

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

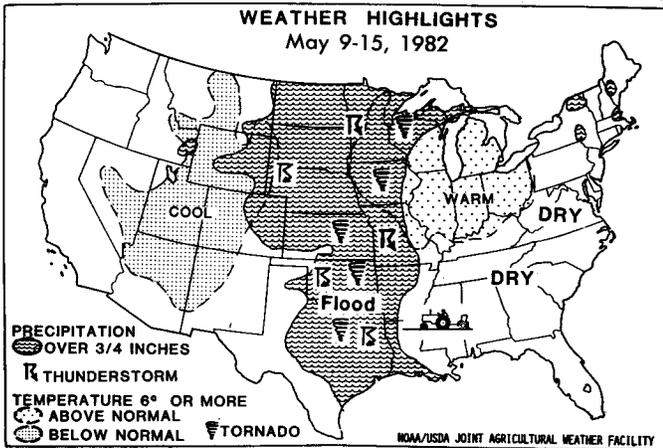
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May 18, 1982

National Weather Summary

May 9-15



HIGHLIGHTS: A blocking ridge of high pressure over the eastern United States kept that area dry nearly all week. Moist, warm air from the Gulf of Mexico flowed into the southern Plains and spread northward over the area from the Rockies to the Mississippi River. Near-continuous showers and thunderstorms moved through the Plains. The rain brought planting to a virtual standstill, and torrential rains inundated croplands. Unseasonably warm weather dominated the East, while cool weather prevailed in the West. Temperatures were 12 to 15° warmer than normal in the Lake Michigan area.

SUNDAY...Light showers persisted from eastern New York through New England. Showers through the northern Plains and Rockies spread over the central Plateau and to the western Great Lakes region. New snow covered the high parts of Montana. The weather was quite warm through most of the Plains. Eighty degree temperatures reached to Nebraska and northern Illinois.

MONDAY...A cold front moved into the northern Plains and triggered showers and thunderstorms from north-central Kansas into Wisconsin and northern Michigan. Showers of rain or snow fell from the central Plateau through the northern Rockies. Summerlike weather prevailed ahead of the front. High temperatures in the eighties reached into Minnesota, Wisconsin, and Michigan. Late in the day, showers began in southern Texas.

TUESDAY...A high-pressure system kept the eastern third of the Nation dry while warm, moist air from the Gulf of Mexico spread through the Plains and upper Mississippi Valley. A very slow-moving cold front triggered showers from southern California to South Dakota. Late in the day, the cold front produced severe weather with tornadoes, hail, high wind, and heavy downpours from the Texas Panhandle into Iowa. Isolated thunderstorms and severe weather occurred ahead of the front throughout Texas. Warm air pervaded much of the East, but the tongue of warmest temperatures reached into the central Great Lakes.

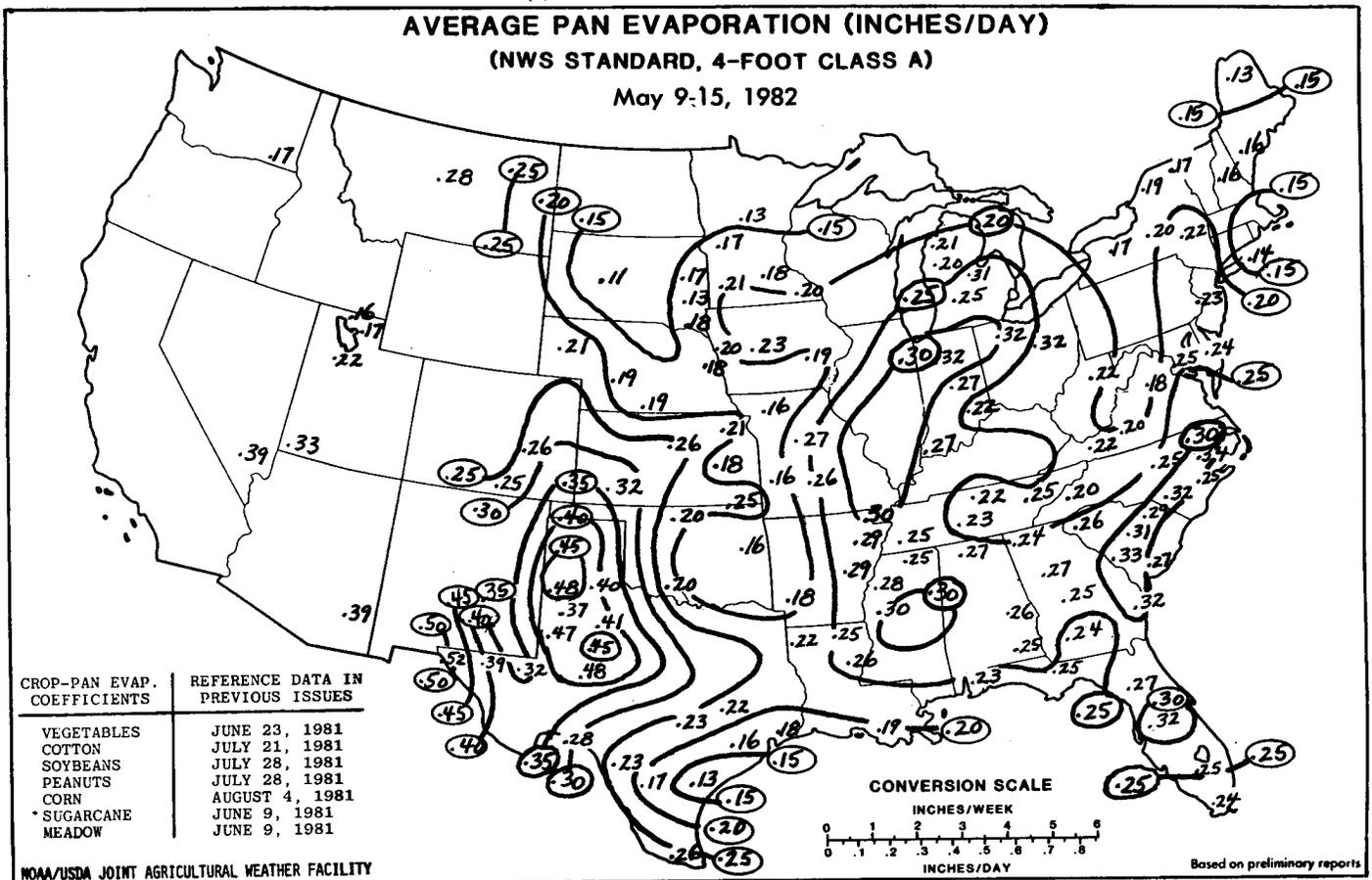
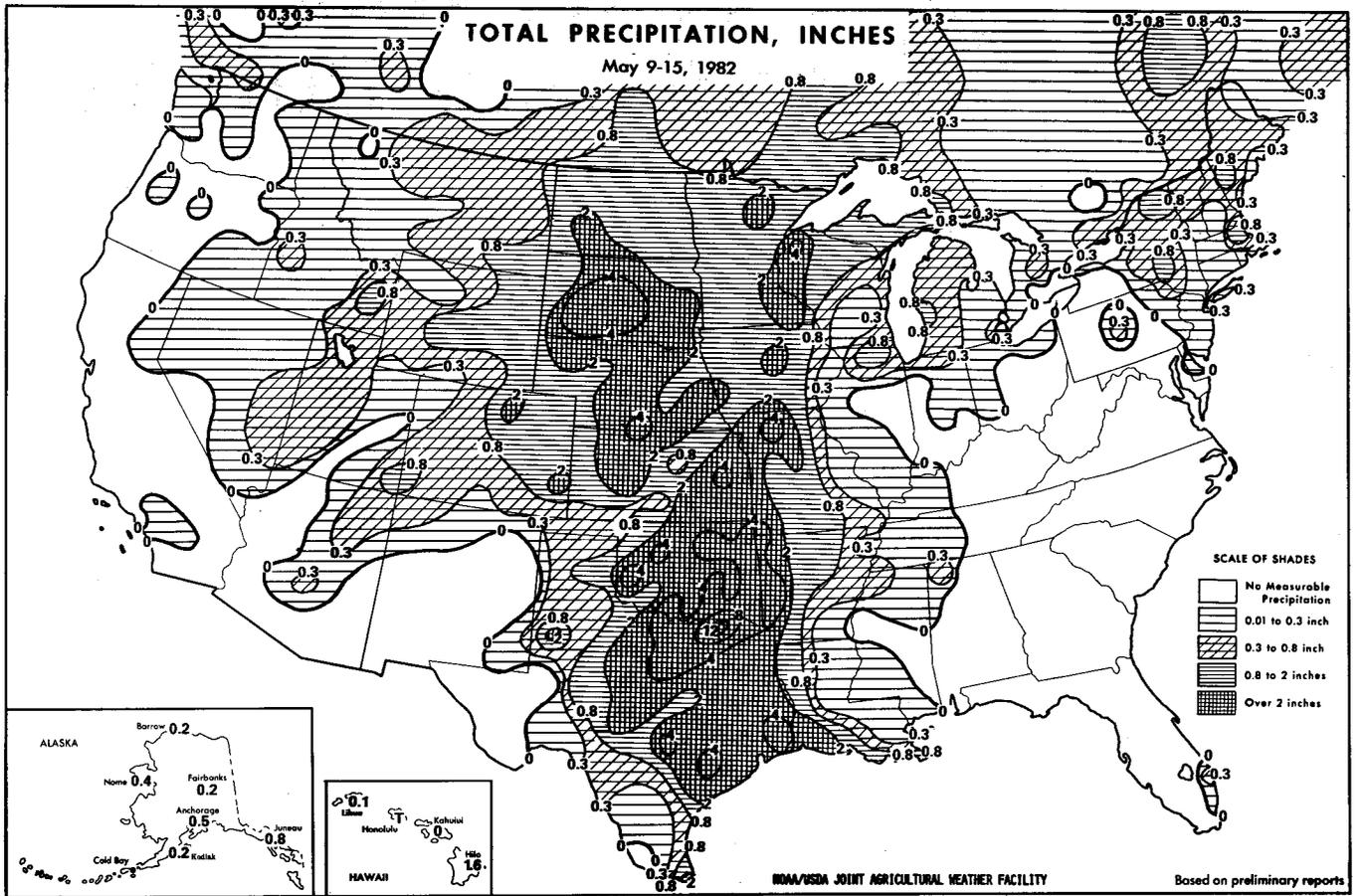
WEDNESDAY...The blocking ridge of high pressure continued to keep most of the East dry, but a few light showers developed through New York, Pennsylvania, and adjacent coastal areas. Showers and thunderstorms covered the entire Plains area and from central Arizona into the central Plains. Snow fell in the mountains of central Colorado, and heavy downpours of rain accompanied thunderstorms from northeastern Colorado into western Nebraska. More severe weather occurred from west-central Texas into southwestern Missouri. Heavy downpours in northern Texas and eastern Oklahoma flooded roads and washed out some crops.

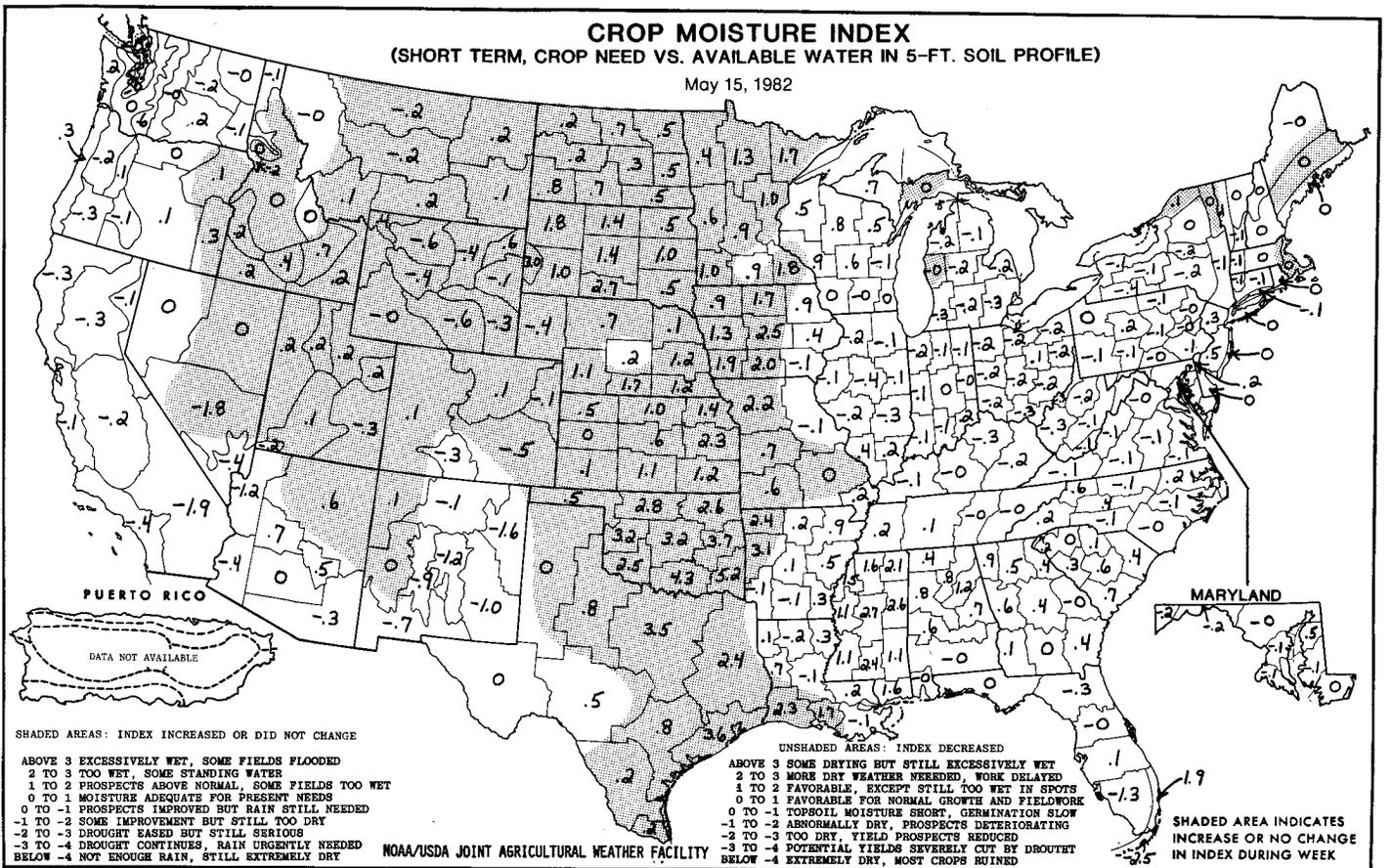
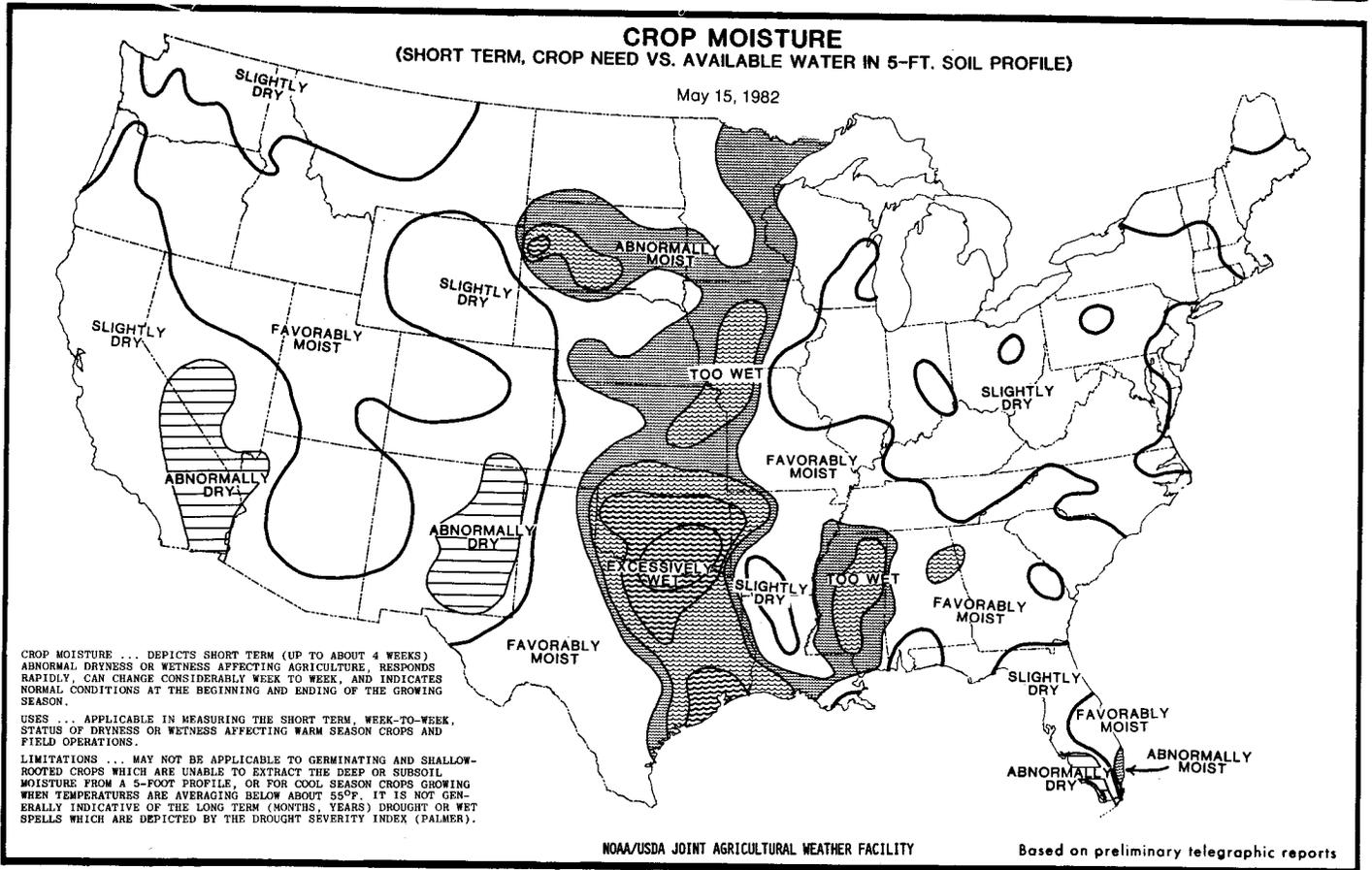
THURSDAY...Warm, dry conditions over the East and cool, dry conditions over the West sandwiched wild, wet, windy weather through the middle of the United States. Showers and thunderstorms moved to eastern Texas but covered all of the central Rockies and Plains and the northern Plains up to the Mississippi River. Severe weather and heavy downpours flooded land from eastern Texas and western Louisiana to southwestern Missouri. More heavy rain covered the western central Plains from Kansas to South Dakota.

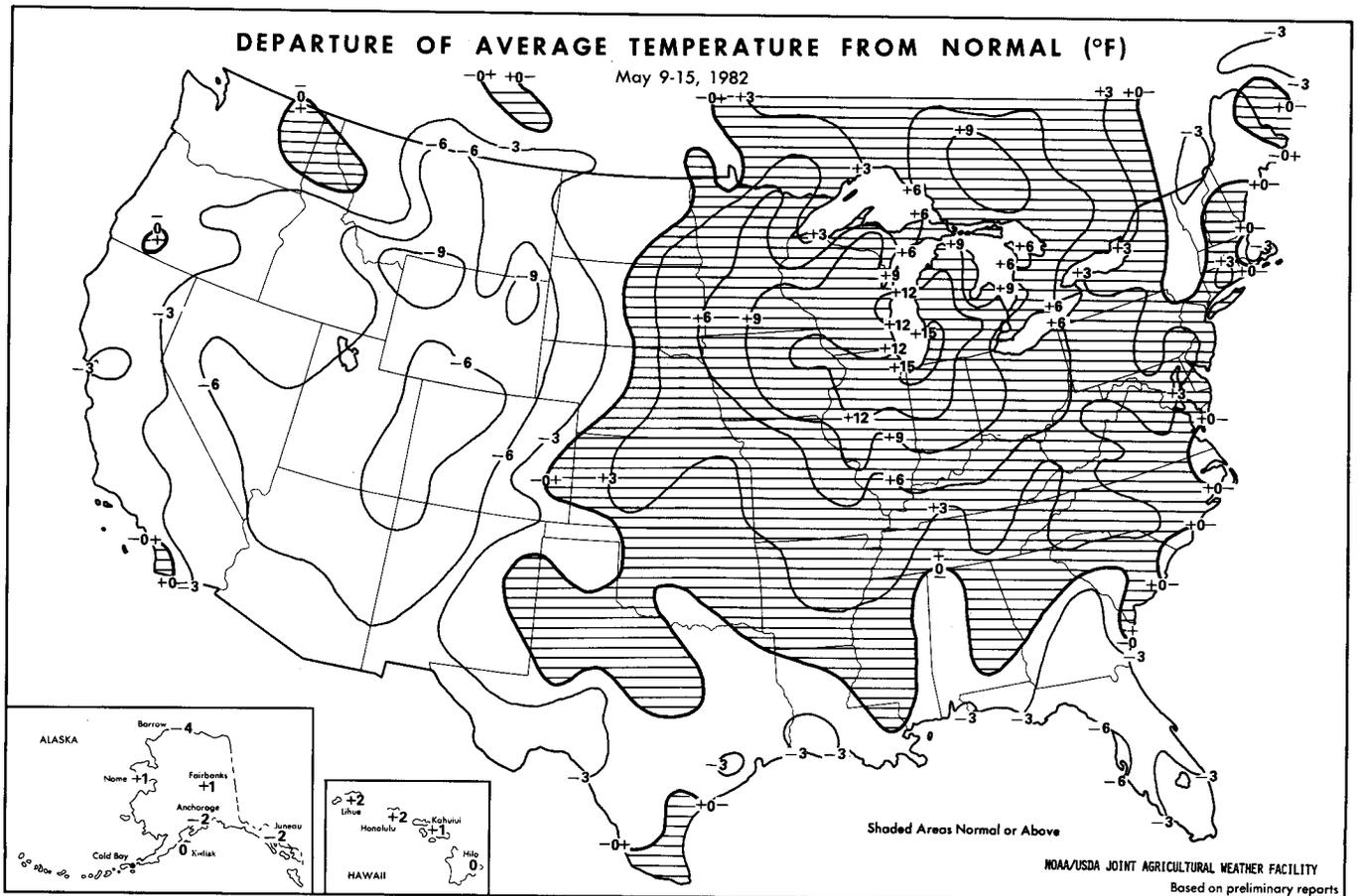
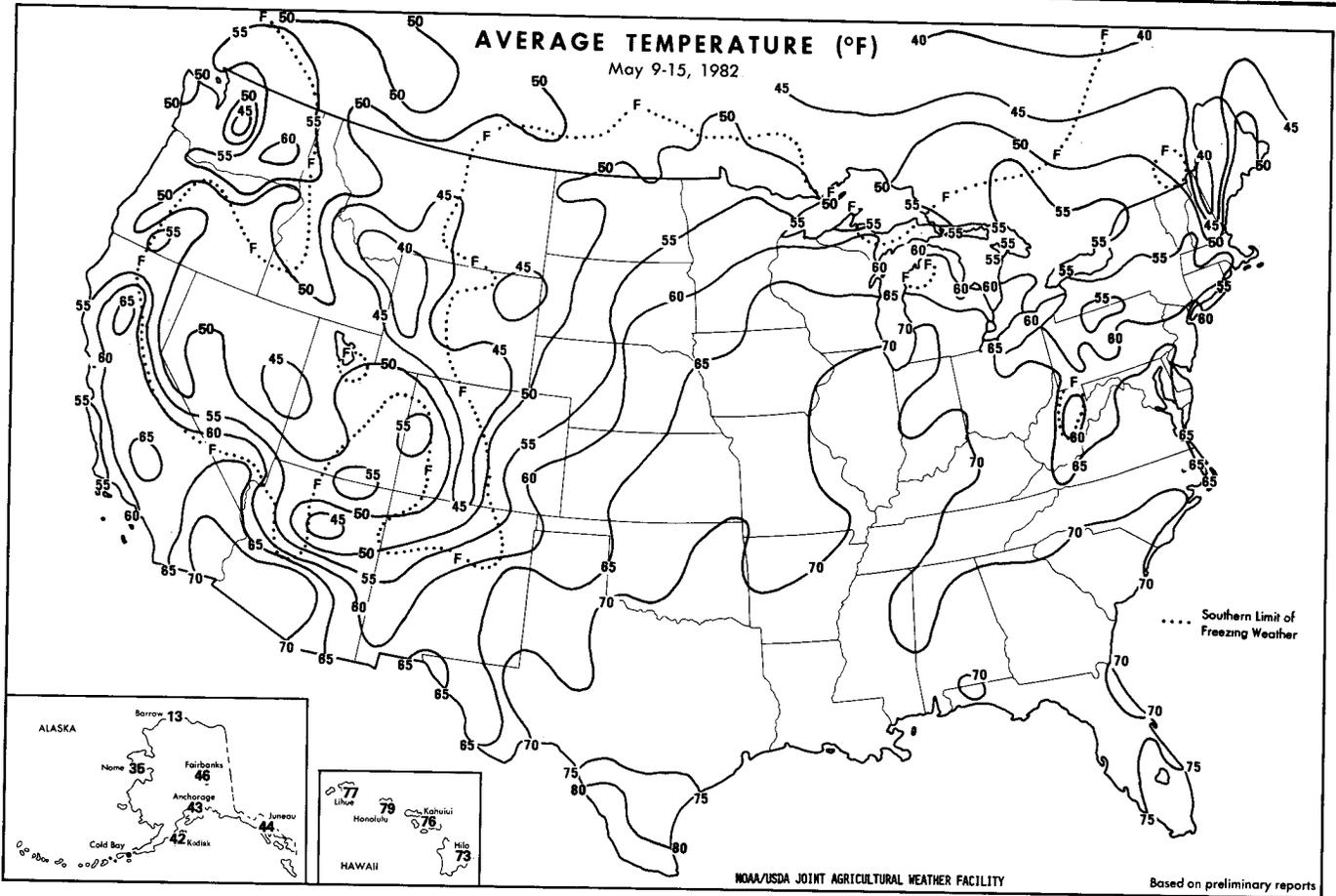
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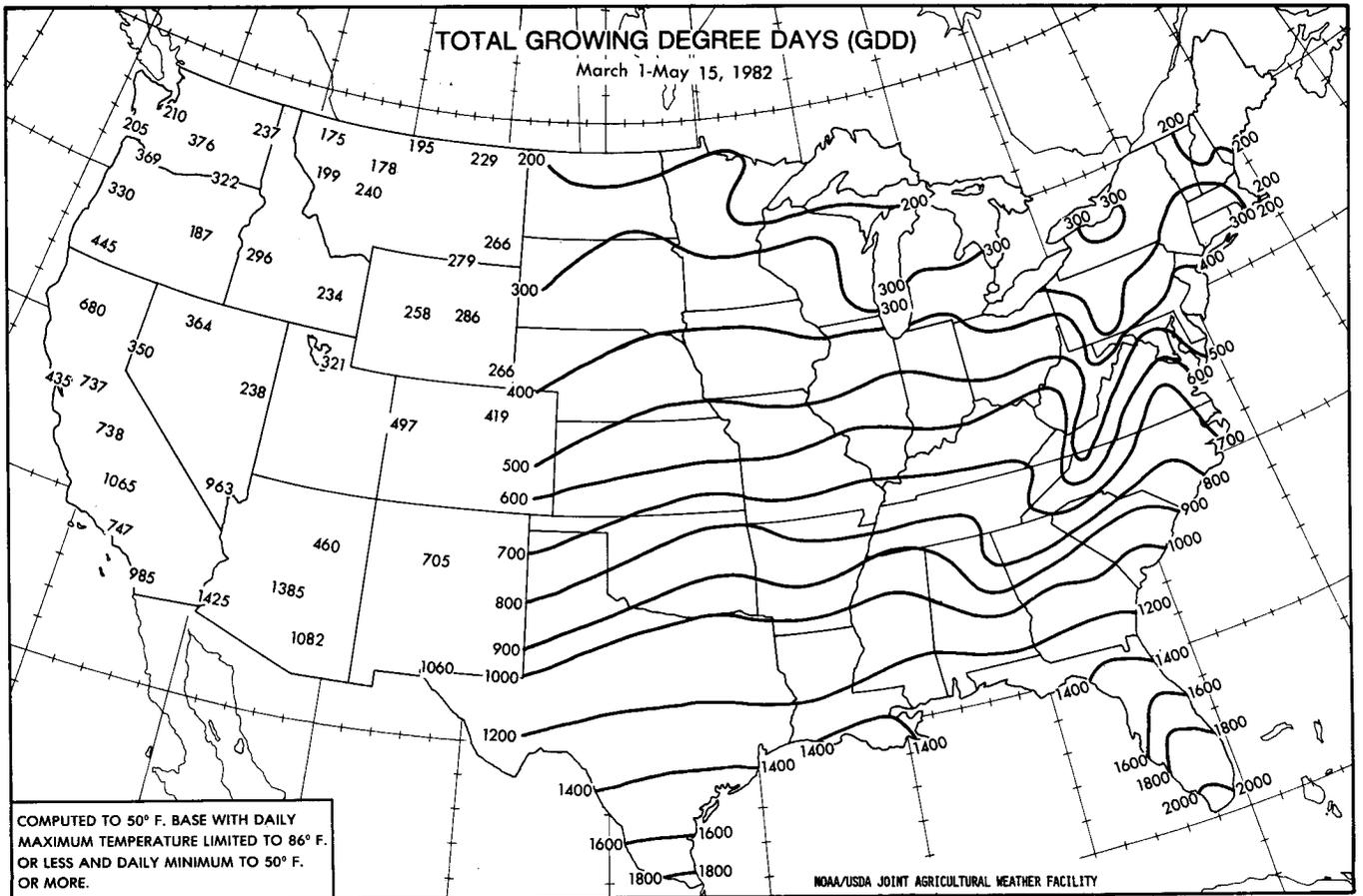
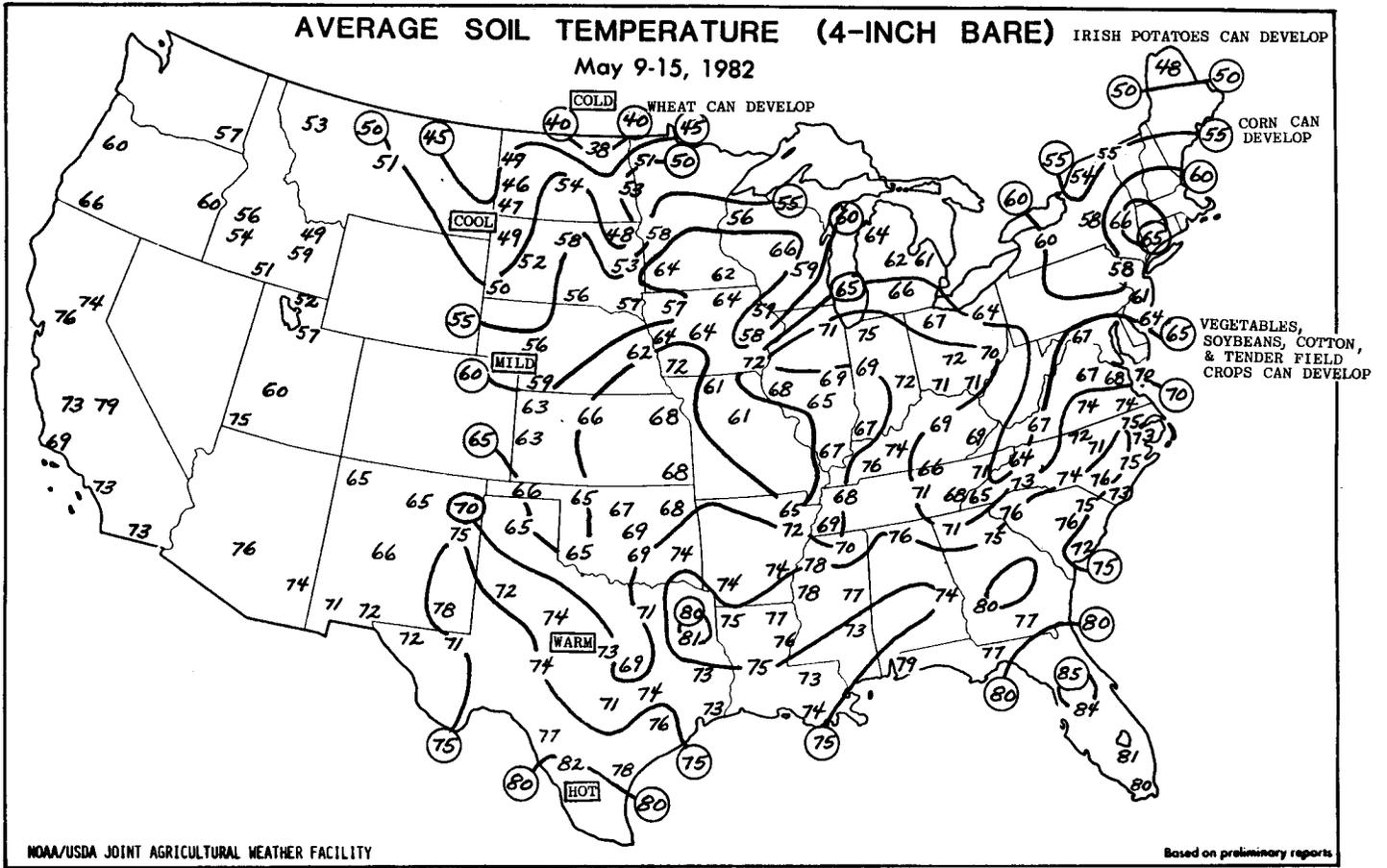
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Weather Data for the Week Ending May 15, 1982

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
AL BIRMINGHAM	86	54	89	46	70	0	0	-.8	0	12.6	96	26.1	123	92	30	0	0	0	0
MOBILE	82	61	85	53	72	-2	0	-1.0	0	11.3	75	24.0	108	89	42	0	0	0	0
MONTGOMERY	85	59	87	55	72	0	0	-.8	0	13.5	109	28.0	148	79	36	0	0	0	0
AK ANCHORAGE	51	36	53	32	43	-2	.5	.3	.3	1.1	79	1.8	64	88	47	0	2	3	0
BARROW	16	9	21	5	13	-4	.2	.2	.1	.8	160	1.4	140	95	80	0	7	5	0
FAIRBANKS	54	37	58	34	46	1	.2	0	.2	1.6	133	2.3	115	75	36	0	0	3	0
JUNEAU	50	37	55	32	44	-2	.8	0	.3	11.3	136	15.6	107	89	55	0	1	4	0
KODIAK	48	36	51	31	42	0	.2	-.8	.1	8.2	83	19.7	106	94	69	0	2	3	0
NOME	38	31	46	25	35	1	.4	.2	.2	2.1	100	5.1	146	83	69	0	3	4	0
AZ PHOENIX	86	62	93	57	74	-1	.3	.3	.3	2.1	162	3.6	150	46	15	3	0	1	0
PRESCOTT	64	39	72	31	51	-8	0	-.1	0	3.4	121	6.4	114	81	30	0	1	0	0
TUCSON	81	51	89	49	66	-5	0	-.1	0	1.8	138	3.4	121	43	11	0	0	0	0
YUMA	85	59	94	52	72	-6	0	0	0	.9	130	1.6	160	46	16	3	0	0	0
AR FORT SMITH	79	58	85	49	69	0	7.1	5.8	3.6	10.8	33	16.2	101	92	51	0	0	3	3
LITTLE ROCK	83	62	86	56	72	3	.7	-.5	.4	11.8	90	21.9	109	79	48	0	0	3	0
CA BAKERSFIELD	80	58	88	54	69	0	0	-.1	0	2.4	120	3.9	105	55	23	0	0	0	0
EUREKA	58	47	60	44	52	0	0	-.5	0	12.8	136	23.1	113	86	66	0	0	0	0
FRESNO	77	49	85	44	63	-3	0	-.1	0	5.7	173	8.4	138	88	32	0	0	0	0
LOS ANGELES	66	54	68	52	60	-2	0	0	0	5.3	156	8.7	116	79	56	0	0	0	0
RED BLUFF	79	50	88	43	65	-2	0	-.2	0	4.8	91	10.0	83	71	22	0	0	0	0
SACRAMENTO	75	45	87	41	60	-3	0	-.2	0	9.1	182	17.2	154	90	36	0	0	0	0
SAN DIEGO	68	60	71	59	64	1	0	0	0	4.9	204	8.8	157	74	53	0	0	0	0
SAN FRANCISCO	60	47	64	42	54	-4	0	-.1	0	9.6	209	21.4	193	83	60	0	0	0	0
CO DENVER	59	40	77	36	50	-6	.9	.3	.4	1.6	37	2.0	40	80	41	0	0	5	0
GRAND JUNCTION	66	45	75	41	56	-5	.3	.1	.2	1.6	84	2.1	70	77	32	0	0	3	0
PUEBLO	70	47	83	40	58	-2	.8	.4	.4	1.3	45	2.1	64	74	34	0	0	0	2
CT BRIDGEPORT	68	49	73	44	59	2	0	-.8	0	4.8	55	13.7	103	-81	41	0	0	1	0
HARTFORD	73	47	78	40	60	-3	0	-.8	0	6.7	71	14.3	99	86	34	0	0	1	0
DC WASHINGTON	81	55	90	50	68	3	0	-.8	0	6.3	78	11.7	95	80	29	1	0	0	0
FL APALACHICOLA	80	60	82	56	70	-4	0	-.6	0	11.7	122	20.9	137	91	52	0	0	0	0
DAYTONA BEACH	82	57	84	54	69	-5	0	-.5	0	11.8	174	16.3	148	92	42	0	0	0	0
JACKSONVILLE	86	53	90	48	70	-4	0	-.6	0	8.0	100	12.6	93	99	36	1	0	0	0
KEY WEST	83	75	84	74	79	-1	0	-.5	0	5.3	108	7.2	92	74	51	0	0	1	0
MIAMI	83	70	86	64	77	-1	.1	-1.1	-.1	16.1	194	17.3	149	75	46	0	0	1	0
ORLANDO	86	61	89	60	73	-3	0	-.5	0	11.0	149	14.3	123	93	37	0	0	0	0
TALLAHASSEE	86	55	91	53	71	-3	0	-.8	0	9.3	178	18.4	97	99	35	1	0	0	0
TAMPA	83	59	86	56	71	-6	0	-.4	0	4.9	72	8.9	79	98	42	0	0	0	0
WEST PALM BEACH	82	69	87	66	76	-1	.6	-.4	.6	26.8	295	30.4	229	76	49	0	0	1	1
GA ATLANTA	85	59	87	54	72	4	0	-.8	0	10.5	91	22.1	110	67	27	0	0	0	0
AUGUSTA	86	49	90	45	68	-3	0	-.8	0	6.9	58	14.4	90	98	28	1	0	0	0
MACON	87	54	91	51	70	-2	0	-.8	0	9.6	31	19.7	115	99	31	2	0	0	0
SAVANNAH	88	59	91	55	73	1	0	-.9	0	8.0	35	14.4	101	94	28	3	0	0	0
HI HILO	78	67	80	63	73	0	1.6	-.9	.7	58.4	178	78.6	156	90	65	0	0	7	1
HONOLULU	85	72	87	67	79	2	0	-.2	0	4.9	34	20.1	179	69	47	0	0	2	0
KAHULUI	85	68	86	63	76	1	0	-.1	0	6.8	148	19.6	194	75	50	0	0	0	0
LIHUE	83	71	84	68	77	2	.1	.5	0	16.3	177	35.3	193	87	64	0	0	2	0
ID BOISE	65	41	74	36	53	-4	.3	0	.3	2.3	74	5.2	95	82	35	0	0	2	0
LEWISTON	70	47	77	38	58	1	.1	-.2	-.1	1.7	63	4.7	104	73	35	0	0	1	0
POCATELLO	61	36	71	32	49	-5	.8	.5	.7	3.9	134	6.2	132	89	36	0	1	3	1
IL CHICAGO	85	54	92	46	69	12	.3	-.4	.3	7.2	96	10.6	108	82	30	1	0	2	0
MOLINE	84	60	85	48	72	12	0	-.8	0	7.6	94	10.1	104	75	33	0	0	2	0
PEORIA	85	60	87	52	73	13	0	-.9	0	10.7	116	14.5	126	72	34	0	0	0	0
QUINCY	80	60	83	54	70	6	.3	-.6	.2	7.1	84	11.6	82	40	0	0	0	3	0
ROCKFORD	82	58	87	48	70	13	1.2	-.4	1.2	8.3	98	9.6	91	80	36	0	0	2	1
SPRINGFIELD	86	61	89	53	73	11	0	-.7	0	6.7	80	13.1	122	78	37	0	0	1	0
IN EVANSVILLE	86	55	91	49	71	6	0	-1.0	0	8.8	80	20.1	122	92	33	2	0	1	0
FORT WAYNE	83	55	89	49	69	11	.1	-.7	-.1	8.2	95	15.1	125	82	33	0	0	1	0
INDIANAPOLIS	84	58	87	54	71	10	0	-.9	0	8.5	89	15.6	115	75	33	0	0	1	0
SOUTH BEND	84	58	89	51	71	14	.7	0	.7	6.8	82	11.1	98	73	30	0	0	1	1
IA DES MOINES	76	61	81	57	68	9	1.6	.7	.6	12.2	172	15.5	180	80	56	0	0	5	1
SIOUX CITY	74	57	84	53	66	6	1.8	1.1	.8	4.4	83	6.4	97	89	61	0	0	7	1
WATERLOO	78	62	83	59	70	13	1.8	.9	.7	9.7	131	11.5	137	84	52	0	0	6	2
KS CONCORDIA	75	57	80	52	66	5	1.6	.7	1.5	7.1	120	8.3	122	90	62	0	0	3	1
DODGE CITY	76	56	86	50	66	3	1.6	.9	.7	3.2	78	4.7	100	79	46	0	0	4	1
GOODLAND	69	49	84	44	59	1	1.3	.7	1.2	3.6	106	4.4	116	84	51	0	0	3	1
TOPEKA	74	57	78	54	65	2	3.3	2.4	1.6	8.4	108	10.6	118	89	61	0	0	5	2
WICHITA	74	58	82	50	66	1	2.6	1.8	1.2	7.7	122	10.2	140	82	60	0	0	4	3
KY BOWLING GREEN	83	53	87	46	68	1	0	-.9	0	9.1	79	17.8	89	99	35	0	0	0	0
LEXINGTON	83	56	87	49	70	6	0	-.9	0	6.7	51	14.3	85	76	33	0	0	0	0
LOUISVILLE	85	56	88	48	71	7	0	-.9	0	9.3	33	16.3	95	83	33	0	0	0	0
LA ALEXANDRIA	84	62	87	52	73	-1	.1	-1.4	-.1	8.1	60	17.4							

Weather Data for the Week Ending May 15, 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	82	61	86	50	72	-1	1.1	-.1	1.1	7.4	61	14.2	77	91	55	0	0	2	1
ME CARIBOU	58	42	65	34	50	2	T	-.6	T	6.1	100	11.1	116	79	50	0	0	1	0
ME PORTLAND	64	46	71	42	55	4	.1	-.7	.1	8.1	89	15.8	107	78	49	0	0	1	0
MD BALTIMORE	81	53	91	49	67	5	0	-.8	0	6.9	78	14.4	107	75	22	1	0	0	0
MD SALISBURY	77	50	85	46	64	0	0	-.8	0	7.4	81	15.9	108	95	35	0	0	0	0
MA BOSTON	59	50	70	44	54	-3	.7	-.1	.5	6.6	69	13.9	88	77	57	0	0	2	0
MA CHATHAM	56	45	60	41	50	-1	T	-.1	T	7.7	-	15.8	-	89	66	0	0	2	0
MI ALPENA	68	46	86	33	57	8	.5	-.2	.2	5.0	88	7.0	90	84	47	0	0	5	0
MI DETROIT	77	52	83	44	65	8	.6	-.1	.6	6.0	79	10.4	101	78	37	0	0	1	1
MI FLINT	79	55	85	39	67	13	.1	-.6	.1	4.0	62	6.5	73	81	40	0	0	2	0
MI GRAND RAPIDS	83	56	89	42	70	14	.6	-.1	.4	6.4	85	9.8	99	83	34	0	0	4	0
MI HOUGHTON LAKE	77	51	82	32	64	12	.3	-.4	.2	5.6	104	8.0	107	83	39	0	1	2	0
MI LANSING	81	55	87	37	68	12	.2	-.7	.2	4.1	58	6.6	67	89	36	0	0	1	0
MI MARQUETTE	68	46	81	29	57	10	.9	-.1	.3	8.6	132	12.9	142	94	50	0	1	5	0
MI MUSKEGON	81	57	89	42	69	15	1.1	.5	1.0	5.8	32	10.7	106	81	32	0	0	2	1
MI SAULT STE. MARIE	66	45	77	31	56	8	.9	.3	.7	8.4	156	13.3	162	81	44	0	1	3	1
MN ALEXANDRIA	65	51	76	47	58	5	1.2	.6	.6	5.8	118	8.2	149	96	65	0	0	4	2
MN DULUTH	58	43	68	41	51	3	1.5	.8	.4	7.2	122	9.7	137	94	66	0	0	6	0
MN INT'L FALLS	63	46	74	40	55	6	1.9	1.3	.9	5.1	131	6.7	129	97	65	0	0	6	2
MN MINNEAPOLIS	74	58	85	52	66	10	2.7	2.0	1.1	6.8	142	9.9	168	86	56	0	0	5	2
MN ROCHESTER	72	57	80	53	65	10	2.2	1.4	2.0	9.4	152	11.4	175	86	65	0	0	4	1
MS GREENWOOD	86	62	89	51	74	2	T	-1.0	T	12.3	90	23.2	--	85	37	0	0	0	0
MS JACKSON	85	60	87	49	72	1	.1	-1.0	.1	12.0	94	21.6	108	95	43	0	0	1	0
MS MERIDIAN	86	55	87	47	70	-1	.0	-.9	0	11.4	84	21.3	102	92	38	0	0	0	0
MO CAPE GIRARDEAU	83	59	87	50	71	5	1	-1.0	.1	8.1	78	21.5	136	89	42	0	0	1	0
MO COLUMBIA	78	57	82	51	67	4	.8	-.2	.7	7.2	85	11.5	106	91	49	0	0	3	1
MO KANSAS CITY	75	60	82	57	68	5	3.2	2.3	2.1	10.1	126	13.9	146	89	64	0	0	4	2
MO SAINT LOUIS	84	61	88	53	73	8	.2	-.7	.2	5.8	56	12.3	105	81	37	0	0	1	0
MO SPRINGFIELD	80	58	86	52	69	5	1.5	.4	.7	7.3	74	12.1	98	85	52	0	0	3	2
MT BILLINGS	56	39	68	33	47	-6	.7	.3	.4	4.8	123	5.8	123	88	52	0	0	4	0
MT GLASGOW	59	40	72	35	50	-4	.7	.5	.4	1.7	106	3.0	150	87	46	0	0	3	0
MT GREAT FALLS	57	36	70	27	46	-6	.4	-.1	.3	3.5	117	5.6	124	75	40	0	3	3	0
MT HAVRE	59	36	71	31	47	-7	.3	0	.2	1.4	61	3.7	123	79	39	0	2	2	0
MT HELENA	62	36	73	32	49	-3	T	.3	T	1.9	86	3.4	121	71	31	0	1	1	0
MT KALISPELL	64	33	75	23	48	-2	T	.3	T	2.6	104	6.5	141	88	35	0	4	0	0
MT MILES CITY	56	42	69	36	49	-6	.7	.3	.4	2.1	75	3.3	97	94	54	0	0	4	0
MT MISSOULA	64	38	77	30	51	-1	T	.3	T	2.9	121	6.2	159	81	34	0	1	1	0
NE GRAND ISLAND	72	53	82	50	62	3	1.5	.7	.5	7.6	143	8.8	142	92	60	0	0	5	1
NE LINCOLN	75	56	83	39	65	4	2.0	1.2	1.3	8.5	152	9.4	138	94	65	0	0	6	1
NE NORFOLK	73	55	84	51	64	6	1.9	1.1	1.0	5.6	112	7.6	127	84	56	0	0	4	2
NE NORTH PLATTE	66	47	86	41	57	0	2.5	1.8	1.5	5.4	129	5.6	122	97	59	0	0	4	2
NE OMAHA	73	58	80	54	66	6	2.3	1.4	1.6	7.7	122	9.7	131	89	67	0	0	6	1
NE SCOTTSBLUFF	58	44	80	38	51	-4	1.4	.8	1.1	2.4	55	2.9	69	94	55	0	0	5	1
NE VALENTINE	62	46	82	39	54	-1	2.2	1.6	.7	3.9	118	4.5	107	88	59	0	0	5	2
NV ELY	57	30	65	25	43	-6	.7	.5	.6	4.7	196	6.0	188	92	37	0	5	4	1
NV LAS VEGAS	78	55	87	49	66	-6	T	0	T	.6	57	1.8	113	40	17	0	0	1	0
NV RENO	65	34	75	28	50	-4	.1	-.1	.1	1.6	100	3.2	91	83	28	0	3	1	0
NV WINNEMUCCA	65	30	75	25	48	-5	.1	-.2	T	1.7	35	2.2	59	80	25	0	5	2	0
NH CONCORD	68	44	76	38	56	2	.3	-.3	.3	5.8	32	12.8	112	81	41	0	0	1	0
NJ ATLANTIC CITY	72	51	75	44	61	1	T	-.8	T	6.4	57	12.8	83	89	44	0	0	1	0
NM ALBUQUERQUE	75	42	80	36	58	-6	T	-.1	T	1.0	71	1.6	84	49	14	0	0	0	0
NM CLOVIS	81	52	87	45	66	2	0	-.5	0	.6	27	1.3	--	71	16	0	0	0	0
NM ROSWELL	82	51	88	46	66	-1	0	-.2	0	.6	30	1.4	52	57	13	0	0	0	0
NY ALBANY	68	42	74	36	55	-1	.2	-.5	.2	5.9	87	11.3	112	82	40	0	0	1	0
NY BINGHAMTON	68	46	80	40	57	3	.2	-.7	.2	5.8	73	11.6	100	77	38	0	0	1	0
NY BUFFALO	71	45	75	35	58	4	T	-.7	T	5.6	71	13.8	112	89	36	0	0	0	0
NY NEW YORK	71	53	75	51	62	2	.3	-.5	.2	6.8	72	13.8	97	88	39	0	0	2	0
NY ROCHESTER	69	45	74	41	57	2	T	-.6	T	4.1	62	9.3	87	87	37	0	0	0	0
NY SYRACUSE	68	42	74	35	55	0	.5	-.2	.4	5.9	76	10.3	83	97	47	0	0	2	0
NC ASHEVILLE	83	50	87	44	66	4	T	-.7	T	5.7	58	18.2	116	98	33	0	0	0	0
NC CHARLOTTE	85	58	92	50	71	4	0	-.6	0	5.6	59	14.8	95	77	29	2	0	0	0
NC GREENSBORO	84	55	91	48	69	3	0	-.6	0	5.5	67	13.0	94	73	33	2	0	0	0
NC HATTERAS	74	53	81	43	63	-3	0	-.7	0	11.8	140	24.7	157	97	53	0	0	0	0
NC NEW BERN	85	57	94	49	71	2	0	-.9	0	5.8	61	17.2	107	83	25	2	0	0	0
NC RALEIGH	84	52	92	45	68	2	0	-.8	0	6.5	79	14.8	106	79	25	2	0	0	0
NC WILMINGTON	83	55	91	45	69	-2	0	-.9	0	5.7	53	17.9	123	86	29	1	0	0	0
ND BISMARCK	57	46	67	40	52	-1	1.7	1.3	.8	3.4	113	4.7	131	93	73	0	0	6	1
ND FARGO	62	50	71	44	56	3	1.3	.8	.5	3.0	73	4.8	107	89	67	0	0	7	0
ND GRAND FORKS	59	47	73	42	53	0	1.7	1.1	.7	3.1	86	5.0	122	99	77	0	0	4	2
ND WILLISTON	60	44	78	39	52	-1	.8	.5	.4	3.4	131	5.1	142	95	62	0	0	4	0
OH AKRON-CANTON	78	52	85	44	65	8	0	-.9	0	5.7	58	12.2	101	71	32	0	0	0	0
OH CINCINNATI	82	53	87	47	68	6	0	-.8	0	7.7	79	16.1	107	78	31	0	0	0	0
OH CLEVELAND	76	52	83	41	64	7	T	-.7	T	6.1	73	11.5	95	78	34	0	0	0	0
OH COLUMBUS	83	51	89	42	67	7	0	-.9	0	6.9	73	13.1	97	86	28	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending May 15, 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	84	56	88	48	70	10	.1	-.7	.1	8.7	100	16.3	126	71	34	0	0	1	0
TOLEDO	81	51	86	45	66	9	T	-.8	T	5.8	82	10.2	102	91	34	0	0	1	0
YOUNGSTOWN	77	48	84	37	63	6	0	-.9	0	4.8	55	10.7	82	81	33	0	0	0	0
OK OKLAHOMA CITY	79	59	85	55	69	2	2.6	1.4	2.2	7.9	100	12.6	133	80	53	0	0	2	1
TULSA	82	63	87	58	73	5	4.3	3.2	4.1	7.9	86	12.2	108	79	47	0	0	3	1
OR ASTORIA	58	44	64	39	51	-1	T	-.6	T	14.4	110	38.8	136	87	59	0	0	0	0
BURNS	64	35	70	26	49	-2	.1	-.2	.1	1.6	70	4.4	88	--	--	0	1	1	0
MEDFORD	71	40	78	33	56	-1	0	-.4	0	2.9	81	8.1	92	83	29	0	0	0	0
PENDLETON	67	46	73	39	57	-1	T	-.3	T	2.4	86	4.7	94	83	29	0	0	0	0
PORTLAND	65	47	72	45	56	0	T	-.5	T	6.5	90	18.7	118	88	49	0	0	0	0
SALEM	65	41	71	36	53	-2	T	-.5	T	7.2	89	19.1	103	87	43	0	0	1	0
PA ALLENTOWN	75	51	81	47	63	4	.1	-.8	.1	6.7	71	13.3	94	78	31	0	0	0	0
ERIE	69	47	75	36	58	5	0	-.8	0	5.9	76	11.2	98	75	40	0	0	0	0
HARRISBURG	78	48	84	41	63	1	0	-.9	0	7.0	81	12.5	99	83	31	0	0	0	0
PHILADELPHIA	78	55	88	53	67	5	.1	-.6	.1	8.8	104	16.4	130	80	25	0	0	0	0
PITTSBURGH	77	49	84	40	63	5	T	-.8	T	5.4	52	12.1	95	80	30	0	0	1	0
SCRANTON	72	47	82	39	59	2	.2	-.7	.1	6.0	82	11.3	110	79	40	0	0	0	0
RI PROVIDENCE	65	48	72	43	57	1	.1	-.7	.1	7.4	78	16.9	112	74	41	0	0	2	0
SC CHARLESTON	85	57	91	53	71	0	0	-.8	0	9.5	103	15.0	106	94	32	1	0	0	0
COLUMBIA	88	51	93	46	70	-1	0	-.8	0	8.2	81	16.3	102	95	26	3	0	0	0
FLORENCE	86	56	93	51	71	0	0	-.6	0	4.3	48	13.5	96	84	27	2	0	0	0
SD GREENVILLE	84	54	89	48	69	1	0	-.6	0	7.7	56	19.1	102	82	31	0	0	0	0
ABERDEEN	65	53	78	47	59	5	--	--	--	--	--	--	--	94	68	0	0	0	0
HURON	67	53	79	49	60	4	2.5	2.0	.8	5.4	132	7.0	146	92	65	0	0	7	1
RAPID CITY	54	44	69	39	49	-5	4.0	3.5	1.2	6.4	142	7.2	144	94	70	0	0	6	4
SIoux FALLS	70	53	80	49	62	5	1.3	.6	.6	5.1	96	5.9	92	94	66	0	0	6	1
TN CHATTANOOGA	84	52	87	47	68	0	0	-.8	0	10.2	85	24.4	115	90	27	0	0	0	0
KNOXVILLE	83	52	85	46	67	0	0	-.7	0	10.1	96	21.1	114	96	37	0	10	0	0
MEMPHIS	83	62	87	54	73	3	.4	-.7	.4	12.4	94	24.5	116	83	43	0	0	1	0
NASHVILLE	84	55	88	47	69	2	T	-.9	T	9.4	85	20.7	110	94	36	0	0	1	0
TX ABILENE	83	61	89	55	72	0	2.6	1.6	2.1	5.1	91	7.3	103	81	43	0	0	2	1
AMARILLO	80	47	85	36	63	-1	.8	-.2	.4	1.6	53	2.3	62	90	27	0	0	4	0
AUSTIN	82	65	86	60	73	-1	3.5	2.6	3.2	10.5	142	12.2	108	91	61	0	0	4	1
BEAUMONT	81	65	85	56	73	-2	6.6	5.5	6.4	19.7	201	25.3	150	92	63	0	0	2	1
BROWNSVILLE	88	75	92	70	82	3	2.9	2.4	2.9	7.0	241	7.8	144	89	60	1	0	1	1
CORPUS CHRISTI	83	72	87	70	77	0	.6	-.1	.6	2.7	56	10.9	138	97	72	0	0	2	1
DEL RIO	84	64	92	55	74	-3	.4	-.2	.2	2.1	57	4.7	92	90	52	1	0	3	0
EL PASO	82	53	89	47	68	-3	0	-.1	0	.1	13	1.0	67	35	12	0	0	0	0
FORT WORTH	80	62	87	55	71	0	5.2	4.1	2.6	11.5	124	15.7	128	90	58	0	0	3	3
GALVESTON	77	70	78	64	74	-1	1.4	.7	1.4	6.6	97	12.0	106	95	78	0	0	2	1
HOUSTON	83	65	85	54	74	-1	3.2	2.0	2.4	8.7	99	12.1	81	91	59	0	0	2	2
LUBBOCK	82	55	87	48	69	1	.7	-.1	.7	4.7	131	5.1	116	81	24	0	0	1	1
MIDLAND	84	57	89	50	71	0	T	-.5	T	3.0	130	3.6	113	75	25	0	0	0	0
SAN ANGELO	81	58	87	49	70	-4	.9	.3	.7	3.3	89	5.9	113	96	44	0	0	2	1
SAN ANTONIO	81	65	87	59	73	-2	1.5	.8	.9	7.3	133	9.3	109	98	60	0	0	5	2
VICTORIA	81	68	85	61	75	-1	2.8	1.9	2.8	7.0	108	12.8	129	91	70	0	0	2	1
WACO	82	65	87	58	74	0	1.7	.6	1.6	8.7	98	12.0	99	92	60	0	0	2	1
WICHITA FALLS	83	61	91	56	72	1	5.1	4.0	4.4	13.5	193	16.1	194	86	48	1	0	2	2
UT BLANDING	62	39	66	35	51	-5	1.0	.8	.6	2.8	127	4.3	110	73	30	0	0	2	1
CEDAR CITY	61	36	72	26	49	-7	.7	.5	.3	3.1	124	6.7	181	79	30	0	2	3	0
SALT LAKE CITY	62	39	72	35	50	-7	.7	.4	.4	4.6	195	6.2	97	80	37	0	0	2	0
VT BURLINGTON	61	41	65	32	51	-3	.8	+.1	.8	5.4	39	9.7	109	88	56	0	1	1	1
VA NORFOLK	75	55	85	50	65	-1	0	-.8	0	4.8	63	13.9	105	79	38	0	0	0	0
RICHMOND	83	53	89	48	68	3	0	-.8	0	6.9	87	14.0	109	82	27	0	0	0	0
ROANOKE	84	48	91	39	66	3	0	-.8	0	4.6	58	13.0	101	82	27	2	0	0	0
WA COLVILLE	70	43	71	37	56	2	T	-.3	T	3.4	121	7.5	125	71	36	0	0	1	0
QUILLAYUTE	58	41	66	35	49	-1	.1	-.1	.1	21.4	96	60.9	134	95	53	0	0	3	0
SEATTLE-TACOMA	60	46	67	44	53	-1	T	-.4	T	6.6	92	19.3	119	80	51	0	0	0	0
SPOKANE	68	42	72	33	55	1	.1	-.3	.1	3.8	117	7.1	100	74	30	0	0	1	0
WV YAKIMA	70	40	75	35	55	-2	T	-.1	T	.9	75	2.7	84	74	29	0	0	1	0
BECKLEY	77	47	82	40	62	5	0	-.8	0	4.9	52	11.4	74	84	31	0	0	0	0
CHARLESTON	86	48	91	40	67	3	0	-.8	0	6.4	70	13.5	92	93	25	3	0	0	0
HUNTINGTON	84	49	88	44	67	3	0	-.9	0	6.3	67	13.0	90	90	26	0	0	0	0
PARKERSBURG	84	51	92	40	68	6	0	-.1	0	8.0	85	10.3	67	88	26	3	0	0	0
WI GREEN BAY	77	53	85	41	65	12	.3	-.4	.3	5.5	98	7.1	99	86	45	0	0	3	0
LA CROSSE	76	60	84	54	68	10	.5	-.2	.4	5.3	83	6.8	89	89	57	0	0	3	0
MADISON	78	53	85	43	66	11	.2	-.5	.1	7.3	120	8.8	116	84	44	0	0	2	0
MILWAUKEE	76	50	86	44	63	10	.4	-.3	.3	7.9	123	11.4	134	81	44	0	0	3	0
WAUSAU	75	52	84	43	63	10	.7	-.1	.3	8.5	147	10.4	137	87	44	0	0	4	0
WY CASPER	54	39	67	33	46	-5	1.2	.8	.6	3.2	94	4.1	103	91	55	0	0	6	1
CHEYENNE	54	37	72	33	45	-6	1.4	.9	.6	2.1	58	2.8	67	94	55	0	0	5	1
LANDER	56	36	69	28	46	-6	1.2	.6	.6	2.5	51	3.1	55	86	45	0	2	5	1
SHERIDAN	55	39	66	29	47	-5	.5	0	.2	2.4	57	3.5	67	80	52	0	1	4	0
PR SAN JUAN	85	73	87	71	79	0	7.0	5.5	2.8	11.3	135	19.5	145	98	71	0	0	7	3

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

National Agricultural Summary

MAY 10-16

HIGHLIGHTS: Beneficial rains fell on the Great Plains. Although delaying planting of row crops, the rain was needed to sustain the growth of the winter wheat and spring wheat crops. Virtually no rain fell in eastern areas and soils became drier. Planting was delayed in some areas as growers waited for better soil moisture conditions. Farmers in the West North-Central States only had 1 to 4 days suitable for field-work due to wet conditions. Drier weather in eastern areas allowed farmers to work up to 7 days in the fields. Soil moisture supplies were adequate to surplus in the West North-Central region and mostly short to adequate elsewhere. The Southeast was very dry. Corn planting reached 69% completion, 5 points ahead of average. Soybeans were 24% planted, 2 points ahead of normal. Sorghum was 29% planted, lagging the average by 4 points. Cotton planting advanced to 52% completion, compared to 71% a year earlier. Winter wheat was 38% headed, well behind last year's development when 64% of the crop had headed by this date. Spring wheat was 65% planted, 8 points slower than normal; 35% of the acreage had emerged. Rice planting reached the 75% mark, 13 points behind 1981; 46% of the acreage had emerged. Pastures were in fair to good condition but need moisture to sustain growth. Cattle were in fair to good condition.

SMALL GRAINS: Winter wheat was in fair to mostly good condition. Rainfall on the Great Plains improved conditions and sustained growth. Winter wheat was 38% headed in the 15 major producing States, slightly behind the average progress for this date and considerably slower than last year when 64% of the crop had headed.

Spring wheat seeding was 65% completed in the 5 major producing States, lagging last year's rapid pace of 92% and the 73% average. Thirty-five percent of the total intended acreage had emerged compared with 72% a year earlier and the average of 56%. Plants were in fair to good condition; rainfall during the week helped germination and growth.

CORN: Corn planting was 69% completed in the 17 major producing States, 5 points ahead of last year and the average. Progress was ahead of normal in all States except Iowa, Kansas, Minnesota, Nebraska, and South Dakota. Rain on the Great Plains delayed planting and pushed progress behind schedule. Farmers in Michigan planted 35% of their acreage during the week while those in Wisconsin planted 32% and those in Indiana planted 30%. Growers in Ohio finished planting during the week; normally only 56% of the acreage is seeded by this date. Emerged plants were in fair to good condition, although rain is needed, especially in the East, to sustain growth.

SORGHUM: Sorghum planting in the 7 major producing States reached 29% completion compared with 35% a year ago and the average of 33%. Planting was underway in all States with progress ranging from 1% in Nebraska to 69% in Texas. Rain slowed activities in much of the Great Plains area.

SOYBEANS: Soybean planting advanced to 24% completion in the 18 major producing States, ahead of last year's 17% and the average of 22%. Growers in the Southeast delayed planting due to

dry conditions. Ohio producers seeded 40% of their acreage during the week; Illinois, 31%; Indiana, 30%; and Michigan, 22%. Progress was behind normal in many States but was 32% ahead of average in Ohio.

COTTON: Fifty-two percent of the cotton crop had been planted in the 14 major producing States, lagging last year's 71%. Progress was behind average in Georgia, New Mexico, North Carolina, Oklahoma, and Texas. Texas seeding was 17 points slower than average. Growers in Mississippi and Tennessee planted 35% of their acreage during the week while those in Missouri planted 34%. Fields in the Yuma area of Arizona and in Southern Texas were squaring.

OTHER CROPS: Rice was 75% planted in the 5 major States, 13 points behind 1981; 46% of the intended acreage had emerged compared with 71% last year. Plants were in fair to mostly good condition.

Peanut planting was about finished in Florida. Percentages planted in other major States were: Virginia, 92%; Alabama, 85%; Georgia, 81%; North Carolina, 69%; and Texas, 11%.

Tobacco transplanting gained momentum. Plants were in fair to good condition.

FRUITS AND NUTS: Tart cherries and apples were in full bloom in New York. Harvesting of early-variety peaches got underway in Georgia.

Florida's citrus groves were in good condition but needed rain. Irrigation was very active in all areas. The Valencia orange harvest continued active.

Arizona growers picked lemons and grapefruit on demand only. The Valencia orange harvest was spotty.

Nectarines were harvested in Kern County, California. In Fresno County, Kiwi fruit and olives were in full bloom. Pistachios had a fair to good set. Almonds were sprayed for Navel orange worms.

VEGETABLES: Vegetable harvesting and planting became more active in northern areas. New Jersey growers continued harvesting asparagus, lettuce, and spinach. Tomato planting became more widespread.

Florida's vegetable shipments increased 2% from the previous week. Crops showing increases included carrots, okra, radishes, peas, and watermelons. The potato harvest continued very active in the Hastings area. Tomato picking remained at peak levels.

California growers cut asparagus in the Delta and Salinas Valley. Broccoli and cauliflower harvests increased on the central coast. Carrot harvests were active in the desert and San Joaquin Valley. Bell pepper planting was active in the San Joaquin Valley; the harvest was underway in the Coachella Valley. Fall potato planting increased in the Tulare area; the spring potato harvest increased in the Kern District. Harvest of strawberries was underway in all growing areas. Market tomato harvest increased in desert areas. The planting of processing tomatoes was active in the Sacramento and San Joaquin Valleys.

PASTURES AND LIVESTOCK: Pastures were in fair to good condition but deteriorating due to dryness, especially in the Southeast. Rain is needed to improve conditions. Cattle were in fair to good condition.

CROP PROGRESS

FOR WEEK ENDING MAY 16, 1982

WINTER WHEAT % HEADED				SPRING WHEAT % PLANTED				COTTON % PLANTED				SOYBEANS % PLANTED			
	1982	1981	AVG.		1982	1981	AVG.		1982	1981	AVG.		1982	1981	AVG.
CALIF	90	99	NA	IDAHO	92	94	88	ALA	90	92	89	ALA	19	28	27
COLO	4	6	NA	MINN	74	99	83	ARIZ	94	93	94	ARK	11	20	15
IDAHO	0	0	0	MONT	65	89	75	ARK	83	96	71	GA	25	27	24
ILL	30	78	41	N D	48	87	61	CALIF	99	99	NA	ILL	45	9	27
IND	10	25	50	S DAK	94	100	90	LA	76	96	89	IND	40	2	20
KANS	30	85	35	5 STATES	65	92	73	LA	80	80	74	IOWA	10	19	24
MO	33	88	50	THESE 5 STATES PRODUCED 92%				MISS	90	93	78	KANS	4	10	5
MONT	0	0	0	OF THE 1981 SPRING WHEAT CROP.				MO	89	91	76	KY	16	12	12
NEBR	0	40	5					N MEX	65	55	68	LA	15	19	24
OHIO	0	2	0					N C	82	98	84	MICH	25	5	11
OKLA	90	100	90					OKLA	5	20	15	MINN	16	35	31
OREG	2	12	NA					S C	97	99	92	MISS	17	24	20
S DAK	0	18	3					MO	80	92	78	MO	24	16	19
TEX	79	94	NA					TEX	25	57	42	NEBR	1	10	15
WASH	0	5	4					14 STATES	52	71	NA	N C	25	25	26
15 STATES	38	64	NA					EXCL. STATES				OHIO	65	5	33
EXCL. STATES								WITH NA	46	67	55	S C	15	19	22
WITH NA	32	63	37					18 STATES				TENN	12	18	14
THESE 15 STATES PRODUCED 88%															
OF THE 1981 WINTER WHEAT CROP.															

NA - NOT AVAILABLE

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

NA - NOT AVAILABLE

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

CORN % PLANTED				RICE % EMERGED				RICE % PLANTED				SORGHUM % PLANTED			
	1982	1981	AVG.		1982	1981	AVG.		1982	1981	AVG.		1982	1981	AVG.
COLO	71	62	55	ARK	31	74	67	ARK	75	90	80	COLO	6	5	6
GA	99	100	96	CALIF	2	21	NA	CALIF	30	65	NA	KANS	5	5	10
ILL	92	62	66	LA	81	86	87	LA	88	93	93	MO	39	29	27
IND	90	20	60	MISS	55	80	67	MISS	90	95	83	NEBR	1	15	15
IOWA	65	85	79	TEX	85	93	NA	TEX	96	96	98	OKLA	15	25	20
KANS	55	60	55	5 STATES	46	71	NA	5 STATES	75	88	NA	S DAK	2	15	6
KY	80	76	63	EXCL. STATES				EXCL. STATES				TEX	69	80	72
MICH	75	35	52	WITH NA	47	78	72	WITH NA	83	92	86	7 STATES	29	35	33
MINN	62	82	65	THESE 5 STATES PRODUCED 98%				THESE 5 STATES PRODUCED 98%				THESE 7 STATES PRODUCED 92%			
MO	80	69	59	OF THE 1981 RICE CROP.				OF THE 1981 RICE CROP.				OF THE 1981 SORGHUM CROP.			
NEBR	30	70	60	NA - NOT AVAILABLE				NA - NOT AVAILABLE							
N C	97	98	94												
OHIO	100	20	56												
PA	55	45	44												
S DAK	28	62	41												
VA	80	80	73												
WIS	44	56	38												
17 STATES	69	64	64												
THESE 17 STATES PRODUCED 93%															
OF THE 1981 CORN 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 near average. No significant rainfall.

Soil moisture mostly adequate. Fieldwork: 5.7 days. Corn planted 92%. Cotton planted 90%, 1981 92%, average 89%. Peanuts planted 85%, 1981 80%, average 75%. Wheat heading 97%, 1981 98%, average 95%. Wheat turning color 32%, 1981 63%, average 44%. Sorghum planted 32%, 1981 39%, average 29%. Soybeans planted 19%, 1981 28%, average 27%. Activities: Planting corn, peanuts, sorghum, soybeans, and cotton; pest control on fruit, vegetables and crops; spreading fertilizer; seedbed preparation; wheat harvest. Conditions: Livestock, pastures, wheat, and corn good. Plowing 91%.

ARIZONA: Cold storm system spread scattered showers, thunderstorms through middle of week. Amounts of rain varied none to 0.50 in. One to five in. of snow White Mountains. Fair weather remainder of week except isolated showers over northern sections. Average temperatures 1 to 11° below seasonal normals.

Cotton planting 94% complete, ahead of last year's 93%, same as average. Squaring began, Yuma area. Barley harvest underway, most areas. Wheat approaching maturity all areas except Yuma where harvesting in progress. Corn planting completed. Sorghum planting continued. Sugarbeet digging passed mid point, Yuma County, only starting central area. Safflower flowering. Alfalfa haying

as weather permitted. Moderate rain damage to cut hay most areas. Lettuce cutting completed central area, harvest began May 14 in southeast. Table stock potato digging in full swing. Potatoes for chipping still not at peak. Dry onion bagging in progress. Harvest of green onions, greens, cabbage, carrots in progress. Cantaloups, watermelons sizing well, Yuma area. Picking of peaches continued. Valencia orange harvest spotty, lemons, grapefruit picked on demand. Ranges mostly fair to good condition with exception southwestern Desert areas very poor. Grasses greening northern range areas. Livestock in fair to good condition. Water supplies mostly adequate.

ARKANSAS: Warm, wet week. Highest temperature 92°, lowest 42°. All departures from normal ranged from 0 to +5°. Most rainfall 7.03 in., least 0.05 in.

Crop growth moderate. Five days available for fieldwork. Soil moisture adequate. Soybeans 11% planted, 20% 1981, 15% average. Rice planted 75%, 90% 1981, 80% average. Emergence 31%, 74% 1981, 67% average. Cotton planted 83%, 96% 1981, 71% average. Emergence 49%, 73% 1981, 71% average. Corn planted 86%, 97% 1981, 79% average. Sorghum planted 73%, 86% 1981, 69% average. Wheat, oats in good condition. Good yields on hay. Pastures supplied average forage. Livestock in good condition.

CALIFORNIA: After three weeks of generally above normal mean temperatures, last week turned colder. Only two reporting locations indicated temperatures warmer than normal and only by 1°. An intense upper level disturbance drove cold, Arctic air all the way through the State. Only a few light showers were observed, mostly over the Sierra Nevada where some of the showers were in the form of snow.

Rice planting increasing but behind schedule; 30% planted, 65% last year. Herbicide and pesticide application active. Cotton planting virtually complete; 99% planted, 99% last year. Cotton emerging and showing good stands. Small grains maturing and turning color rapidly. Winter wheat 90% headed, 99% last year. Harvest expected to start soon, Imperial Valley. Barley harvest started in southern California. Alfalfa and grain hay cutting continues. Planting of dry beans, milo and field corn continues. Sugarbeet harvest active. Hass avocados dominate market. Burlat cherries winding down. Fresno County kiwi/olive bloom full. Kern County Maybelle nectarines moving. Royal April freestone peaches begin shortly. Pears/walnuts treated for codling moth. Desert Valley grapefruit movement poor. Accelerated Valencia orange movement. Fair to good pistachio set. Almonds sprayed for Navel orange worm. Artichoke harvest active, Central Coast. Asparagus harvest active, Delta and Salinas Valley. Snap bean harvest doing well, Coachella Valley. Broccoli, cauliflower harvests increasing Central Coast. Brussels sprouts late but doing well. Desert cantaloups ready for harvest within a week. Carrot harvest active, Desert, San Joaquin Valley. Celery harvest active, Ventura, Orange Counties. Transplanting, seeding active on Central Coast. Sweet corn increasing, El Centro. Some worm damage note. Lettuce complete, San Joaquin Valley. Cutting increasing, Santa Maria-Oceano-Lompoc Valley. Early planted fields, Tulelake-Butte Valley areas, emerging. Bell pepper planting active San Joaquin Valley. Harvest underway, Coachella Valley. Fall potato plantings increasing, Tulelake area. Spring potato harvest increasing, Kern District. Sweetpotato planting increasing, Merced-Atwater area. Strawberry harvest underway all areas. Market tomato harvest increasing, Desert area. Weeding, thinning, staking in later planted fields. Processing tomato planting active, Sacra-

mento, San Joaquin Valleys. Desert watermelon harvest begins, one-two weeks. Warm temperatures, wind continue dry range feed. Stock water supplies more than ample most areas. Movement livestock summer grazing areas, market continues.

COLORADO: Heavy rains in east on 12th and 13th left up to 4.20 in. of rain in some areas and up to 24 in. of new snow near Boulder. Precipitation amounts averaged 1.00 to 2.00 in. in the north and south Platt Basin and in the Kansas Basin while the Arkansas Basin got 0.50 to 1.00 in. Precipitation in the San Luis Valley and west of the Divide averaged 2.00 to 4.00 in. in most locations. Temperatures averaged 2 to 4° below normal.

Showers improved prospects for most crops. Seeding of spring grains continues to advance with barley 92% seeded; spring wheat, 89% seeded; oats, 82% seeded. Barley 68% emerged. Sugarbeet seeding advancing rapidly with 99% in the ground. Roughly 71% of the corn in the ground and 9% has emerged. Winter wheat crop in fair to good condition with 4% being pastured, 65% jointed, and 4% headed. Subsoil and topsoil moisture supplies improved. Three days were suitable for fieldwork. Livestock in good condition.

FLORIDA: Mostly fair, dry as high pressure dominated. Mild days, cool nights kept readings 4 to 6° below normal. A few showers, thundershowers along lower east coast brought rainfall of generally 0.50 in. or less. Only isolated showers, thundershowers remainder of Peninsula. Most stations had no measurable rain.

Soil moisture short most of State. Showers in Panhandle helpful. Corn, tobacco condition declined because of dry conditions. Peanut planting about complete. Soybean planting slow due to dry soils. Wheat, hay harvest active, yields for both lower than normal. Sugarcane fair to good condition. Dry weather adversely affecting pastures. Grazing sufficient until now but growth has slowed due to dry weather. Pasture condition fair to poor. Cattle condition fair to mostly good. Citrus grove condition good but rain needed. Irrigation very active all areas. New growth slowed due to low moisture levels. Trees still dropping new crop fruit, adjusting to the size crop they can carry. Valencia harvest active all areas. Warm days, cool to mild nights continued in vegetable areas. Skies mostly sunny with little to no rainfall. Irrigation active for fields still being harvested. Total shipments increased 2% from previous week. Crops increasing were carrots, okra, radishes, southern peas and watermelons. Volume about steady for snap beans, celery, sweet corn, eggplant, potatoes and tomatoes. Supplies declined for cabbage, Chinese cabbage, cucumbers, escarole, lettuce, parsley, peppers, squash and strawberries. Potato harvest continues very active in the Hastings area; this crop remains the volume leader. Tomato harvest remains at peak levels. Watermelon volume continues to increase as harvest moves northward.

GEORGIA: Very little rain eastern third, but remainder averaged 0.25 to 0.75 in. early in the week, several locations in northwest received more than 1.00 in. Temperatures 2 to 3° below normal. A warm 15th and 16th. Generally dry although isolated thundershowers dropped more than 1.00 in. of rain few locations extreme north.

Soil moisture 52% short, 40% adequate. Six days suitable for fieldwork. Planting active but slowed by dry soils. Haying and spraying very active. Corn 99% planted, last year 100%, average 96%, condition 54% fair, 37% good. Cotton 76% planted, average 89%, condition 68% fair, 26% good. Peanuts 81% planted, average 82%, condition 51% fair and 41% good. Soybeans 25% planted, 27% last year, 24% average, condition 52% fair, 43% good. Tobacco 11% poor, 54% fair, and 31% good.

Watermelons 97% planted, last year 98% and 94% average. Peaches 3% picked, condition 14% very poor, 14% poor, 36% fair and 34% good. Apples 14% very poor, 26% poor and 38% fair and 22% good. Wheat 5% harvested condition 9% poor, 52% fair, and 37% good. Cattle and hogs fair to mostly good.

HAWAII: Weather favorable. Rainfall light some sections. Most areas sunny and dry. Irrigation frequency increasing. Farm activities up. Vegetables: Production of most crops climbing. Bananas: Supplies light. Papayas: Rains beneficial. Regular spray program being maintained to control diseases. Pineapples: Harvesting increasing gradually as summer approaches. Sugar: Mills back grinding in full force. Pastures: Generally fair to good.

IDAHO: Most areas received some form of precipitation early in the week with some stations getting more than an in. Rexburg reported the greatest amount with 1.77 in., Ashton 1.40 and Malta 1.07 in. Only trace amounts were reported in the extreme north.

Cool weather continued to hamper growth and development of crops and pastures. Fieldwork averaged 5 days. Winter wheat 30% jointed or higher, 65% in 1981. Spring wheat 92% seeded, 94% in 1981, 88% average. Barley 82% seeded, 89% in 1981. Frost damage to hay and winter wheat in east. Potatoes 70% planted, 50% in 1981, 62% average. Potatoes emerged 6%, 8% in 1981, 13% average. Sugarbeets 84% emerged, 90% in 1981. Temperatures ranged from 1 to 8° below normal. The high temperature reported was 82° at Grandview while the low was reported at Dixie with a 21° reading.

ILLINOIS: Temperatures 10 to 14° above normal in the northern two-thirds, 4 to 8° above normal in the south. Precipitation light to moderate, trace to 1.50 in.

Winter wheat 2% excellent, 68% good, 29% fair, 1% poor; 30% of the wheat crop was headed, 78% 1981, 41% average. Corn planting 92%, 62% 1981, 66% average. Oats 1% excellent, 64% good, 28% fair and 7% poor. Alfalfa 4% excellent, 73% good, 22% fair, 1% poor; 5% first cutting, 13% 1981, 7% average. Pastures 3% excellent, 68% good, 29% fair. Soil moisture 65% short, 35% adequate. Activities: Preparing the soil for planting, planting corn and soybeans, and applying herbicides.

INDIANA: Warm, dry week. Temperatures ranged from 49 to 92°, 10° above normal. No precipitation in south but 0.20 to 0.40 in. in north and central on weekend. Sunshine 80% of possible. Low humidities.

Fieldwork averaged 6 days. Topsoil moisture short to adequate, subsoil moisture mostly adequate. Corn 90% planted, 1981 20%, average 60%. Corn emerged 50%, 1981 25%, average 30%. Spring cropland 96% plowed, 1981 94%, average 91%. Soybeans 40% planted, 1981 2%, average 20%. Soybeans 5% emerged. Wheat mostly fair to good. Wheat 14 in. high, 1981 23 in., average 15 in. Wheat 10% headed, 1981 25%, average 50%. Pastures fair to good.

IOWA: A warm, wet week excepting subnormal precipitation southeast and east central. Temperatures average +5° west to +10° east.

Topsoil moisture: 61% surplus, 34% adequate, 5% short. Subsoil moisture: 32% surplus, 65% adequate, 3% short. Plowing: 97% complete, last year 100%, normal 95%. Oat acreage emerged: 95%; last year 100%. Corn acreage planted: 65% complete, last year 85%, normal 79%. Corn acreage emerged: 25%, last year 26%, normal 27%. Soybean

acreage seeded: 10% complete, last year 19%, normal 24%. Fieldwork: 2.8 days suitable. Crop conditions: Corn, pasture, wheat, oats and hay mostly good. Livestock in good condition.

KANSAS: Intermittent precipitation averaged about 1.00 in. west central and southwest, 2.70 in. east central, 2.00 in. northeast and southeast, 1.40 in. to 1.90 in. elsewhere. Locally 4.00 in. to over 5.00 in. south central and east central. Temperatures averaged 57° northwest, 65° southeast; normal southwest and south central, 2 to 4° above normal elsewhere.

Wheat 97% jointing, 100% last year, 90% average; 30% headed, 85% last year, 35% average. Corn 55% planted, 60% last year, 55% average. Sorghum 5% planted, 5% last year, 10% average. Soybeans 4% planted, 10% last year, 5% average. Alfalfa 1st cutting 5% complete, 30% last year, 15% average. Alfalfa weevil damage moderate to severe 4 southeastern districts, light northeast, 80% sprayed. Subsoil moisture generally adequate except southwest; surface moisture short to adequate southwest, adequate to surplus elsewhere. Pasture and range continue good to excellent, except poor to fair west central, southwest. Cattle on native pasture and abandoned wheat. Fieldwork: 3.0 days suitable.

KENTUCKY: Temperatures were well above normal. Very scattered showers and thunderstorms resulted in measurable precipitation in only a very few areas.

Days favorable for fieldwork averaged 5.7. Soil moisture 69% short, 31% adequate. Corn planting continued to advance rapidly to 80% complete, 76% last year, 63% average; 43% emerged and in good to excellent condition. Soybean planting 16% complete, last year and average, 12%. Tobacco plants generally good. Statewide 20% over 4 in., 40% 2 to 4 in. and 40% under. Setting has begun. Small grains fair to good, 73% headed. Alfalfa cutting underway. First cutting expected short due to cold spring, weevil and dry conditions. Pastures short due to lack of rainfall.

LOUISIANA: Temperatures 1 to 3° below normal north, 4 to 5° below normal south. Rainfall averaged 0.25 to 2.50 in.

Soil moisture adequate. Days suitable: 5.4. Corn planted 99%, 98% 1981, 96% average; emerged 96%, 95% 1981, 92% average; condition good. Cotton planted 80% 1982 and 1981, 74% average; emerged 60%, 72% 1981, 54% average; condition good. Soybeans planted 15%, 19% 1981, 24% average; emerged 8%, 9% 1981, 12% average; condition good. Rice planted 88%, 93% 1981 and average; emerged 81%, 86% 1981, 87% average; condition fair to good. Sorghum planted 76%, 69% 1981, 43% average; emerged 66%, 61% 1981, 34% average; condition fair to good. Sweetpotatoes planted 44% 1982 and average, 69% 1981; condition fair to good. Wheat harvested 2%, 4% 1981, 6% average; condition fair to good. Sugarcane rated fair to good. Vegetables rated fair to good. Pastures, livestock rated good.

MARYLAND AND DELAWARE: Temperatures averaged 2° above normal. Highs in the mid to upper 70's; lows in the mid 50's. Precipitation minimal. Greatest amount reported at Cumberland, 0.85 in. Least measurable amount at Woodstock with 0.03 in. May 15 and 16 were both sunny and warm. Highs in the mid 80's. Lows in upper 40's to low 50's. No rain.

Plowing progressed to 95% of completion compared with 100% last year. Dry weather progressed into its second consecutive week giving a full 7 days suitable for fieldwork. Topsoil moisture supplies were short. Subsoil moisture remained adequate but being depleted quickly. Maryland's progress percentages: Barley headed 80% both

years. Oats headed 30%, 60% 1981. Rye headed 90%, 95% 1981. Wheat 35% headed, 65% 1981. Tobacco 5% transplanted, 15% 1981. Corn planted 80% both years. Soybeans 10% planted both years. Snap beans, sweet corn and cucumbers 45% planted, 65%, 75% and 45% respectively last year. Tomatoes and watermelons 55% planted, 60% and 55% respectively last year. Cantaloups 10% planted. Delaware's progress: Barley and rye 100% headed, 95% and 100% respectively last year. Field corn 80% planted, 90% 1981. Soybeans acreage planted 30% both years. Sweet corn planted 100%, 75% 1981. Remaining vegetables planted in Delaware made good progress but were generally behind last year.

MICHIGAN: Temperatures averaged from 8 to 17° above normal. Highest temperatures ranged from upper 70's to the low 90's. Lows ranged from mid and upper 30's to the mid and upper 50's. Precipitation was light with scattered showers occurring over most parts of the State. The west central Lower Peninsula received over 1.00 in. of rain and the Upper Peninsula continues to receive above normal rainfall.

Fieldwork in full swing. Six days suitable for fieldwork. Soil moisture supplies short in all areas except the Upper Peninsula. Corn 75% planted, 35% last year and 52% average. Oats 98% seeded, 95% last year and 90% average. Soybeans 25% planted, 5% last year and 11% average. Potatoes 80% planted, 70% last year, 64% average. Winter wheat in mostly fair condition. All crops need rain to develop.

MINNESOTA: Another mild and wet week. Temperatures averaged 3 to 5° above normal north, 6 to 10° above normal south. Highest reported temperature was 85° at several locations and coolest temperature was 32° at Posston. Rainfall averaged over an inch all sections of the State ranging from 1.05 in. northwest to 1.99 in. southwest. The previously dry areas in the southwest and west central received 1.82 and 1.35 in. respectively. The largest reported rainfall amount was 2.87 in. at Minneapolis.

Farmers limited to only a few days planting because of cloudy, rainy weather. Last week's rain added to previous week has produced surplus moisture in eastern half and northwestern corner of State. The rain was very much needed in west central, central and southwest. Topsoil moisture rated 3% short, 48% adequate and 49% surplus. Planted: Spring wheat 74%, 1981 99%, normal 83%; oats 86%, 1981 98%, normal 85%; barley 66%, 1981 97%, normal 76%; field corn 62%, 1981 82%, normal 65%; soybeans 16%, 1981 35%, normal 31%; sugarbeets 86%, 1981 99%, normal 81%; potatoes 26%, 1981 58%, normal 48%; sunflowers 9%, 1981 50%, normal 39%. Emerged: Spring wheat 49%, 1981 87%, normal 60%; oats 65%, 1981 86%, normal 64%; barley 34%, 1981 79%, normal 54%.

MISSISSIPPI: Temperatures ranged from 4° below normal to 4° above normal. Extremes: 44 and 91°. Rainfall last half of week was spotty. Wettest area was Upper Delta and southeast the driest area.

Soil moisture adequate. Fieldwork: 6.0 days suitable. Planting advanced rapidly. Cotton 90% planted, 93% last year, 78% average; 50% to stand, 76% last year, 54% average. Rice 90% planted, 95% last year, 83% average; 55% to stand, 80% last year, 67% average. Soybeans 17% planted, 24% last year, 20% average. Corn 88% planted, 96% last year, 87% average; 68% to stand, 86% last year. Other crops percent planted: Peanuts: 65%, sorghum 40%, and sweetpotatoes 25%. Hay harvest 17%. Winter wheat 5% ripe, harvest just underway in south. Crops in good to fair condition except wheat in fair to good condition.

MISSOURI: Temperatures averaged 5° above normal. Precipitation was widespread but amounts varied

from as much as 2.00 to 3.00 in. in some parts of west to less than 0.10 in. in the Bootheel.

Fieldwork: 3.7 days suitable. Corn 80% planted, last year 69%, normal 59%. Grain sorghum 39% planted, last year 29%, normal 27%. Soybeans 24% planted, last year 16%, normal 19%. Wheat 33% headed, last year 88%, normal 50%. Alfalfa hay 1st cutting 10% harvested, last year 26%, normal 14%. Cotton 89% planted, last year 91%, normal 76%. Condition of winter wheat and pasture fair to good. Topsoil moisture supply mostly adequate.

MONTANA: Cool week. Temperatures averaged 1° below normal west to 6° below south central. Maximum temperatures early in week in 30's parts of central and southwest areas. Freezing temperatures over all except northeast and southeast. Precipitation moderate to heavy east of Continental Divide. Parts of southeast received 2.00 to 3.00 in. rain end of week. Dry west of Divide.

Topsoil and subsoil moisture both mostly adequate. Winter wheat condition good, stands fair to good. Fieldwork: 4 days suitable. Percent planted compared with last year and average: Spring wheat 65, 90, 75; barley 70, 85, 75; sugarbeets 90, 100, 95; corn 50, 60, 55; potatoes 15, 35, 40; dry beans 30, 50, 45; oats 60, 80, 70. Percent emerged: Spring wheat 15, 60, 60; barley 20, 60, 60. Livestock moved to summer ranges: Cattle 35, sheep 40%.

NEBRASKA: Precipitation: A wet week. Rainfall generally from 1.00 to 3.00 in. Temperatures: 2 to 6° below normal in west; up to 5° above normal in east.

Corn planted 30%, 70% last year and 60% normal. Corn planting averaged one week behind normal. In southeast, planting was two weeks behind normal. Emerged 5%, 35% last year and 20% normal. Sorghum planted 1%, 15% last year and normal. Soybeans planted 1%, 10% last year and 15% normal. Winter wheat condition mostly good to fair. Jointed 70%, 100% last year and 65% normal. Headed 0%, 40% last year and 5% normal. Expectations for Panhandle wheat improved with rains averaging 1.50 in. Alfalfa condition good. Alfalfa weevil infestations heavy in some parts of the southeast. Topsoil moisture adequate to surplus. Subsoil moisture adequate. Pasture and range feed conditions mostly adequate to short. Days suitable: 2.8.

NEVADA: Cool and wet. Low pressure system produced light to moderate precipitation most areas early in period. Weaker low end of week had light, scattered showers north and central. Temperatures below normal early in period, recovered slowly midweek, but dipped again end of week. Temperatures for period averaged 1 to 9° below normal. Extremes: 15 and 91°.

Crops showed normal progress. Widespread showers improved grazing prospects, ranges and pastures. Livestock mostly good condition.

NEW ENGLAND: Temperatures were near or slightly below normal ranging from the mid-40's in northern Maine and Cape Cod to near 60 in the interior Connecticut Valley. Warmest day: the 16th. Coolest day: The 11th. Week began with a low pressure wave along the coast which was responsible for most of the rain. Beverly, MA recorded 2.01 in. of rain on the 10th while St. Johnsbury, VT on the 10th and 15th received a total of 1.65 in.

Soil moisture mostly adequate. Six days favorable for fieldwork. Maine potatoes 20% planted. Grazing mostly adequate. Cranberry bogs just breaking dormancy, new growth expected in next few weeks, growers spraying for insects. Prospects appear good.

NEW JERSEY: Temperatures averaged near normal. Extremes were 36° at Charlotteburg on 12th and 87° at Flemington on 16th. Rainfall averaged 0.07 in. north, 0.06 in. central and 0.13 in. south. Heaviest 24-hour total was 0.34 in. at Downtown on 12th to 13th. Estimated soil moisture, in percent of field capacity, averaged: 72 north, 60 central and 54 south. Four inch soil temperature averaged: 59° north, 60° central and 60° south.

Weather conditions continue favorable for fieldwork. Summer vegetable planting active. Asparagus volume increasing slowly. Big Boston, leaf and bibb lettuce harvest continues. Early "greens" moving to market in moderate volume. Spinach in good supply. Potatoes up in early planted fields. Sweetpotato planting getting underway. Peaches progressing through shuck-split stage. Strawberries sizing. Fall seeded grains growing well. First cutting of hay begun. Pastures growth good.

NEW MEXICO: Some precipitation in northern areas around midweek with very low totals. Temperatures average below normal.

Open weather prevailed, allowing planting operations to remain active. Soil moisture continues in short to adequate supply with most areas still well below the normal year-to-date totals. Cotton approximately 65% planted. Cool nighttime temperatures slowing growth in some areas. Alfalfa fields remain in good condition. Planting of corn about 95% completed compared to approximately 85% last year. Planting of grain sorghum continues to increase in activity with about 15% of the fields planted. Irrigated wheat and barley remain in good condition and the dryland crop in mostly poor condition. Harvest of lettuce in the Mesilla Valley remains very active. Pecans progressing in good condition. Working of calves underway. Ranges remain in poor to fair condition, in need of moisture. Cattle and sheep in good condition.

NEW YORK: Rainfall light, temperatures averaged near normal. Another dry week.

Good work conditions. Corn 27% planted, 32% 1981, 37% average. Oat planting 80% done, 76% 1981, 75% average. Hay, pastures dry with slow growth. Hudson, Champlain Valley McIntosh trees in full bloom. Western apples in full bloom. Good set in Lake Ontario sweet cherries. Tart cherries in full bloom. Long Island potato planting complete, Upstate well underway. Vegetable planting activity increasing. Early seeded onions up.

NORTH CAROLINA: Temperatures: 2 to 4° above normal. Precipitation: Zero at most locations to a few hundredths of an inch at Aurora and Reidsville.

Soil moisture: 4% very short, 63% short, and 33% adequate. Fieldwork: 6.2 days suitable. Conditions: Wheat, oats, barley, and rye fair to mostly good; tobacco beds fair to mostly good; field tobacco fair to good; corn and Irish potatoes fair to mostly good; cotton and truck crops fair to good; peaches mostly poor. Plantings: Corn 97%, 1981 98%, 94% average; cotton 82%, 1981 98%, 84% average; peanuts 69%, 1981 80%, 60% average; sweetpotatoes 26%, 1981 11%, 19% average; sorghum 47%, 1981 48%, 33% average; soybeans 25%, 1981 25%, 26% average; flue-cured tobacco 83%, 1981 90%, 75% average; burley tobacco 8%, 1981 9%. Supplies: Tobacco plants mostly adequate. Major farm activities: Transplanting tobacco, planting soybeans, and cutting hay.

NORTH DAKOTA: Average temperatures from 4° below normal north central and southwest to 1° above normal east central and southeast. Warmest temperature 88° southeast on 15th. Coldest 30° northeast 9th. Week was wetter than normal. Average precipitation from 0.36 in. above normal west

central to 1.43 in. above normal south central. Most rain received was 2.57 in. south central.

Cloudy, wet conditions brought spring planting to virtual standstill. Average of 1.5 days suitable for fieldwork. All areas have adequate topsoil moisture with 20% surplus notably northeast and extreme southwest and south central. Seeding of small grains pushed further behind the average pace. Hard red spring wheat seeding now about one week behind the average pace. Progress was still ahead of the late 1978 and 1979 paces but well behind the early 1977, 1980 and 1981 years. Early emerged grain looks good. Only 21% of hard red spring wheat emerged. Sunshine needed for growth. Pasture and hay outlook excellent. Planting progress along with progress last year and average: Hard red spring wheat 48, 87, 61; durum 36, 76, 54; barley 58, 83, 60; oats 41, 88, 58; sugarbeets 85, 100, 83; flax 8, 25, 21; sunflower 2, 17, 17; potatoes 12, 65, 44; and dry beans 2, 12, 17.

OHIO: Temperatures averaged well above seasonal levels. Averages as much as 7 to 10° warmer than usual with only a few northeastern and southeastern border areas 4 to 5° above normal. Afternoon temperatures in 80's were common, a few 90 plus readings noted south. Precipitation was spotty and light. Evaporative loss rates averaged from 1.5 to 2.25 in. Soil moisture levels diminished rapidly. Four in. bare soil temperatures pushed into the 70's, speeding germination and emergence wherever moisture supplies were adequate.

Corn and oat planting completed last week with soybeans approaching 66% mark. Dry, hot weather beginning to stress corn and soybeans. Wheat fair except northwest where condition poor. Other farm activities: Spreading fertilizer, spraying herbicides, irrigating tobacco plant beds, planting tomatoes, sweet corn, melons and strawberries. Corn planting 100%, 20% 1981, 56% average. Soybean planting 65%, 5% 1981, 33% average. Oat planting 100%, 90% 1981, 95% average. Potato planting 80%, 40% 1981, 62% average. Days favorable: 7.0. Pasture condition fair. Soil moisture 89% short, 11% adequate.

OKLAHOMA: Rainfall ranged from 1.50 in. Panhandle to 6.21 in. southeast. Temperatures ranged from 4° below normal southwest to 1° above normal Panhandle, northeast, and central.

Wet conditions continue to aid wheat growth and development. Prospects good for excellent yields. Wheat heading: 90%, 100% 1981, 90% average. Sorghum planted: 15%, 25% 1981, 20% average. Sorghum up to stand: 10%, 15% 1981, 5% average. Cotton planted: 5%, 20% 1981, 15% average. Days suitable for fieldwork: 3.7.

OREGON: Temperatures 4 to 5° below normal east of mountains; 2 to 3° below west. Scattered rain early in week averaged less than 0.10 in., except up to 0.50 in. in northern Cascades and northeastern areas.

Soil moisture supplies short to mostly adequate. Irrigation being used. Winter wheat condition good; 60% booted, 92% last year; 2% headed, 12% last year. Cheatgrass major problem in eastern wheat. Early barley headed. Grass seed crops good. Spraying for rust in perennial ryegrass and bluegrass. Some hay cut. Green chop harvest continues. Apple and some Bartlett pear thinning in Hood River Valley. Prune set seems lighter in Willamette Valley. Peach set variable from good to light. Strawberries almost full bloom. Codling moth starting to emerge; spray programs being planned. Winter damage apparent in some red raspberries and evergreen blackberries. Lophoderium twig blight in cranberries a major problem. Vegetable plantings getting on schedule. Onion plantings complete. Potato planting underway in late areas; side dressing underway in early fields.

Green peas in good shape. Range and pastures fair to good. Warm weather needed. Livestock being put on short pastures and ranges as feed supplies are dwindling.

PENNSYLVANIA: Very dry week with 0.25 in. or less of precipitation. Freezing temperatures north central mountains on the 11th. Warming trend by the end of the week. Temperatures averaged near normal for the week. Extremes: 89 and 26°. Average precipitation 0.04 in.

Six days suitable. Moisture mostly short. Activities: Plowing; spraying; making haylage; harvest rye for silage and green chop; harvesting asparagus; and planting oats, corn, potatoes, and soybeans. Plowing 88% complete, last year and average 85%. Soybeans 22% planted, last year 15%. Oats virtually all planted, last year 91%. Potatoes 82% planted compared with 65% last year. Corn 55% planted compared with 45% last year and average of 44%. Barley 27% in boot and 32% headed, last year 36% in boot and 16% headed. Wheat 24% in boot and 6% headed, last year 30% in boot and less than 5% headed. Hay stand conditions fair to good but need moisture. Feed from pastures below average to average. Virtually all peaches in full bloom or past, 92% of cherries in full bloom or past, and 84% of apples are in full bloom or past.

PUERTO RICO: Island average rainfall 5.32 in. or 3.78 in. above normal. Temperatures averaged about 78° on Coasts and 72 to 73° Interior Divisions. Extremes: 86 and 57°.

SOUTH CAROLINA: Temperature averages near normal. Dry except for later widely scattered showers.

Soil moisture mostly short with 6 days suited for fieldwork. Corn cultivated 38% second time, 5% last year; fair to good condition with some wilting. Cotton stands fair to good, 97% planted, 99 in 1981, 92 average; conditions fair to good. Tobacco transplanting complete but in only fair condition due to recent cool soils holding back growth. Growers applying nitrogen sidedressing where nutrients leached out. Peaches and apples remaining in cold damaged Piedmont appear good; overall peach condition fair under irrigation where available. Major ridge region Camden peach harvest started. Wheat and oats conditions fair to good, with 2 and 5% ripe, respectively. Tomatoes good condition, snap beans fair with 1% harvested and cucumber condition fair to good; watermelon's condition was fair with planting nearly complete.

SOUTH DAKOTA: Temperatures near normal. Extremes: 85 and 25°. Precipitation widespread with amounts from 1.00 to 8.00 in. Mostly 2.00 to 6.00 in. Some lowland flooding West River.

Topsoil moisture mostly adequate. Activities: Small grain seeding, corn, flax and sorghum planting. Calving and lambing 90% complete. Winter wheat fair to good. Winter rye good. Stock water remains adequate. Range and pastures good. Feed supplies short. Spring wheat planted 94%, 1981 100%, average 90%. Oats planted 96%, 1981 100%, average 91%. Barley planted 93%, 1981 100%, average 88%. Flax planted 45%, 1981 77%, average 51%. Corn planted 28%, 1981 62%, average 41%. Sorghum planted 2%, 1981 15%, average 6%. Spring wheat emerged 70%, 1981 97%. Oats emerged 73%, 1981 95%. Barley emerged 71%, 1981 96%. Winter wheat booted 8%, 1981 66%, average 17%. Rye booted 12%, 1981 68%, average 19%.

TENNESSEE: High pressure dominated. Temperatures varied little day to day depending mostly on cloud cover. Precipitation occurred over weekend as isolated or widely scattered thundershowers. Temperatures averaged 1 to 4° above normal.

Fieldwork: 5.5 days suitable - best week this year. Soil moisture 58% adequate, 42% short. Corn 80% planted, 1981 86%, average 68%. Cotton 80% planted, 1981 92%, average 78%. Soybeans 12% planted, 1981 18%, average 14%. Tobacco 20% transplanted, 1981 25%, average 13%. Land preparation 87% complete, 1981 90%, average 83%. Wheat 90% headed., oats 82% headed - development of small grains advanced to normal. Pastures mostly fair - need rain. Alfalfa first-cutting 57% complete. Cattle in very good condition. Activities: Spring plowing, planting major row crop, planting commercial snap bean acreage, setting tobacco, haymaking.

TEXAS: Weather: Upper level weather system moved eastward across State during week. Scattered showers, thunderstorms northwest Texas. Thunderstorm activity widespread midweek. Slow-moving thunderstorms North Central Texas thirteen in. 12th, 13th. Temperatures near normal North Central Texas, northeast; West Texas above normal. Rainfall much above normal.

Range and pasture: Ranges, pastures improve with good moisture conditions. Livestock gaining weight with improved grazing, supplemental feeding cut back. Weeds making good growth, control measures underway. Cotton planted 25%, 57% 1981, 42% average. Cotton squaring 6%, 5% 1981. Cotton setting bolls 1%, 0% 1981. Rice planted 96%, 96% 1981, 98% average. Rice emerged 85%, 93% 1981. Sorghum planted all purposes 69%, 80% 1981, 72% average. Sorghum headed 6%, 9% 1981. Wheat headed 79%, 94% 1981. Wheat turning color 11%, 35% 1981. Oats for grain harvested 4%, 3% 1981, 4% average. Corn planted 95%, 98% 1981, 96% average. Peanuts planted 11%, 23% 1981, 20% average. Soybeans planted 2%, 7% 1981, 8% average. Sunflowers planted 9%, 32% 1981, 15% average.

Crops: Scattered showers most State during week, locally damaging rain, hail some areas. Tornado caused property, crop damage south, west of Seminole; heavy rains washed out some fields Blacklands, along Upper Coast. Most fieldwork interrupted by rain. Cotton planting, development been slowed by cool, wet weather. Heavy rains washed some fields southern High Plains; replanting necessary. Several stands Blacklands be replanted because poor development. Cotton squaring along coast. Blacklands southward, aphids, greenbugs problem many sorghum fields. Grass also problem; many fields; wet soils prevented cultivation. Stands booting southern half State. High winds along Upper Coast damaged some fields. Corn planting winding down High Plains; growth, development slowed by cool, cloudy weather. Some hail damage reported scattered areas Northern High Plains. Stands tasseling Coastal Bend. Dryland wheat some improvement Northern High Plains following recent showers. However, some instances showers too widespread; too late. Severe hail damage some northern counties. Low Plains through Blacklands, prospects improved with recent showers; cool, cloudy weather delaying maturity. Rust, powdery mildew continue problem; cutworms increasing southern half of State. Birds problem early-maturing fields along coast. Harvest underway South Central Texas; rains, cool temperatures slowed operations. Reported condition 67% of normal with 4% excellent; 25% good; 64% fair; and 7% poor. This compares with 77% of normal last year. Rice responding to warmer weather. Some leaves broken by heavy rains, flooding along coast. Peanut planting full swing Southern High Plains where weather conditions permitted. Cool soil temperatures, rain delaying field operations Cross-Timbers. Early-planted soybeans along coast suffering from too much rain; some stands flooded out. Hay meadows good progress with good moisture conditions. Blacklands some damage to fields cut before rain. Lower Rio Grande Valley, onion harvest nearing completion. Harvest cantaloups, squash, carrots continued. Supplies cabbage remained available

Citrus harvest winding down. Coastal Bend, cucumbers, watermelons, tomatoes good progress. San Antonio-Winter Garden some onion, cucumber stands destroyed by hail. Some onions being harvested; watermelons setting fruit. East Texas, continued cool weather caused problems with warm season vegetables. Third melon planting underway. Sweet-potatoes being set out. Trans-Pecos, cool weather slow development most vegetables. Some light hail damage onion, carrot fields. Plains, onion fields received light, moderate hail damage; most fields not mature enough to be severely damaged. Onions, potatoes make good progress. Peach harvest underway Gillespie County; prices early varieties good. Pecans developing most areas; producers spray case-bearers. Light storm damage reported East Texas.

UTAH: Scattered areas shower and thunderstorm activity forepart period and again over weekend. Accumulated amounts moisture generally light to moderate but locally heavy few localities. Average temperatures generally much below normal ranging between 2 and 9° below.

Spring fieldwork continued in progress, with 6 good working days. Spring wheat and barley 92%. Oats only 76%. Plant growth slow, spring wheat 72% emerged, barley 68%, oats only 40%. Alfalfa and winter wheat averaged 6 to 8 in. in height. Corn planting, though still way behind normal, doubled from last week. Processing vegetable crops and potato planting in progress. Range feed growth very slow -- very little movement of livestock to spring ranges.

VIRGINIA: Weather mostly clear, dry -- low humidity with above normal winds. Warm early and late, cool midweek. Dry spell continues. Rain occurred as scattered showers early in period.

The shortage of topsoil moisture slowed planting of soybeans. Topsoil moisture rated 94% short, 6% adequate. Days suitable for fieldwork: 6.0. Corn planting progressed to 80% complete, 80% 1981, 73% average. Stands were in good to excellent condition. Most areas report sufficient moisture for germination. Peanuts 92% planted, 75% 1981, 55% average. Soybean planting 18% complete, 18% 1981, 12% average. Tobacco plant beds in fair to good condition, burley plants small, irrigating beds. Flue-cured tobacco 37% transplanted, 44% 1981, 24% average. Burley 3% transplanted, 8% 1981, 5% average. Fire-cured 10% transplanted, 11% 1981, 9% average. Sun-cured 3% transplanted, 16% 1981, 10% average. Pastures and hay rated poor to good condition, need rain. Weather suited to make hay, short growth. First cutting made on 11% of fields. Alfalfa haylage and small grains silage cutting continuing. Spraying for insects and weeds active. Rain needed to activate herbicides. Planting of sweetpotatoes, melons, truck crops active. Livestock condition good.

WASHINGTON: High pressure dominated the weather for another week, but weak fronts moved around the high early in the week and again late in the week. Precipitation with both fronts was well below normal both east and west of the Cascades. The air mass associated with the high was relatively cool; for the most part, afternoon temperatures were warm and nighttime lows were cool--there were many reports of minimum temperatures under 32°.

West: Cool, dry weather was evident which was acceptable to fieldwork. Farmers were busy planting field and sweet corn, green peas, and other mid-summer vegetables. The harvest of radishes, winter cauliflower, and field rhubarb continued. Pastures were being fertilized with some green chopping in more advanced areas.

East: Farmers were winding down from spring seeding. Winter wheat and spring seeded crops were in average condition with soil moisture ranging from adequate to good in all areas. The harvest of asparagus gained momentum after a slow start. Alfalfa hay harvest placed 10 to 14 days behind normal. Potatoes were emerging but development behind normal. Pastures generally in good condition with growth slow.

WEST VIRGINIA: Temperatures above normal. High 92°, low 26°. Precipitation below normal; zero reported except at 3 stations.

Soil moisture very short to short. Days worked averaged 5.8. Main activities planting, gardening, general maintenance. Oats 81% planted, 65% emerged; 87% and 70% in 1981. Corn 56% planted, 20% emerged; 46% and 16% in 1981. Barley 40% pre-jointed, 33% jointed and 27% headed; 38%, 35%, and 27% in 1981. Wheat 54% pre-jointed, 36% jointed and 10% headed; 54%, 43% and 3% in 1981. Small grains remain in fair to poor condition. Tobacco poor to fair condition. Bedding complete, 63% emerged, 1% set. Hay harvesting delayed by lack of rain. Pasture poor to fair. All crops being delayed by record low rainfall during April and continuing into May.

WISCONSIN: Temperatures averaged 8° above normal as a summer-like weather pattern persisted. Temperatures ranged from a high of 88° in Iola on the 11th to a low of 38 in Manitowish Waters on the 10th. Showers fell early in the week and became more widespread over the weekend. A small tornado touched down in the Brookfield area causing some damage. Precipitation amounts generally ranged from 1.00 to 1.50 in., with some isolated 2.00 in. totals reported.

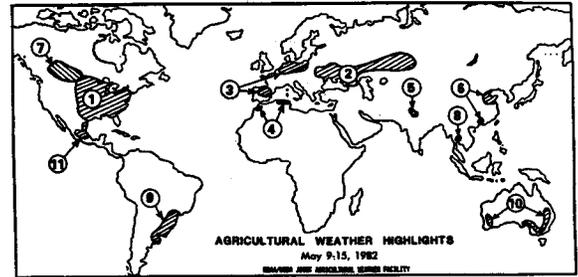
Fieldwork: 5 days suitable. Farmers continued with spring planting. Planting of oats 89% complete, 89% 1981, 82% average. Oats grew rapidly. Corn planting continues, 44% complete, 56% 1981, 38% average. Planting most advanced in the south-east. Hay fields showed good growth as did pastures. Pastures were rated 90% of normal, 82% 1981, 81% average. Alfalfa apparently made it through the winter in fine shape. Spring plowing continuing, 73% complete, 80% 1981, 69% average. Apple trees in blossom. Canning crops being planted. Topsoil moisture conditions were rated 18% short, 50% adequate and 32% surplus. Moisture abundant in the west central district. With recent summer-like conditions, growing degree day accumulations well above normal.

WYOMING: Much needed moisture finally occurred. Most stations reported much above normal precipitation. Most received in east and northeast with amounts ranging 0.50 to over 2.00 in. above normal. Greatest amounts received in the Lower Platte Drainage. Temperatures 4 to 9° below normal.

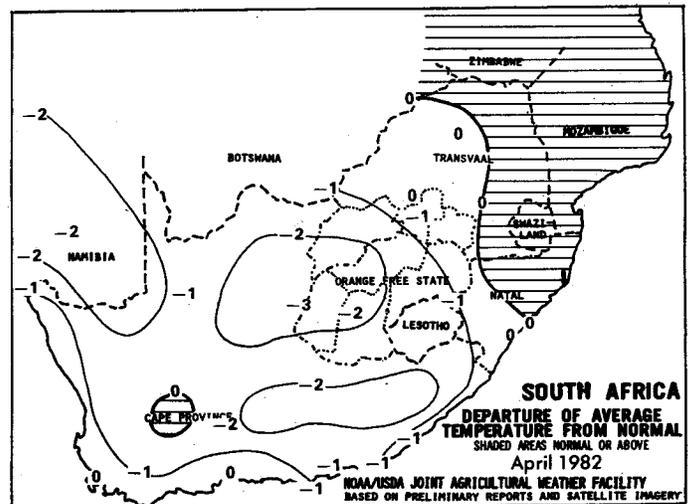
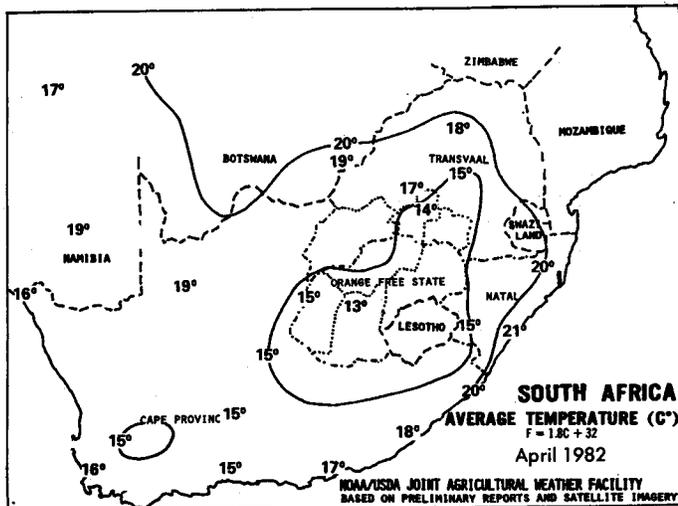
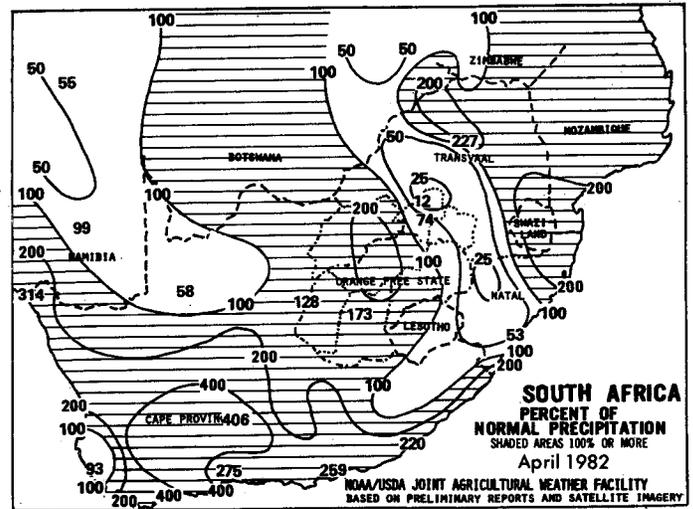
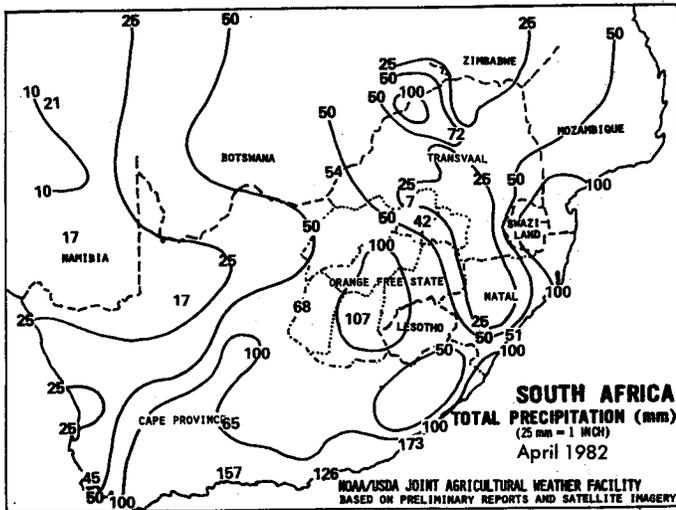
Topsoil moisture adequate 63% State. Three days suitable for fieldwork. Rain-wet fields slowed planting. Spring wheat planted: 55%; last year 80%; normal 80%. Spring wheat emerged: 40%; last year 45%; normal 59%. Oats planted: 60%; last year 75%; normal 82%. Oats emerged: 25%; last year 45%; normal 58%. Barley planted: 70%; last year 90%; normal 85%. Barley emerged: 45%; last year 65%; normal 69%. Corn planted: 40%; last year 55%; normal 54%. Corn emerged: 5%; last year 10%; normal 15%. Potatoes planted: 20%; last year 20%; normal 35%. Dry beans planted: Few; last year 10%; normal 5%. Sugarbeets emerged: 40%; last year 80%; normal 62%. Ranges and pastures mostly fair condition. Stock water adequate most areas. Range sheep: Ewes lambled 75%; shorn 80%.

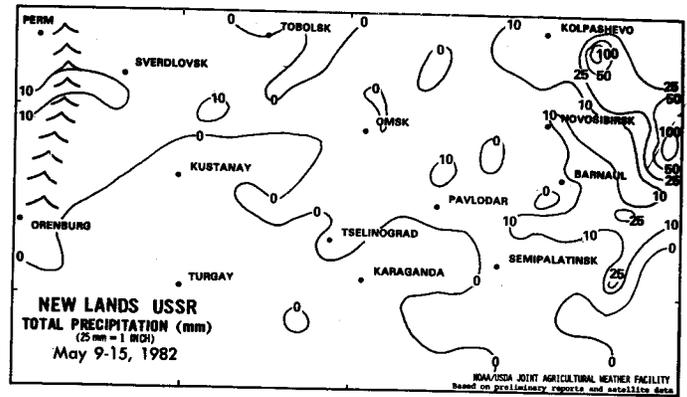
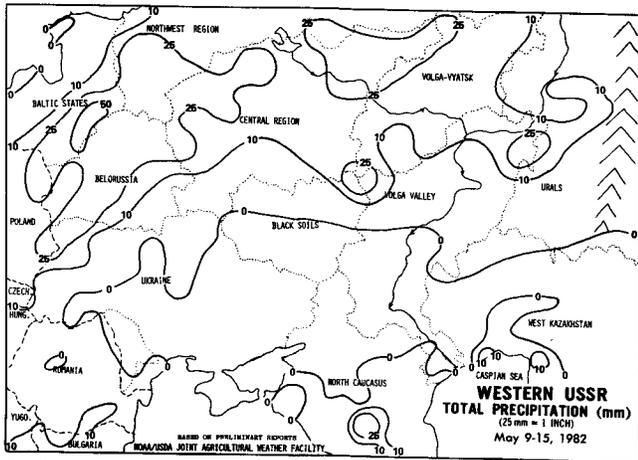
International Weather and Crop Summary

May 9-15



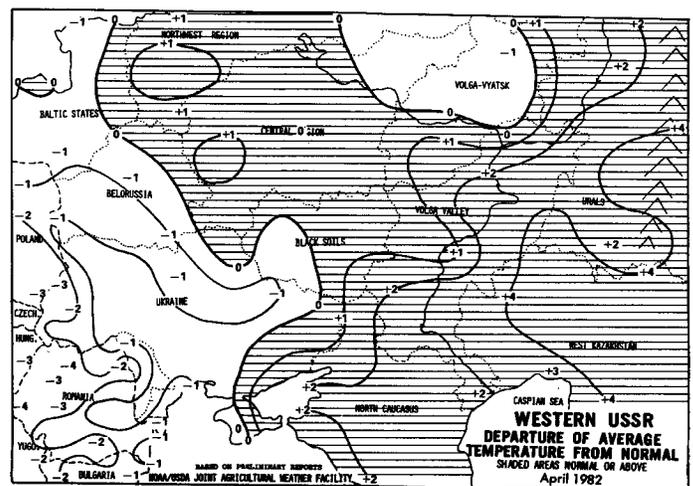
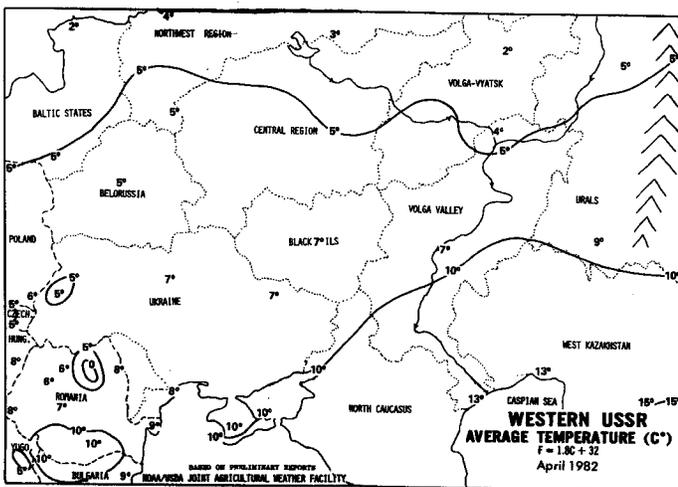
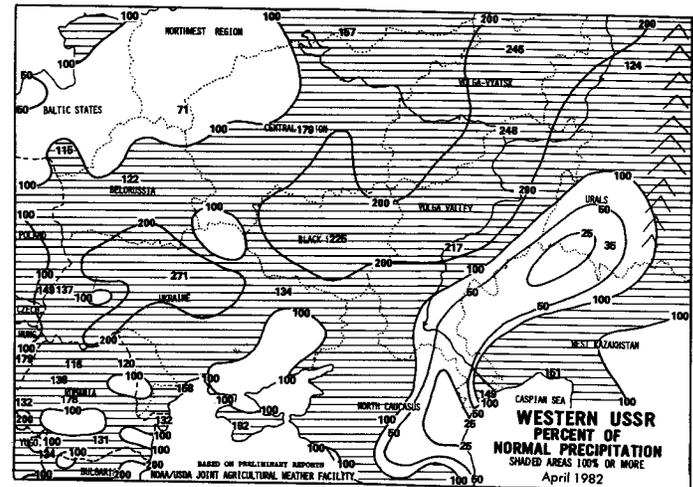
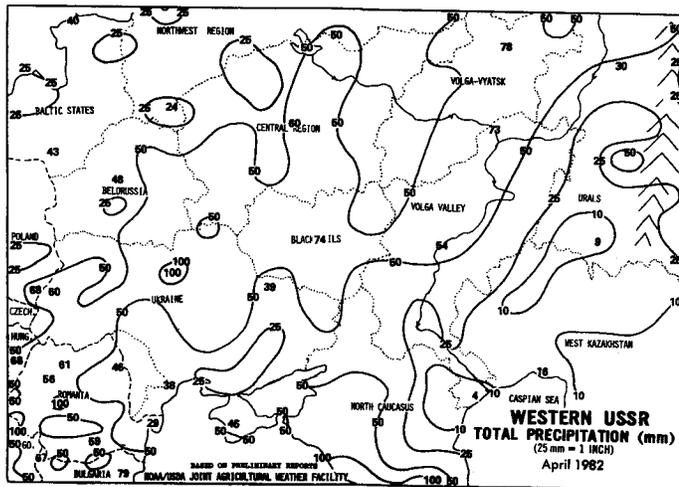
1. **UNITED STATES:** Heavy rains from Texas to the upper Mississippi Valley halts planting, inundating some croplands. Sunny weather favors planting over the East, but shortage of topsoil moisture slows crop development.
2. **WESTERN USSR:** Dry weather continues over the major winter grain areas. In the New Lands, hot, dry conditions reduce topsoil moisture below optimum levels for seed germination.
3. **EUROPE:** Unseasonably cold weather reduces grain crop prospects in northern Spain; winter grain growth slows in the north.
4. **NORTHWESTERN AFRICA:** Showers have little effect on mature winter grains.
5. **SOUTH ASIA:** Cool, wet weather damages harvested winter grain in India.
6. **EASTERN ASIA:** Rains bring some relief in the north; flooding in Guangdong.
7. **CANADA:** Showers and cool temperatures continue to delay fieldwork in some areas.
8. **SOUTHEAST ASIA:** Rainfall increases in Thailand's Central Plain.
9. **SOUTH AMERICA:** Wet weather improves soil moisture for wheat planting; harvest delays in some areas.
10. **AUSTRALIA:** Additional moisture needed for planting.
11. **MEXICO:** Rains in the northeast help corn and grain sorghum; dryness stresses rain-fed corn in the southern Plateau.

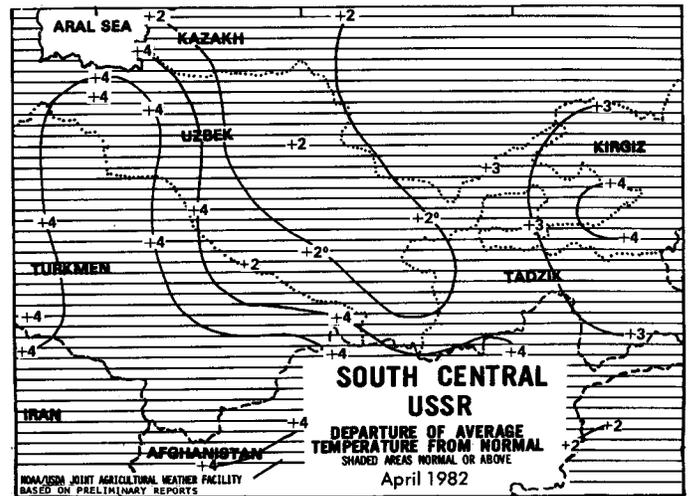
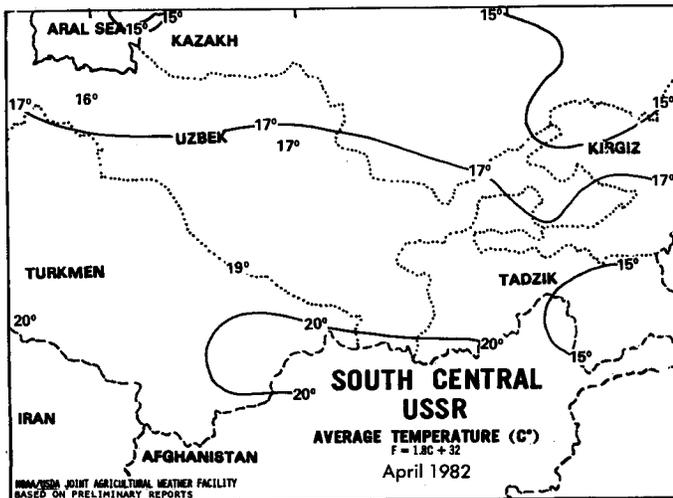
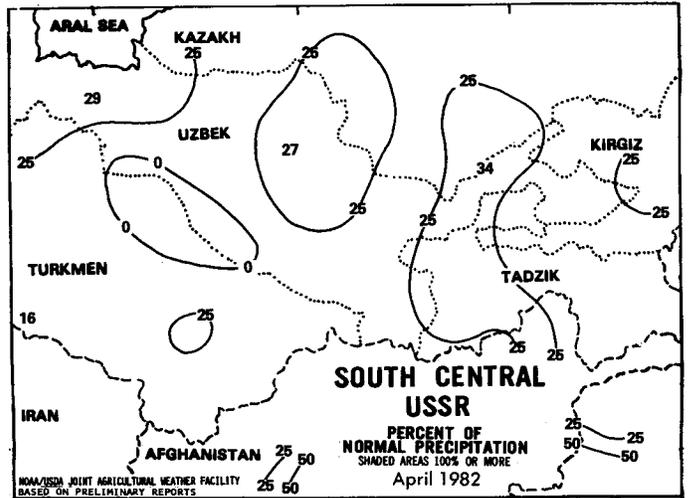
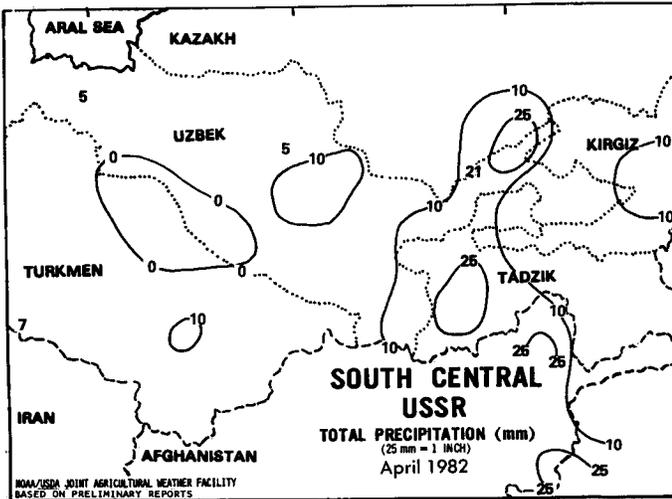
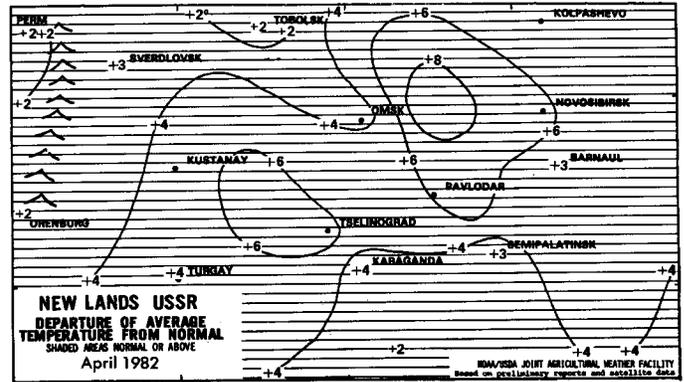
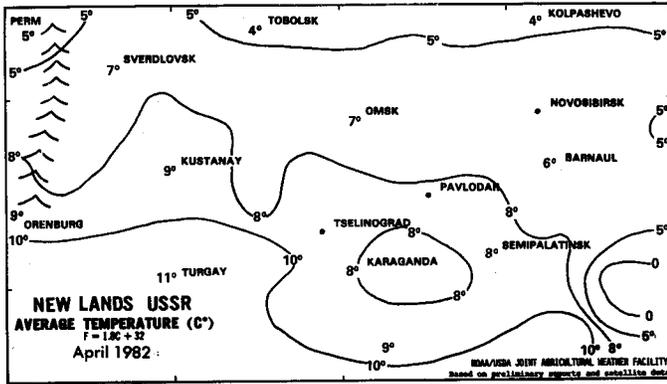
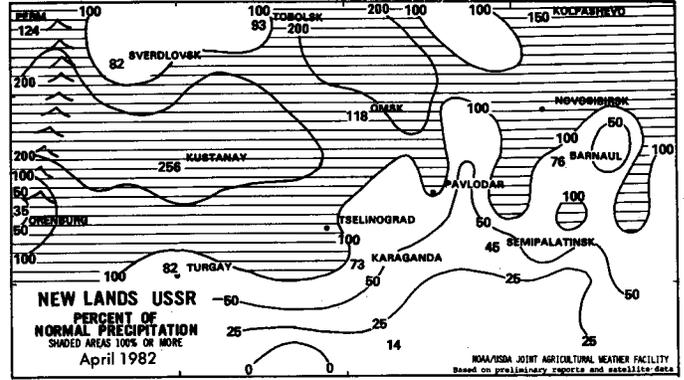
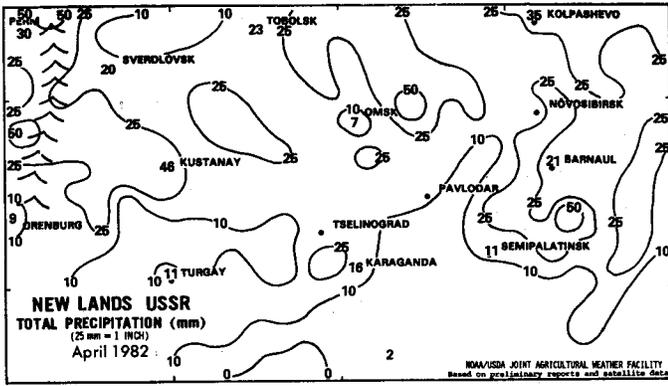




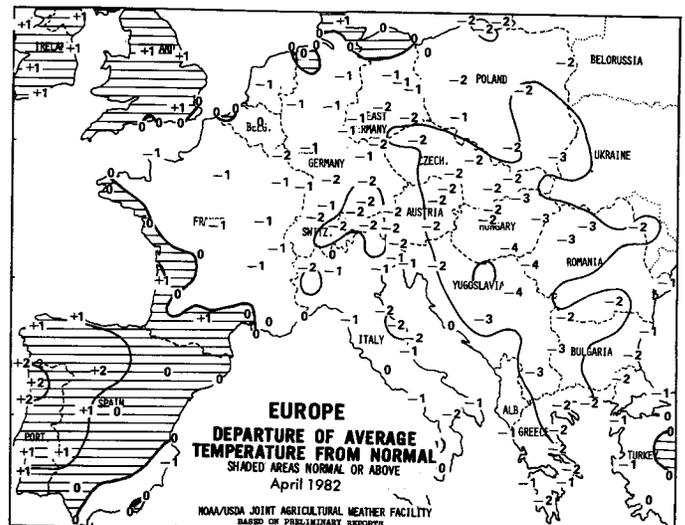
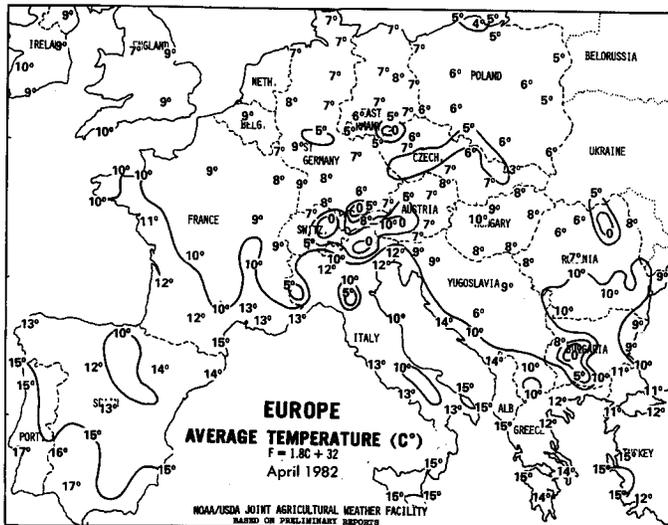
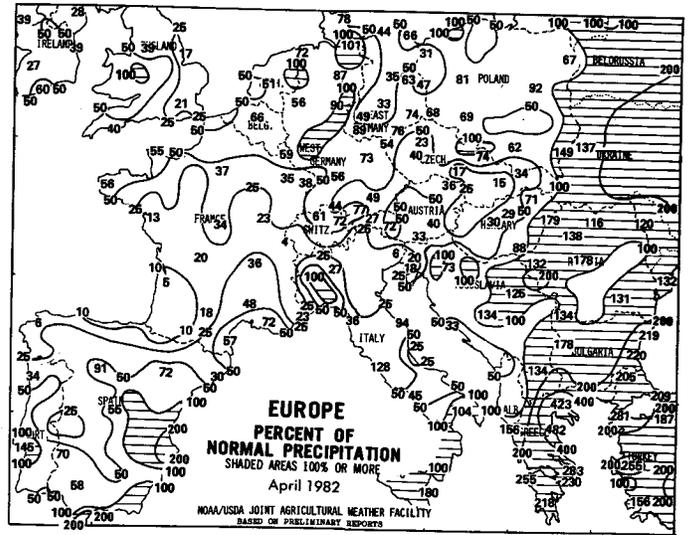
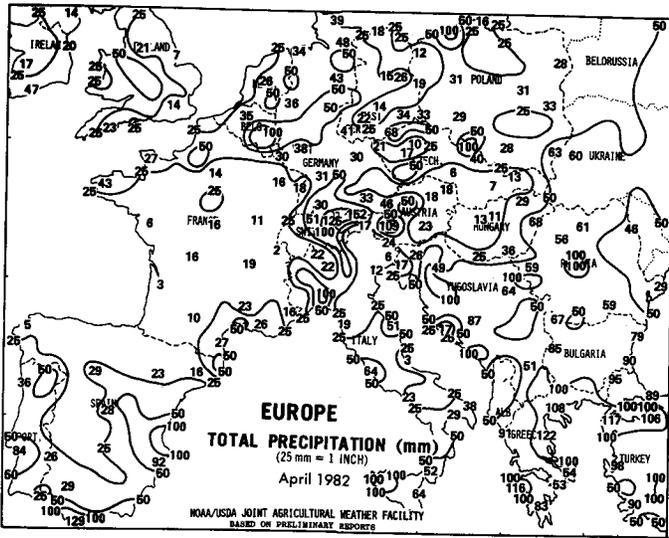
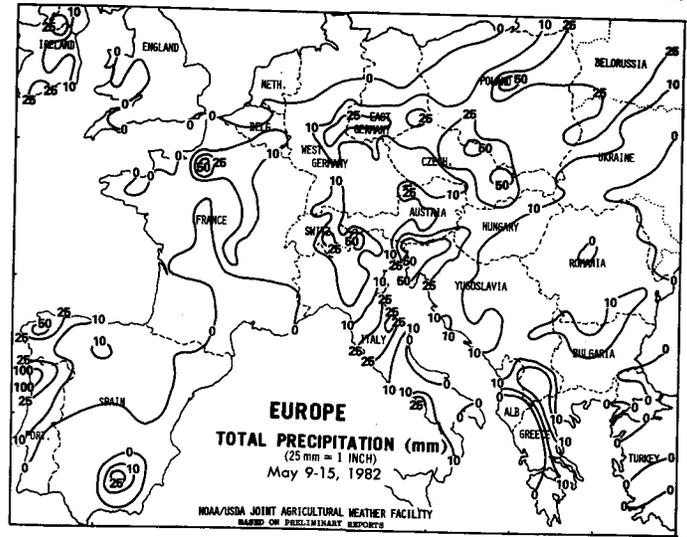
W. USSR: Generally dry weather over much of the Ukraine, Black Soils, North Caucasus, and Volga Valley regions aided spring fieldwork; however, additional moisture is needed to continue favorable growth for winter grains in these areas. In contrast, wet weather in the form of persistent showers over northern regions delayed spring fieldwork. In April, persistent showers during midmonth produced near-to-above-normal rainfall over most winter grain areas. Although the precipitation benefited winter grains spring, fieldwork delays were reported. Cool April temperatures slowed winter grain growth in western European USSR and accelerated the growth of grains in the east.

NEW LANDS: Only light, spotty showers were reported over a majority of the spring grain areas. The exception was in the extreme northeast areas where some rainfall totals exceeded 100 mm. In April, near-to-above-normal rainfall occurred in the north while below-normal rain fell over the south. Unseasonably warm temperatures during April produced increased evaporation which dried out topsoils in many areas. The short topsoil moisture supplies are worrisome for getting good seed germination. The most intensive spring grain planting period will begin soon. In south-central USSR, dry weather was reported over much of the region. Most of the cotton has emerged with more advanced growth in the south. Irrigation supplies appear adequate.

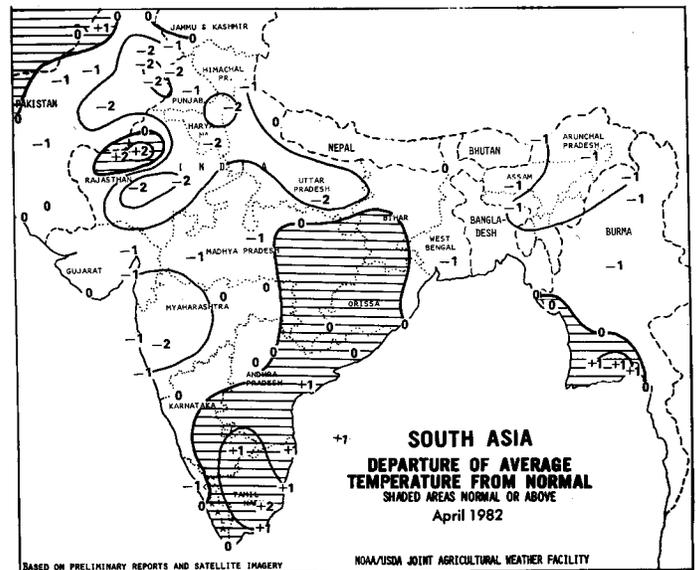
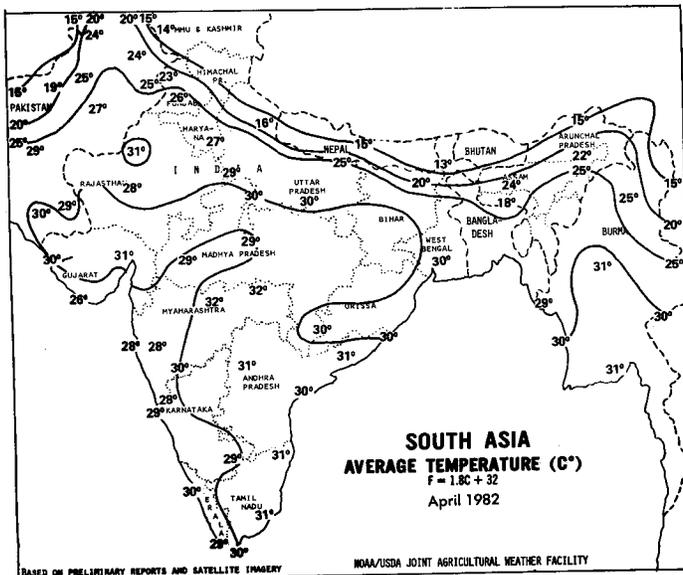
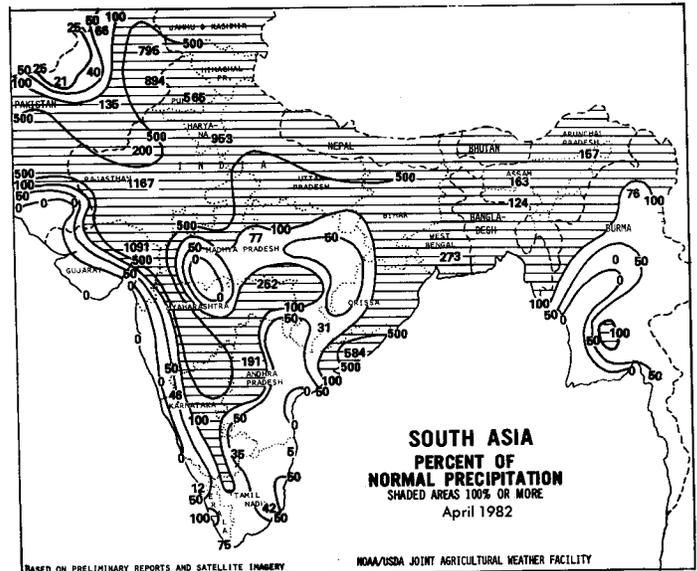
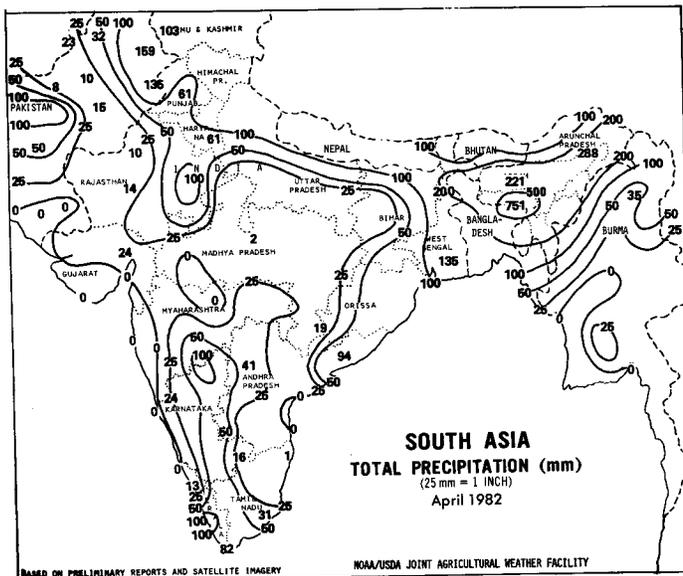
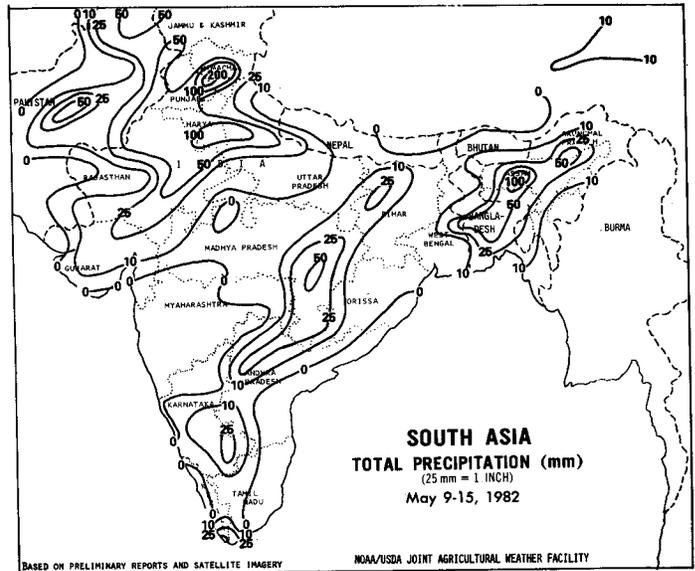




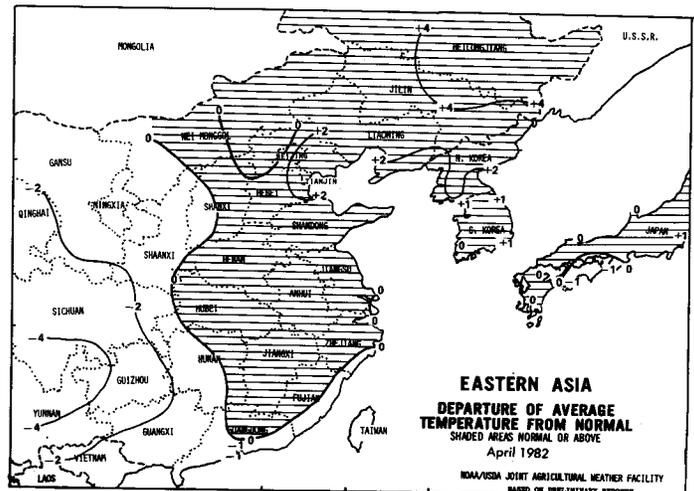
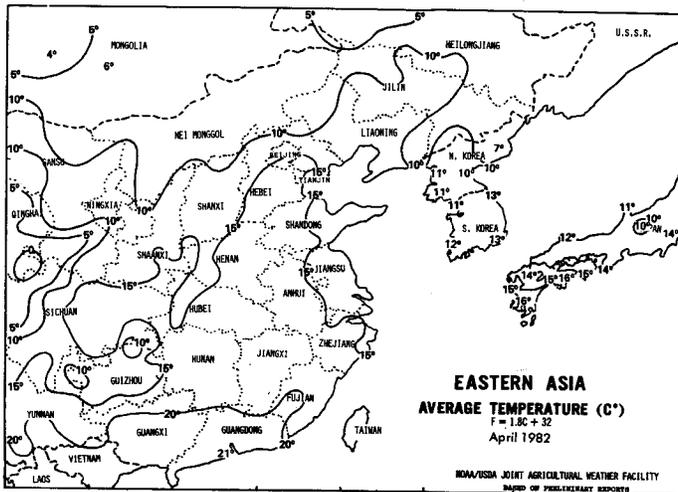
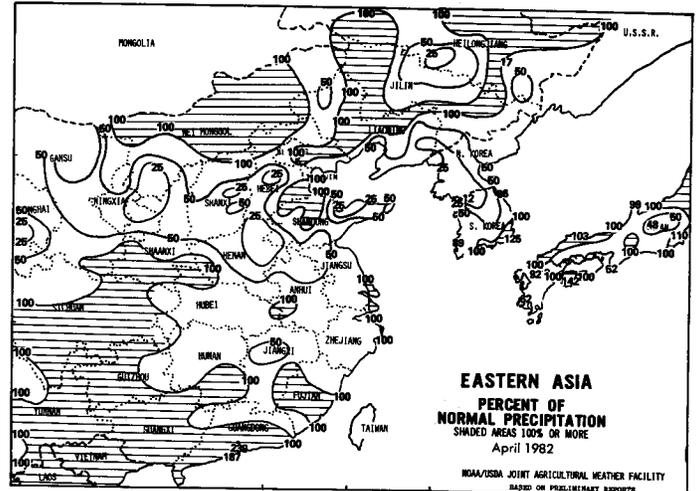
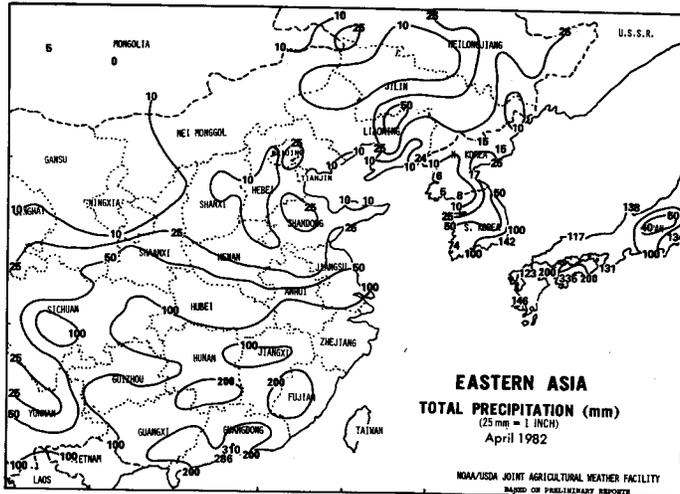
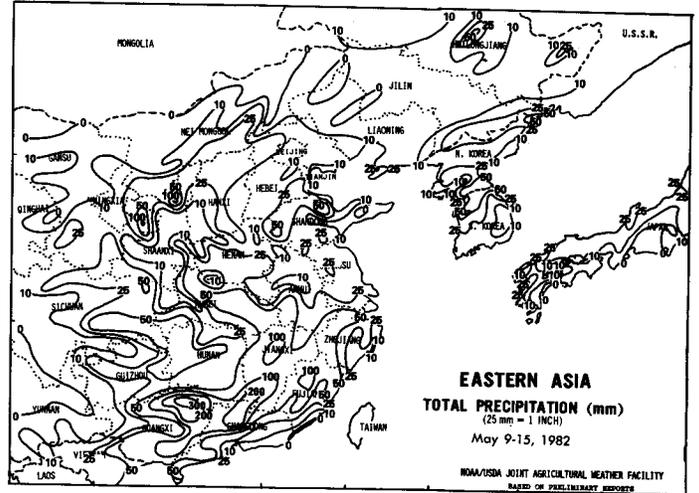
EUROPE: Light showers early in the week fell on crop areas of France and northern Italy, reversing April's below-normal pattern. In northern and central Spain, subfreezing temperatures and frosts early in the week further reduced grain yield prospects, already reduced by below-normal rainfall in past weeks. In southern Spain, timely April rains improved crop conditions, but more rain is needed soon since this past week remained dry. In northern Europe, wet weather this past week may have delayed spring planting in some areas, but the moisture benefited winter grains. Reports indicate that below-normal temperatures over many areas of northern Europe in past weeks have slowed winter grain growth. In the southeast, mostly dry weather and seasonable temperatures improved conditions for planting spring crops, and maintained favorable growing conditions for winter grains.

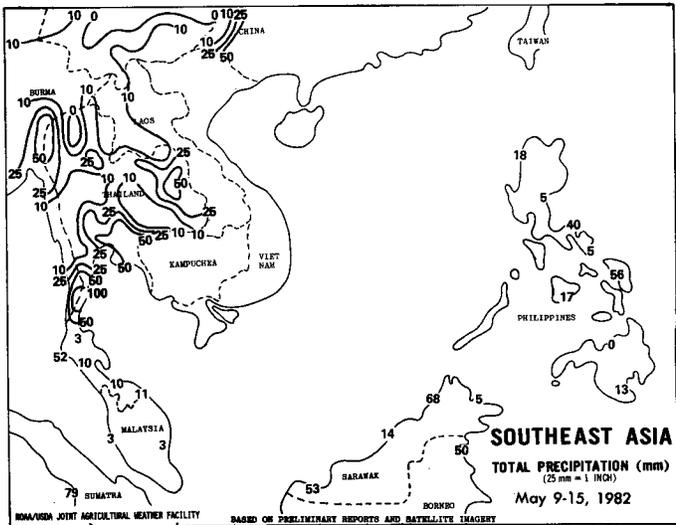


SOUTH ASIA: Cool, wet weather returned to important winter grain areas in northern Pakistan and India. Rainfall of 90 mm and more was far greater than the normal weekly amounts of less than 5 mm, and temperatures stayed much below normal. This situation represents a continuation of conditions that persisted intermittently throughout April. Widespread damage to harvested grain has been reported in India, with estimates that 30-40 percent of the crop in Punjab, Haryana, and northern Uttar Pradesh was affected. Premonsoon showers continued over eastern and southern India. So far, there is no indication that the summer monsoon arrival will not be on time.

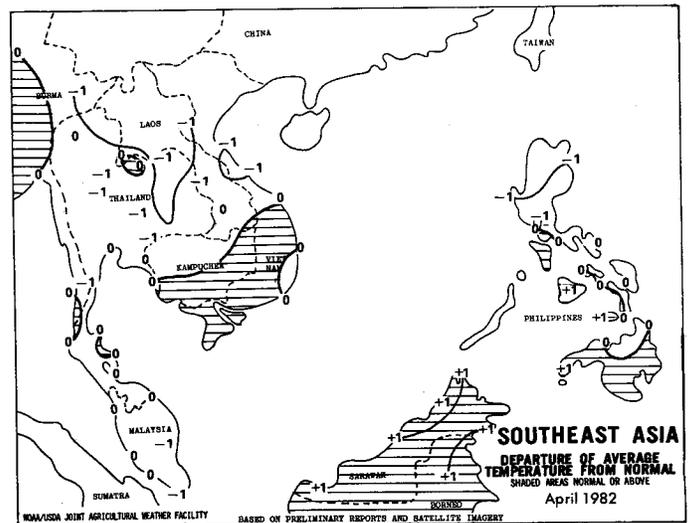
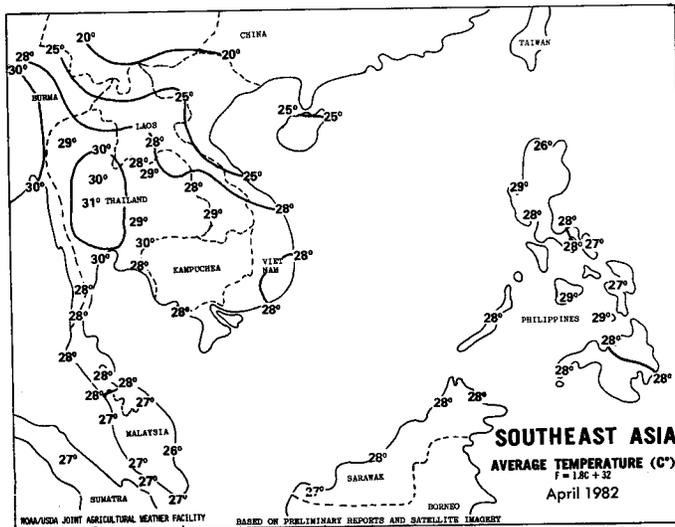
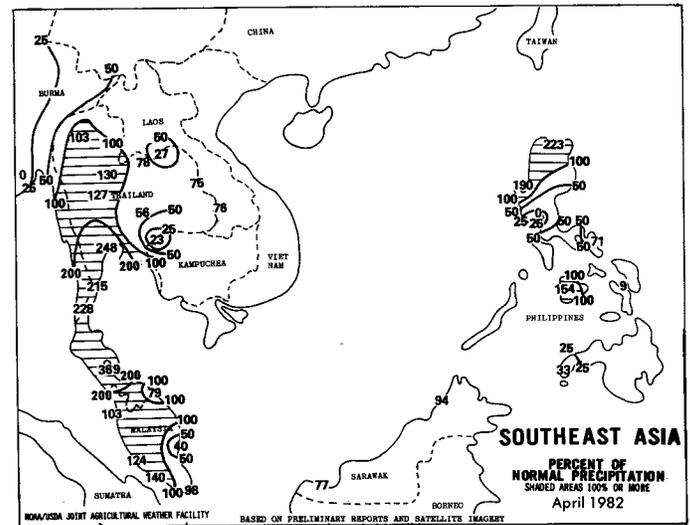
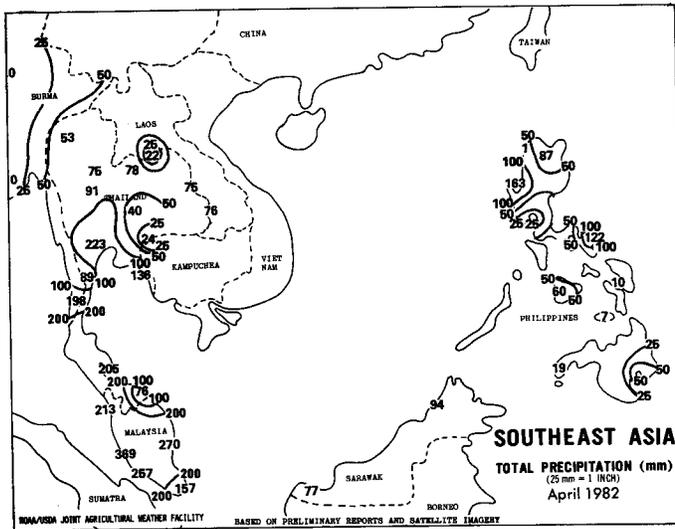


EASTERN ASIA: Hot, dry weather in China's winter grain areas peaked early in the week with part of the crop still in the flowering stage. The unfavorable weather further hurt potential grain yields of nonirrigated fields before beneficial rains fell at midweek. This area has been substantially warmer and drier than normal throughout April. The recent rainfall of generally 15-25 mm enabled the crop to endure a return of the hot, dry weather at the week's end as it advanced into the filling stage. The moisture dramatically improved conditions for spring-planted crops. Conditions in the Yangtze Valley remained favorable as generous rainfall occurred. Below-normal rains there in April were mostly adequate for rice and cotton crop development. Heavy rain in the hills to the south perpetuated flooding in Guangdong. Some localized damage to the early rice crop was likely, but overall prospects remained optimistic. Sugarcane was reportedly mostly harvested by the time flooding occurred. In South Korea, above-normal rainfall in northern crop areas substantially improved conditions for planting rice. April rains were far below normal over much of this area. Light rains along the southern coast maintained favorable conditions.

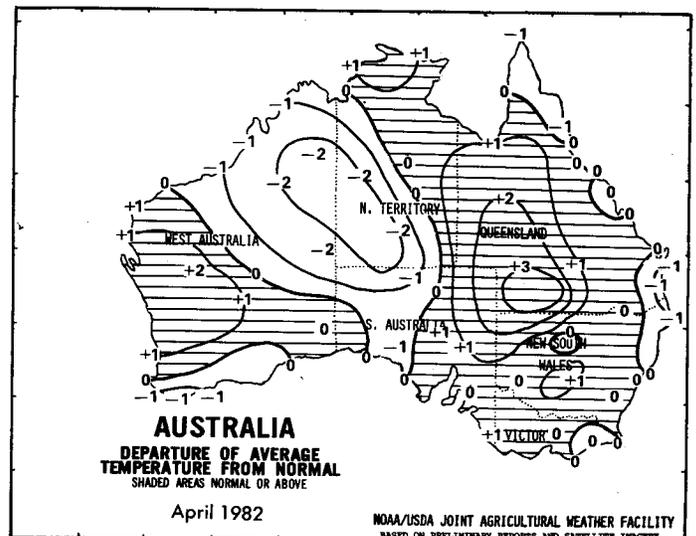
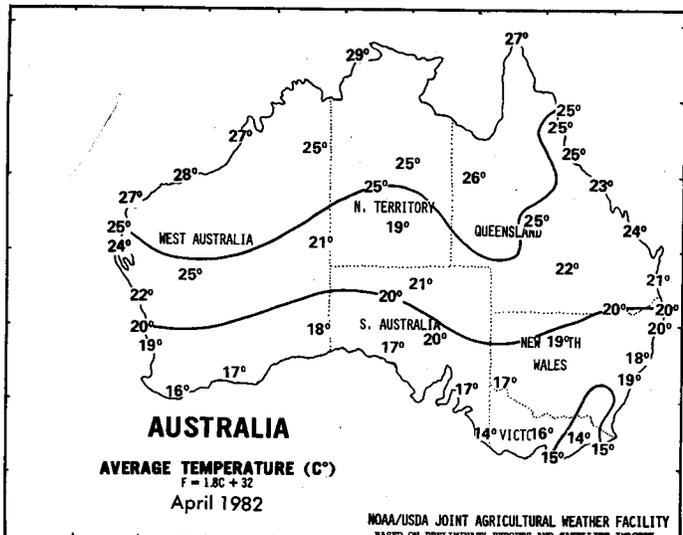
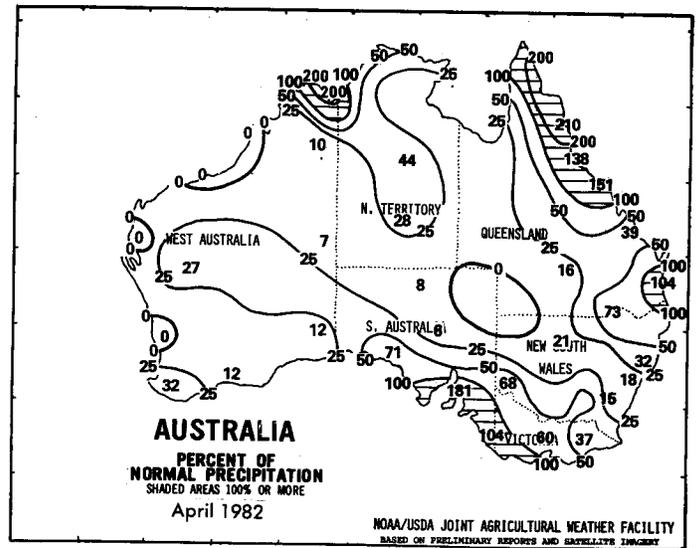
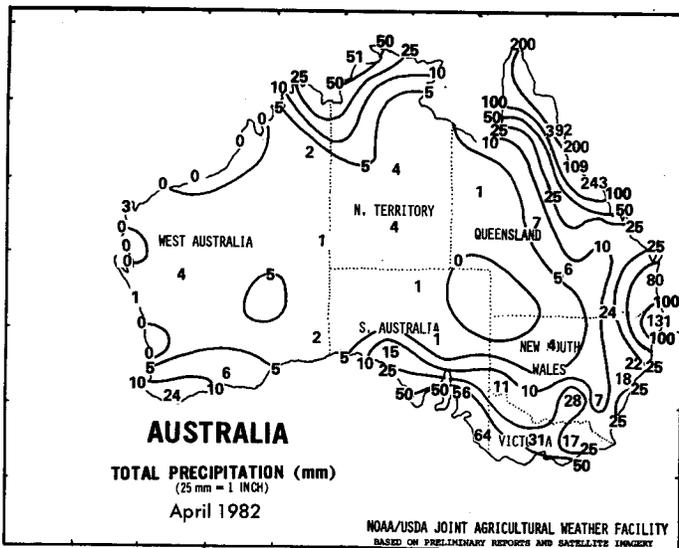
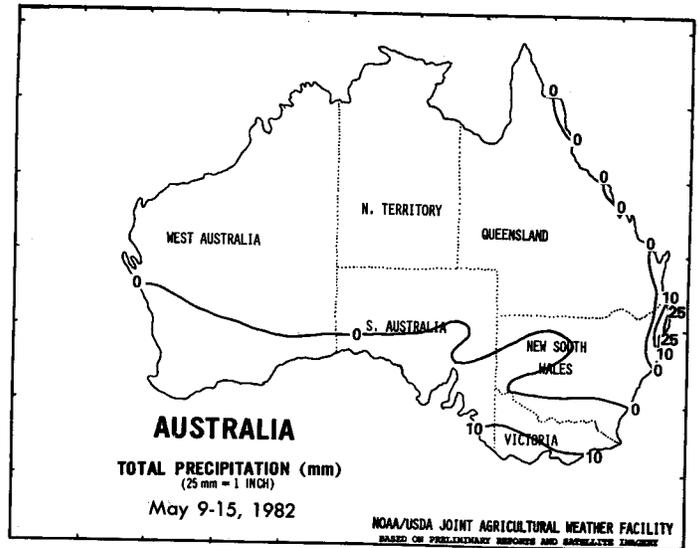




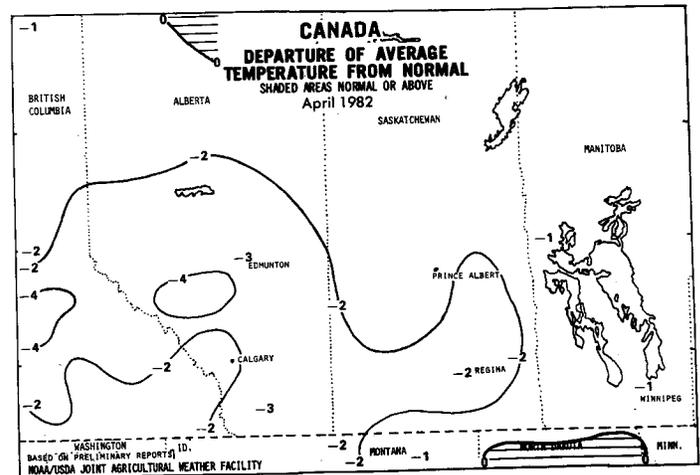
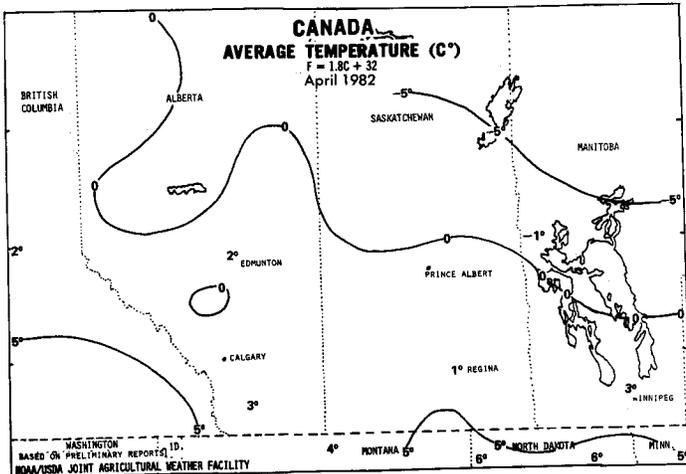
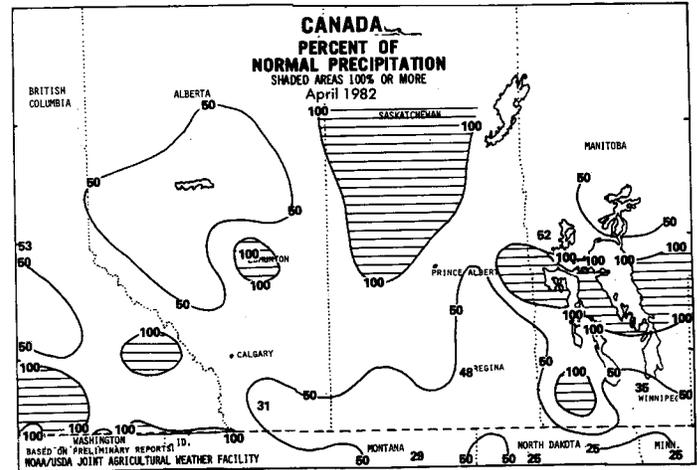
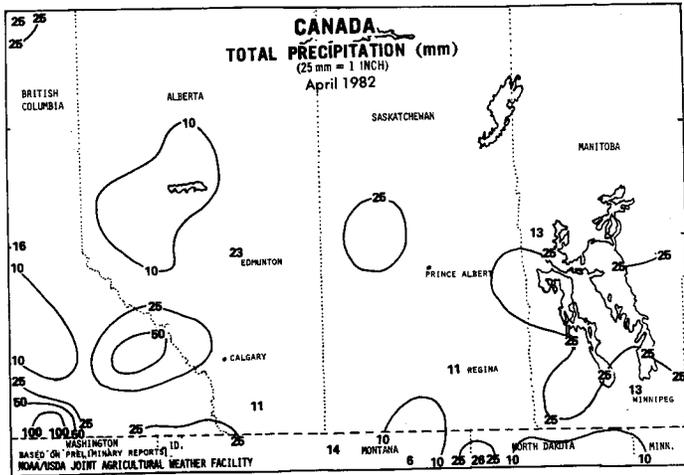
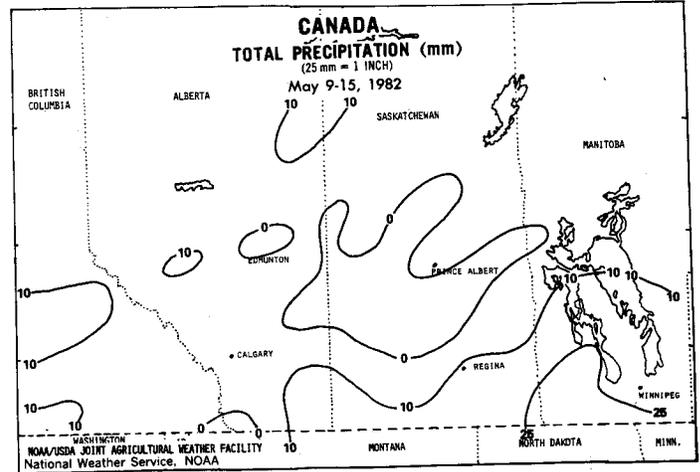
SOUTHEAST ASIA: Rainfall increased on the Central Plains of Thailand as the tropical rain belt continued its northward movement. Showers continued over the rest of the country, with generous totals occurring in the east. This latter area was somewhat drier than normal in April. Conditions remained generally favorable for corn growth, and if the rains continue their advance, rice planting should begin shortly. Temperatures averaged slightly above normal.



AUSTRALIA: Light, spotty showers fell on more southern crop areas during the week. In April, most grain areas received below-normal rainfall, with West Australia the driest region. As a result, most grain areas need additional moisture in upcoming weeks to aid uniform seed germination. Reports indicate that sowing has begun in some areas of southern Queensland. Elsewhere, reports indicate that heavy rains and high winds in April damaged maturing sugarcane in northern Queensland and delayed planting of next year's sugarcane crop.



CANADA: A series of eastward moving storms brought periods of showers and cool temperatures to the Prairie Provinces again this week. The heaviest rainfall occurred in southeastern Saskatchewan and southwestern Manitoba, where weekly amounts from 10-25 mm at many locations further delayed fieldwork. In April, below-normal precipitation and colder-than-normal temperatures throughout most of the spring grain region delayed planting in many areas.

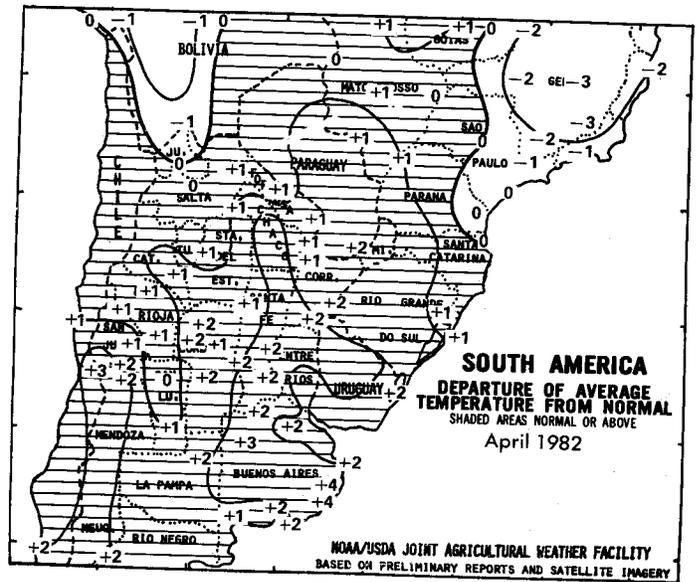
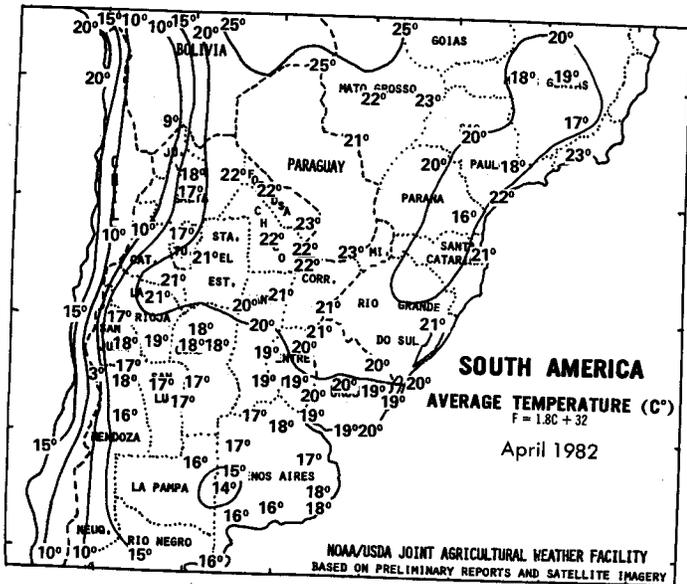
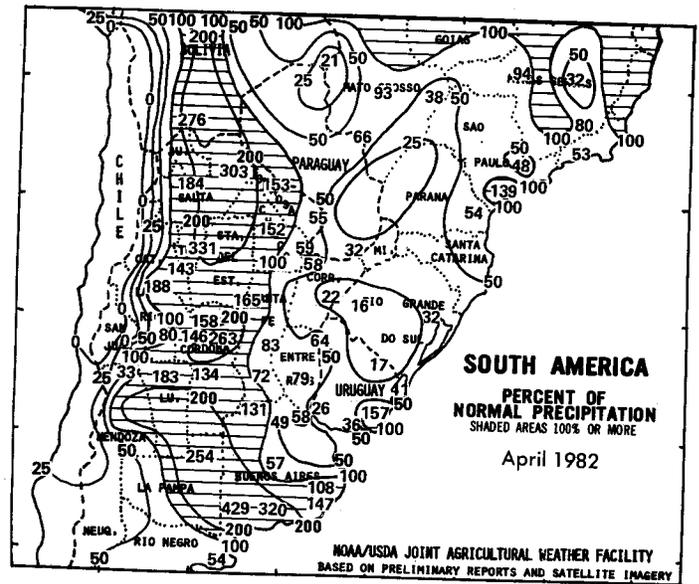
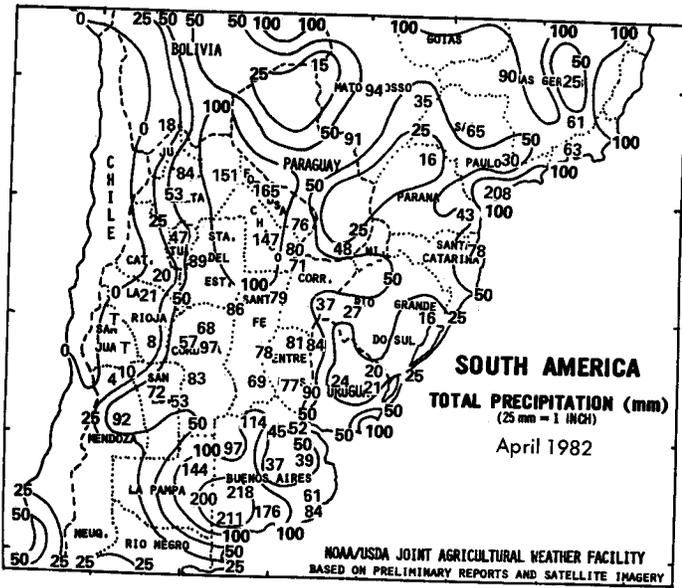
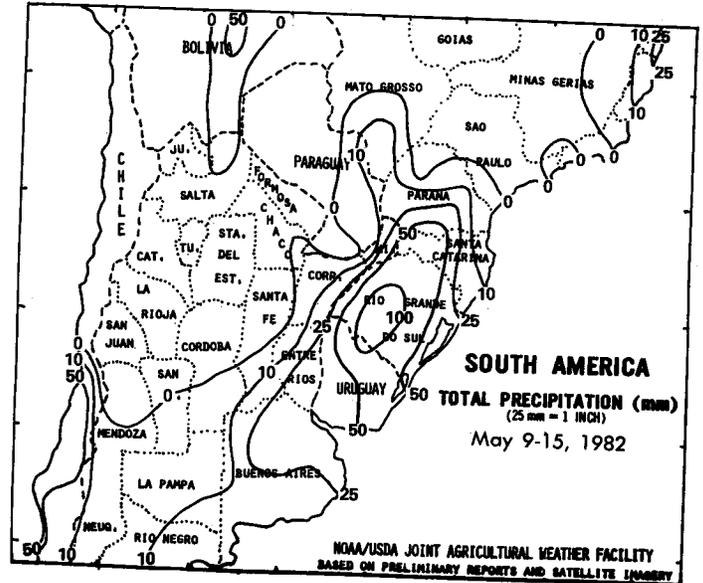


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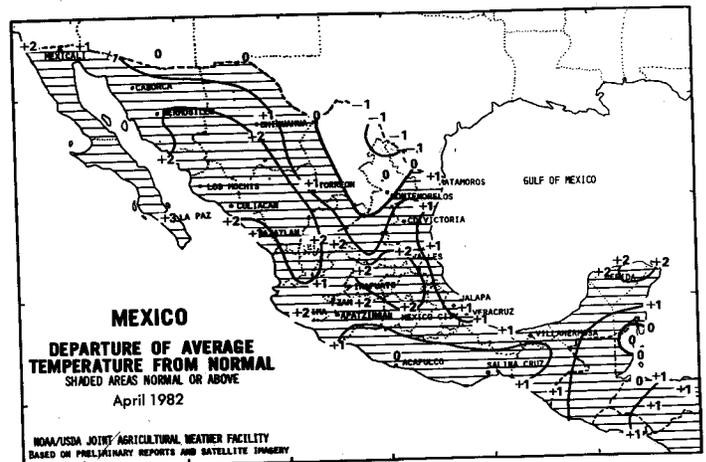
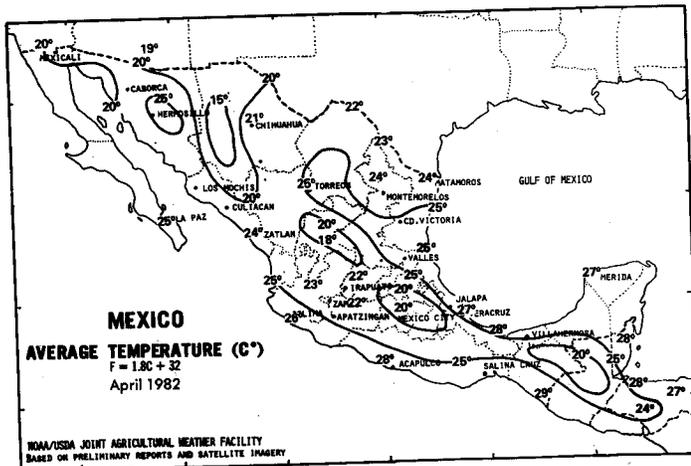
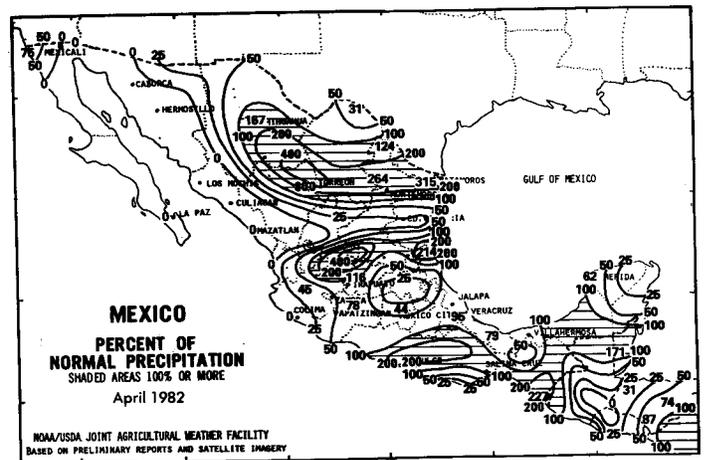
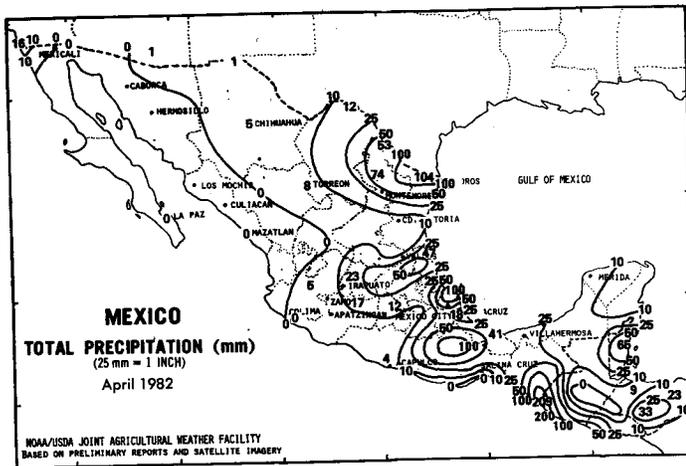
FRIDAY...The blocking ridge of high pressure remained over the eastern United States where dry weather helped the Southeast but was too dry in the rest of the East. A few showers crept into the cool northwestern United States, but from southern California through Texas, clear weather prevailed. The wet pattern of showers and thunderstorms continued over the central and northern Plains and the Mississippi River Valley. Deluges of rain caused more flooding in Missouri and other isolated parts of the Plains.

SATURDAY...Moisture shortages in the East affected germination and early growth of crops. Dry weather also prevailed in the West and across the South. Wet weather continued over the north-central United States where muddy or flooded fields kept land preparation and planting at a standstill. Showers were numerous in the central and northern Plains, but some light showers began to spread eastward into the Ohio and Tennessee Valleys.

SOUTH AMERICA: Wet weather extended northeastward from Buenos Aires through Rio Grande Do Sul into southern Parana during the week. Although harvest activity was delayed in some crop areas, the rainfall improved soil moisture supplies needed for wheat planting, particularly in Rio Grande Do Sul, where well-below-normal rainfall occurred in April. The April dry spell, which extended over much of southern Brazil, caused further declines in soybean yield prospects, particularly the late maturing crop which was still in the pod-filling stage. The weather in April was more favorable for Argentina's crops, although rainfall was somewhat below average in the Santa Fe soybean areas.



MEXICO: Heavy rains in the upper northeast benefited corn and sorghum, now in the late reproductive stage and requiring lots of water. Lighter rains further south helped citrus and sugarcane. In contrast, the southern Plateau corn belt continued dry, stressing the young crop in rainfed districts and causing heavy irrigation elsewhere. April's weather was unseasonably warm and dry over most of the country. This weather accelerated the maturation and harvesting of winter wheat and probably allowed earlier-than-usual planting of soybeans and other summer crops in the northwest. Dryness during April may have caused corn planting to be late over nonirrigated sections of the southern Plateau and stressed some citrus trees from Cd. Victoria to Valles.



EURASIA OUTLOOK FOR MID-MAY TO MID-JUNE

