

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

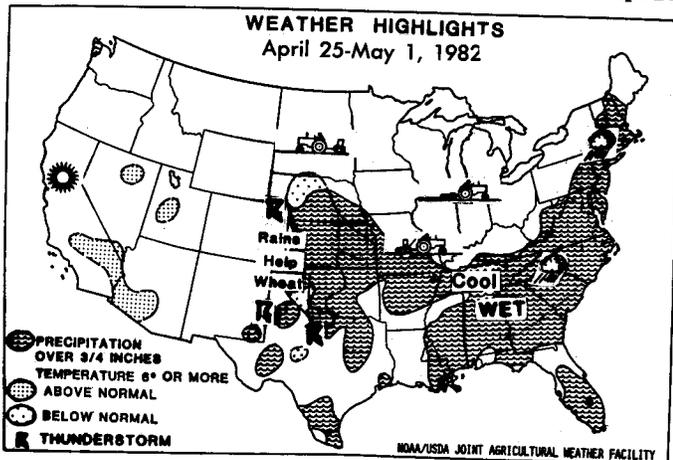
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May 4, 1982

National Weather Summary

April 25-May 1



HIGHLIGHTS: Several days of showers and thunderstorms helped the winter wheat areas of the central and southern Plains--especially in the very dry western portions. Moderate to heavy showers in the Southeast aggravated wet conditions; fieldwork was delayed and plant diseases multiplied. Drier weather in other areas allowed spring fieldwork and planting to progress.

SUNDAY...Thunderstorms over the central Plains brought much-needed moisture to eastern Colorado and western Kansas and then spread eastward, through the Ohio Valley and the South to the Atlantic coast. Hail, heavy rain, and tornadoes plagued much of the South. Early in the day, light showers of rain or snow fell over the high Plains from Nebraska to Montana, and rainshowers spread into Wisconsin. Eastern temperature readings continued to climb--Boston, Mass., reached a record 83°.

MONDAY...Showers and thunderstorms were scattered over the eastern half of the Nation. Nearly all parts of this area received some rain, and much of the area from South Carolina to New England experienced moderate to heavy rain. Some severe weather continued throughout the Southeast. Late in the day, another disturbance moved out of the central Rockies producing showers in the dry area from the Texas Panhandle to western Nebraska. A few showers developed over parts of the northern Rockies.

TUESDAY...Occasional rain and a few thunderstorms continued along the east coast and inland from South Carolina to Maine. Early in the day, light snow fell from western Nebraska into Montana, and later, showers and thunderstorms developed from western Texas to central Nebraska into southern

Montana. Thunderstorms produced hail and high winds through most of this area, and some heavy downpours caused local flooding from south-central Kansas to central Nebraska.

WEDNESDAY...Thunderstorms continued to form over the central Plains, but the system moved slowly eastward. Showers and thunderstorms were occasionally accompanied by high wind and hail from north-eastern Texas to eastern Nebraska and from northern Louisiana to southern Iowa. A few showers fell in the Texas Panhandle, and a cold front brought light showers to the Pacific Northwest.

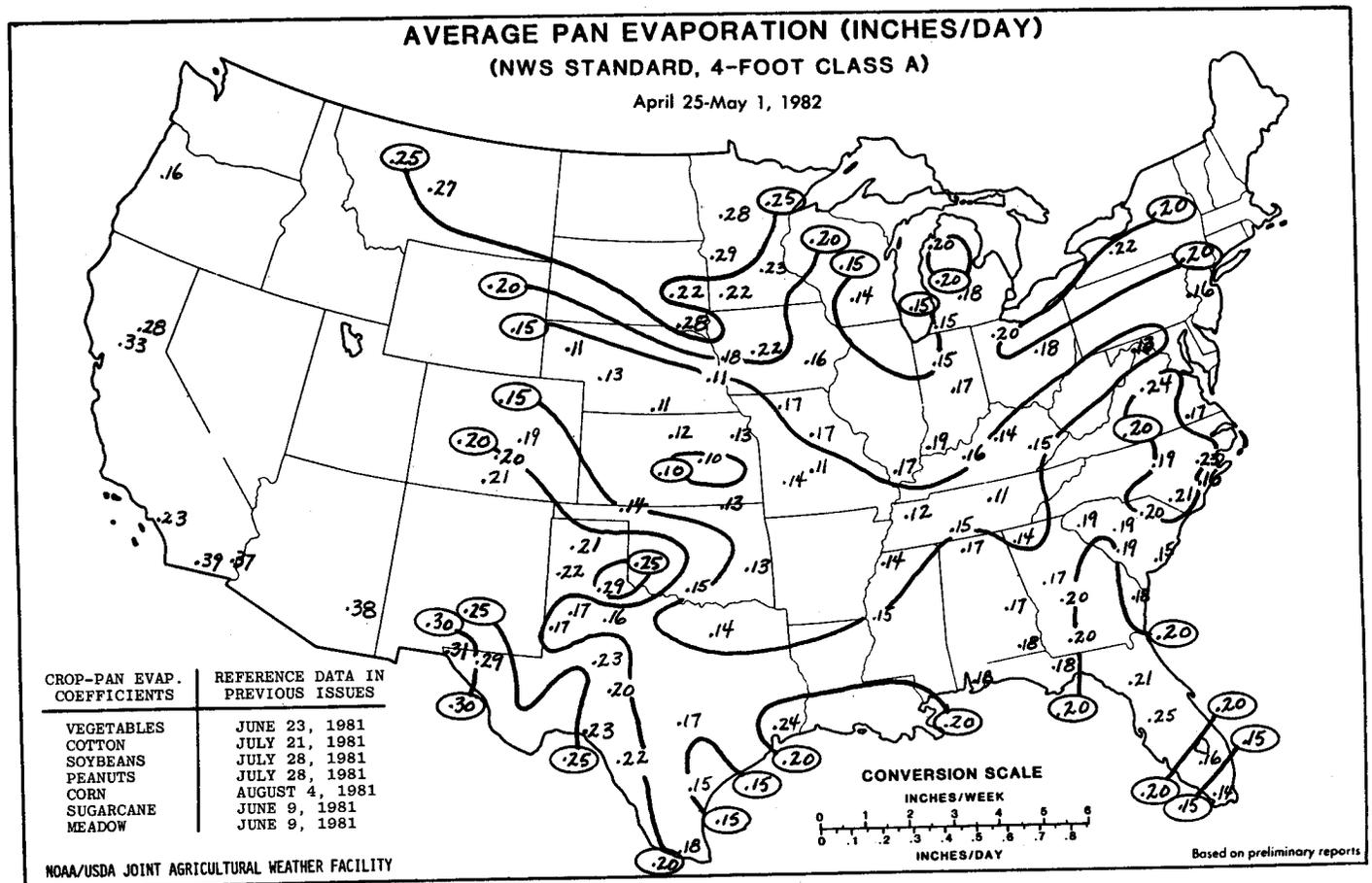
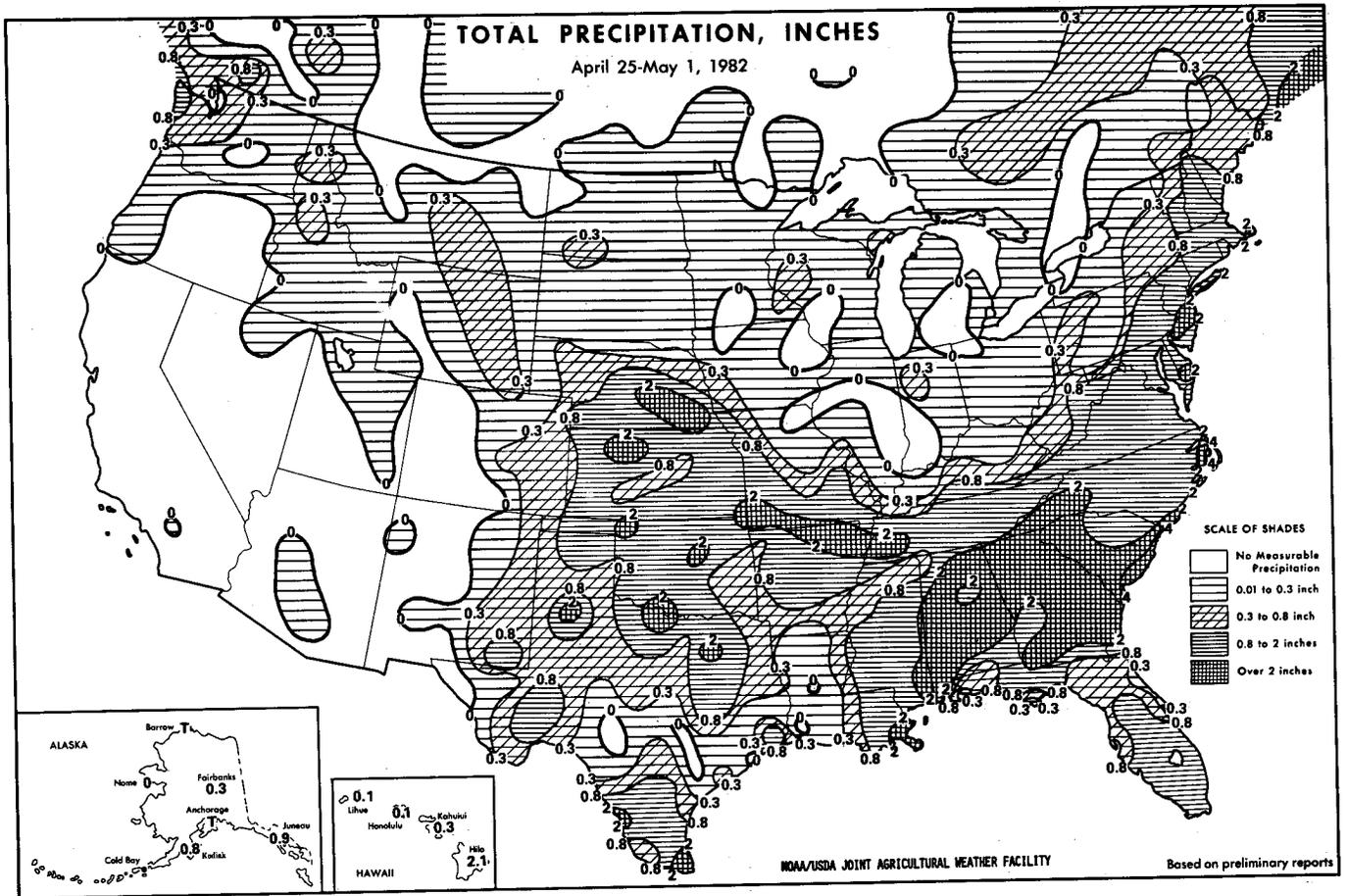
THURSDAY...Showers and scattered thunderstorms spread from the central Mississippi Delta and Tennessee Valley into the middle Ohio Valley. Later, showers and thunderstorms broke out in the western portions of the central Plains and most of the northern Plains. A few showers dampened southern Texas and its southeast coast. Temperatures were mild over most of the Nation.

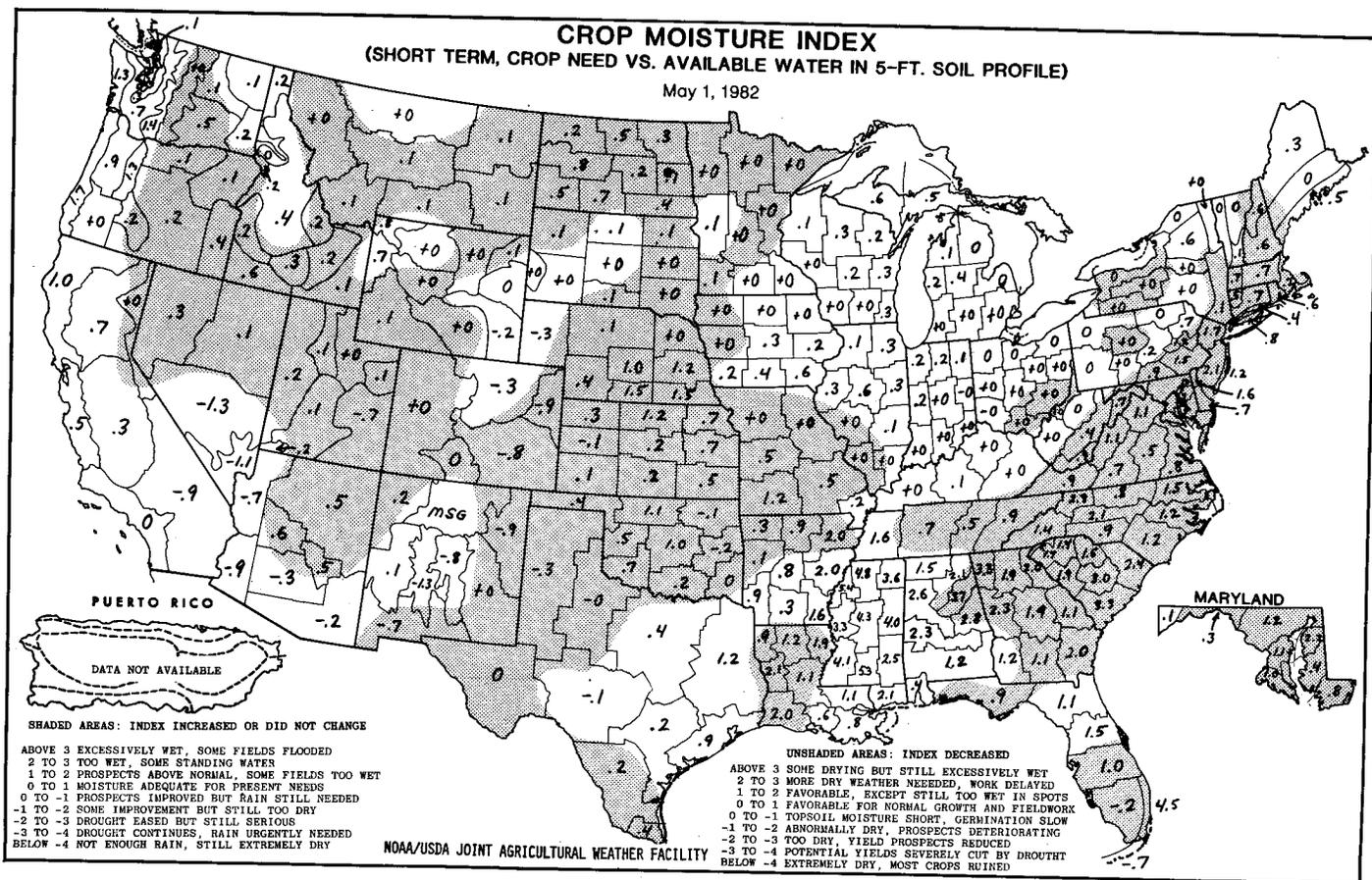
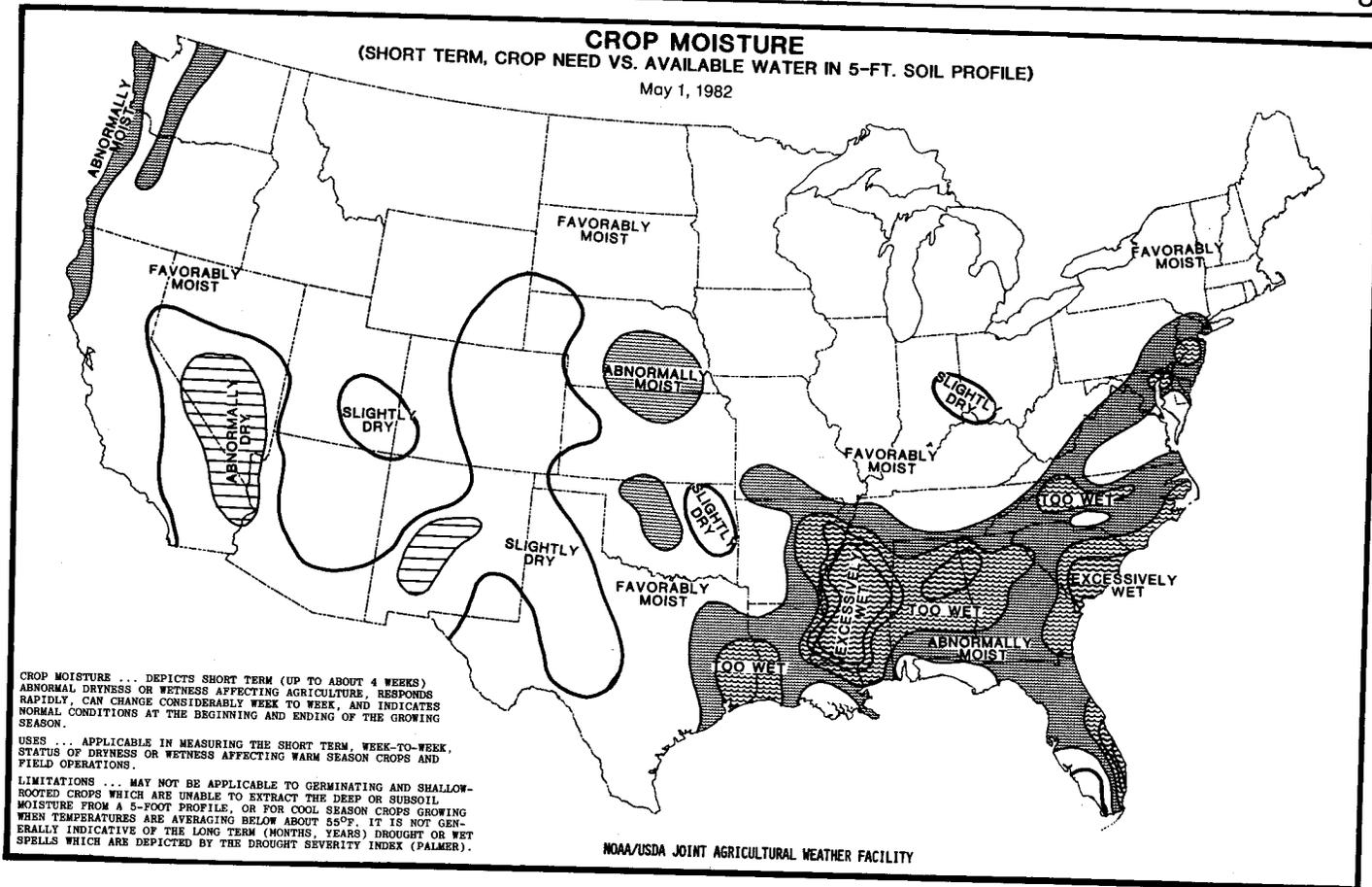
FRIDAY...Thunderstorms began in New Mexico and eastern Colorado and moved across the southern Plains to the lower Mississippi Delta. Some moderate amounts fell in north-central Texas and central Oklahoma. A few light showers fell over the upper Ohio Valley and along the southeastern coast. Mild temperatures continued over most of the Nation, but the northern Rockies were still cool.

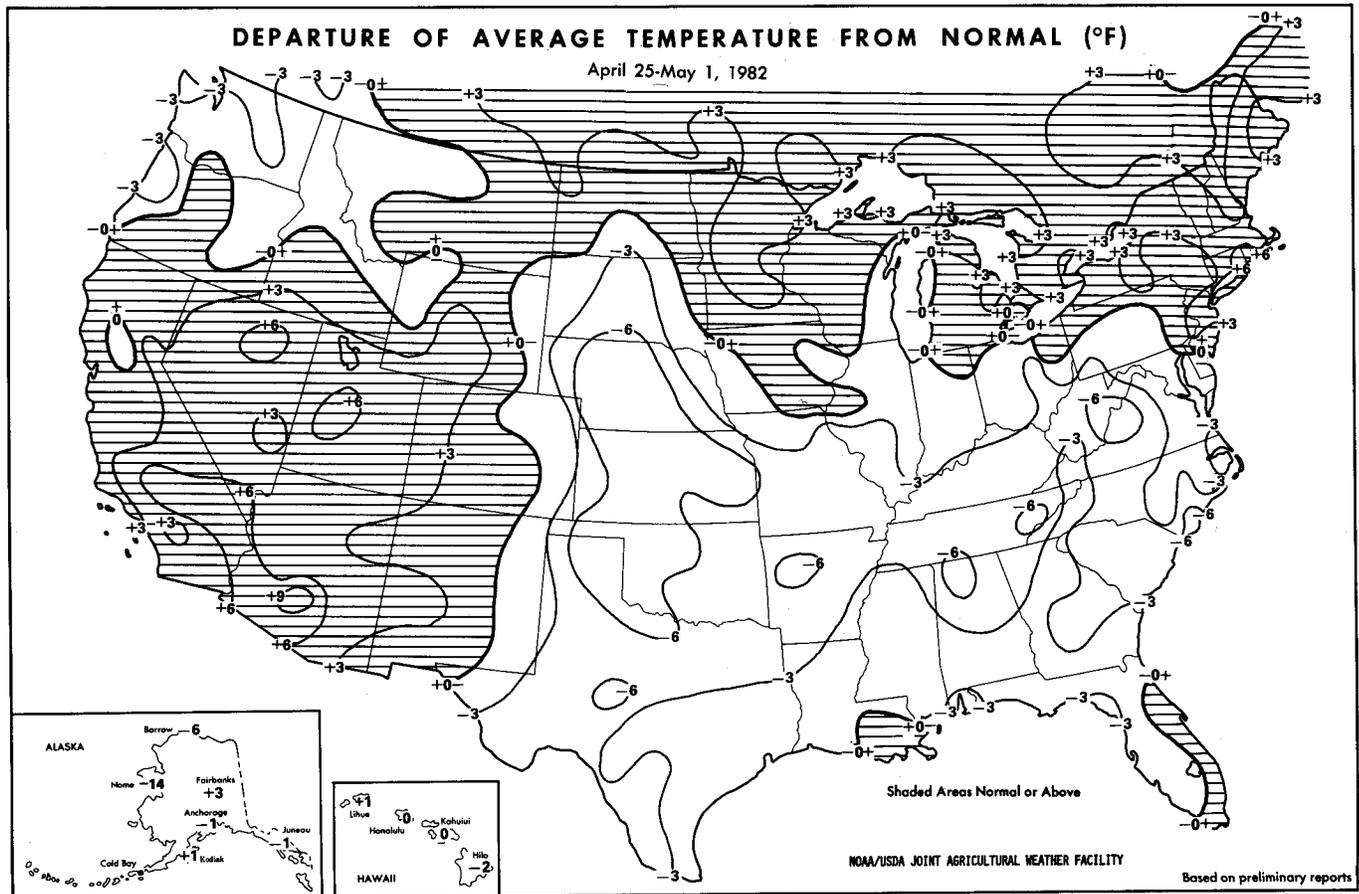
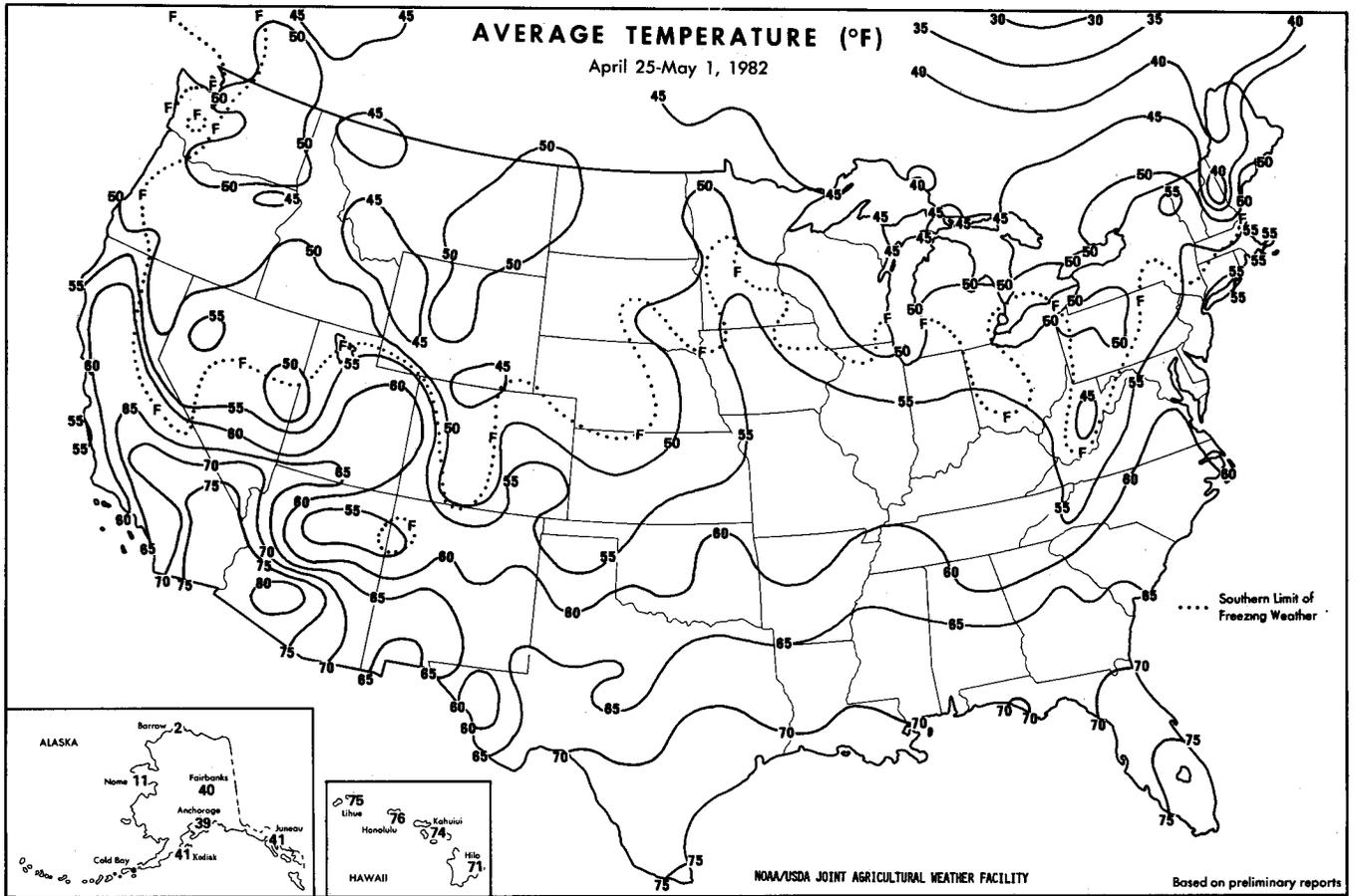
SATURDAY...A few showers dotted eastern Texas and the central Appalachians, but later in the day, showers and thunderstorms developed in Arizona and Utah and from western Texas to the lower Mississippi River Valley. Showers were widespread through these areas, but moderate to heavy amounts of rain were isolated.

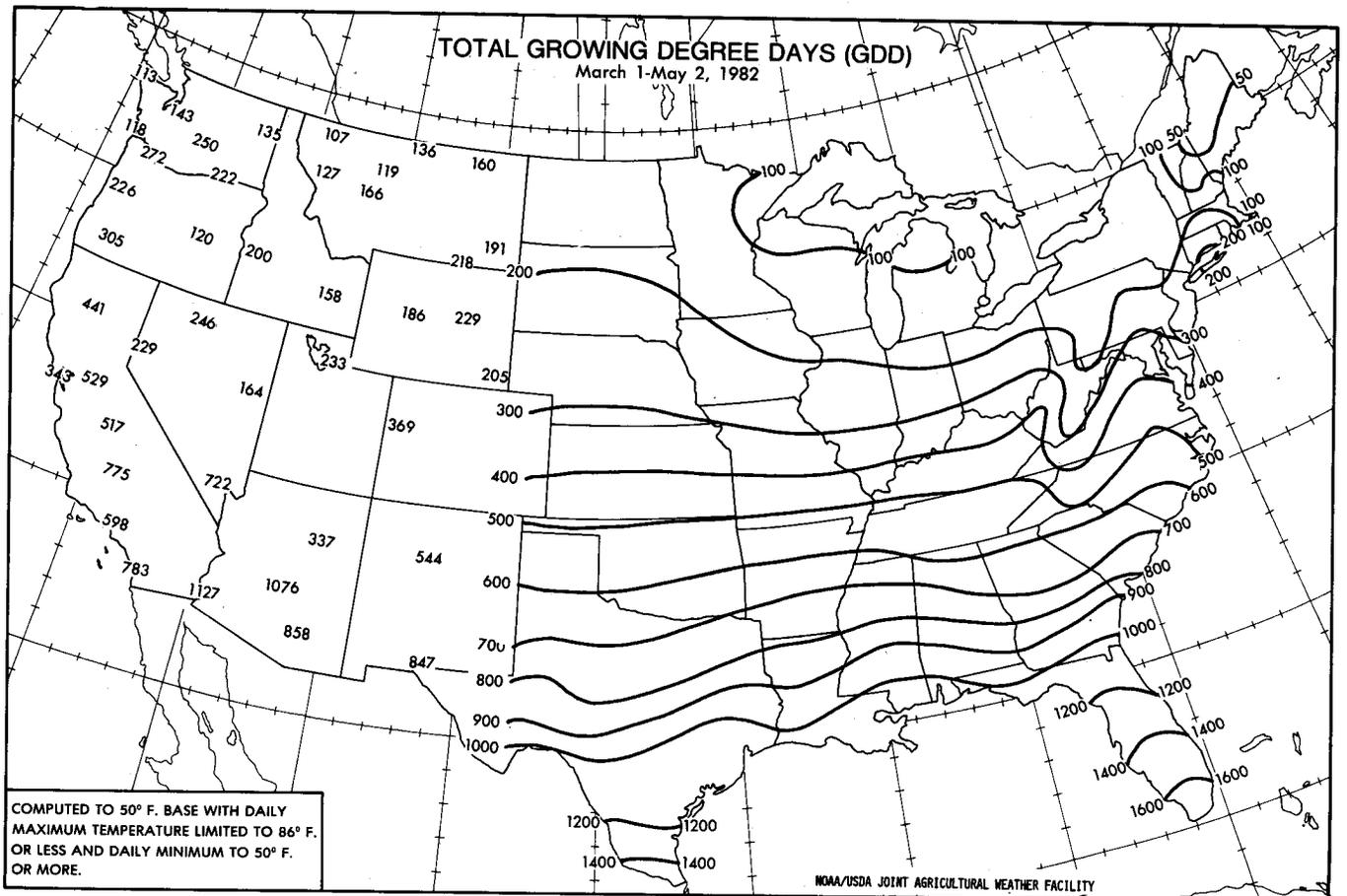
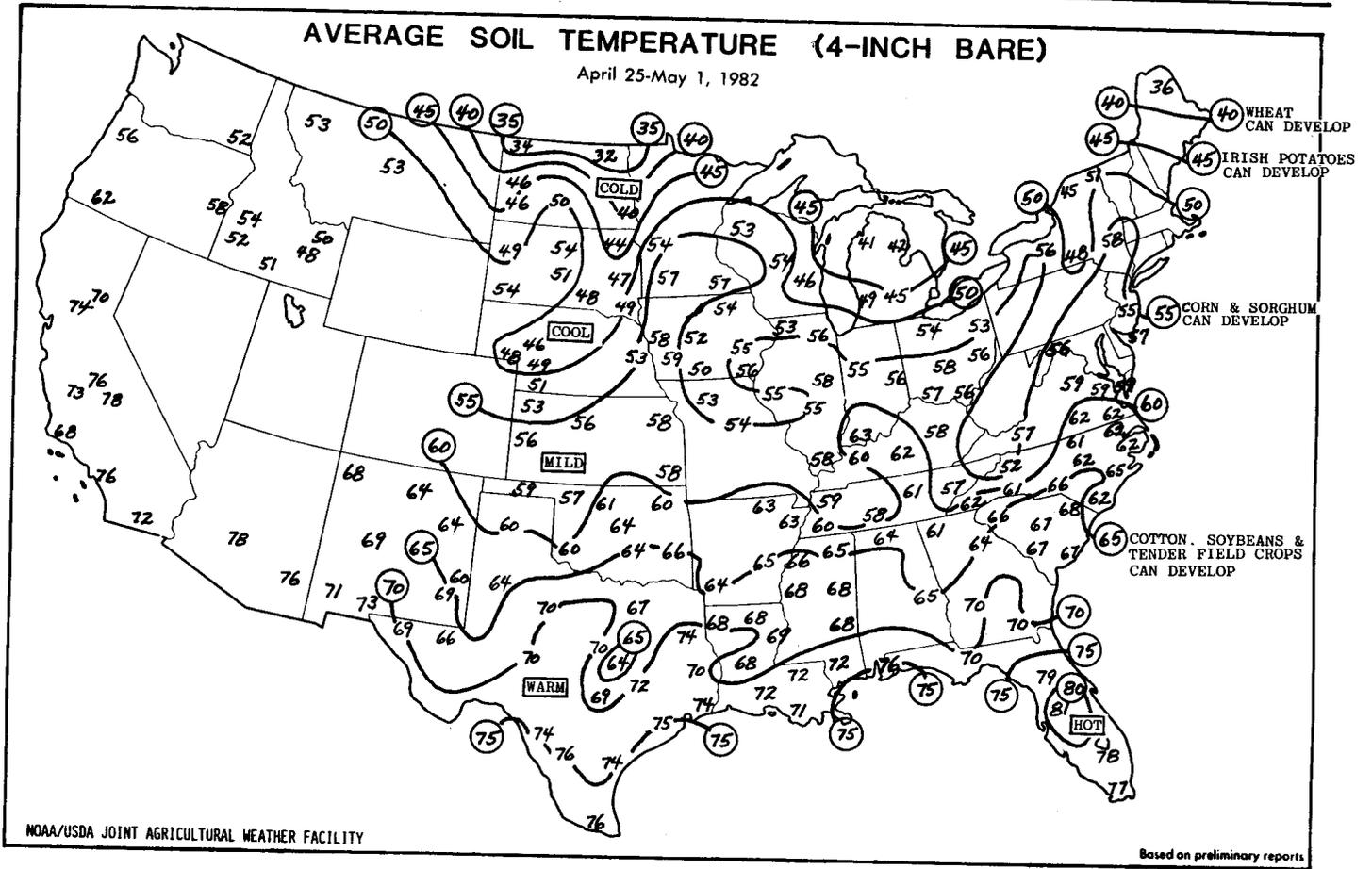
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Weather Data for the Week Ending May 1, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 28	PCT. NORMAL SINCE Feb. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	72	51	79	48	62	-5	1.0	0	.8	10.0	87	23.5	119	93	53	0	0	3	1
MOBILE	78	59	81	55	68	-3	3.0	1.8	2.9	9.7	75	22.4	110	86	50	0	0	2	1
MONTGOMERY	77	58	83	53	67	-1	3.1	2.2	3.1	12.9	119	27.4	158	81	49	0	0	2	1
AK ANCHORAGE	48	30	50	26	39	-1	T	-1	T	.6	55	1.3	52	85	43	0	0	0	0
BARROW	8	-4	16	-14	2	-6	T	0	T	.5	125	1.1	122	86	70	0	0	7	2
FAIRBANKS	49	32	55	30	40	3	.3	.2	.2	1.4	156	2.1	124	77	40	0	5	2	0
JUNEAU	46	36	49	33	41	-1	.9	.2	.3	8.8	131	13.1	101	93	62	0	0	7	0
KODIAK	46	35	48	33	41	1	.8	.2	.3	5.5	69	17.0	102	92	61	0	0	5	0
NOME	23	-1	30	-7	11	-14	0	0	0	1.6	94	4.6	148	71	41	0	7	0	0
AZ PHOENIX	94	67	97	60	81	9	.1	.2	.1	1.4	117	2.9	126	35	12	7	0	0	0
PRESCOTT	73	42	76	35	58	2	T	-1	T	2.1	84	5.1	96	68	25	0	0	1	0
TUCSON	87	57	92	49	72	4	.2	.2	.2	1.5	136	3.1	119	38	15	1	0	1	0
YUMA	93	65	94	60	79	4	0	0	0	.9	180	1.6	160	45	15	7	0	0	0
AR FORT SMITH	69	52	76	46	61	-6	.7	-6	.3	3.5	39	8.9	66	93	58	0	0	4	0
LITTLE ROCK	68	53	71	51	61	-6	1.3	0	.8	9.6	90	19.7	111	94	67	0	0	5	1
CA BAKERSFIELD	85	59	88	57	72	6	0	-2	0	2.4	133	3.9	111	55	20	0	0	0	0
KUREKA	58	48	60	42	53	2	T	-6	T	12.8	154	23.1	119	78	57	0	0	0	0
FRESNO	81	50	85	47	66	2	0	-2	0	5.7	184	8.4	142	92	26	0	0	0	0
LOS ANGELES	67	57	69	54	62	2	0	-2	0	5.2	153	8.6	115	83	59	0	0	0	0
RED BLUFF	77	50	84	46	63	1	0	-4	0	4.8	100	10.0	87	84	30	0	0	0	0
SACRAMENTO	73	47	80	42	60	-1	0	-3	0	1.98	198	17.2	159	86	45	0	0	0	0
SAN DIEGO	70	61	72	57	66	4	0	-1	0	4.9	213	8.8	160	80	60	0	0	0	0
SAN FRANCISCO	62	48	71	46	55	-1	0	-3	0	9.6	223	21.4	198	81	58	0	0	0	0
CO DENVER	65	38	78	34	51	0	.1	-4	.1	.5	16	.9	24	77	32	0	0	3	0
GRAND JUNCTION	75	46	79	42	60	4	T	-1	T	1.1	69	1.6	59	59	21	0	0	0	0
PUEBLO	71	43	76	37	57	1	T	-3	T	.2	10	1.0	40	90	32	0	0	1	0
CT BRIDGEPORT	67	45	76	37	56	3	1.2	.4	1.0	4.8	67	13.7	117	78	36	0	0	3	1
HARTFORD	70	44	82	35	57	.5	1.0	.1	.8	6.7	86	14.3	111	76	29	0	0	3	1
DC WASHINGTON	70	48	78	42	59	-2	1.7	1.0	1.0	6.0	92	11.4	107	82	40	0	0	2	2
FL APALACHICOLA	78	61	82	59	69	-2	T	-6	T	10.9	130	20.1	143	91	66	0	0	1	0
DAYTONA BEACH	79	66	84	62	73	1	.1	-3	.1	11.8	200	16.3	161	87	59	0	0	3	0
JACKSONVILLE	78	62	88	58	70	-1	.4	-2	.4	8.0	118	12.6	102	98	64	0	0	2	0
KEY WEST	84	75	86	72	79	0	.8	.3	.7	5.3	136	7.2	106	85	65	0	0	4	1
MIAMI	83	70	87	68	77	1	1.8	.8	.9	14.0	233	15.2	163	92	60	0	0	4	2
ORLANDO	83	64	86	61	73	0	1.2	.7	1.0	10.9	170	14.2	134	94	52	0	0	2	1
TALLAHASSEE	79	59	82	55	69	-2	.9	0	.9	8.5	83	17.6	101	97	57	0	0	1	1
TAMPA	80	64	83	62	72	-2	.6	.3	.5	4.9	80	8.9	84	100	59	0	0	2	1
WEST PALM BEACH	80	70	82	66	75	-1	1.7	.8	.7	24.4	339	28.0	246	88	62	0	0	5	2
GA ATLANTA	71	53	78	49	62	-3	2.1	1.1	1.7	10.2	91	21.8	118	85	43	0	0	3	1
AUGUSTA	72	50	79	44	61	-7	2.4	1.7	1.2	6.9	80	14.4	100	99	52	0	0	3	2
MACON	74	56	80	48	65	-4	2.2	1.5	1.4	9.1	101	19.2	123	98	53	0	0	2	2
SAVANNAH	75	58	81	53	67	-3	3.5	2.8	3.0	8.0	104	14.4	115	90	51	0	0	4	1
HI HILO	77	66	78	62	71	-2	2.1	-7	.8	55.6	201	75.8	167	90	68	0	0	7	1
HONOLULU	82	70	84	67	76	0	.1	-2	T	4.8	102	20.0	187	70	49	0	0	4	0
KAHULUI	81	68	83	64	74	0	.3	.1	.3	6.8	158	19.6	200	79	57	0	0	2	0
LIHUE	82	69	83	66	75	1	.1	.5	.1	14.1	176	33.1	194	85	55	0	0	2	0
ID BOISE	69	38	77	30	53	1	T	-3	T	2.0	80	4.9	100	67	21	0	2	1	0
LEWISTON	66	40	74	36	53	-1	.1	-2	.1	1.5	71	4.5	115	67	28	0	0	1	0
POCATELLO	68	35	79	26	52	2	.2	-1	.2	3.1	135	5.4	132	79	21	0	2	1	0
IL CHICAGO	62	39	69	31	50	-3	T	-7	T	6.8	113	10.2	123	82	38	0	1	1	0
MOLINE	67	41	74	34	54	-2	T	-9	T	7.3	114	9.8	123	76	32	0	0	1	0
PEORIA	67	45	74	37	56	0	T	-1.0	T	10.4	142	14.2	148	75	36	0	0	0	0
QUINCY	64	46	71	41	55	-5	.1	.8	.1	6.6	99	11.1	89	41	0	0	1	0	
ROCKFORD	65	40	72	32	52	-1	T	-9	T	7.0	101	8.3	93	83	35	0	1	2	0
SPRINGFIELD	68	44	76	35	56	-2	.1	.9	T	6.4	93	12.8	139	86	42	0	0	2	0
IN EVANSVILLE	68	50	78	41	59	-2	T	-1.0	T	7.8	87	19.1	132	90	42	0	0	0	0
FORT WAYNE	64	43	70	38	54	0	.1	-8	.1	7.6	109	14.5	138	79	33	0	0	1	0
INDIANAPOLIS	66	47	73	39	57	0	T	-9	T	7.2	94	14.3	121	85	44	0	0	2	0
SOUTH BEND	64	42	70	33	53	0	T	-9	T	5.8	85	10.1	103	74	36	0	0	1	0
IA DES MOINES	64	46	71	41	55	0	.1	-7	.1	8.5	157	11.8	171	73	36	0	0	2	0
SIoux CITY	64	42	72	37	53	-2	T	-6	T	2.2	56	4.2	81	77	33	0	0	1	0
WATERLOO	66	39	73	33	52	0	0	-8	0	5.7	102	7.5	114	82	34	0	0	0	0
KS CONCORDIA	59	44	67	39	51	-6	1.0	.3	.6	5.0	122	6.2	124	93	61	0	0	2	1
DODGE CITY	63	43	71	35	53	-6	.6	.1	.4	1.4	50	2.9	85	88	52	0	0	3	0
GOODLAND	56	37	73	33	47	-7	.6	.2	.6	1.2	52	2.0	74	94	56	0	0	2	1
TOPEKA	61	42	70	34	52	-8	1.1	.3	1.0	2.8	47	5.0	69	96	56	0	0	4	1
WICHITA	64	48	72	44	56	-5	.7	.1	.6	2.8	58	5.3	91	89	58	0	0	2	1
KY BOWLING GREEN	65	47	73	39	56	-6	.9	0	.3	8.0	82	16.7	91	97	52	0	0	4	0
LEXINGTON	66	46	72	36	56	-3	T	-9	T	6.2	68	13.8	91	91	47	0	0	1	0
LOUISVILLE	67	48	75	37	57	-3	.2	-7	.2	8.7	93	15.7	103	87	43	0	0	2	0
LA ALEXANDRIA	78	60	82	56	69	-2	0	-1.4	0	8.0	75	17.3	--	79	51	0	0	0	0
BATON ROUGE	81	62	83	58	72														

Weather Data for the Week Ending May 1, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 28	PCT. NORMAL SINCE Feb. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	77	55	79	38	66	-4	T	-1.2	T	5.4	55	12.2	76	92	56	0	0	0	0
ME CARIBOU	56	37	73	31	47	4	T	.5	.2	.3	6.0	125	110	133	80	39	0	4	3
MD PORTLAND	64	39	78	30	51	4	T	.9	.1	.6	7.9	105	15.6	118	82	33	0	1	3
MD BALTIMORE	68	46	78	39	57	-1	T	1.5	.7	.9	6.7	92	14.2	119	75	37	0	2	2
MD SALISBURY	69	46	77	35	57	-2	T	2.2	1.5	1.9	7.2	95	15.7	119	94	47	0	0	3
MA BOSTON	68	46	83	40	57	4	T	1.0	.3	.5	5.8	73	13.1	93	79	31	0	0	3
MA CHATHAM	57	43	68	39	50	-1	T	2.1	1.1	1.2	7.7	77	15.8	77	87	61	0	0	3
MI ALPENA	62	33	74	24	48	3	T	.1	.5	.1	4.1	91	6.1	92	79	29	0	0	2
MI DETROIT	65	42	73	36	53	1	T	.2	.6	.2	5.0	82	9.4	107	77	30	0	4	2
MI FLINT	66	40	73	30	53	3	T	.7	.7	.7	3.4	67	5.9	79	74	30	0	0	2
MI GRAND RAPIDS	65	39	70	32	52	1	T	.8	.8	0	5.4	90	8.8	105	70	31	0	1	0
MI HOUGHTON LAKE	62	37	68	28	49	2	T	.1	.5	.1	5.2	127	7.6	123	75	29	0	3	1
MI LANSING	64	38	71	28	51	0	T	.7	.7	T	3.6	65	6.1	74	83	35	0	2	0
MI MARQUETTE	59	28	70	20	44	1	T	.7	.7	T	3.6	65	6.1	74	83	35	0	2	0
MI MUSKEGON	63	37	66	30	50	0	T	.1	.6	.1	6.7	134	11.0	145	78	27	0	6	1
MI SAULT STE. MARIE	61	30	70	21	46	3	T	.2	.4	T	4.7	81	9.6	109	77	34	0	2	2
MN ALEXANDRIA	64	40	73	35	52	4	T	.1	.6	.1	7.3	174	12.2	174	83	34	0	5	2
MN DULUTH	60	34	69	25	47	3	T	.1	.6	.1	4.6	124	7.0	163	79	22	0	0	0
MN INT'L FALLS	64	34	71	25	49	5	T	.1	.6	.1	4.1	91	6.6	116	76	27	0	3	1
MN MINNEAPOLIS	66	42	72	33	54	3	T	.5	.5	T	2.4	86	4.0	98	81	27	0	3	0
MN ROCHESTER	64	37	71	32	51	1	T	.4	.4	T	3.4	97	6.5	141	69	26	0	0	2
MS GREENWOOD	75	58	78	55	67	-2	T	.6	.5	.4	4.4	102	6.4	128	81	32	0	1	1
MS JACKSON	77	59	81	56	68	-1	T	1.8	.7	1.0	11.9	111	21.5	120	99	55	0	0	3
MS MERIDIAN	79	56	83	52	68	-1	T	1.6	.6	1.3	10.9	93	20.8	109	91	49	0	0	2
MO CAPE GIRARDEAU	68	49	76	46	59	-4	T	.3	.7	.3	6.4	77	19.8	145	95	48	0	0	2
MO COLUMBIA	66	47	71	42	56	-3	T	.2	.8	.2	5.8	89	10.1	115	91	48	0	0	2
MO KANSAS CITY	62	46	71	42	54	-5	T	1.2	.3	1.1	4.9	78	8.7	112	98	51	0	0	2
MO SAINT LOUIS	67	48	74	44	58	-3	T	.5	.4	.4	5.2	73	11.7	117	92	43	0	0	2
MO SPRINGFIELD	65	48	71	40	57	-4	T	1.9	.9	1.0	5.8	75	10.6	105	94	55	0	0	4
MT BILLINGS	63	37	78	32	50	1	T	.4	.1	.2	3.5	113	4.5	115	76	35	0	1	2
MT GLASGOW	65	36	80	30	50	2	T	.2	.2	T	.9	82	2.2	147	60	19	0	2	1
MT GREAT FALLS	63	34	76	30	48	0	T	.3	.3	T	3.0	143	5.1	142	56	20	0	4	1
MT HAVRE	65	33	78	29	49	-1	T	.3	.3	T	.9	53	3.2	133	55	16	0	3	0
MT HELENA	66	32	80	27	49	2	T	.3	.3	T	1.9	119	3.4	155	65	19	0	4	0
MT KALISPELL	61	26	72	20	44	-3	T	.2	.2	T	2.5	132	6.4	160	88	29	0	7	1
MT MILES CITY	65	38	80	30	51	0	T	.1	.2	.1	1.2	60	2.4	92	86	33	0	1	1
MT MISSOULA	63	31	75	27	47	-1	T	.3	.3	T	2.8	156	6.1	185	75	26	0	4	1
NE GRAND ISLAND	58	39	72	33	49	-7	T	3.0	2.3	1.7	5.5	149	6.7	146	92	53	0	0	4
NE LINCOLN	61	42	72	34	52	-5	T	2.1	1.5	2.0	6.1	149	7.0	132	91	53	0	0	2
NE NORFOLK	61	41	71	37	51	-3	T	.5	.2	.3	3.1	89	5.1	113	78	38	0	0	4
NE NORTH PLATTE	56	34	69	26	45	-8	T	.8	.3	.7	2.5	86	2.7	82	98	52	0	2	2
NE OMAHA	61	44	71	39	53	-3	T	.6	.2	.5	4.6	100	6.6	116	81	54	0	0	3
NE SCOTTSBLUFF	59	36	80	28	48	-3	T	.1	.4	.1	1.0	38	1.5	48	80	37	0	1	2
NE VALENTINE	55	35	74	28	45	-6	T	.1	.4	.1	1.7	77	2.3	74	83	44	0	2	1
NE ELY	68	31	75	23	49	4	T	.2	.2	T	3.0	150	4.3	154	72	22	0	5	0
NE LAS VEGAS	88	60	92	54	74	6	T	0	0	0	.3	38	1.5	100	32	13	2	0	0
NE RENO	70	33	76	24	52	2	T	0	.1	0	1.5	115	3.1	97	72	20	0	2	0
NE WINNEMUCCA	73	35	80	24	54	5	T	0	.2	0	1.5	107	2.0	65	55	12	0	1	0
NH CONCORD	68	34	81	24	51	2	T	1.4	.7	.7	5.4	93	12.4	123	83	29	0	4	3
NJ ATLANTIC CITY	69	46	80	37	58	2	T	1.4	.6	1.3	6.4	79	12.8	92	89	44	0	0	3
NM ALBUQUERQUE	78	47	83	37	62	3	T	0	.1	0	.9	75	1.5	88	64	17	0	0	0
NM CLOVIS	71	49	83	44	60	-1	T	.6	.3	.3	.6	46	1.3	80	43	0	0	4	0
NM ROSWELL	75	52	83	49	63	0	T	.4	.2	.4	.6	38	1.4	61	72	33	0	0	1
NY ALBANY	69	41	81	31	55	3	T	.3	.4	.3	5.5	102	10.9	125	72	25	0	1	0
NY BINGHAMTON	64	42	76	33	53	3	T	.3	.5	.3	5.2	84	11.0	111	76	32	0	0	1
NY BUFFALO	63	40	72	31	51	2	T	.8	.8	T	4.9	75	13.1	120	78	32	0	2	0
NY NEW YORK	69	52	78	43	60	4	T	1.7	.9	1.2	6.5	82	13.5	107	71	33	0	0	3
NY ROCHESTER	66	38	78	30	52	1	T	.1	.5	.1	3.4	63	8.6	91	78	31	0	2	1
NY SYRACUSE	67	40	75	32	54	2	T	.2	.5	.2	4.9	77	9.3	85	83	36	0	1	2
NC ASHEVILLE	69	44	75	34	56	-3	T	2.2	1.4	1.3	5.4	64	17.9	125	99	44	0	0	3
NC CHARLOTTE	72	50	79	42	61	-3	T	1.8	1.1	.9	5.4	66	14.6	102	92	42	0	0	3
NC GREENSBORO	70	45	77	37	58	-5	T	1.0	.3	.5	5.2	74	12.7	100	86	43	0	0	3
NC HATTERAS	67	50	73	41	59	-4	T	4.2	3.5	2.3	11.8	166	24.7	172	98	56	0	0	3
NC NEW BERN	73	53	77	45	63	-3	T	1.0	.2	.8	5.5	71	16.9	118	85	49	0	0	2
NC RALEIGH	74	47	78	39	61	-2	T	1.1	.4	.8	6.5	97	14.8	119	86	35	0	0	3
NC WILMINGTON	70	50	74	41	60	-7	T	2.0	1.3	1.7	5.7	77	17.9	139	89	50	0	0	3
ND BISMARCK	59	34	77	25	47	-2	T	.2	.2	.2	1.7	77	3.0	107	72	31	0	3	1
ND FARGO	65	35	77	24	50	2	T	.1	.5	.1	1.7	55	3.5	100	74	24	0	3	1
ND GRAND FORKS	64	35	76	26	50	2	T	.1	.4	.1	1.2	48	3.1	103	90	31	0	2	1
ND WILLISTON	68	35	84	25	52	3	T	.3	.3	T	2.4	120	4.1	137	85	26	0	2	0
OH AKRON-CANTON	65	42	75	34	54	1	T	.1	.7	.1	5.1	76	11.6	112	70	31	0	0	3
OH CINCINNATI	65	47	71	38	56	-2	T	.1	.8	.1	7.0	85	15.4	114	74	38	0	0	1
OH CLEVELAND	63	42	76	34	53	0	T	.8	.8	T	5.3	78	10.7	101	74	34	0	0	1
OH COLUMBUS	66	42	73	30	54	-2	T	.1	.9	.1	6.0	79	12.2	105	80	33	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending May 1, 1982

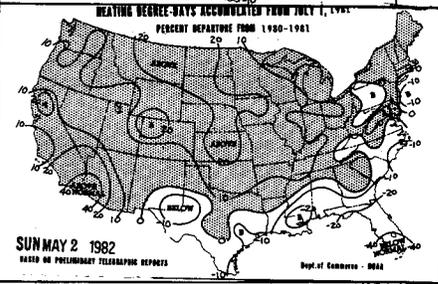
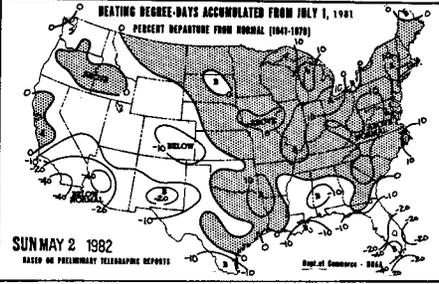
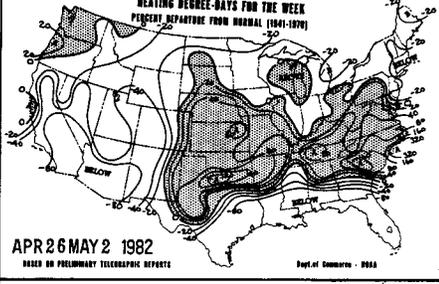
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 28	PCT. NORMAL SINCE Feb. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	67	44	72	30	55	-1	.3	-.6	.1	7.9	113	15.5	138	76	35	0	1	2	0	0
TOLEDO	63	41	72	31	52	-1	.1	-.7	.1	5.4	98	9.8	117	84	37	0	2	0	0	0
YOUNGSTOWN	64	40	75	33	52	0	.1	-.8	.1	4.1	59	10.0	88	74	32	0	0	3	0	0
OK OKLAHOMA CITY	68	49	76	41	59	-6	1.8	-.8	.8	3.5	63	8.2	114	60	60	0	0	3	2	1
TULSA	68	53	77	50	61	-4	1.1	0	.5	2.3	33	6.6	73	90.	54	0	0	3	1	0
OR ASTORIA	57	40	59	33	48	-1	.3	-.6	.3	14.1	119	38.5	142	90	54	0	0	2	0	0
BURNS	62	33	69	21	47	-1	.1	-.2	.1	1.5	83	4.8	96	77	44	0	5	0	0	0
MEDFORD	70	37	74	31	53	0	.1	-.3	.1	2.9	100	8.1	100	82	26	0	1	1	0	0
PENDLETON	65	39	69	33	52	-2	.1	-.2	.1	2.1	95	4.4	100	73	28	0	0	1	1	0
PORTLAND	64	42	67	35	53	0	.2	-.3	.2	6.3	102	18.5	124	89	38	0	0	1	0	0
SALEM	63	34	67	28	49	-4	.2	-.3	.2	6.9	97	18.8	107	86	34	0	0	3	1	0
PA ALLENTOWN	68	44	77	37	56	1	1.8	-.9	1.0	6.6	87	13.2	107	87	38	0	0	3	2	2
ERIE	61	38	72	29	49	0	.1	-.8	.1	5.0	81	10.3	105	72	36	0	3	1	0	0
HARRISBURG	65	44	76	34	55	-3	1.2	.4	.8	6.5	96	12.0	111	84	39	0	0	2	1	1
PHILADELPHIA	70	49	78	44	60	3	2.8	2.1	1.6	8.7	123	16.3	146	81	36	0	0	3	2	0
PITTSBURGH	64	40	75	32	52	-3	.5	-.3	.5	4.6	65	11.3	102	62	28	0	1	2	0	0
SCRANTON	67	41	77	35	54	1	.9	-.2	.6	5.7	102	11.0	128	73	37	0	0	3	1	1
RI PROVIDENCE	71	47	83	38	59	7	1.6	.7	.9	7.1	90	16.6	123	77	31	0	0	3	1	1
SC CHARLESTON	74	54	81	48	64	-4	5.2	4.6	3.1	8.8	114	14.3	113	96	54	0	0	4	3	3
COLUMBIA	74	52	81	43	63	-4	3.1	2.3	1.3	8.2	95	16.3	112	98	41	0	0	3	3	3
FLORENCE	74	50	80	42	62	-5	1.2	.5	.7	4.3	55	13.5	105	90	40	0	0	3	1	1
GREENVILLE	70	49	77	41	60	-5	2.4	1.5	1.2	7.6	74	19.0	109	89	43	0	0	3	2	2
SD ABERDEEN	62	37	75	28	50	-1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	86	30	0	2	0	0	0
HURON	63	37	73	30	50	-1	.2	-.3	-.1	2.9	94	4.5	118	94	38	0	1	2	0	0
RAPID CITY	58	39	77	33	49	-1	.2	-.4	.1	2.2	65	3.0	77	84	44	0	0	3	0	0
SIoux FALLS	65	39	72	30	52	0	.2	-.5	.1	3.1	79	3.9	78	86	30	0	1	3	0	0
TN CATTANOOGA	70	49	76	43	59	-5	1.5	.6	1.1	9.3	89	23.5	120	92	46	0	0	2	1	1
KNOXVILLE	69	48	75	44	59	-6	1.7	.9	.9	9.6	107	20.6	121	91	50	0	0	3	2	2
MEMPHIS	71	57	75	52	64	-2	.9	-.4	.7	11.3	103	23.4	124	88	55	0	0	3	1	1
NASHVILLE	69	50	77	43	59	-5	.9	0	.4	7.3	79	18.6	109	97	50	0	0	4	0	0
TX ABILENE	76	54	79	46	65	-4	.7	-.1	.6	1.5	41	3.7	71	91	41	0	0	3	1	0
AMARILLO	67	43	75	39	55	-5	.4	0	.4	.8	42	1.5	58	99	48	0	0	3	0	0
AUSTIN	81	61	85	54	71	-1	.1	-.9	.1	6.1	109	7.8	82	90	49	0	0	0	0	0
BEAUMONT	81	61	84	56	71	-1	1.3	-.2	1.3	10.0	132	15.6	106	95	55	0	0	1	1	1
BROWNSVILLE	85	65	87	61	75	-2	3.0	2.6	2.8	3.8	200	4.6	105	89	52	0	0	3	1	0
CORPUS CHRISTI	81	63	84	60	72	-4	.4	-.3	.4	1.5	44	9.7	149	99	64	0	0	1	0	0
DEL RIO	82	60	92	54	71	-4	.1	-.4	.1	.7	27	3.3	83	90	55	2	0	1	0	0
EL PASO	81	53	87	49	67	0	.1	-.1	.1	0	0	.9	64	50	2	0	0	0	0	0
FORT WORTH	75	56	80	52	66	-3	.7	-.4	.6	4.5	63	8.7	86	94	56	0	0	2	1	1
GALVESTON	77	65	82	61	71	-1	.1	-.6	.1	3.3	60	8.7	87	97	62	0	0	0	0	0
HOUSTON	82	61	84	56	72	-1	.1	-.1	.1	4.0	62	7.4	59	96	49	0	0	1	0	0
LUBBOCK	70	50	79	44	60	-4	2.5	2.1	2.2	3.1	141	3.5	117	87	50	0	0	4	1	1
MIDLAND	76	54	85	47	65	-3	.6	-.2	.6	1.4	100	2.0	87	85	41	0	0	1	1	1
SAN ANGELO	76	51	82	45	64	-7	.1	-.4	.1	1.3	50	3.9	95	97	46	0	0	1	0	0
SAN ANTONIO	80	58	84	52	69	-3	.6	-.1	.4	2.3	55	4.3	60	96	50	0	0	2	0	0
VICTORIA	82	62	85	58	72	-1	0	-.8	0	1.6	34	7.4	91	95	52	0	0	0	0	0
WACO	78	58	82	50	68	-2	.5	-.6	.4	6.3	94	9.6	97	97	59	0	0	2	0	0
WICHITA FALLS	71	49	79	40	60	-8	2.8	1.9	2.0	5.5	112	8.1	131	99	60	0	0	3	2	0
UT BLANDING	74	44	77	44	59	8	.1	-.2	.1	1.7	94	3.2	91	63.	20	0	0	2	0	0
CEDAR CITY	72	40	77	36	56	5	0	-.2	0	2.3	110	5.9	179	55	20	0	0	0	0	0
SALT LAKE CITY	70	43	79	36	57	4	.2	-.3	.2	3.8	103	5.4	95	69	26	0	0	1	0	0
VT BURLINGTON	67	39	79	29	53	5	.2	-.5	.2	4.5	96	8.8	117	89	32	0	2	1	0	0
VA NORFOLK	68	50	77	40	59	-2	1.0	-.4	.8	4.8	79	13.9	118	83	42	0	0	3	1	1
RICHMOND	72	48	80	40	60	-2	1.7	1.0	1.1	6.8	106	13.9	122	92	44	0	0	3	2	2
ROANOKE	67	42	74	34	54	-5	1.4	-.7	.5	4.5	70	12.9	114	89	42	0	0	3	0	0
WA COLVILLE	63	35	68	32	49	-1	.2	-.1	.2	3.2	145	7.3	135	69	38	0	3	1	0	0
QUILLAYUTE	55	35	60	30	45	-3	1.2	-.3	.7	20.4	103	59.9	140	95	52	0	2	4	1	0
SEATTLE-TACOMA	60	41	64	38	51	-1	.4	-.1	.4	6.2	97	18.9	123	77	38	0	0	1	0	0
SPOKANE	62	35	70	25	49	-2	.2	-.1	.2	3.7	137	7.0	109	74	27	0	2	1	0	0
YAKIMA	66	36	71	30	51	-2	.1	-.1	.1	.9	90	2.7	90	72	23	0	3	0	0	0
WV BECKLEY	64	42	71	36	53	-2	.6	-.2	.4	4.5	57	11.0	80	85	39	0	0	4	0	0
CHARLESTON	70	40	77	33	55	-5	.3	-.5	.1	6.1	80	13.2	101	87	33	0	0	4	0	0
HUNTINGTON	68	42	73	35	55	-5	.3	-.5	.2	6.1	80	12.8	101	79	37	0	0	3	0	0
PARKERSBURG	65	42	73	34	54	-4	.1	-.7	.1	7.5	100	9.8	73	72	30	0	0	2	0	0
WI GREEN BAY	61	35	70	28	48	-1	.1	-.6	.1	5.0	119	6.6	114	83	35	0	2	2	0	0
LA CROSSE	66	41	73	28	54	0	.1	-.8	.1	2.6	52	4.1	66	86	27	0	1	0	0	0
MADISON	64	34	73	27	49	-2	.3	-.4	.3	5.5	117	7.0	113	86	35	0	2	1	0	0
MILWAUKEE	57	37	69	32	47	-2	.1	-.6	.1	7.4	145	10.9	151	75	40	0	1	1	0	0
WAUSAU	63	36	69	31	50	1	.7	0	.7	6.5	151	8.4	138	84	28	0	2	2	1	1
WY CASPER	65	34	75	30	50	2	.3	-.1	.2	1.8	72	2.7	87	85	26	0	1	2	0	0
CHEYENNE	59	36	73	34	48	0	.3	-.1	.2	.6	23	1.3	41	91	41	0	0	2	0	0
LANDER	67	37	77	33	52	4	.1	-.6	.1	1.2	33	1.8	42	59	18	0	0	1	0	0
SHERIDAN	64	34	77	31	49	0	.3	-.2	.2	1.9	59	3.0	71	77	31	0	2	2	0	0
PR SAN JUAN	89	73	93	71	81	3	.2	-.9	.1	2.7	48	11.3	104	87	53	2	0	3	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAY. 2, 1982.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981

Table with columns for STATES AND STATIONS, WEEKLY TOTAL, DEPARTURE*, SEASONAL ACCUMULATION, and DEPARTURE FROM 1980-81. Rows list various cities across the US, including ALA. BIRMINGHAM, ARIZ. FLAGSTAFF, CALIF. BAKERSFIELD, etc.



APR 26 MAY 2 1982

SUN MAY 2 1982

SUN MAY 2 1982

BASED ON PRELIMINARY TELEGRAPHIC REPORTS Dept. of Commerce - NOAA

National Agricultural Summary

April 26 - May 2

HIGHLIGHT: Clear weather throughout most of the Corn Belt dried fields and permitted farmers to prepare land and plant crops at a rapid pace. Up to 7 days were suitable for fieldwork in this region. However, fieldwork in the Delta and Southeast again was slowed by rain and wet fields. Farmers in these areas only had 1 to 5 days available for fieldwork. Soil moisture supplies were adequate to surplus in the Delta and Southeast and mostly adequate elsewhere. Rainfall on the central Plains brought much-needed relief from the dry conditions and should aid the growth of small grains. Winter wheat was in fair to mostly good condition. Spring wheat was 30% seeded in the five major producing States, 19 points behind average. Corn planting in the 17 major States reached 20% complete, 2 points behind last year and average. Sorghum planting reached northward into Missouri and Oklahoma. Cotton was 27% planted in the 14 major States, well behind last year's 45%. Rice planting advanced to 38% finished in the five major States. Soybean planting became more widespread. Pastures and ranges were in fair to good condition. Livestock moved to summer rangelands.

SMALL GRAINS: Winter wheat was in fair to mostly good condition. Rainfall over the central Plains brought much-needed relief from the dry conditions. The crop was heading across the southern third of the Nation and jointing through the central third.

Kansas winter wheat was 80% jointed, 15 points more than average. In Oklahoma, 30% of the acreage was headed. California winter wheat was 72% headed, and in Texas, 42% of the acreage was headed. Heading just began in Missouri where 2% was headed.

Spring wheat was 30% seeded in the five major producing States, 19 points behind average. Progress ranged from 18% in North Dakota to 69% in Idaho. Planting fell behind schedule in all States except Idaho due to a late spring and wet field conditions.

CORN: Corn planting in the 17 major producing States advanced to 20% complete, only 2 points behind last year and average. Clear weather throughout major growing regions permitted farmers to make rapid progress. Planting got underway in all States except Michigan and South Dakota. Emerged plants in southern areas showed fair to good condition.

SORGHUM: Sorghum planting moved northward into Missouri and Oklahoma. Texas producers were 66% finished planting, 4 points behind average. In Missouri, 7% of the acreage had been seeded, and in Oklahoma, growers had seeded 5% of the acreage.

COTTON: In the 14 major producing States, 27% of the cotton acreage had been planted, well behind last year's rapid pace of 45% finished. Planting began in all States except Oklahoma. Progress lagged the average in nearly all States due to the late, wet spring.

OTHER CROPS: Rice planting in the five major States reached 38% finished, 29 points slower than a year earlier. Progress was behind normal in practically all areas. Arkansas producers lagged

the average by 35 points, and Mississippi growers were 24 points behind average. Heavy rains and wet conditions delayed activities in these areas and pushed progress behind schedule. Rice had emerged on 27% of the acreage, compared with 42% last year.

Soybean planting gained momentum as it became more widespread. Progress ranged from just getting started in Mississippi and Ohio to 4% planted in Georgia.

Peanut planting became more widespread. Growers were 4% finished in Virginia, 12% in Mississippi, 26% in Alabama, 29% in Georgia, 36% in South Carolina, and 7% in Texas.

Tobacco growers were transplanting the crop and caring for beds. Plants remained in fair to good condition.

FRUITS AND NUTS: Apples, blueberries, and strawberries bloomed as far north as New Jersey. Washington's strawberries were close to blossoming, and blueberries started blooming.

Florida's citrus groves showed good condition and sufficient moisture supplies. New-crop fruit made good progress. Major pruning was active in freeze-damaged orchards.

Arizona's Valencia orange harvest was very active. Grapefruit picking was limited. Deciduous fruit sized well. Peach harvest is expected to begin next week.

The Texas citrus harvest neared completion. Pecan trees were mostly in the late-blooming stage. The crop was developing slower than normal, and growers continued spraying operations.

California's Navel orange harvest neared completion. Almonds sized well, and walnuts were in the catkin stage.

VEGETABLES: Vegetable planting became more active in northern areas. Harvesting of early-season crops gained momentum. Growers in New Jersey continued harvesting spinach and began cutting asparagus.

Warm days and mild nights prevailed in Florida's vegetable-growing areas. Total vegetable shipments increased 6% from the previous week even though snap beans, cabbage, cucumbers, lettuce, parsley, peppers, peas, squash, and strawberries registered declines. The watermelon harvest increased when picking moved northward.

Arizona's lettuce harvest was winding down toward completion. The green onion harvest held seasonally steady.

California growers harvested a wide variety of vegetables. Clear weather aided in drying fields and permitted producers to harvest and plant crops at a normal pace. Spring-planted crops developed well.

In Texas, cool weather slowed the development of most crops. Producers continued harvesting early crops and planting late crops.

PASTURES AND LIVESTOCK: Pastures continued to rate fair to mostly good condition. Good moisture supplies in most areas should give a boost to growth when temperatures increase. Ranges and pastures in Texas improved after receiving timely rains. Additional rain and warmer weather is needed to sustain growth. Cattle were in fair to good condition. Ranchers turned herds onto summer rangelands in many areas.

CROP PROGRESS
FOR WEEK ENDING MAY 2

COTTON % PLANTED			WINTER WHEAT % HEADED			CORN % PLANTED			RICE % PLANTED		
	1982	1981	AVG.		1982	1981	AVG.		1982	1981	AVG.
ALA	26	79	61	CALIF	72	87	NA	COLO	25	13	16
ARIZ	80	83	81	COLO	0	0	0	GA	93	96	92
ARK	9	65	31	IDAHO	0	0	0	ILL	31	18	26
CALIF	90	94	NA	ILL	0	20	6	IND	20	10	20
GA	36	78	70	IND	0	10	15	IOWA	15	26	27
LA	27	67	39	KANS	0	45	5	KANS	25	40	20
MISS	22	71	41	MO	2	46	12	KY	26	46	32
MO	4	37	26	MONT	0	0	0	MICH	0	0	0
N MEX	30	35	45	NEBR	0	0	0	MINN	1	18	16
N C	25	68	50	OHIO	0	0	0	MO	41	40	36
OKLA	0	0	0	OKLA	30	80	40	NEBR	5	20	10
S C	35	91	78	OREG	0	0	NA	N C	84	90	84
TENN	3	58	35	S DAK	0	0	NA	OHIO	45	8	15
TEX	17	24	22	TEX	42	42	60	PA	5	14	10
14 STATES	27	45	NA	WASH	0	0	0	S DAK	0	10	4
EXCL. STATES WITH NA	20	39	30	15 STATES	13	35	NA	VA	48	59	48
				EXCL. STATES WITH NA	12	35	19	WIS	2	7	5
								17 STATES	20	22	22

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

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

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

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

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures below average. Rainfall mostly north.

Soil moisture mostly surplus. Fieldwork: 1.7 days. Corn planted 70%, 1981 89%, average 69%. Cotton planted 26%, 1981 79%, average 61%. Peanuts planted 26%, 1981 32%, average 41%. Wheat heading 75%, 1981 84%, average 75%. Sorghum planted 17%, 1981 23%. Soybeans planted less than 1%, 1981 6%. Activities: Planting corn, peanuts, sorghum, and cotton; pest control on fruit, vegetables and some early crops; spreading fertilizer; seedbed preparation. Conditions: Livestock, pastures, wheat good; corn fair to good. Plowing 71%.

ARIZONA: Fair, warm weather except for scattered showers. Thunderstorms over weekend. Moisture amounts mostly between 0.10 and 0.75 in. Average temperatures 2 to 10° above normal.

Cotton planting 80% complete, slightly behind last year's 83%, average 81%. Very little replanting necessary, plantings look very good. Wheat (durum and other), barley central, western area turning color. Other areas heading out. Harvest of barley approaching. Alfalfa haying normal. Sugarbeet harvest continued Yuma area, began central area. Sorghum, corn, safflower good progress. Lettuce harvest central winding down. Potato harvest table use, chippers in progress. Quality good. Dry onion harvest next week. Romaine, other lettuce, broccoli, cabbage, greens, carrot harvest winding down. Green onion harvest seasonally steady. Valencia orange harvest very active, demand good. Lemons picked on demand. Limited grapefruit harvest continued, market weak. Perlette grapes in bloom, crop progressing well. Deciduous fruit sizing well. Harvest of peaches begin one week. Ranges fair, good condition. Green growth in northern half of State still delayed by cold weather, winds. Southeast good range conditions, spring moisture needed to prevent ranges from further drying. Cattle, sheep fair to good condition. Water supplies mostly adequate, some shortages in extreme southern areas.

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

SORGHUM % PLANTED			
	1982	1981	AVG.
COLO	0	0	0
KANS	0	3	0
MO	7	13	9
NEBR	0	1	0
OKLA	5	15	5
S DAK	0	2	NA
TEX	66	67	70
7 STATES	23	25	NA
EXCL. STATES WITH NA	24	27	26

SPRING WHEAT % PLANTED			
	1982	1981	AVG.
IDAHO	69	82	66
MINN	39	91	57
MONT	20	68	52
N D	18	61	35
S DAK	54	100	68
5 STATES	30	75	49

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

NA - NOT AVAILABLE

ARKANSAS: Cooler than normal week. Highest temperature 83°, lowest 36°. All departures from normal ranged from 0 to -5°. Most rainfall 3.02 in., least 0.06 in.

Continued rains and wet fields limited land preparation. Farmwork was behind schedule and 3 days were available for fieldwork. Soil moisture was adequate and crop growth slow. Rice 17% planted, 67% 1981, 52% average. Rice 7% emerged, 35% 1981. Cotton 9% planted, 65% 1981, 31% average. Cotton less than 5% emerged, 24% 1981, 14% average. Corn and sorghum in fair condition. Corn planted 64%, 69% 1981, 60% average. Sorghum planted 34%, 66% 1981, 44% average. Wheat and oats in good condition. First cuttings of hay last week. Cattle in good condition.

CALIFORNIA: Above normal temperatures, drying north winds during the mid part of the week made temperatures in the valley and coastal regions soar while the humidity dropped. Strong drying conditions were prevalent throughout State. The majority of stations reported average temperatures 2 to 4° above normal and the range of averages were from 2° below the average to 7° above average.

Cotton planting progressing rapidly; 90% planted compared 94% last year. Rice field preparation and field flooding major activities; 2% planted, 20% last year. Small grain growing well; 72% of wheat headed, 87% year ago. Sugarbeet harvest active. Dry bean starting, some corn being planted. Sebastopol apples, North Coast grapes good bloom. Blenheim apricots thinned and irrigated. Fuerte, Hass avocados moving. Cherry set poor. Mildew control in grapes, nectarines, plums gaining size.

Southern California citrus quality down, wind scarring. Desert grapefruit difficult market. Lemon picks behind. Navel oranges finishing. Valencia oranges smaller sizes. Almonds sizing well. Walnuts in catkin stage. Clear weather aiding in drying fields. Asparagus harvest Delta, Salinas Valley continues moderate. Green beans for market continue good growth South Coast. Broccoli, cauliflower active Central and South Coasts. Celery harvest continues Orange, Ventura Counties. Sweet corn doing well Coachella Valley and South Coast. Imperial harvest expected next week. Carrot harvest Coachella, Imperial Valleys. Lettuce harvest heavy San Joaquin Valley, increasing Santa Maria. Dry onion grading active Desert, some problem of seed stems. Spring potatoes doing well. Recent dry wind affects on early plantings unknown. Harvest early fields expected 3rd. Fall potato planting delayed one week due to wet conditions Tulalake area. Sweetpotato planting progressing well, Merced area. Processing spinach harvest continues San Joaquin Valley, coastal districts; winding down Stanislaus County. Strawberry harvest active South Coast districts, Santa Maria area. Market tomato harvest begin soon; Imperial crop doing well. Staking, tying South Coast, southern San Joaquin Valley. Processing tomato plantings increasing Sacramento Valley as conditions permit. Grazing conditions generally excellent. Range feed maturing result warmer temperatures. Movement livestock summer pasture beginning. Stock water supplies more than ample.

COLORADO: Widely scattered showers but amounts generally less than 0.40 in. The exception was the Arkansas Valley which received from 0.20 to 0.60 in. Temperatures near normal, ranging from 4° below normal to 4° above.

Seeding of spring grains continues ahead of normal, but moisture needed to promote germination and emergence. Winter wheat and small grains continue under stress in some areas due to dry conditions. Barley, 73% seeded; oats, 73% seeded; spring wheat, 75% seeded. Barley 37% emerged. Sugarbeet seeding advancing rapidly with 94% in the ground, some being irrigated to promote emergence. Roughly 25% of the corn in the ground, but need moisture to promote emergence. Winter wheat needs moisture in many areas but remains in fair condition with 12% being pastured and 26% jointed. Subsoil and topsoil moisture supplies improved slightly. Five days suitable for fieldwork. Livestock in good condition.

FLORIDA: Showers occurred almost daily along middle, lower east coast, but rains generally light. Remainder of State mostly dry except a few spotty, afternoon showers. High pressure with moderate northeasterly air flow dominated. Temperatures averaged near to slightly below normal.

Soil moisture mostly adequate, a few scattered wet spots following heavy rains, a few dry spots where rainfall light. Corn, tobacco good growth. Very light tobacco harvest just beginning. Peanut planting increasing. Soybean planting getting underway. Cotton planting continuing. Small grain condition variable. Disease a problem in some wheat fields. Combining of wheat about ready to start. Sugarcane good growth. Pastures mostly good to excellent. Cattle in good condition. Citrus groves generally good condition. Moisture sufficient. Heavy flush of new growth. New crop fruit making good progress. Major pruning active in freeze damaged groves. Warm days, mild nights prevailed during week in vegetable areas. Skies mostly cloudy to partly cloudy with scattered showers, thunderstorms. Heaviest rains occurred along lower east coast with some reports of hail. Total shipments increased 6% from previous week. Harvest gained celery, okra, potatoes, radishes and watermelons. Volume about steady carrots, Chinese cab-

bage, sweet corn, eggplant, escarole and tomatoes. Supplies declined snap beans, cabbage, cucumbers, lettuce, parsley, peppers, southern peas, squash and strawberries. Watermelon volume increasing as harvest moves northward. Harvest at peak, Immokalee area. Quality mostly good.

GEORGIA: Fair 23rd and 24th. Rain 25th. Scattered showers and thunderstorms 26th and 27th. Mild temperatures. Fair 28th through 29th. Mild except cooler at night. Warmest 85° at Homerville on 27th. Coldest 26° at Clayton on 24th. Most rain 4.54 in. at Cedartown 26th and 27th. Fair 1st and 2nd with a warming trend.

Soil moisture 53% surplus, 46% adequate. Two days suitable for fieldwork. Cool temperatures and wet soils again delaying field activity and slowing growth of some crops. Corn 93% planted, 96% last year, 92% average. Conditions 57% fair, 36% good. Cotton 36% planted, 78% last year, 70% average. Condition 11% poor, 73% fair, 16% good. Grain sorghum 17% planted, 27% last year, 20% average. Peanuts 29% planted, 56% last year, 53% average. Condition 8% poor, 77% fair, 15% good. Soybeans 4% planted, 8% last year, 7% average. Condition 7% poor, 86% fair, 7% good. Tobacco 100% transplanted, 100% last year, 98% average. Condition 42% fair, 51% good. Watermelons 91% planted, 93% last year, 90% average. Wheat condition 9% poor, 52% fair, 37% good. Rust and powdery mildew causing problems. Other small grains 48% fair, 47% good. Still assessing fruit crop damage from earlier freezes, some hail damage central areas. Peach condition 20% very poor, 16% poor, 31% fair, 31% good. Apple condition 16% very poor, 34% poor, 23% fair, 27% good. Pasture condition 70% good, 26% fair. Cattle fair to mostly good. Hogs good.

HAWAII: Weather variable. Wet in some sections of Island of Hawaii making field operations difficult. Favorable in other parts and other Islands. Crop development generally improving, especially leafy crops. Spray programs becoming more effective as weather dry. Vegetables: Supplies increasing. Quantity improving. Bananas: Supplies light. Papayas: Rains unfavorable Puna District, Island of Hawaii. Supplies light. Pineapples: Harvesting light. Sugar: More mills gradually back to grinding. Pastures: Generally fair to good.

IDAHO: Fair weather prevailed for most of the week with the exception of one storm system moving through the area toward the end of the week. Temperatures were near normal in the south with readings up to 3° below normal in the north. Extremes ranged from 78° at Grandview to a cold low of 9° at Stanley. Precipitation was below normal through south with less than 0.10 in. being reported. To the north amounts were near to slightly above normal with the most being reported at Sandpoint with 0.55.

Potato planting spread into more areas during the week, pushing progress to 27% complete. This is the same as last year and right on the average. Corn planting began in several areas with 9% planted. This compares to 15% last year. Spring wheat was 69% seeded versus 82% last year and a 66% average. Spring barley drilled reached 48%, 25 points behind both last year and the average. Sugarbeet planting reached 88%, the same as the average but 9 points behind last year. Over 6 days were suitable for fieldwork.

ILLINOIS: Temperatures 1 to 5° below normal. Precipitation light, 0 to 0.20 in.

Winter wheat 2% excellent, 63% good, 32% fair, 3% poor. Oats planting 95% complete, 100% 1981, 89% average. Plowing 1982 corn and soybeans ground 90% complete, 100% 1981, 94% average. Corn planting 31%, 18% 1981, 26% average. Alfalfa 2% excellent, 69% good, 26% fair, 3% poor. Pastures 5% excellent,

71% good, 22% fair, 2% poor; supplying 56% roughage requirements livestock, 73% 1981, 68% average. Soil moisture 10% short, 80% adequate, 10% surplus. Activities: Preparing the soil for planting, planting corn, applying fertilizer, plowing and seeding oats.

INDIANA: Another warm, sunny, dry week. Rainfall only trace southeast to 0.10 in. northwest. Air temperatures near normal, lowest 28°, highest 79°. Daily lows of soil temperature in 40's. Daily highs near 70°. April rainfall 1.00 to 2.50 in. below normal. Sunshine 57% of possible.

Fieldwork averaged 6 days. Topsoil and subsoil moisture adequate. Spring cropland 80% plowed, 1981 92%, average 80%. Corn 20% planted, 1981 10%, average 20%. Oats 85% seeded, 1981 100%, average 75%. Wheat condition mostly fair to good. Wheat 8 in. high, 1981 15 in., average 10 in. Wheat 30% jointed, 1981 50%, average 25%. Clover 80% seeded. Tobacco plant beds 90% seeded. Pastures mostly fair to good.

IOWA: A mild, dry week excepting moderate showers over a few southwestern counties on 28, 29th.

Topsoil moisture: 5% surplus, 83% adequate, 12% short. Subsoil moisture: 13% surplus, 82% adequate, 5% short. Plowing: 85% complete, last year 100%, normal 84%. Oat acreage seeded: 95% complete, last year 100%, normal 90%. Oat acreage emerged: 35%, last year 100%. Corn acreage planted: 15% complete, last year 26%, normal 27%. Fieldwork: 6.3 days suitable. Crop conditions: Pasture, winter wheat, oats and hay fair to good. Livestock in good condition.

KANSAS: Precipitation averaged 0.50 in. central, 0.50 to 1.00 in. south, over 1.00 in. elsewhere. Heaviest rains midweek. Temperatures averaged 50° northwest to 62° southeast, 4 to 6° below normal.

Wheat 80% jointed, 95% last year, 65% average; 0% headed, 45% last year, 5% average. Corn 25% planted, 40% last year, 20% average. Sorghum 0% planted (underway east central, southeast), 3% last year, 1% average. 1st cut alfalfa hay beginning southeast. Moderate to severe infestations of alfalfa weevil southeast, other scattered areas. Soil moisture short to adequate, very dry southwest. Range and pasture good to excellent except west central, southwest poor to fair. Most cattle on grass. Fieldwork: 4.5 days suitable.

KENTUCKY: Week was characterized by mild daytime highs and cool nighttime lows. Readings during day were near normal temperatures, while nighttime lows were about 5° below normal for much of area. Very little rain fell over north with many places receiving less than 0.50 in. while south received up to 0.75 in. over some places.

Days favorable for fieldwork averaged 5.2. Progress remains about 4 days behind schedule. Soil moisture 9% surplus, 69% adequate and 22% short. Corn planting advanced rapidly to 26% complete, but still well behind last year's 46% and the 32% average. Less than 10% of planted corn has emerged, and stands poor in some fields and some replanting may be necessary. Tobacco reported in fair to good condition, with most plants small (the size of a dime or smaller). Disease problems minimal. Small grains good, with 48% of barley and 5% wheat headed, well behind last year's early developing crop. Pastures good. Overall, warmer weather needed for plant development in all crops.

LOUISIANA: Temperatures near normal. Rainfall averaged 0.03 to 0.70 in.

Soil moisture adequate to surplus. Days suitable: 3.3. Spring plowing 87%, 95% 1981, 74% 1980. Corn planted 92%, 88% 1981, 84% average; emerged 86%, 78% 1981, 67% average; condition fair to good. Cotton planted 27%, 67% 1981, 39% average; emerged 11%, 50% 1981, 22% average; condition fair, growth very slow. Rice planted 75%, 79%

1981, 80% average; emerged 65%, 69% 1981, 63% average; condition fair. Sorghum planted 50%, 65% 1981; emerged 34%, 56% 1981; condition fair. Soybeans planted 0%, 6% 1981, 5% average. Sugarcane rated fair to good. Sweetpotatoes planted 19%, 43% 1981; condition fair to good. Wheat headed 94%, 97% 1981, 87% average; turning color 22%, 71% 1981; condition fair to good. Vegetables rated fair to good. Pastures, livestock rated good.

MARYLAND AND DELAWARE: Temperatures averaged 3° below normal. Highs were in the upper 60's to low 70's and lows averaged in the 40's. Precipitation ranged from 0.55 in. at Oakland and 2.76 in. in Upper Marlboro; the 15 remaining stations reported 1.54 in. averaged. May 1st and 2nd were in the mid 70's with lows in the 40's with no rain reported.

Heavy rains early in the week delayed spring fieldwork. Maryland realized only 3 days suitable for fieldwork while Delaware had 5 days. Maryland's progress percentages: Acres plowed 80% this year, 85% last. Potatoes and sweetpotatoes 100% both years; spring oats planted 90%, 100% last. Barley headed 20% this year, 40% last. Oats headed 5% this year, 30% last. Rye headed 15%, 80% last year. Field corn 15% planted this year, 30% last year. Vegetable plantings were: Snap beans 35%, 25% last year. Sweet corn 25%, 45% last year. Tomatoes 15%, 5% last year. Cucumbers and watermelons, 35 and 20% respectively, 5% for both last year. Peaches in bloom 85%, 80% last year. Apple bloom 50%, 100% last year. Delaware progress percentages: Acreage plowed 85%, 95% last year. Spring oats all planted both year. Field corn planted 35%, 40% last years; sweet corn 50% planted, 40% last year. Watermelons 20% planted, 15% last year. Peach bloom 85%, 100% last year. Apple bloom 60%, 100% last year.

MICHIGAN: Temperatures averaged 1 to 3° above normal. Daily highs ranged from 40's in the north to high 60's in the south. Rainfall was light.

Fieldwork active with over 6 days suitable. Sugarbeet planting 95% complete, 80% last year and 60% average. Corn planting 10% complete, 6% last year, 7% average. Oats 65% planted, 75% last year, 52% normal. Potatoes 25% planted. Winter damage on winter wheat above normal and most severe in eastern half of Lower Peninsula.

MINNESOTA: Temperatures averaged near normal south to 5° above normal north. Extremes: 86° at Hallock, 22° at Warroad. Precipitation averaged 0.35 to 0.69 in. below normal. Precipitation totals less than 0.10 in. except patchy areas around 0.25 in. southern half.

Past 1.5 weeks of warm, dry weather allowed farmers to get out in fields. Fields still wet but firm enough to hold machinery. Soils in good condition this spring and nearly ideal for planting. Topsoil moisture 16% short, 81% adequate, and 3% surplus. Subsoil in much better shape. Planted: Spring wheat 39%, 1981 91%, normal 57%; oats 47%, 1981 85%, normal 58%; barley 24%, 1981 78%, normal 48%; sugarbeets 44%, 1981 86%, normal 52%; green peas for processing 24%, 1981 52%, normal 38%. Ground prepared: Field corn 22%, 1981 56%, normal 39%, soybeans 11%, 1981 32%, normal 18%.

MISSISSIPPI: Temperatures near to below normal. Extremes: 44 and 84°. Rainfall widespread except southeast and coastal sections, most occurring over 3 to 4 day period.

Soil moisture surplus to excessive north and east central area. Adequate elsewhere. Fieldwork: 2.2 days suitable. Planting advanced in areas not too wet. Cotton 22% planted, 71% last year, 41% average; 5% to stand, 41% last year, 16% average. Rice 42% planted, 88% last year, 66% average; 22% to stand, 47% last year, 31% average. Corn 65% planted, 90% last year; 48% to stand, 70% last year. Soybean

planting just underway. Winter wheat 92% headed, 2% ripe; condition fair to good. Peanuts 12% planted; sorghum 1%; watermelons 80%; sweetpotatoes 6% planted. Pasture condition good to fair.

MISSOURI: Cool air prevailed as temperatures averaged 5° below normal. Precipitation was widespread, but spotty.

Fieldwork: 3.7 days suitable. Plowing 77% completed. Oats 92% seeded. Corn 41% planted, last year 40%, normal 36%. Grain sorghum 7% planted, last year 13%, normal 9%. Soybeans 3% planted, last year 6%, normal 4%. Wheat 2% headed, last year 46%, normal 12%. Cotton 4% planted, last year 37%, normal 26%. Condition of winter wheat and pastures mostly fair to good. Topsoil moisture supply mostly adequate.

MONTANA: Temperatures averaged 2° above normal northeast to 2° below normal west. Precipitation light except a few areas central, south central and southeast where up to 0.50 in. fell early in the week.

Winter wheat good condition. Fieldwork moved into full swing, 5 days suitable. Spring wheat and barley 20% planted, sugarbeets 30% planted. Calving and lambing 85% complete. Some livestock being turned onto grass. Ranges growing, livestock water supply adequate.

NEBRASKA: Precipitation: Widespread amounts averaged from 0.30 to 0.50 in. in northern areas; 1.00 to 2.00 in. across the south. Temperatures: 2° below normal north; 6° below normal in south.

Corn planted 5%, 20% last year, 10% normal. Oats seeded 90%, 100% last year, 90% normal. Sugarbeet planting complete. Winter wheat good to fair. Pasture and range feed supplies short to adequate. Topsoil moisture short to mostly adequate. Subsoil moisture short to mostly adequate. Days suitable: 4.1.

NEVADA: Mostly warm and sunny. Temperatures lowered slightly midweek but recovered end of period. Mean temperatures about 5° above normal. Extremes: 92 and 18°. Light, scattered showers east central early and late in period. None west or south.

Warm, dry weather accelerated seedbed preparation and seeding operations after slow start this spring. Small grain planting well along, except at higher elevations. Good progress calving, lambing and shearing sheep.

NEW ENGLAND: Temperatures averaged above normal. Below freezing temperatures were limited to northern New England and the Berkshires of southern New England late week and over weekend. Rainfall was about 0.50 in. over Maine and Vermont, and between 1.00 and 1.50 in. over New Hampshire and southern New England. Soaking rain over New Hampshire and southern New England 26th and 27th. Scattered areas of rain over eastern areas early 28th and mainly over northern and western Maine 28th, 29th and 30th. Most areas of northern and south central New England had more showers on the 2nd.

NEW JERSEY: Temperatures averaged near normal. Extremes: 27° at Newton on 29th and 81° at Freehold on 27th. Rainfall averaged 2.11 in. north, 2.24 in. central and 2.28 in. south. Heaviest 24-hour total 2.30 in. at Seabrook on 27th to 28th. Soil moisture, in percent of field capacity, averaged: 97.2 north, 95.8 central and 94.4 south. Four inch soil temperature averaged: 55° north, 57° central and south.

Fieldwork: 3.5 days suitable. Topsoil moisture adequate to excessive. Limited asparagus harvest begun. Spinach harvest continues. Irish potato planting nearing completion. Preparation and planting of vegetables active. Apples, blueberries and

strawberries blooming. Warmer nighttime temperatures would be beneficial.

NEW MEXICO: Average temperatures were slightly below normal. Scattered rainfall fell over most areas.

Farm and ranch activities were interrupted in some areas through part of the week due to rainfall. Soil moisture in adequate supply in the northwestern areas and in short to very short in most other areas. Wind damage was light to moderate for most of the week. Planting of cotton was slowed in some areas due to rainfall. Some early planted fields beginning to emerge. Alfalfa fields in good condition. The first cutting well underway in southern areas. Corn planting underway with approximately 20% planted. Irrigated wheat and barley in good condition with about 75% jointing. Dryland wheat in poor to fair condition. Lettuce in good condition with harvest just getting underway. Onion and chile fields in good condition and progressing well. Ranges in poor to fair condition. Additional moisture needed to start new grass and to help prevent range fires. Cattle and sheep in good flesh in most areas. Some supplemental feeding continuing.

NEW YORK: Dry week, significant rainfall confined to New York area and Lower Hudson Valley. Chilly midweek, but temperatures averaged above normal.

Corn planting just starting. Oat planting 21% complete, 52% 1981, 48% average. Variable winter damage to alfalfa, winter wheat. Hay growth slow so far. Some peach orchard winter injury, other orchards ok. Western apples half inch green stage. Sweet cherries near full bloom. Potatoes 90% planted on Long Island, early acreage 25% replanted due to early April freeze. Upstate potato planting in early stages. Orange county onion, celery planting active.

NORTH CAROLINA: Temperatures: Averaged 3 to 5° below normal. Precipitation: Abundant in all areas with the greatest total being 4.20 in. at Cape Hatteras.

Soil moisture: 79% adequate and 21% surplus. Fieldwork: 3.4 days suitable. Crop conditions: Wheat, oats, barley and rye fair to mostly good; pasture, tobacco beds mostly good; Irish potatoes fair to mostly good; peaches mostly poor; truck crops fair to good. Plantings: Corn 84%, 1981 90%, 84% average; cotton 25%, 1981 68%, 50% average; peanuts 5%, 1981 18%, 17% average; soybeans 2%, 1981 6%; flue-cured tobacco 33%; 1981 64%, 40% average. Major farm activities: Transplanting tobacco, planting corn, and land preparation.

NORTH DAKOTA: Temperatures ranged from 1° below normal north central and southeast to 6° above normal northwest. Warmest was 84° northwest, 1st. Coolest was 19° northeast 26th. A Pacific cold front on 29, 30th brought up to 0.52 in. precipitation west. Average ranged from 0.17 in. west central and south central to zero northwest. Average precipitation was below normal all districts ranging from 0.18 in. below normal west central to 0.39 in. below normal southeast.

Fieldwork was in full swing most areas by week's end. Warm, dry, and windy weather prevailed. An average of 6.4 days were suitable for fieldwork. Seedings of small grains underway. Rapid progress expected this week. Hard red spring wheat seeding about 18 days behind last year's early pace and 10 days behind average. The percents seeded by 2nd followed by last year and average were: Hard red spring wheat 18, 61, 35; durum 11, 39, 26; barley 25, 50, 31; oats 13, 59, 31; sugarbeets 42, 84, 55. Some shortages of topsoil moisture appeared due to the dry, windy weather. Overall, 18% of State short, last year 61, average 50.

OHIO: Temperatures averaged slightly below seasonal levels. Freezing temperatures or frost reported

at most stations. Afternoon temperatures pleasant and evaporative loss rates high. Precipitation quite widespread across northern half. Totals averaged at or near 0.25 in., well below evaporative losses. Soil moisture supplies continued to decline. Four inch bare soil temperatures warming rapidly as soil moisture supplies diminish.

Germination and emergence will be accelerating, but moisture problems could be moving to forefront unless showers develop at midweek. Corn planting at record pace. Approximately 33% of northwest wheat crop will be disced and planted to another crop. Soybean planting started. Condition of all crops averaging fair. Corn planted 45%, 8% 1981, 15% average. Oats planted 80%, 80% 1981, 74% average. Tobacco beds sown 100%, 100% 1981, 100% average. Potato planted 30%, 22% 1981, 33% average. Days favorable: 7. Pasture condition fair. Soil moisture 37% short-63% adequate.

OKLAHOMA: A cool week with mean temperatures 5 to 8° below normal. Rainfall ranged from 0.32 to 1.91 in. in central areas.

Light to heavy thundershowers brought much needed relief to wheat and other small grains. Dryland wheat in all areas but southwestern localities should improve significantly. Some southwestern localities damaged by drought to extent moisture not beneficial. Wheat jointing: 95%, 100% 1981, 80% average. Wheat heading: 30%, 80% 1981, 40% average. Sorghum planted: 5%, 15% 1981, 5% average. Days suitable for fieldwork: 4.9.

OREGON: Near normal temperatures. Slight precipitation; almost 0.30 in. along coast; Willamette Valley, north central and northeastern portions up to 0.20 in.; traces elsewhere. Another week of open weather.

Soil moisture supplies mostly adequate. Winter wheat mostly good; some fair. Spring seeding in full gear. Seed crops good. Mint flaming continues. Strawberries blooming. Pear and apple bloom moving to later areas. Some heating used in Hood River Valley; slight damage to cherries in low spots. Marion blackberries show winter damage and disease problems. Sprinklers used for frost protection in cranberry bogs. Filbert leaf roller sprays going on. Hermiston-Boardman early potatoes up; final late planting almost complete. Western onions being seeded at rapid pace. Cannery peas up; final plantings going in. Preparing to plant sweet corn and snap beans. Livestock condition mostly good. Range and pastures responding to warm weather. Stock being turned on ranges due to hay shortages, although ranges not quite ready for grazing.

PENNSYLVANIA: Week began wet in the east. Two inches of rain measured at Philadelphia. Cold by midweek with morning lows below freezing north and western sections of the State. Dry weather and moderating temperatures at week's end. Extremes: 80 and 20°. Statewide average temperature near normal. Average precipitation 0.61 or 0.25 in. below normal.

Four days suitable. Moisture mostly adequate to short. Activities: Plowing; disking; harrowing; spraying; hauling manure; fixing fences; planting corn, oats, potatoes, tobacco beds; seeding alfalfa. Plowing 51% complete, last year 71%, 65% average. Oats 60% planted, last year 76%. Potatoes 40% planted compared with 43% last year. Planting tobacco beds 50% complete, last year virtually complete. Corn 5% planted compared with 14% last year and average of 10%. Barley less than 5% in boot stage, last year 8%. Wheat less than 5% in boot stage, last year 6%. Hay stand conditions mostly good to fair. Feed from pastures average to below average. Peaches 43% pink and 20% in full bloom or past. Cherries 43% pink, 16% in full bloom or past. Apples 28% pink, 12% in full bloom or past.

PUERTO RICO: Island average rainfall 0.41 in. or 0.84 in. below normal. Temperatures averaged about 79° on Coasts and 75° Interior Divisions. Extremes: 92 and 57°.

SOUTH CAROLINA: Temperatures averaged 3 to 5° below normal. Rainfall heavy first of the week especially eastern and southern areas. Thunderstorm moved eastward across the State 26th producing gusty winds, some hail and at least 2 tornadoes in northeastern Chesterfield County.

Soil moisture adequate to surplus. Days suitable for fieldwork 3. Corn condition good, 94% planted, 98 last year, and 94 average. Cotton rated fair as 35% has been planted, compared to 91 last year, 78 average. Dry, warm weather needed. Some replanting necessary. Tobacco fair, 91% transplanted, 98 year ago, and 92 average. Peanuts poor to fair, 36% of acreage planted, compared to 37 a year ago, 39 average. Wheat condition fairly good; powdery mildew evident, 79% headed, 93 a year ago. Vegetable planting progressing well, condition fair to good.

SOUTH DAKOTA: Temperatures averaged within 3° of normal. Extremes 87 and 17°. Precipitation extremely light. Under 0.30 in.

Topsoil moisture mostly adequate. Large areas in south central and eastern districts short. Smaller shortage areas elsewhere except southwest and northwest. Major activities small grain seeding, row crop field preparation, calving and lambing. Fieldwork: 6 days suitable. Winter wheat fair condition but needs moisture in major districts. Feed supplies short. Range and pastures fair condition. Twenty percent of cattle moved to summer pasture. Stock water supplies adequate. Calving and lambing 80% complete. Spring wheat seeded 54%, 1981 100%, average 68%. Barley seeded 51%, 1981 96%, average 64%. Oats seeded 63%, 1981 97%, average 70%.

TENNESSEE: The more significant rainfall amounts occurred the first part of the week when a low pressure and associated front moved across the State. Lighter precipitation affected the State during the latter portion of the week when a high pressure trough prevailed. Temperatures generally 3 to 4° less than normal. Rainfall amounts heaviest in west where 1.00 to 2.00 in. fell. Middle and east generally received 0.50 to 1.00 in.

Fieldwork: 2.0 days suitable. Soil moisture mostly surplus. Land preparation 67% complete, 1981 85%, average 74%. Corn 25% planted, 1981 59%, average 39%. Cotton 3% planted, 1981 58%, average 35%. Wheat 35% headed, oats 15% headed. Some early tobacco transplanting has begun. Pastures improved, mostly fair to good. Cattle in good condition. Activities limited due to wet soils.

TEXAS: Weather: Low pressure trough moved across State first part week, triggering scattered thunderstorms. High pressure ridge dominated latter part week causing moist southerly flow. Scattered thunderstorms eastern half State. Temperatures 3 to 5° below normal southern tip State. Elsewhere, near normal. Rainfall 0.25 to 0.50 in. above normal West Texas; 1.00 to 2.00 in. above normal southern tip of State; 0.50 to 0.75 in. below normal East Texas. Elsewhere near normal.

Range and livestock: Range, pasture condition continued to improve. Livestock condition good to excellent. Plains, pastures showing some growth. Additional rain warmer temperatures needed to sustain growth. Supplemental feeding continues Plains, portions North Texas. Central Texas grasses, weeds making good growth, proving ample grazing. East Texas, showers heavy-pasture development excellent.

South Texas, Rio Grande Valley, pasture condition excellent. Grasses showing good growth, providing livestock with good grazing.

Commercial vegetables: Rio Grande Valley, harvest onions, carrots continued, onion harvest beginning to wrap up. Watermelons, tomatoes making good growth. Watermelon harvest expected by mid-May. Light volume cabbage available. Citrus harvest continues, nearing completion. Coastal Bend, moisture supplies stable. Development of watermelons, cucumbers, tomatoes allowed by cool ground temperatures. San Antonio-Winter Garden area, rainfall helpful, irrigation continues. Spring crops slowed due to cool temperatures. East Texas, growth of tomatoes, watermelons slow due to cool, rainy conditions. Despite slow growth, tomatoes progressing well. Some replanting vegetables necessary due to heavy rain. Trans-Pecos region, chili planting underway. Several nights cold temperatures slowed development onions, potatoes. Plains onions, potatoes continue to make good progress, potatoes emerging. Green pepper planting beginning. Cool temperatures slowed growth spring vegetables. Peach trees continue to progress well. Fruit set ranges from heavy to light. Pecan trees continue to bloom most late bloom stage. Crop developing slower than normal. Spraying continues.

Crops: Scattered showers Panhandle beneficial most dryland wheat fields. Cool, cloudy weather Blacklands coast slowed development most spring crops. Rains along coast interrupted most fieldwork. Cotton growth, development Blacklands through Coastal Bend slowed cloudy weather, cool soil temperatures. Seedling disease problem some areas Blacklands; some fields replanted. Cotton planting underway limited areas High Plains; many dryland producers waiting for more rain before planting. Sorghum approaching boot stage southern part State; many fields making good growth following recent rains. Insects continue problem South Central Texas to coast, some fields severely damaged. Some fields Blacklands replanted following previous week's hail damage. Rain needed High Plains dryland producers begin planting. Corn planting good progress across High Plains; many fields seeded following recent showers. Early fields emerged making good growth. Cool, cloudy weather slow crop development Blacklands. Scattered showers Northern High Plains benefited many dryland wheat fields. Most fields critical moisture stage; more rain welcomed. Many drought-stricken fields headed prematurely. Severe to moderate hail damage northern part Armstrong County. Irrigated wheat good progress across Panhandle. Fields turn color in Central Texas. Rust, powdery mildew reduce yields Blacklands to coast. Reported condition across State 66% of normal with 7% excellent; 27% good; 52% fair; 14% poor. Condition compares with 79% of normal last year. Rice planting continued along coast; many producers spraying for grass weeds. Growth slowed cloudy weather. Irrigated alfalfa hay good growth Low Plains. Weevils problem, spraying operations active. Cool, cloudy weather slowed growth Central, East Texas. Some early maturing soybeans Blacklands. Sunflowers emerged, making good growth High Plains. Sugarbeets up to good stands High Plains; growth slowed cool temperatures. Cotton planted 17%, 24% 1981, 22% average. Cotton squaring 2%, 0% 1981. Rice planted 90%, 92% 1981, 92% average. Rice emerged 70%, 83% 1981. Sorghum planted 67%, 70% 1981, 64% average. Wheat headed 42%, 60% 1981. Corn planted 86%, 84% 1981, 78% average. Peanuts planted 7%, 15% 1981, 14% average. Sugarbeets planted 100%, 93% 1981, 98% average. Sunflowers planted 7%, 9% 1981, 3% average.

UTAH: Few widely scattered showers latter part period. Accumulated amounts moisture generally light to moderate, but locally heavy few locali-

ties. Rising trend temperatures to average generally above normal for period. Averages ranged from near normal to 7° above. Pan evaporation well above normal most localities ranging from 1.30 to 2.00 in. major agricultural areas.

Spring planting ran behind normal and behind last year, but made good progress during the week. Days suited for fieldwork: 6.4. Spring wheat 76% planted, 30% emerged. Barley 75% planted, 31% emerged. Oats 51% planted; 19% emerged. Frost damage to early fruits serious. Apricots and peaches may be as low as 20% of normal production and sweet cherries about 35% of normal. Irrigation has begun in warmer valleys. Water supply should be adequate over most of State. Range feed slow in developing due to cool weather. Livestock movement to spring ranges will be delayed in some areas.

VIRGINIA: Rain fell first of period with amounts ranging around 1.50 in. The greatest amounts fell in southwest; 2.82 in. Scattered frost was reported as temperatures averaged 2 to 5° below normal. The lowest temperature was 25° at Chilhowie, Galax and Staffordsville, with some hail reported at Hot Springs.

Farmers welcomed the rain at midweek even though it slowed planting of corn, soybeans, peanuts and tobacco. Small grains heading with short straw, due to the cool spring temperatures. Hay and pasture growth also shorter than normal, but recent warm days have brought improvement. Topsoil moisture rated 88% adequate, 10% surplus, 2% short. Days suitable for fieldwork: 3.3. Corn planting progress: 48% planted, 59% 1981, 48% average. Emerged stands in good to excellent condition. Soybean planting: 3%, 8% 1981, 4% average. Cotton 60% planted, 16% 1981, 60% average. Peanuts 4% planted, 20% 1981, 4% average. Transplanting flue-cured tobacco 2% complete, 10% 1981, 1% average; cool weather slowed growth in plant beds. Pastures, wheat and hay in good to excellent condition and majority of livestock have been moved to pasture. Most apples in good condition, but rate poor in southeast and southwest. Peaches in fair condition. Orchards in coastal counties suffered most of the damage in late March freeze.

WASHINGTON: West: Springwork progressed at a fast pace due to the good weather. Vegetable plantings included green peas, carrots, cauliflower, and broccoli. Early peas were emerging, tulip and cauliflower harvests continued, and rhubarb harvesting was underway. Strawberries were close to blossoming and blueberries have started to bloom. Cattle in good condition, pastures growing well, and hay supplies are adequate.

East: Springwork progressed with seeding of spring wheat and barley, seed potatoes, dry peas, green peas, and field corn. Most winter wheat in good condition. Wire worms a problem in some areas. Asparagus harvest continues, about three weeks behind last year. Soil moisture adequate to good. Cattle in good condition. Range and pasture feed adequate. Hay and other roughage short in a few areas.

WEST VIRGINIA: Temperatures averaged 3° below normal. Low 21°, high 80°. Precipitation above normal in northeast and southern areas, near normal in the central and well below normal elsewhere.

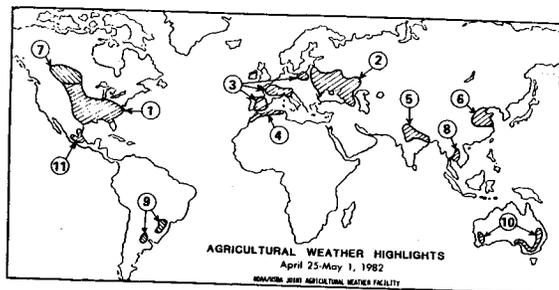
Soil moisture adequate to short. Days worked: 4.4. Crop conditions good to fair. Hay short to adequate. Grain and other feeds adequate. Activities: Plowing; fencing; fertilizing; planting oats, some corn. Oats two-thirds sown. Tobacco beds virtually sown.

WISCONSIN: Temperatures averaged near normal. A rather dry week although showers fell on the 26th

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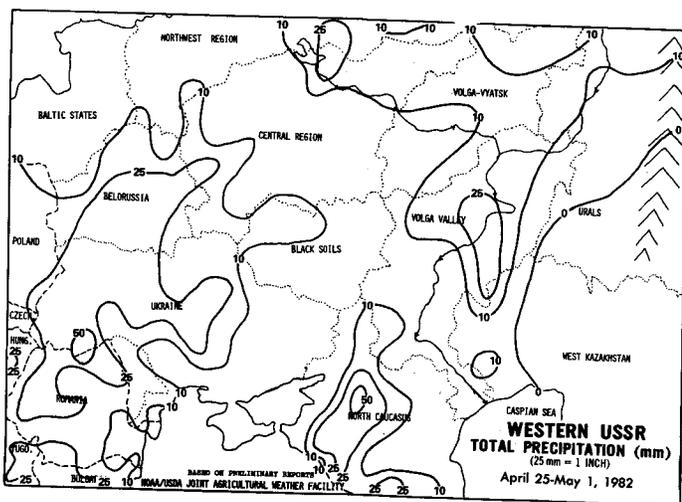
International Weather and Crop Summary

April 25-May 1

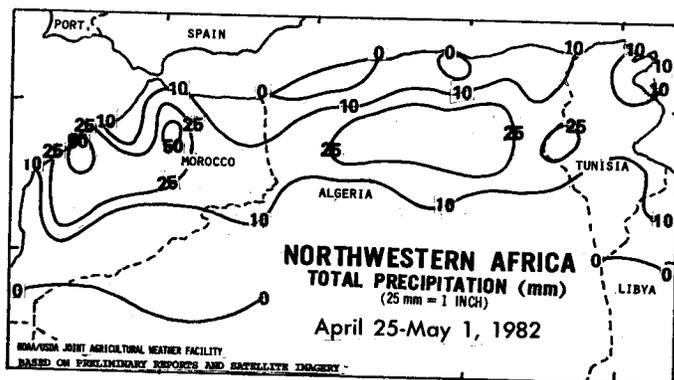


HIGHLIGHTS

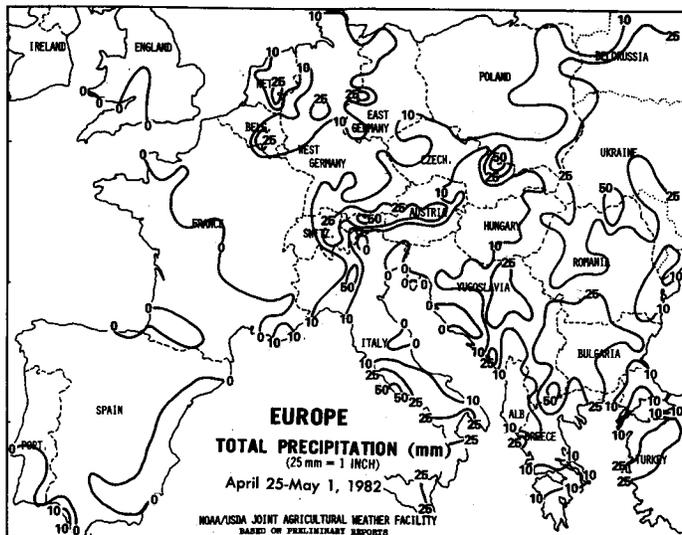
1. UNITED STATES: Rains help winter wheat in the central and southern Plains but delay fieldwork and increase plant diseases in the South and Southeast. Sunny weather favors planting of corn in the north-central States and spring grains in the northern Plains.
2. WESTERN USSR: Showers and seasonal temperatures benefit winter grains.
3. EUROPE: Weather becomes too dry in some crop areas.
4. NORTHWESTERN AFRICA: Favorable weather aids crop development in Morocco and maturing crops in Algeria.
5. SOUTH ASIA: Heavy rains delay final winter grain harvest.
6. EASTERN ASIA: Widespread rains benefit wheat crop, but aggravate wet conditions in southeastern rice areas.
7. CANADA: Light rain, mild weather aids spring fieldwork.
8. SOUTHEAST ASIA: Monsoon rains still range south of Thailand's major corn and rice area.
9. SOUTH AMERICA: Generally favorable harvest weather; good soil moisture conditions help wheat planting in Argentina.
10. AUSTRALIA: Beneficial showers in many areas are good for wheat planting.
11. MEXICO: Heavy rains drench most of the northeast, boosting development of grains, citrus, and sugarcane. Dryness stresses young corn in the southern Plateau.



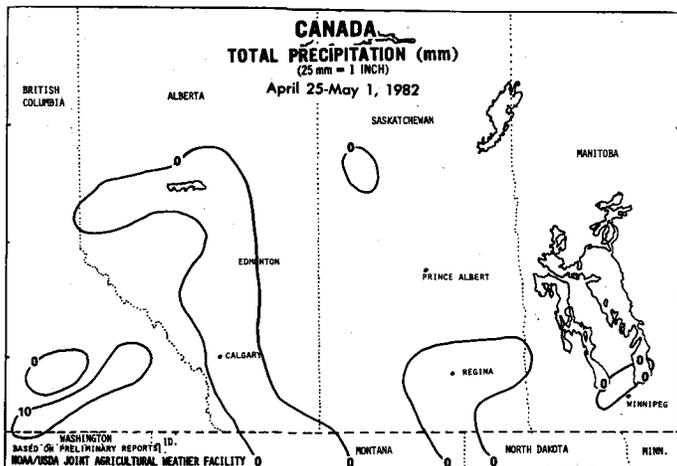
WESTERN USSR: Wet weather occurred over many areas with the heaviest amounts of more than 25 mm falling at some locations in Belorussia, the western Ukraine, and the North Caucasus. These showers, along with seasonal temperatures, provided favorable conditions for winter grains in most areas. Winter grains are probably in the early jointing stage in the southern Ukraine and North Caucasus, and early vegetative growth is occurring elsewhere. The precipitation tapered off during midweek allowing spring fieldwork to progress in some areas. Reports indicate that corn and sunflowers are being planted in the southern Ukraine and North Caucasus, with spring fieldwork ranging as far north as Volga Vyatsk.



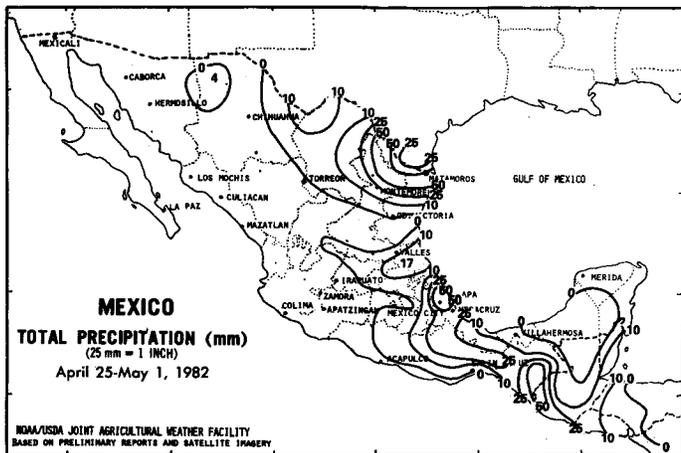
NORTHWESTERN AFRICA: Substantial rain fell over Morocco's grain areas. The moisture benefited winter grains which were in the filling period. Weekly rainfall totals were generally light along Algeria's crop areas, aiding maturing crops. Unusually heavy rains fell in the interior of northern Algeria, which is mostly an area of rough grazing land.



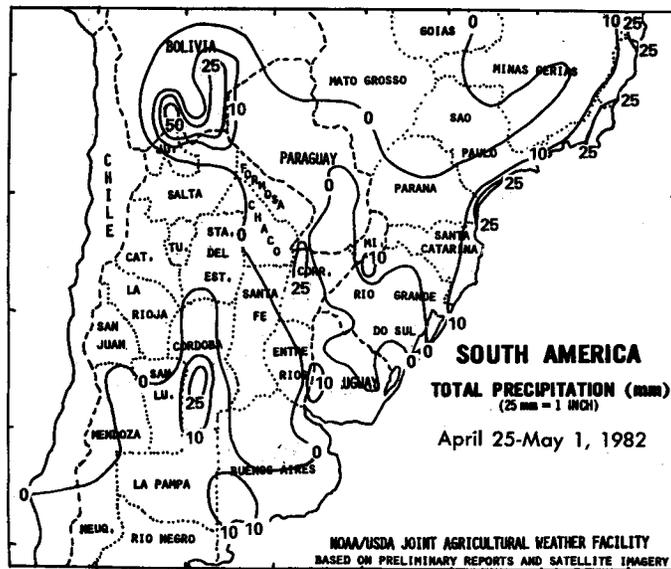
EUROPE: Generally dry weather continued over England, France, and most of northern Italy, reducing topsoil moisture supplies needed for both the early growth of winter grains and good germination of spring-sown crops. Reports indicate that in southern Spain, where much of the Spanish winter grain is grown, the crop appears to be in good condition even though this week was dry. However, more rain is needed in northern Spain where the outlook is rather pessimistic. In contrast, wet weather continued over southeastern Europe and conditions improved for winter grains in southern Poland.



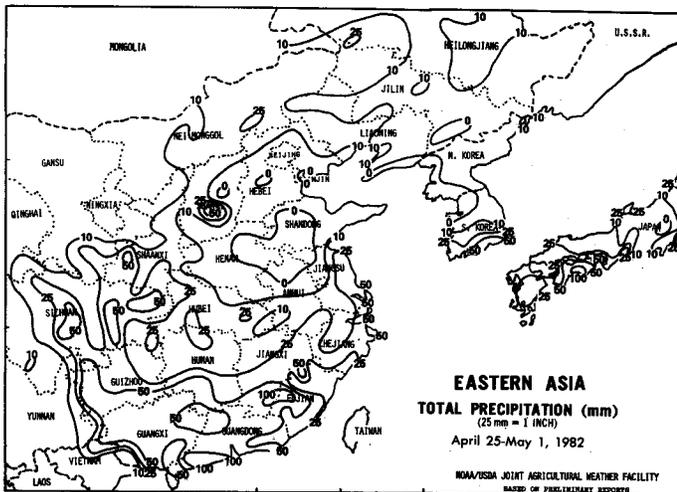
CANADA: A frontal system moved across the Canadian Prairies during midweek, producing light showers in the wheat belt. Otherwise, dry weather prevailed. Mild weather should allow active field preparation and early spring sowing as temperatures become more favorable for seed germination and crop emergence.



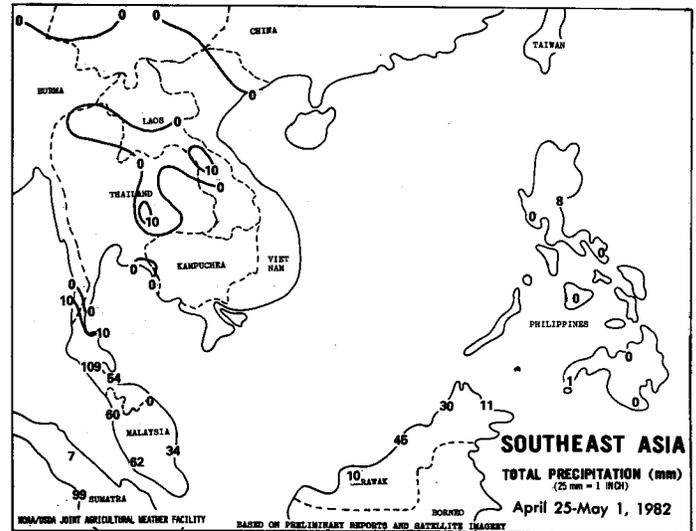
MEXICO: Heavy rains over most of the east coast, especially the upper section, will boost growth of grains, citrus, and sugarcane. Lighter amounts further south benefited coffee. Dryness over the southern Plateau corn belt continued to stress the young crop and caused heavier than usual irrigation. Sunny, hot weather over the northwest and north central regions was ideal for development of cotton and maturation and harvest of wheat.



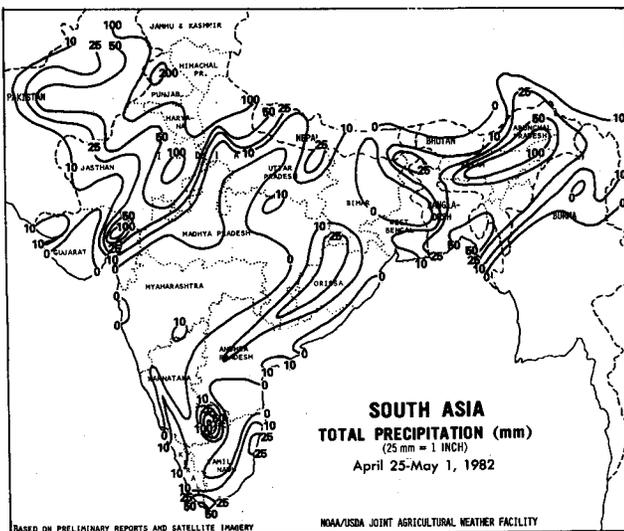
SOUTH AMERICA: Favorable harvest weather prevailed during much of the week in both Argentina and Brazil. A weak frontal system produced some rainfall during midweek in Cordoba and southern Buenos Aires, and scattered showers fell in southern Brazil. However, crop harvests should have made good progress in both countries. Brazil's soybean harvest is entering the late stages with early wheat planting underway. Dry weather in Sao Paulo and Minas Gerais should aid citrus and early coffee harvests. In Argentina, soil moisture conditions should be favorable for wheat planting in both central and southern crop areas.



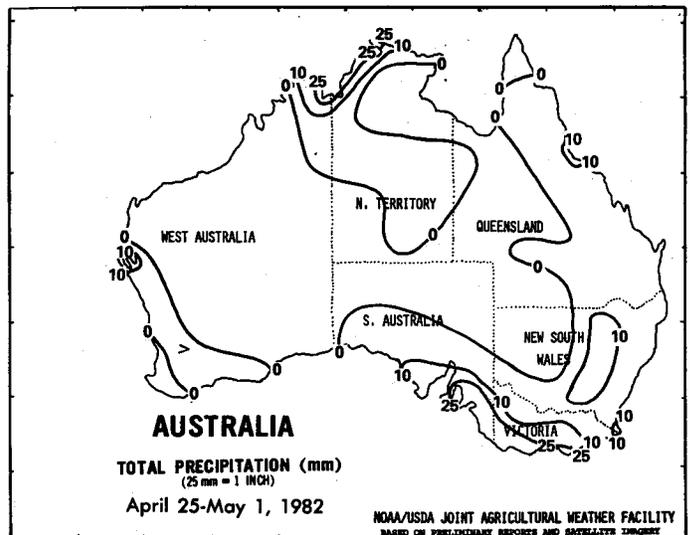
EASTERN ASIA: Light rainfall benefited much of the winter grain areas of Hebei, Shanxi, and Henan, where the crop is entering the heading period. Additional moisture is needed in this area to sustain crop development. The widespread showers also moistened soils in preparation for corn and soybean planting throughout northern China. Heavier rain fell in Sichuan aiding winter grain filling. Significant showers in the Yangtze Valley continued to aid vegetative growth of rice as well as the planting and early growth of cotton and other spring-sown crops. Persistent heavy rainfall in southeastern rice areas may have become excessive for the saturated soils where the rice crop approaches the heading period. North Korea was mostly dry, while showers produced heavier rainfall from north to south in South Korea.



SOUTHEAST ASIA: A few scattered showers and thunderstorms brought some moisture to eastern Thailand and vicinity; however, the monsoon's rainy pattern was still situated to the south over Indonesia, Malaysia, and Thailand's southern peninsula. Premonsoon showers in Thailand have aided corn planting in the central plains. The wet-season rice crop will be planted as soon as significant monsoon rains begin in the crop areas. The onset of the monsoon season usually occurs in early May over Thailand and adjacent countries of Southeast Asia.



SOUTH ASIA: Premonsoon showers, produced by instability in the westerly flow, continued to persist over northern India, producing much-above-normal rainfall. Normally, this region picks up much of its annual rainfall during the summer monsoon which begins in mid-June. Locally heavy amounts of rain (more than 100 mm) drenched some locations in Punjab, Haryana, eastern Rajasthan, and northern Uttar Pradesh. As a result, the heavy rain produced extremely unfavorable conditions for the late winter grain harvest. Elsewhere, wet weather occurred in a band extending northeastward from the southern Peninsula through the east coastal interior into Bangladesh.



AUSTRALIA: One storm system brought substantial moisture to southern and some eastern crop areas during the week, and another storm late in the week produced some light rainfall in crop areas of Western Australia. About 80 percent of Western Australia's annual rainfall comes during autumn and winter from frontal rains caused by mid-latitude depressions. These storms are associated with a shift toward the Equator in the upper-level winds, commonly referred to as the jet stream. This seasonal rainfall pattern coincides with the planting and vegetative growth periods of the wheat crop. Thus, timely moisture is essential for proper crop development, especially in the western part of the wheat belt. Elsewhere, in the wheat belt, rainfall tends to be more evenly distributed throughout the year.

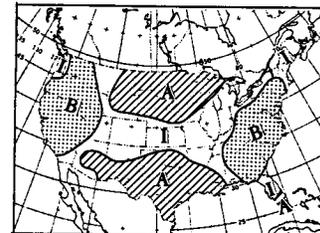
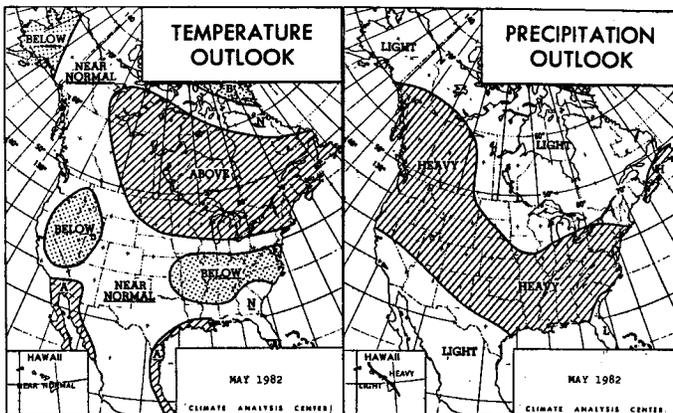


FIRST CLASS MAIL

210

Average Monthly Weather Outlook

OUTLOOK FOR 90 DAY AVERAGE TEMPERATURES
MAY THROUGH JULY 1982



- ABOVE NORMAL, 60% CHANCE OF OCCURRENCE
- BELOW NORMAL, 60% CHANCE OF OCCURRENCE
- INDETERMINATE, 50% CHANCE OF ABOVE NORMAL
50% CHANCE OF BELOW NORMAL

The two categories Above and Below are to be compared to the long-term average or "normal" temperatures of the years 1941-70. Each category has a natural climatic frequency or probability of 50%. Each carries a 60% probability of occurring where forecast (shaded area) based on the verification scores of twenty-three years of experimental seasonal forecasting.

(cont. from p. 16)
and the 30th. Many areas received no rain and those that did generally received 0.20 in. or less. Cooler temperatures which engulfed the State on the 27th through 30th gave way to milder temperatures on the 1st and 2nd.

Fieldwork: 5 days suitable. Fieldwork began in many areas. Oats 26% planted, 48% 1980, 41% average. Oats planting most advanced in the south central and southeast districts and lagging considerably in the east central district. Corn planting just starting; 2% complete, 7% 1980, 5% average. Potatoes being planted in the central sands region. Peas being planted. Maple season complete with reports ranging from fair to good. Topsoil moisture supplies rated 4% short, 80% adequate and 16% surplus.

WYOMING: Above normal temperatures and below normal precipitation continue. North central particularly dry with virtually no precipitation in

Eurasia Outlook for May

Wind River Valley and temperature averages as much as 4° above normal.

Topsoil moisture short 61% State. Five days suitable for fieldwork. Spring wheat planted: 35%, last year 60%; normal 63%. Spring wheat emerged: 20%, last year 35%; normal 32%. Oats planted: 35%; last year 65%; normal 62%. Oats emerged: 5%; last year 35%; normal 26%. Barley planted: 60%; last year 75%; normal 72%. Barley emerged: 25%; last year 50%; normal 44%. Sugarbeets planted: 90%; last year 95%; normal 84%. Sugarbeets emerged: 5%; last year 30%; normal 20%. Corn planted: 15%; last year 20%; normal 14%. Potatoes planted: Few; last year 5%; normal 5%. Winter wheat mostly fair condition. Alfalfa prospects mostly good. Additional moisture need for good development of winter wheat and other crops. Spring calves born: 90%; last year 85%; normal 85%. Farm flock: Ewes lambled 90%; shorn 80%. Range sheep: Ewes lambled 55%; shorn 60%. Summer grazing prospects fair to good.

