorghum 55% planted, 80% last year and 65% normal. Emerged 25%, behind 45% last year and 35% normal. The first chinch bug hatch was underway. Soybean planting 60% complete, same as normal but behind 75% a year ago. Emergence 25%, 40% last year and 30% normal. Bean leaf beetles causing some concern in eastern fields. Winter wheat mostly fair. Headed 90%, 65% last year and 55% normal. Combined effects of weather and insects resulted in southeast showing poorest conditions. Alfalfa 30% cut, 20% last year and 25% normal. Dry bean field preparation and planting underway. Sugarbeets excellent. Pasture and range feed supplies short to adequate. Cattlemen in northern counties uneasy over short pasture and hay supplies. Livestock gains normal. Topsoil moisture mostly adequate. Subsoil moisture short to adequate. Days suitable: 5.3.

NEVADA: Slow moving frontal system brought abundant precipitation throughout State. Wettest area west central. Temperatures averaged above seasonal normals for week. Extensive clouds kept nighttime temperatures from dropping. Extremes: 96 and 28°.

Crops helped by recent warm, wet weather, especially alfalfa and ranges and pasture. Most all cattle and sheep moved to spring ranges.

NEW ENGLAND: A cold front passing through the region brought significant rainfall. Temperatures were relatively warm the first part of the week, cooling off the last two or three days. Average readings near 60° north, near 70° south.

Fieldwork: 6 days suitable. Over 60% of the potato crop planted in northern Maine, ideal growing conditions reported. Oats 90% planted, some 2 to 4 in. tall. Borderline frosts in cranberry region. No damage reported. Water supplies low. Sweet corn 65% planted. Vegetable growers busy transplanting. Field corn 75% planted, farmers finishing up. Frost damage showing up on orchard fruit. Blueberry fields in full bloom south and central, near full bloom east. Growers bringing in bees to aid pollination. Fertilized hay fields look good, others not so good. About 5% of the hay crop cut. Moisture reported short to adequate, grazing conditions adequate.

NEW JERSEY: Temperatures averaged 4 to 7° above normal. Extremes: 40° at Newton on June 1 and 90° at Hammonton on May 26. Rainfall averaged 0.26 in. north, 0.20 in. central and 0.61 in. south. Heaviest 24-hour total was 1.84 in. at Seabrook May 28. Soil moisture, in percent of field capacity, averaged: 73 north, 59 central and 63 south. Four inch soil temperature today averaged: 66 north, 69 central and 70 south. Total sunshine at Trenton from May 25 to May 31 was 48% of possible hours.

Fieldwork: 6.0 days suitable. Rainfall varied during the period. Irrigation active in some areas. Harvest of early vegetables increasing. Strawberry harvest increasing, apple and peach

sets varied. Many orchards hurt by earlier freeze. Barley coloring. Hay cutting underway. Pasture growth good.

NEW MEXICO: Scattered showers occurred late in week. Average temperatures slightly below normal.

Soil moisture continues in short supply. Weather conditions continued to permit outside activities. Cotton planting mostly complete with only the dryland fields left to be planted. Growth has been slow due to cool nighttime temperatures. Alfalfa fields in good condition. The first cutting complete in the south and is just getting underway in some areas of the north. Corn planting completed in most areas with emerged fields in good condition. Irrigated wheat and barley in good condition with dryland crop in poor condition. Coloring well advanced most areas. Grain sorghum planting progressing. Harvest of Grano onions underway in the Mesilla Valley but growth slowed in the more northern areas due to cool nights. Lettuce harvest complete. Ranges in poor to fair condition and in need of rain. Cattle and sheep in fair to good condition.

NEW YORK: Temperatures above normal, very high early in week. Precipitation variable, generally light.

Corn planting 76% complete, 81% 1980, 75% average. Oats 95% planted, 93% 1980, 93% average. Crop conditions good. Early haying underway. Most vegetable crops off to good start, planting continues. Long Island potatoes growing well. Eastern apple development good. Champlain Valley apple set variable. Pear crop condition generally good.

NORTH CAROLINA: Temperatures: Near normal except 3° above normal in the northern part of the State. Precipitation: 0.33 to 6.41 in. at Smithfield.

Fieldwork: 4.2 days suitable. Soil moisture: 1% very short, 30% short, 58% adequate, 11% surplus. Conditions: Wheat, oats, barley, and rye fair to good; pasture fair to good; tobacco plant beds mostly good; field tobacco mostly good; corn mostly good; cotton mostly fair to good; Irish potatoes mostly good; peaches fair to mostly good; truck crops mostly good. Supplies: Feed grains mostly adequate; fuel supplies mostly adequate. Plantings: Peanuts 99%, 1980 99%, 91% average; sweetpotatoes 49%, 1980 32%, 60% average; sorghum 67%, 1980 54%, 56% average; soybeans 55%, 1980 60%, 58% average; burley tobacco 75%, 1980 57%, 52% average.

NORTH DAKOTA: Temperatures near normal. Northwest and southwest warmest with averages of 59°. North central coolest with average of 54°. Extremes from 88° west central to 32° northeast. Precipitation near normal northeast, central, southwest and southeast. Wettest in central and southeast. Driest in west central and north central. Many areas with 1.00 in. or more.

Scattered showers caused fieldwork delays but further improved soil moisture levels. Crop outlook now generally good. Moisture aided recovery from frost damage and earlier drought. Some western areas still dry. Overall, 19% of State short of topsoil moisture, down from 27 last week and 84 last year. Average short area 43%. Weed control a major activity. Some delays due to winds and showers. An average of 5.1 days suitable for fieldwork. Small grain seeding virtually complete with 95% or more of each crop seeded. Condition mostly good. Percents emerged with last year and average; hard red spring wheat 87, 76, 72; durum wheat 79, 74, 64; barley 86, 73, 71; oats 87, 78, 69. Other crops planted with last year and average: Flax 63, 51, 58; sunflower 64, 52, 67; potatoes 91, 90, 87; corn 74, 69, 70; soybeans 75, 67, 76; dry beans 66, 75, 80.

OHIO: Average temperatures were at or slightly above normal. Average highs were in the low to

mid 70's and average lows were in the mid to upper 50's. Highs were in the low 80's early in the week; lows were in the 40's at most stations. Precipitation amounts were well above normal, from around 0.50 to 3.50 in. Soil temperatures averaged in the low to mid 60's.

The small percentage of corn that has emerged was rated fair to good. Some replanting has occurred. Despite corn planting being so far behind schedule, a large shift to soybeans is not expected unless corn planting is not virtually finished by June 15. Nitrogen fertilizer and atrazine herbicide has been applied to a large percentage of fields intended for corn. Winter wheat was rated good. Many fields were lodged by heavy rains 27th, but this is not yet considered a problem. Cutting of hay is lagging. Corn planted 60%, 95% 1980, 90% average. Soybeans planted 20%, 70% 1980, 75% average. Tobacco transplanted 5%, 10% 1980, 10% average. Corn emerged 25%, 80% 1980. Soybeans emerged 5%, 40% 1980. Potatoes planted 70%, 99% 1980, 95% average. Wheat headed 55%, 40% 1980, 60% average. Days favorable 3.5. Pasture condition good. Soil moisture 36% adequate, 64% surplus.

OKLAHOMA: Temperatures averaged near normal. Rainfall ranged from 0.95 in. west central to 2.19 in. northeast and 2.21 in. southwest.

Wheat harvest slowed by wet weather but will soon be in full swing. Some wind and hail damage reported west central, central and south central localities. Damage as a result of wet weather reported other areas. Wheat soft dough; 85%, 1981; 50% 1980, 65% average. Sorghum planted: 60% 1981, 30% 1980, 45% average. Sorghum up-to-stand: 30% 1981, 15% 1980, 15% average. Cotton planted: 45% 1981, 20% 1980, 40% average. Cotton up-to-stand: 15% 1981, 5% 1980, 15% average. Days suitable for fieldwork: 4.6.

OREGON: Week began wet; precipitation ranging from 1.00 in. along coast and northern Cascades to 0.50 in. in the Willamette Valley, southwestern valleys, high Plateau, and north central areas. About 0.30 in. in south central and northeastern sections. Average temperatures up to 5° above normal.

Soil moisture supplies adequate. Winter wheat condition good; 86% headed compared with 74% last year. Some disease and aphids in wheat and barley. Peppermint growing rapidly. Alfalfa hay harvest started; earlier cut hay was rained on in field. Grass silage harvest continues. Some pear, apple and peach thinning and spraying. Strawberries good; harvest to start next week. Cranberries in bloom. Early potatoes closing rows; late potatoes being planted. Green peas good; harvest to start June 10. Thrip sprays going on onions. Melons slow due to cool weather. Asparagus harvest continuing. Livestock, range and pasture condition good. Recent rains and warmer temperatures greatly improved forage growth.

PENNSYLVANIA: Warm and humid with scattered showers and thunderstorms most of week. Temperatures 2 to 6° above normal and 8° above previous week. Daily maxima mostly 70's and 80's and minima 50's and 60's with extremes 91 and 32°. Rainfall from the frequent but scattered showers and thunderstorms 0.50 in. or less central, north central, and Poconos to 1.50 in. south central mountains, 0.50 to 1.00 in. common elsewhere.

Four days suitable for fieldwork. Moisture adequate. Activities: plowing; discing; spreading manure; cutting rye and grasses for green chop and silage; spraying corn and fruit; making hay; and planting corn, potatoes, and soybeans. Plowing virtually complete, same as last year and average. Soybeans 36% planted, last year 48%.

Potatoes 93% planted compared with 88% last year. Corn 85% planted compared with 81% last year and average. Barley 15% in boot stage and 75% headed, last year 18% in boot and 78% headed. Wheat 34% in boot stage and 45% headed, last year 42% in boot and 46% headed. Feed from pastures mostly average. Hay condition good to fair. First crop alfalfa 22% cut. All apples in full bloom or past.

PUERTO RICO: Island average rainfall 3.20 in. or 1.43 in. above normal. Temperatures averaged 81° on Coasts and 78 to 77° Interior Divisions. Extremes: 94 and 62°.

SOUTH CAROLINA: Temperatures 2 to 4° above normal except mountains, northeast. Low pressure trough brought Statewide rainfall exceeding weekly normal.

Soil moisture generally adequate. Days available for fieldwork: 4.5. Corn fair to good condition, 2% silked, ahead of last year, average. Cotton replanting complete, stands spotty and growing slowly, condition fair. Soybeans 48% planted, 57 year ago and average. Tobacco sucker-ing early, 1% topped, also early; spraying bud-worms, good condition. Peaches good condition; 3% harvested with early variety in Piedmont start-ing, 2 last year, 4 average. All cucumbers fair condition, 16% harvested, 10 last year; snap beans fair to good condition, 17% harvested, 26 last year; tomatoes fair to good condition. Wheat fair to good condition with 9% harvested, 4 year ago, 12 average.

SOUTH DAKOTA: Precipitation over most of the State. Heaviest in northeast and south central, lightest in east central. Temperatures normal. Extremes: 37 and 90°.

Five days suitable. Topsoil moisture adequate northeast, north central, west central, south central and extreme southwest. Critically short east central. Short elsewhere. Major activities row crop planting, branding, and marketing cattle. Average corn height 2 in. Range and pastures in fair condition. Considerable improvement in northern and central areas. Stock water supplies short. Corn planted 92%, 1980 90%, average 84%. Sorghum planted 45%, 1980 50%, average 41%. Flax planted 85%, 1980 84%, average 81%. Soybeans planted 63%, 1980 78%, average 70%. Sunflowers planted 39%, 1980 63%, average 34%. Winter wheat heading 60%, 1980 52%, average 26%. Winter rye heading 71%, 1980 66%, average 46%.

TENNESSEE: A slow moving system moved across the State bringing general rainfall, with heavier amounts in the west. Temperatures were a few degrees above normal.

Fieldwork: 3.1 days suitable. Soil moisture adequate. Corn planting 94% completed, 1980 92%, average 86%. Cotton 99% planted, 1980 99%, average 95%. Soybeans 31% planted, 1980 and average 40%. Tobacco 75% transplanted, 1980 42%, average 63%. Wheat 70% turning color, 1980 42%, average 64%. Wheat 7% ripe, 1980 3%, average 5%. Oats 60% turning color, 37% in 1980, average 50%. Oats 5% ripe, 1980 4%, average 8%. Barley 70% turning color, 1980 52%, average 67%. Barley 15% ripe, 1980 10%, average 16%. Pasture and cattle good. Alfalfa first cutting 83% completed, 1980 87%, average 80%. Early planted snap beans ready to harvest. Picking of early peaches started in some areas.

TEXAS: Weather: Warm unstable air mass over much State during week triggering afternoon, evening thunderstorms. Weekly precipitation around 0.50 to 1.50 in. above normal. Temperatures near normal.

Range and livestock: Range, pasture conditions remained good. Portions of north central, High Plains remained dry, grazing limited. Cattle, other livestock good to excellent condition.

Commercial vegetables: Rio Grande Valley, harvest of onions, tomatoes, cucumbers, peppers, potatoes continued, onions, potatoes virtually complete. Harvest of cantaloups, honeydews, water-melons active. Coastal Bend, watermelon, cucumber harvest steady. Cucumber harvest nearly complete. East Texas, watermelons, tomatoes developing well, harvest beginning. San Antonio-Winter Garden area, activity delayed because of heavy showers. Trans-Pecos region, conditions improved. Cabbage, onions progressing well. Plains condition dry, potatoes, onions, peppers making good progress. Some pepper fields damaged by hail. Peaches continue to make good progress. Harvest of early peaches continued. Pecan producers spraying for casebearer worms. Some worm damage reported.

Crops: Scattered showers, thunderstorms interrupted spring planting, small grain harvest. Panhandle high winds deplete topsoil moisture; southern part of State, some low-lying fields standing in water. Cotton planting slowed. Wet field conditions delayed seeding operations. Severe hail storms High Plains damaged some stands. Blacklands cotton replanted following earlier hail damage up to good stand. Many stands fruiting the Coastal Bend southward. Seedling diseases evident Trans-Pecos because rapid changes in weather. Sorghum beginning to head Blacklands. Coastal Bend excessive moisture cause some unevenness in maturity. Hail damaged some stands High Plains. Reported condition is 31% excellent; 54% good; 13% fair; and 2% poor. Corn fields responding well to extra moisture. Many stands South Central Texas roasting ear stage. Corn beginning to tassel Blacklands. Reported condition is 25% excellent; 61% good; and 14% fair. Wheat harvest interrupted most areas scattered showers, wet field conditions. Blacklands heavy thunderstorms caused lodging some fields. Some stands South Central Texas, High Plains damaged or destroyed by hail. Reported wheat condition Statewide is 14% excellent; 39% good; 36% fair; and 11% poor. Peanut planting some progress. Heavy rains washed out scattered fields Edwards Plateau. Cross-Timbers early fields making slow progress because cool soil temperatures. First cutting alfalfa hay complete most areas. Hay fields, meadows make good progress with additional moisture. Cotton planted 83%, 72% 1980, 76% average. Cotton squaring 16%, 13% 1980. Cotton setting bolls 3%, 7% 1980. Rice planted 100%, 100% 1980, 100% average. Rice emerged 95%, 100% 1980. Sorghum planted 90%, 80% 1980, 83% average. Sorghum headed 27%, 21% 1980. Sorghum turning color 6%, 5% 1980. Wheat headed 99%, 85% 1980. Wheat turning color 65%, 38% 1980. Wheat harvested 9%, 2% 1980, 4% average. Oats harvested 37%, 7% 1980, 19% average. Peanuts planted 39%, 27% 1980, 33% average. Soybeans planted 37%, 26% 1980, 36% average. Sunflowers planted 54%, 32% 1980, 29% average.

UTAH: Recurring periods precipitation most areas. Accumulated amounts moisture ranging from little or none to well over 2.00 in. Average temperatures continued variable, ranging from 3° below normal to 4° above. Soil moisture condition continued to improve.

Another week of rains has kept soil moisture adequate. Fieldwork possible only 3.2 days. Corn planting made very little progress. Small grains making good development under moderate temperatures and good rains. Winter wheat about half headed. Barley 25% headed. Crops mostly good condition, but irrigation water may still be short later in season. Alfalfa hay harvest delayed by rains. Less than 10% cut by week's end. About half cattle and sheep moved to summer ranges.

VIRGINIA: Moderate precipitation midweek, and at the end of the week. Amounts ranged from less than 0.50 to 3.50 in. All areas reported measurable precipitation. Temperatures were 2 to 3° above normal. Highs mostly in the 80's, lows in 50's and 60's.

Soil moisture made great improvement during May and rated 28% short, 65% adequate and 11% surplus by month's end. Days suitable for fieldwork: 3.9. Corn in excellent condition, 95% planted, 88% 1980, 91% average. Soybean planting: 48%, 38% 1980, 32% average. Peanuts 97% seeded, 99% 1980, 92% average. Some poor stands were replanted; the emerged crop in good to excellent condition. Tobacco rated in excellent condition. Some disease problems reported in southwest plant beds. Burley plant supply may be short. Transplanting progress: Flue-cured 94%, 57% 1980, 68% average; fire-cured 58% transplanted, 34% 1980, 47% average; sun-cured 68% done, 18% 1980, 40% average; burley 42% finished, 32% 1980, 9% average. Average beginning date for small grain harvest expected to be next week; oats should begin early next week followed by barley late in the week. Wheat will be slightly later and average date expected about June 17. Storms have produced lodging in the past two weeks, but the crop looks good in all but the driest counties. Hay not as abundant as a year ago, but hay and pasture rate good to excellent except poor in western areas.

WASHINGTON: West: Temperatures slightly above normal with the Puget Sound area the warmest at 2 to 4° above the average. The north coast ranged from 0.20 to 0.60 in. above the normal precipitation values with the remainder of west near normal. Fieldwork was able to resume due to drier conditions. Vegetable planting continued. Silage corn up in several areas while planting resumed in those areas that had wet fields. The harvest of radishes and rhubarb continued. Tulip bulb digging will get underway next week. Strawberry production has begun in several areas. Dairymen continued to cut silage and green chop. Soil moisture range from adequate to good. Pasture and hay feed supplies were adequate.

East: Average temperatures were very close to just slightly above normal. But precipitation ranged from 0.10 to 0.20 in. above normal. Wheat and barley conditions range from average to above average. Striped rust reports continued to surface last week which is severe in some varieties. Alfalfa cutting continued. Hop tying continued as did asparagus harvest. The first spraying for cooling moth were being applied in Yakima County. Soil moisture in the dryland areas was estimated adequate to good. Range and pasture feed was mostly adequate throughout the eastside.

WEST VIRGINIA: Temperatures averaged 2° above normal. High 92°, low 37°. Precipitation well above normal, ranging from 3.09 to 0.50 in.

Soil moisture adequate to surplus. Days worked 2.8. Main activities: Corn planting, hay harvesting, gardens. Wheat good to fair, 23% pre-jointed, 48% jointed, 29% heading, 18%, 43% and 39% respectively in 1980. Barley good to fair, 13% pre-jointed, 38% jointed, 49% heading, 18%, 17%, 65% respectively in 1980. Oats good to fair, 94%

planted, 92% emerged, 93% and 81% in 1980. Corn fair to good, 74% planted, 49% emerged, 70% and 38% in 1980. Tobacco fair, 100% planted, 97% emerged and 11% set, 100%, 95% and 5% in 1980. Hay good to fair, 11% harvested. Pasture good to fair condition. Fruit in fair condition. Gardens fair to good. Potatoes good to fair, 94% planted and 83% emerged. Seasonally warm nights have improved conditions of most crops.

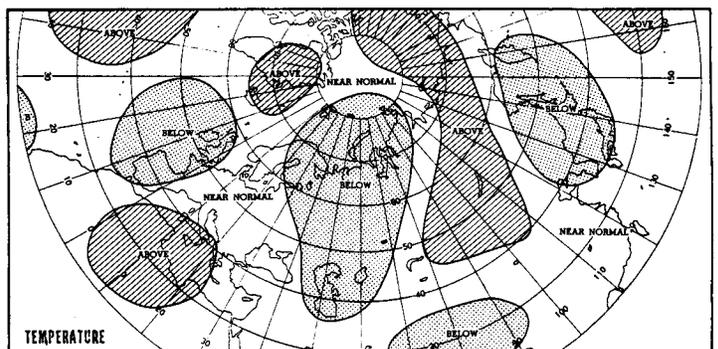
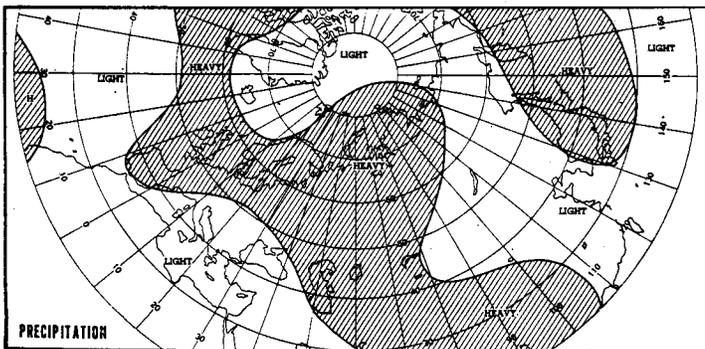
WISCONSIN: Temperatures below normal north but above other areas. Highs 70's and 80's except some 60's north. Lows 40's and 50's except some 30's north. Extremes: 83 and 34°. Rainfall continued below normal with all areas receiving 0.50 in. or less. North had showers 28th, south 29th. Some isolated heavy thunderstorms southeast late 29th.

Fieldwork: 6.0 days suitable. Most planting completed. Corn for grain 98% planted, 1980 99%, average 85%. Soybeans 75% planted, 1980 80%, average 53%. Early corn doing well, late corn and soybeans need moisture for better germination. Early oats looks good, late oats needs rain. First cutting hay harvest underway south and west. Growth of first crop below normal due to winter-kill and dry cool weather in May. Some poor hay fields will be plowed up and planted to silage corn. Alfalfa weevil tip feeding on plants increasing southern and western areas. Lot of dan-deliions in hay fields. Pasture condition below normal due to lack of moisture in May. Potato planting nearing completion. Planting of late peas, sweet corn, snap beans, and other vegetable crops continuing. Tobacco transplanting to start soon but fields need moisture. Fruit trees in bloom north and east. Topsoil moisture 63% short, 37% adequate. Driest south and east but all areas could use soaking rain. Subsoil moisture mostly adequate.

WYOMING: Most stations above normal temperatures. Highest temperature in Big Horn drainage with 88°. Lowest temperatures in Snake, Belle Fourche, and Upper Platte drainages with 32°. About half the reporting stations above normal precipitation except for Wind River drainage. Most precipitation in Belle Fourche with 1.32 in.

Topsoil moisture adequate 93% State, subsoil moisture adequate 67% State. Wet fields slowed fieldwork, average 3 days suitable. Corn planting: 85%; year ago 77%; normal 87%. Corn emerged: 45%; year ago 33%; normal 66%. Potato planting: 55%; year ago 29%; normal 81%. Potatoes emerged: 20%; year ago 3%; normal 33%. Dry beans planting: 15%; year ago 47%; normal 57%. A few emerged. Spring wheat planting: 90%; year ago 95%. Spring wheat emerged 66%; year ago 76%; normal 85%. Barley emerged: 95%; year ago 95%. Most sugarbeets up, 15% crop thinned. Winter wheat prospects good to excellent, 25% acreage headed. Livestock good condition. Range ewes 90% lambled.

EURASIA OUTLOOK FOR JUNE

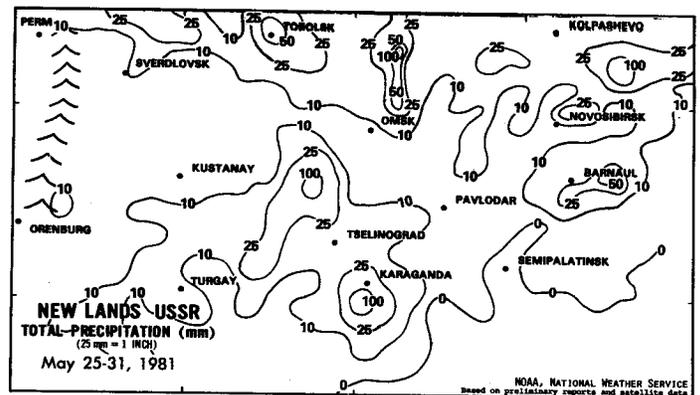
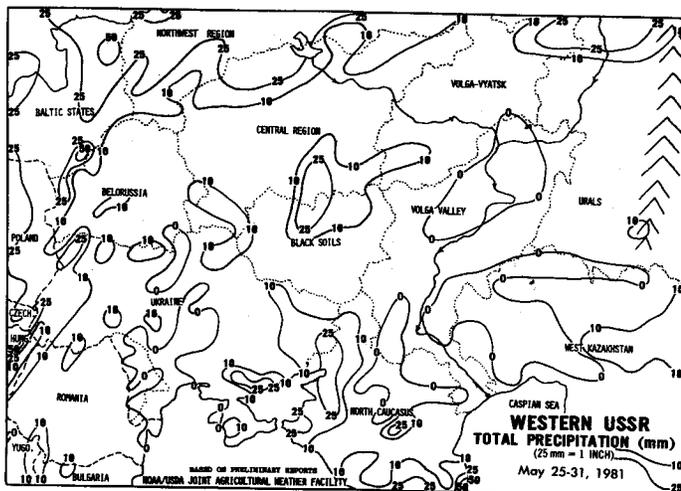


International Weather and Crop Summary

May 25-May 31, 1981

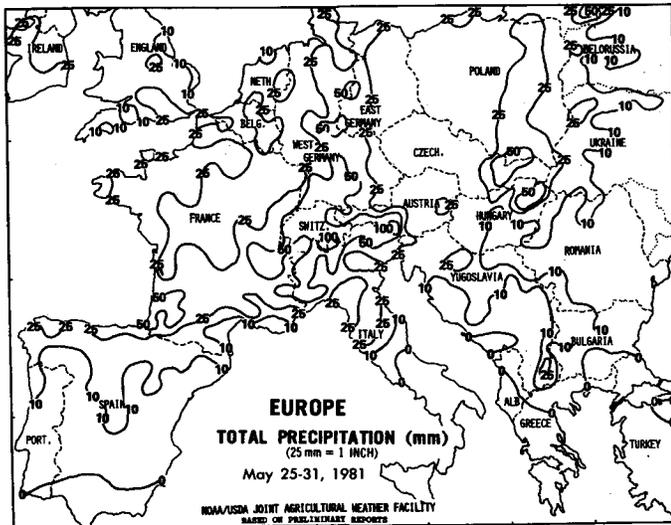
HIGHLIGHTS

- W. USSR:** Continued mostly dry weather permitted almost uninterrupted fieldwork, and warmer conditions accelerated growth. Newly sown crops in the Volga Valley may be a little short of moisture.
- EUROPE:** Conditions are somewhat too damp in northwestern countries.
- CHINA:** Beneficial light rain fell in central Hebei. Heavy rains returned to the south, but little flooding should result.
- SOUTH ASIA:** Premonsoon showers increased in Bangladesh and northeastern India. The monsoon appears to have begun in southern India.
- SOUTH AMERICA:** Favorable harvest weather prevailed in most areas except in Buenos Aires where showers slowed fieldwork. Conditions remain favorable for the wheat crop.
- AUSTRALIA:** Widespread rain improved soil moisture conditions considerably for the winter wheat crop. Heavy rain in some areas may have caused planting delays.
- CANADA:** Soil moisture conditions are favorable for spring grains, except in south-central Saskatchewan, which is still too dry.
- SOUTHEAST ASIA:** The monsoon season is producing ample moisture for agricultural activities.
- MEXICO:** Rainy season advanced into the south and east, benefiting some crops.

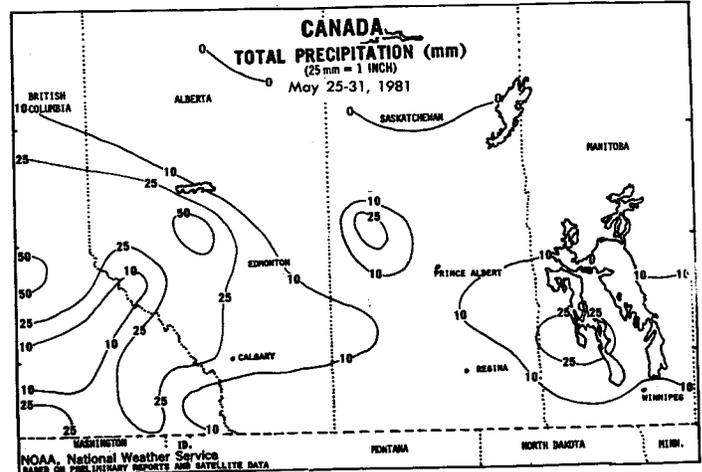


USSR: High pressure has dominated European USSR since about the 12th of May with the resulting fair weather allowing rapid progress in fieldwork. Scattered showers occurred across the region, but more general rainfall was limited to the far west, northern crop areas, and the southeastern winter grain areas. Winter grains should have adequate soil moisture, but newly sown spring grains in parts of the Volga Valley and Chernozem Region may be a little short of moisture as surface soils dry out. Temperatures in this area have risen to just

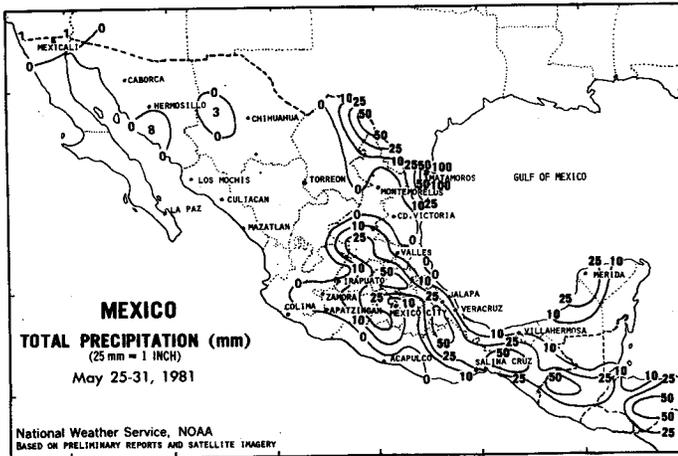
above normal, while in the western portion of the country, conditions were substantially warmer than normal. This will allow crops to develop rapidly. Drier than normal weather has put some stress on newly planted crops, but there is no immediate danger of substantial damage. In the New Lands, persistent showers in the eastern portion improved conditions for germination and early growth of spring grains. However, conditions remain too dry in the vicinity of Pavlodar. Wet weather had hindered sowing in parts of the western New Lands, and rains continued in the Tselinograd area. Nevertheless, the moisture will benefit crops immensely in their early growth.



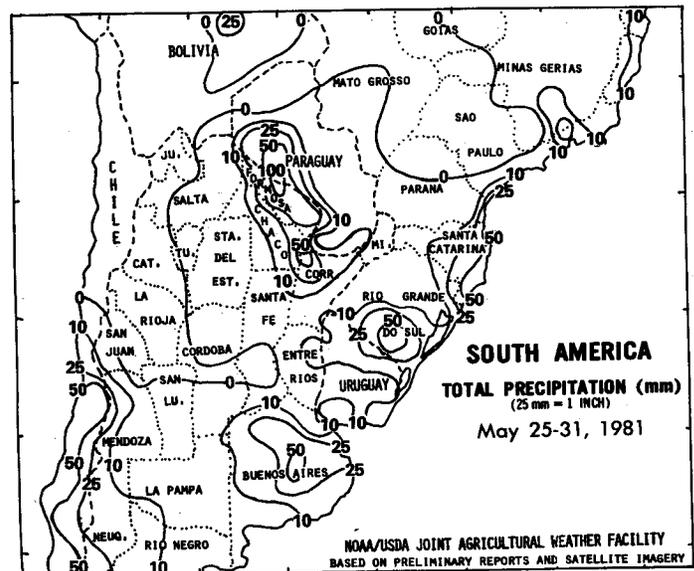
EUROPE: Rainfall increased somewhat in many areas. Conditions in parts of the northwestern countries were somewhat unfavorably wet. French officials expressed concern about potential damage to cereal crops due to the persistent wet weather. Rainfall in the east was variable, with all areas receiving at least some moisture, and above-normal amounts over limited areas were generally beneficial. Fair weather persisted across the south, where the dry season seems to have arrived early. Much of northern Spain received near-normal rainfall, but southern Spain could use more rainfall for its spring-planted crops. Above-normal rains in parts of northern Italy maintained good growing conditions, but may have hampered early wheat harvesting.



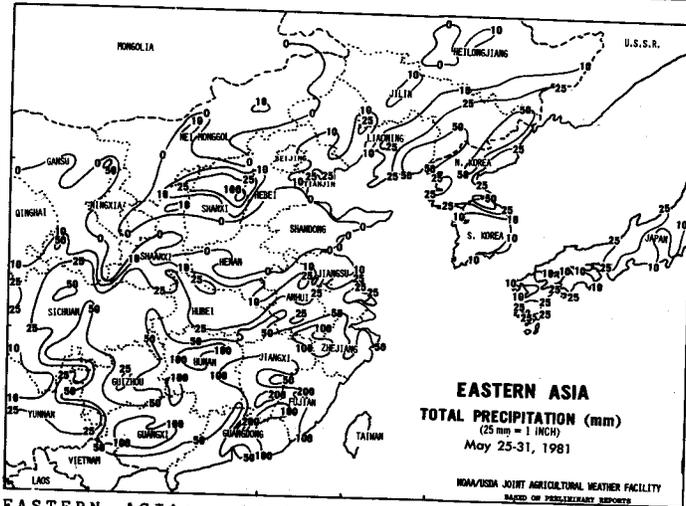
CANADA: Beneficial showers fell in much of the Canadian Prairies where the spring planting season is reaching final stages. In Alberta, soil moisture conditions are favorable for spring growth with the addition of 10 to 20 mm of weekly rainfall, except in extreme southern portions where less than 5 mm were reported. In Saskatchewan, weekly totals were less than 10 mm in most crop areas. Wheat sowing is nearly complete, with most areas reporting generally good germination and emergence. The exception is in south-central Saskatchewan where dry soils have led to spotty germination. Crops are generally rated in fair condition in this area. Further east in Manitoba's wheat area, 10 to 35 mm of timely rain fell, except in extreme southern portions, where weekly amounts were less than 10 mm.



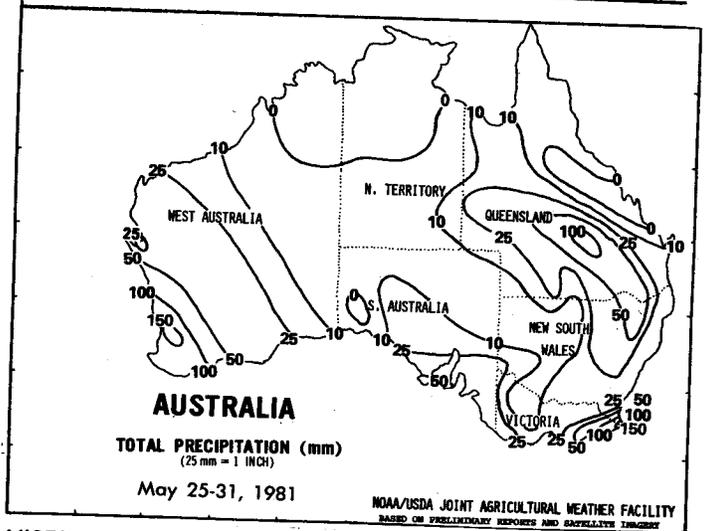
MEXICO: The rainy season developed over central America in mid-May and extended into southern and eastern Mexico by the end of the month. The showers benefited young corn in the eastern part of the southern Plateau's corn belt as well as older corn in the reproductive stage around Matamoros. Dry weather continued to cause stress to some corn in the western southern Plateau and citrus orchards from Montemorelos to Cd. Victoria. Sunny, warm-to-hot conditions over the northwest and north central regions favored development of cotton, soybean, and other irrigated summer crops.



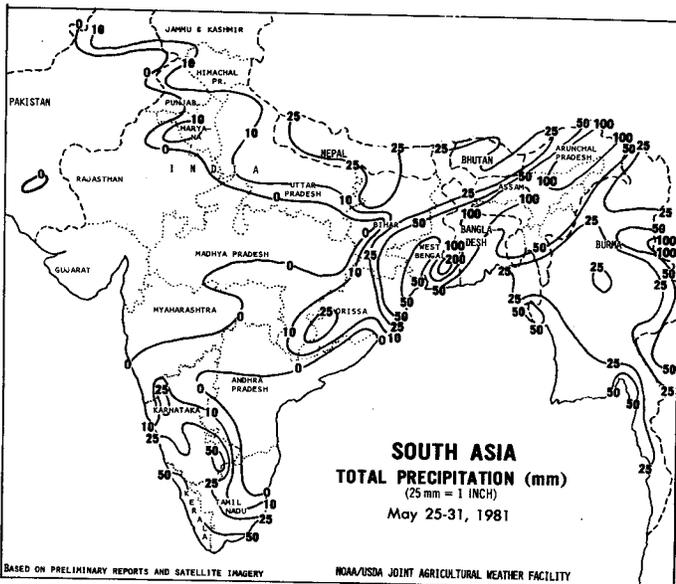
SOUTH AMERICA: Heavy showers produced 25-50 mm of weekly rainfall in the wheat areas of southern Rio Grande do Sul and eastern Santa Catarina, in central Buenos Aires, and in cotton-growing areas of Argentina adjacent to Paraguay. Elsewhere, precipitation was relatively light (less than 10 mm) in most crop areas of Argentina and Brazil. Crop harvests made good progress again this week in Brazil and much of Argentina, but not in Buenos Aires where wet weather slowed fieldwork. Normal crop calendars show wheat planting to continue in Brazil and Argentina through June. Soil moisture reserves are generally favorable for wheat growth. Mild weather prevailed throughout the week.



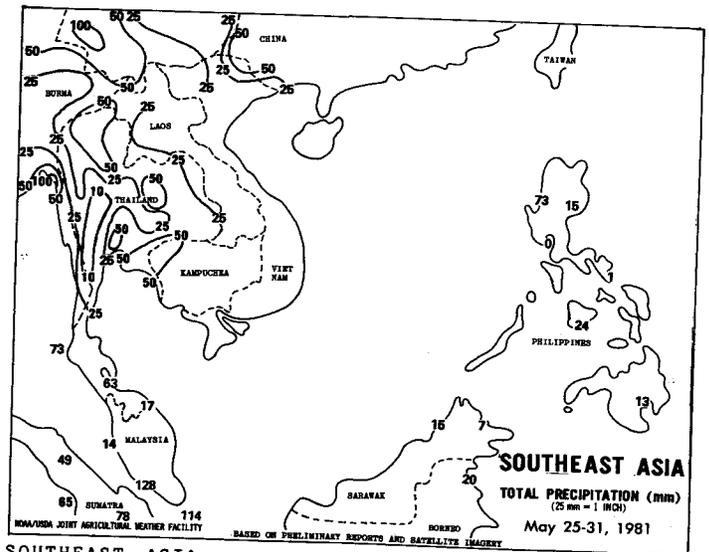
EASTERN ASIA: Light-to-moderate rainfall in central Hebei helped late filling of winter grains. Central portions of the winter grain belt stayed dry, as harvesting got underway about a week early. The harvest in more southerly areas was disrupted by recurring rainfall during the week. Heavier rains returned to areas south of the Yangtze River. Amounts ranged above normal over much of the area, but flooding should not have been common, since rainfall had been relatively light in recent weeks. Conditions in Guangxi remained too wet. In South Korea, most crop areas received very little rainfall. Conditions are becoming unfavorably dry for the rice crop, and irrigation supplies may not be adequate.



AUSTRALIA: Two storms pushed across southern Australia, providing widespread soaking rains to the entire wheat belt. Weekly totals ranged from 20 to 50 mm in nearly all crop areas. These amounts were nearly equivalent to the normal monthly rainfall for May. Weekly rains of 75-150 mm fell in extreme southwestern West Australia and southern Queensland. The heavier rain provided beneficial moisture to the dry soil but the intensity of rainfall may also have had some locally detrimental effects. These include some minor planting delays due to wet fields, and in some areas, extremely heavy rain may have reduced seedling establishment. As a result, some replanting may be necessary. Overall, however, these widespread rains provided much-needed soil moisture for planting and early growth of wheat. The planting season will extend into July.



SOUTH ASIA: Showers increased in Bangladesh and eastern India, and continued across northern India. The monsoon has not yet begun in this area, but this abundant rainfall is a beneficial precursor to its arrival. Monsoonal rainfall activity appears to have begun in southern India about a week early. The rains should advance northward along both coasts of India, while at the same time advancing from the southeast across Burma. (See the supplemental map depicting normal monsoon advance.)



SOUTHEAST ASIA: The monsoonal rain pattern now seems well established in Southeast Asia. Afternoon showers have become a daily occurrence and rainfall amounts are about average for late May. Most agricultural areas benefited from 25-50 mm of weekly rain with higher amounts occurring in northern Thailand. Rainfall was relatively light in extreme western Thailand. Conditions remain favorable for crop growth.

1981 MONSOON SEASON BEGINS



The 1981 southwest monsoon season now appears to be well established in Indochina and southern India. If the normal progression continues it will spread throughout the Indian subcontinent and into Pakistan during the next few weeks (see figure 1).

The accompanying TIROS satellite photograph, taken about 7 pm on July 1, 1981, shows the intense tropical shower activity, typical in the monsoon season, extending from Indochina through the Bay of Bengal, across southern India, and into the Arabian Sea.

This timely onset of the monsoon in southeast Asia, following several weeks of substantial pre-monsoon showers, has provided Thailand and the surrounding countries with excellent soil moisture conditions and reservoir levels substantially above those of a year ago. Pre-monsoon showers have also provided beneficial moisture for rice planting in eastern and southeastern India.

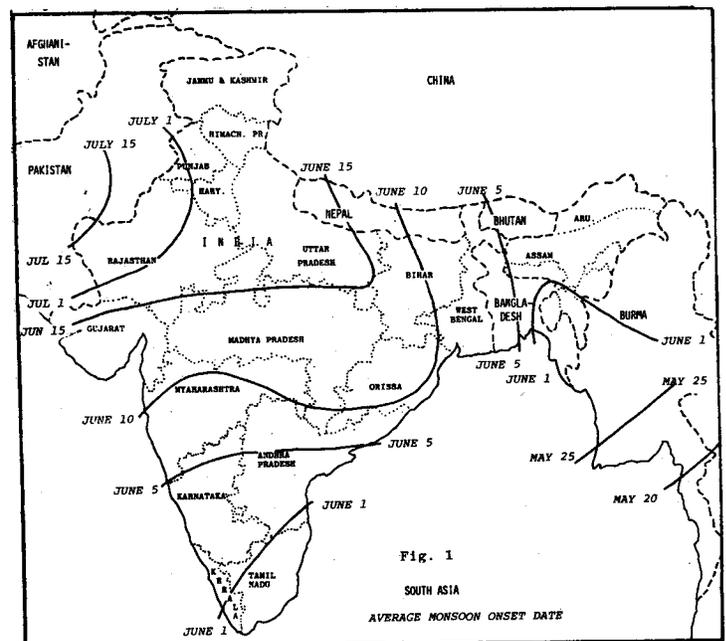


Fig. 1
SOUTH ASIA
AVERAGE MONSOON ONSET DATE

