

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and World Agricultural Outlook Board

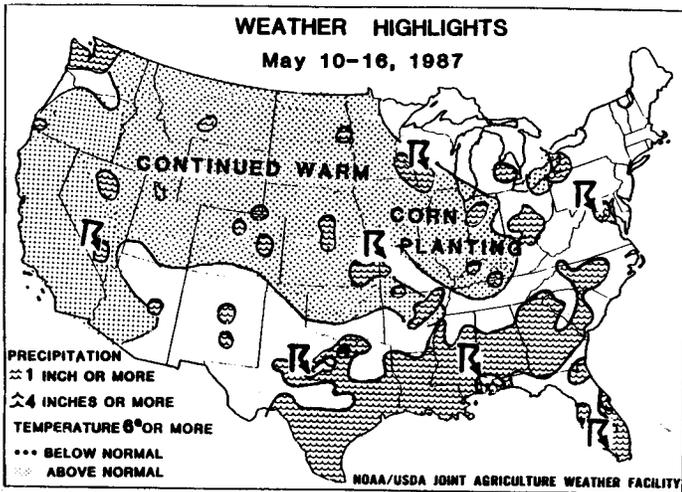
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May 19, 1987

National Weather Summary

MAY 10 to MAY 16, 1987



WEDNESDAY... Intense thunderstorms rumbled over the upper Mississippi Valley and northern Great Plains ahead of a cold frontal system. Scattered thunderstorms and showers continued across the southern tier of States.

THURSDAY... The cold frontal system moved across the north-central United States and triggered strong thunderstorms from the Appalachians to the central Great Plains. Thunderstorms were again across the southern United States. A Pacific storm brought rain to the Northwest.

FRIDAY... The frontal system moved southeast across the eastern States, causing rain and thunderstorms in the northern and middle Atlantic Coast States, and Ohio Valley to western Texas. Scattered thunderstorms occurred over the northern Plains, Rockies, and the Intermountain Plateau. High pressure over the Great Lakes brought cooler air into the Northeast.

SATURDAY... Widely scattered thunderstorms remained over the southern half of the country, the northern Plains, Rockies, and Plateau region. Locally heavy rain fell in central Texas.

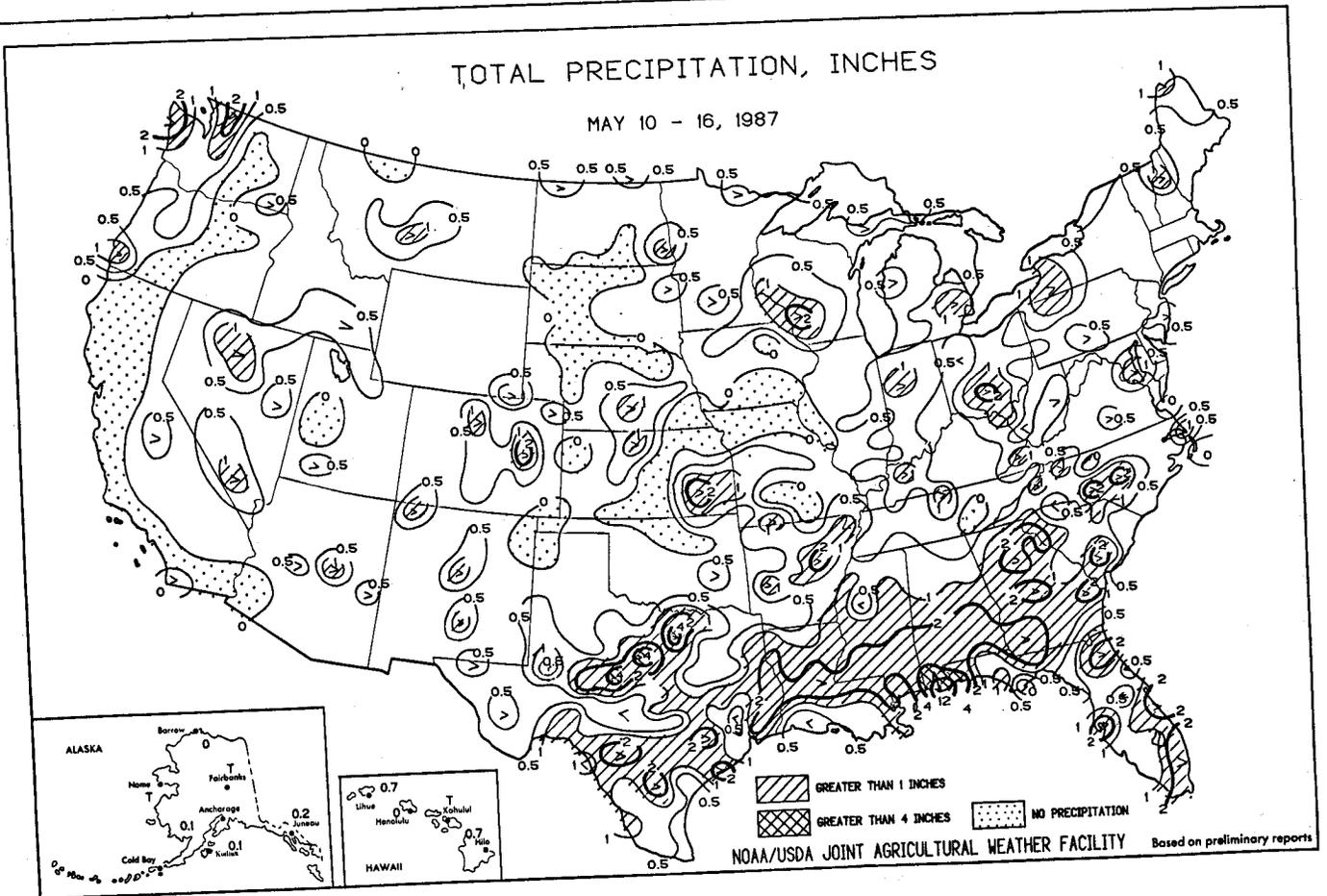
HIGHLIGHTS: Summer-like conditions prevailed as warm weather and widely scattered thunderstorms occurred over much of the Nation. The scattered rains brought needed surface moisture to parts of the Corn Belt.

SUNDAY... Thunderstorms with locally heavy rain moved across the Gulf Coast States. Afternoon and evening showers, with some intense thunderstorms, extended from northeastern Colorado to western New York. Widely scattered showers fell over Arizona and the Great Basin. Unseasonable warmth continued across the West and north-central sections of the country.

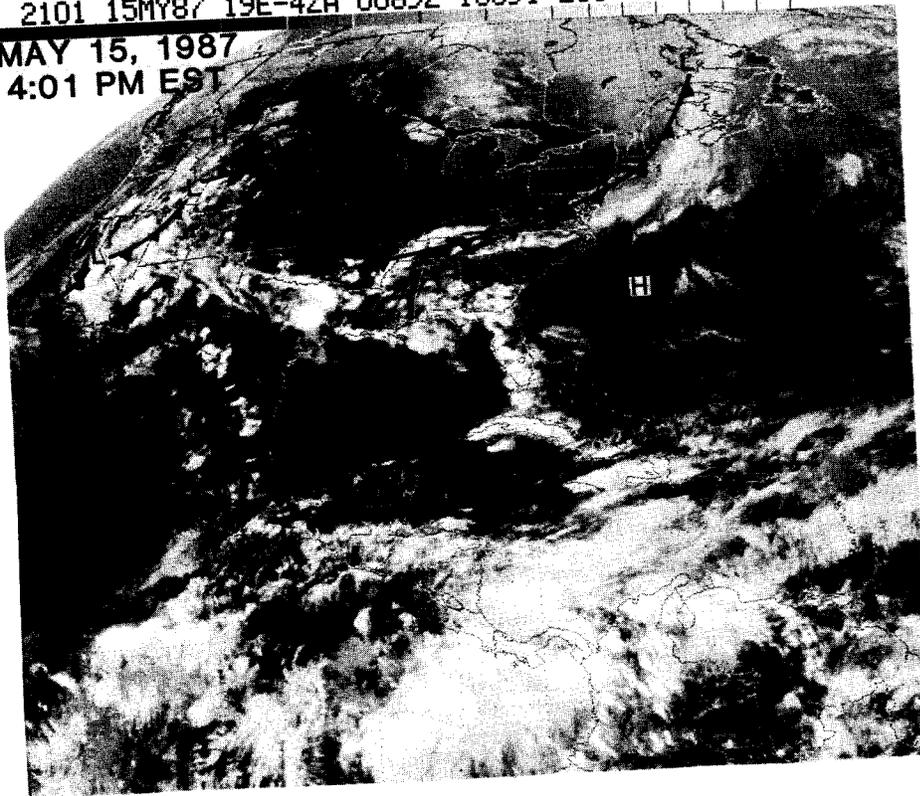
MONDAY... A line of thunderstorms developed ahead of a cold frontal system from eastern Kansas to Wisconsin. Showers and thunderstorms continued across southern Texas to northern Florida. Unseasonable warm weather prevailed once again west of the Rockies.

TUESDAY... Showers and thunderstorms were widely scattered over the middle and southern Atlantic Coast States, the southern Great Plains, the lower Mississippi Valley, the Plateau region, the Rockies, High Plains, and the Pacific Northwest. Warm weather remained in the West, while a large high pressure system centered over the upper Great Lakes, bringing cooler air into the Northeast.

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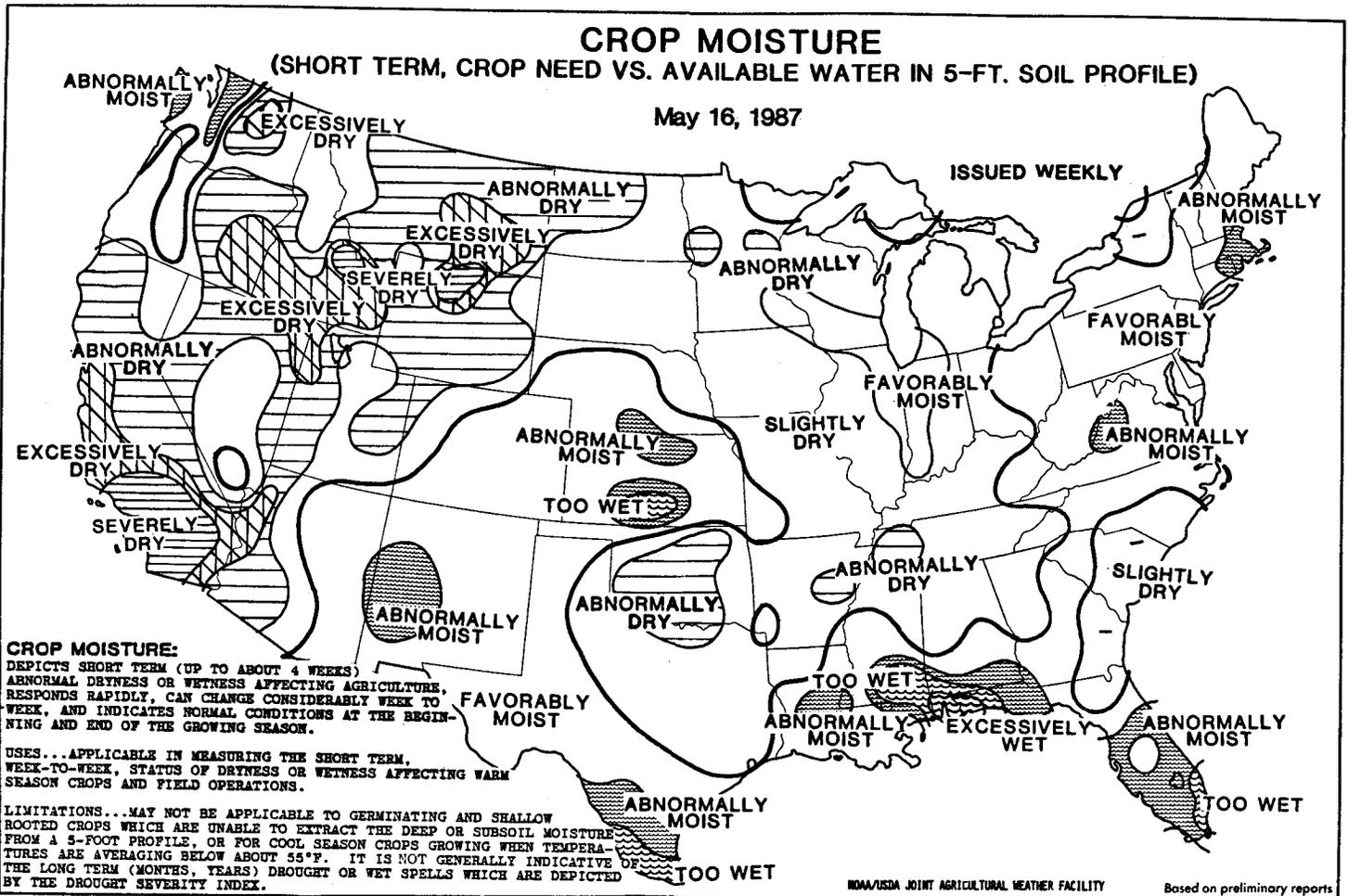
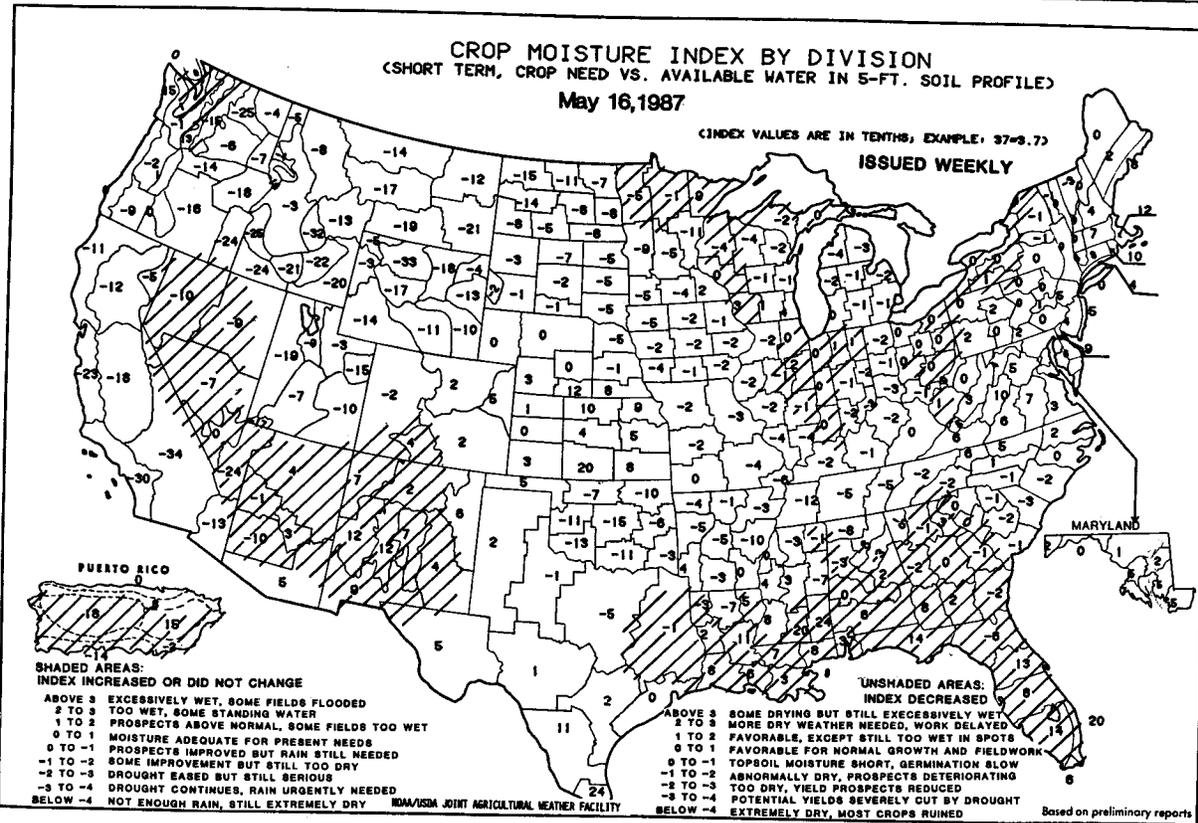


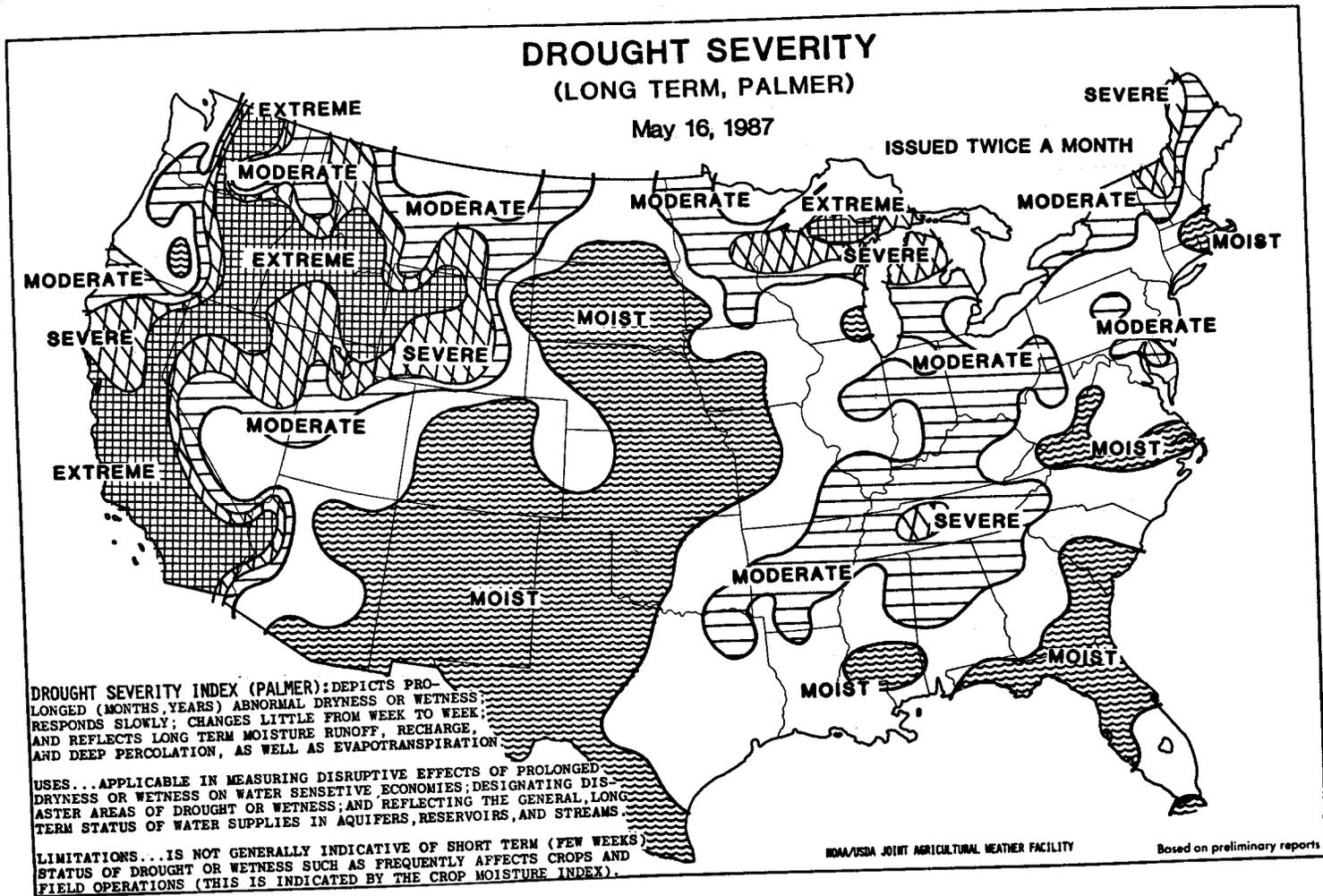
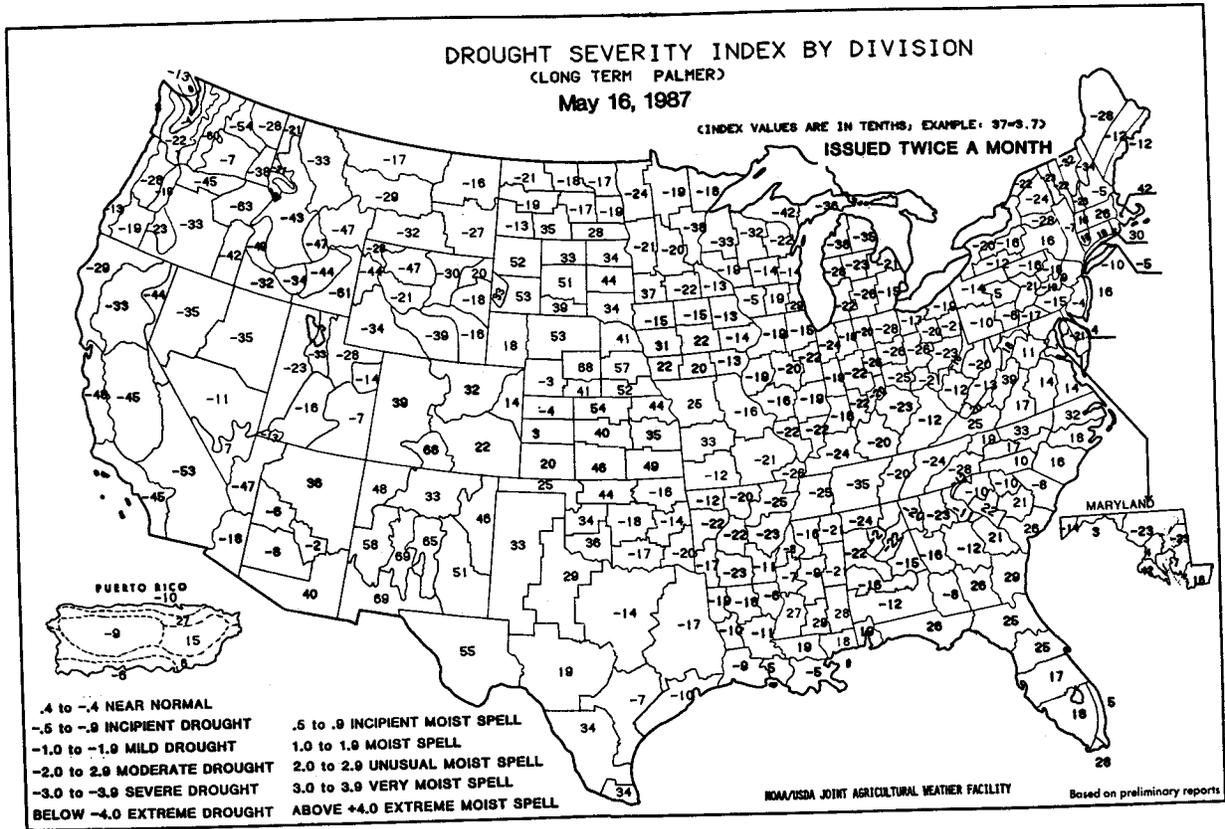
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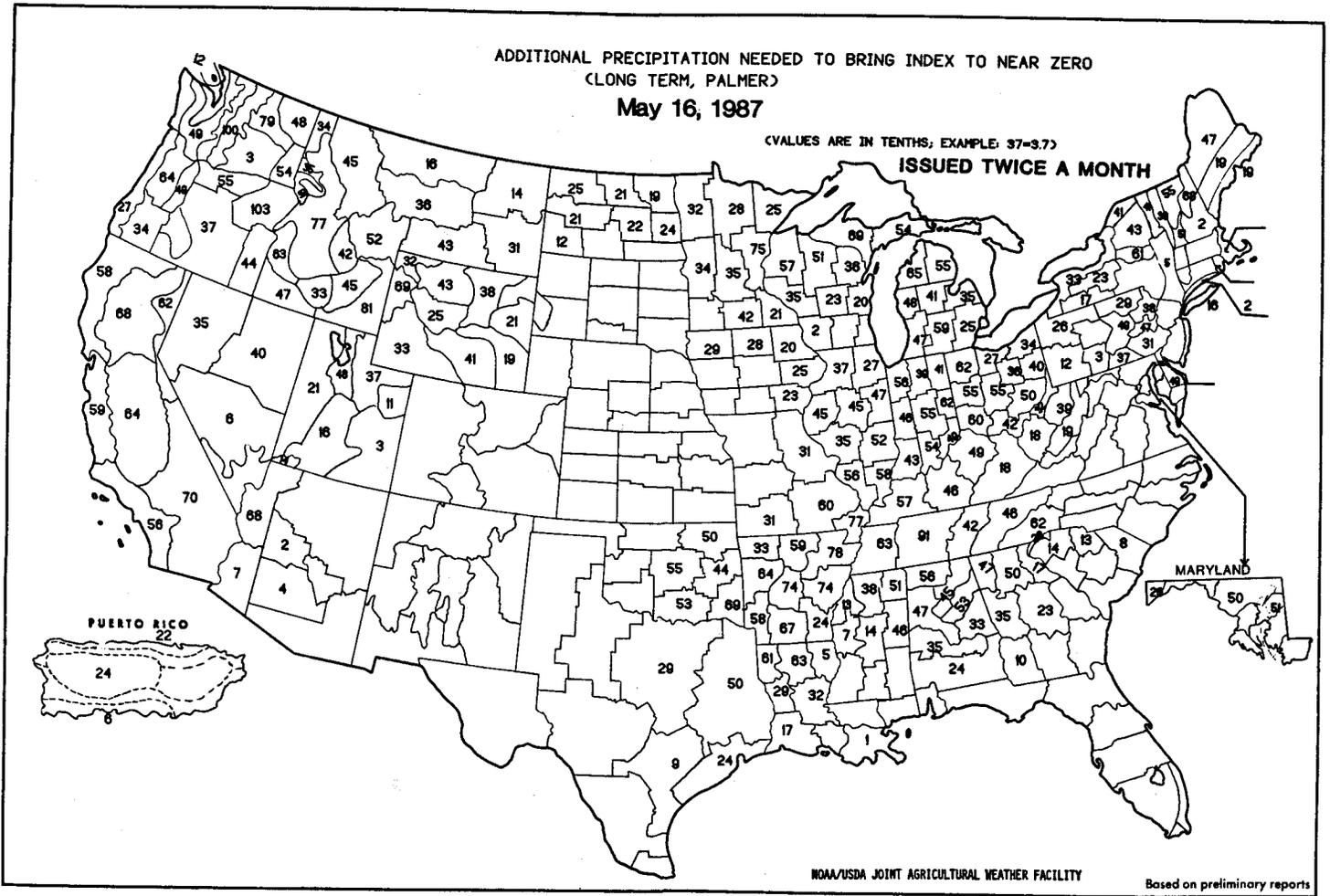


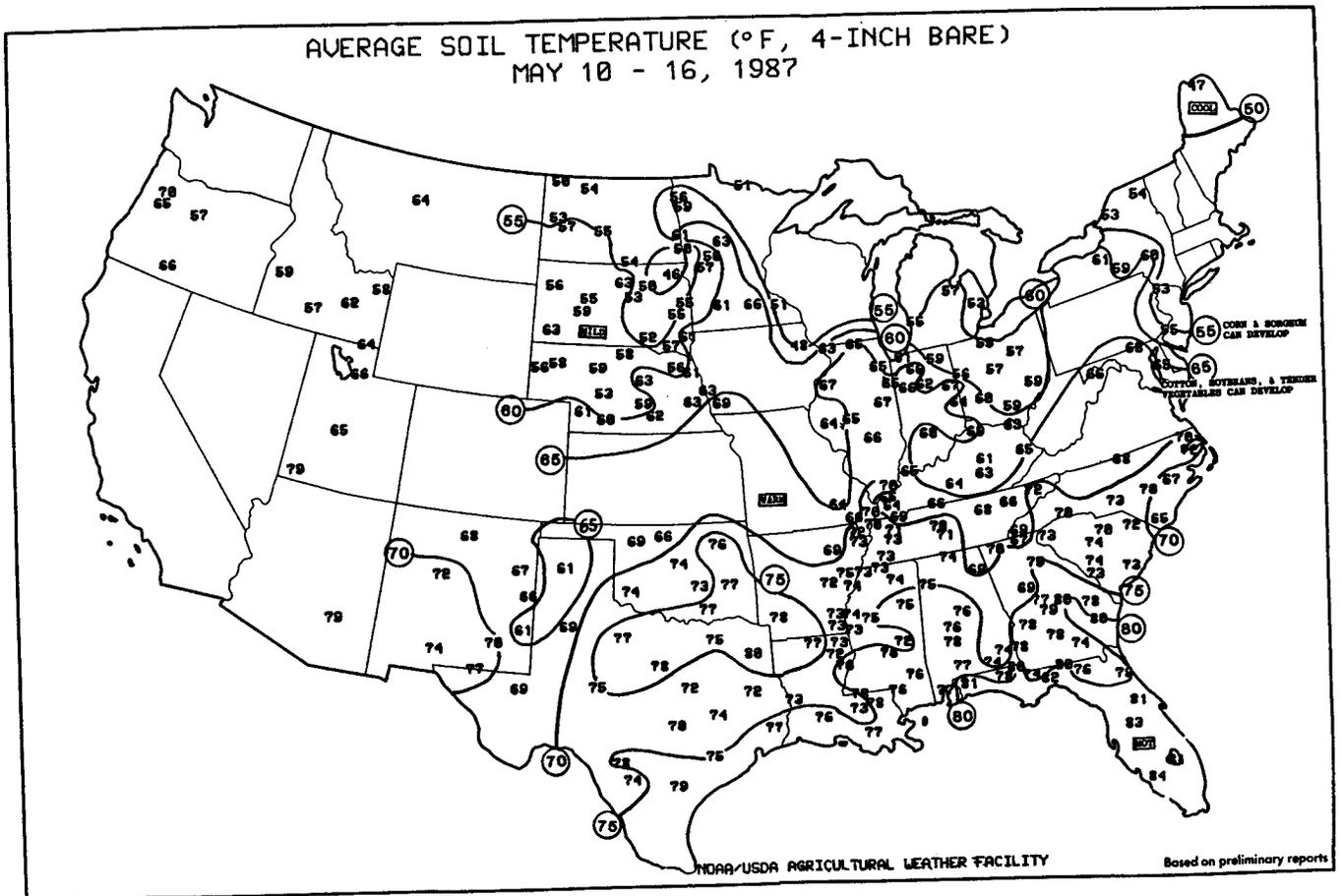
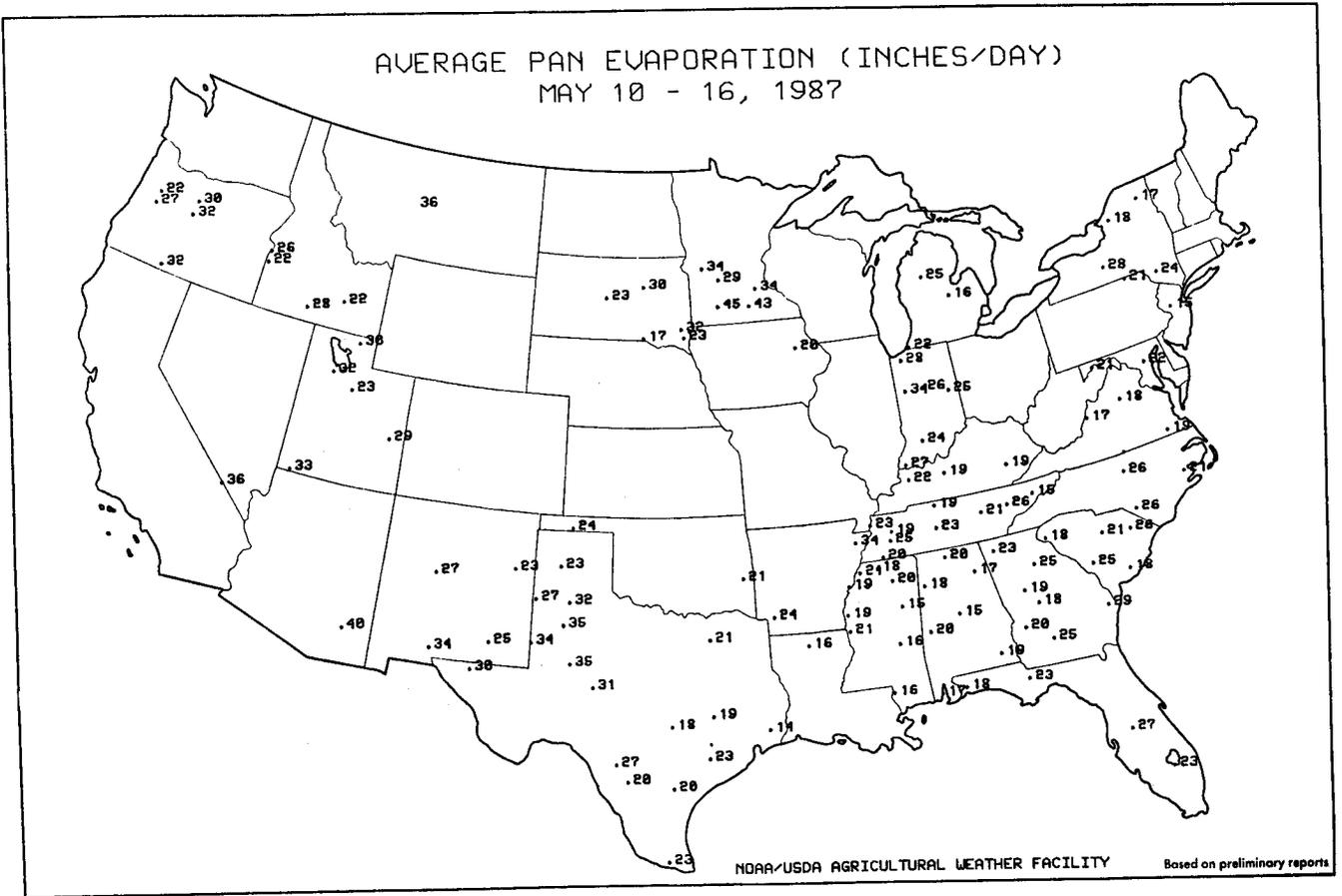
A COLD FRONTAL SYSTEM EXTENDS FROM NEW ENGLAND TO ARKANSAS, AND A LARGE HIGH PRESSURE SYSTEM, CENTERED OVER LAKE MICHIGAN, BRINGS COOLER AIR INTO THE NORTHEAST.

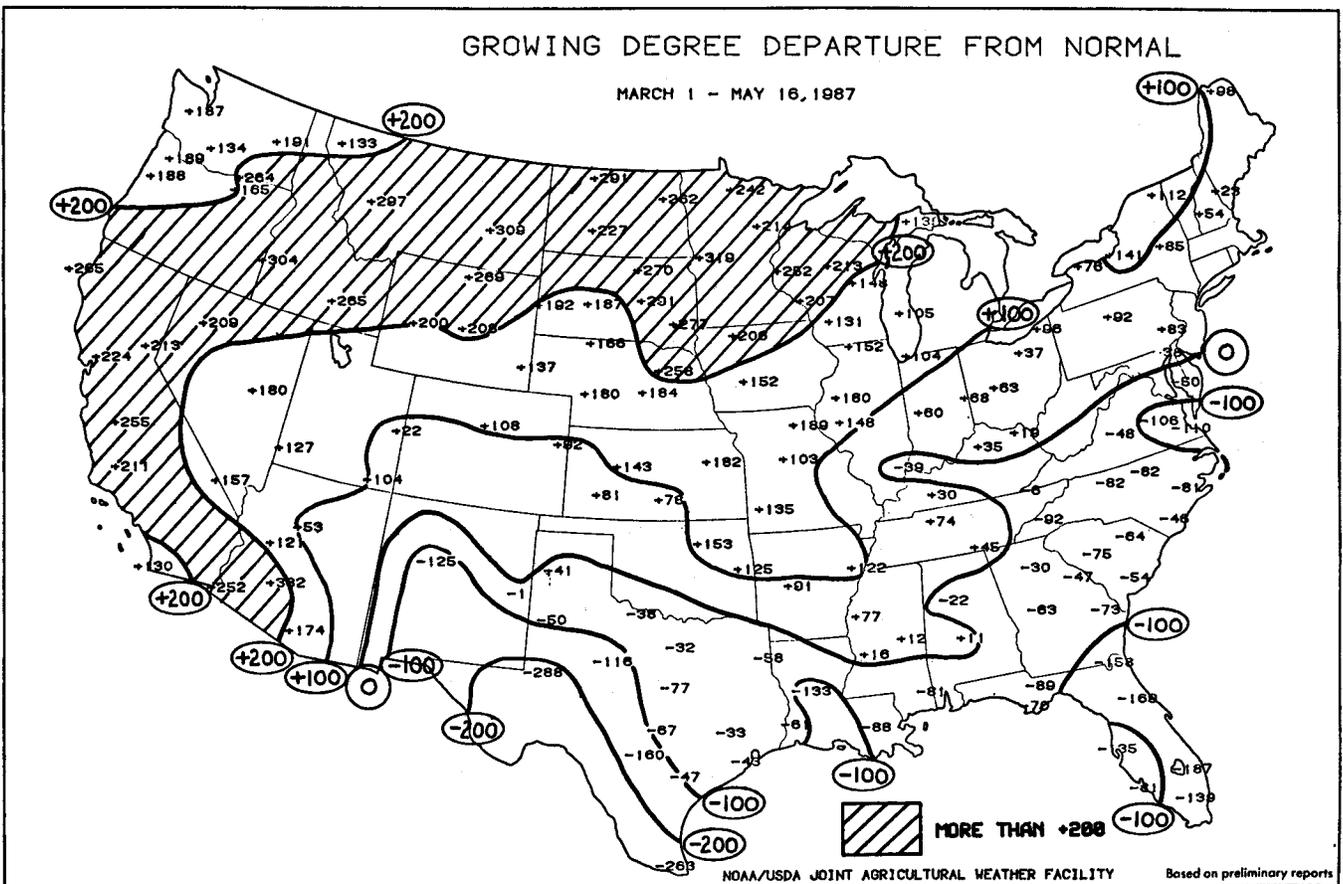
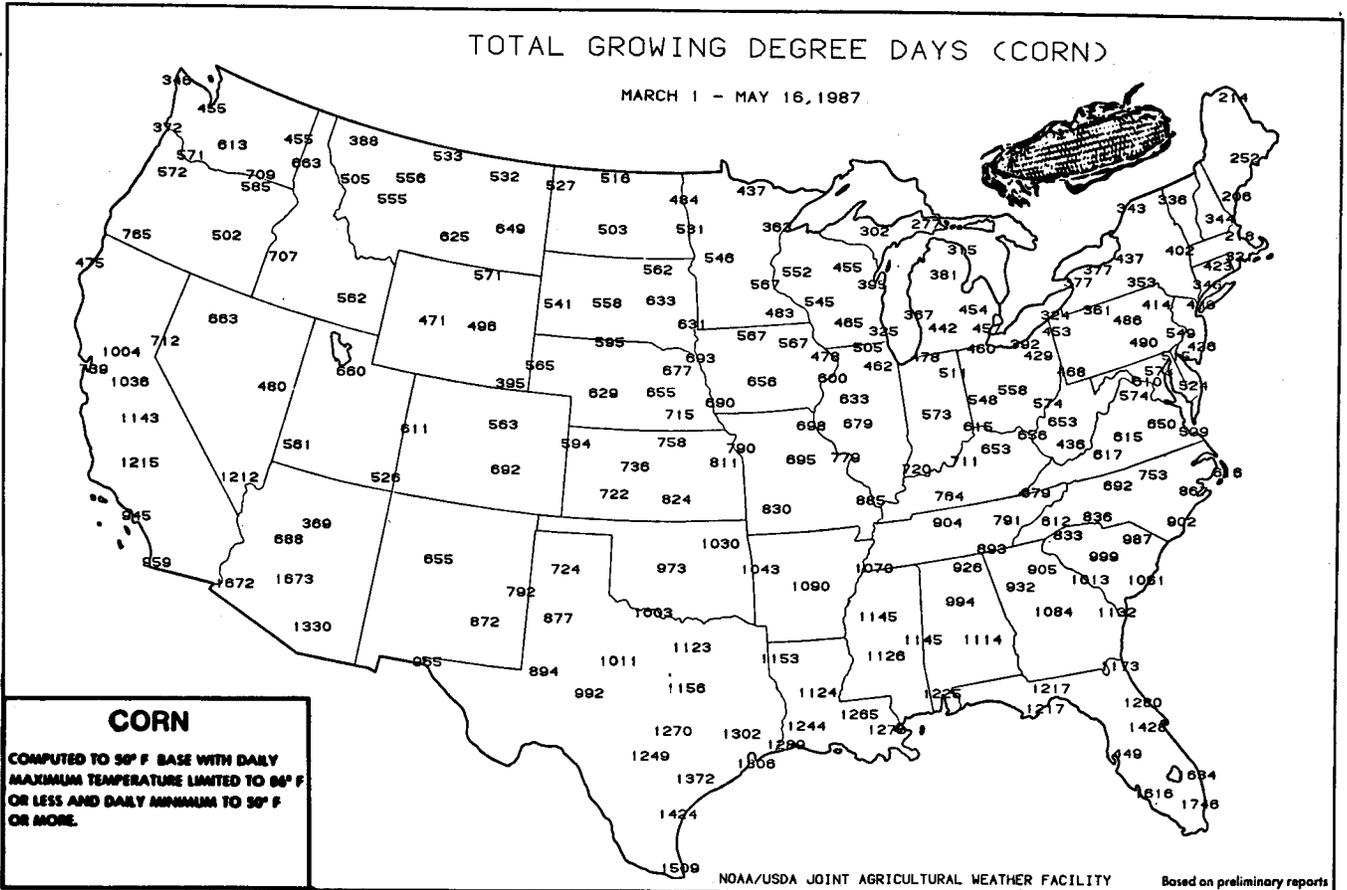
SCATTERED SHOWERS AND THUNDERSTORMS ARE ACROSS THE SOUTH AND WEST.

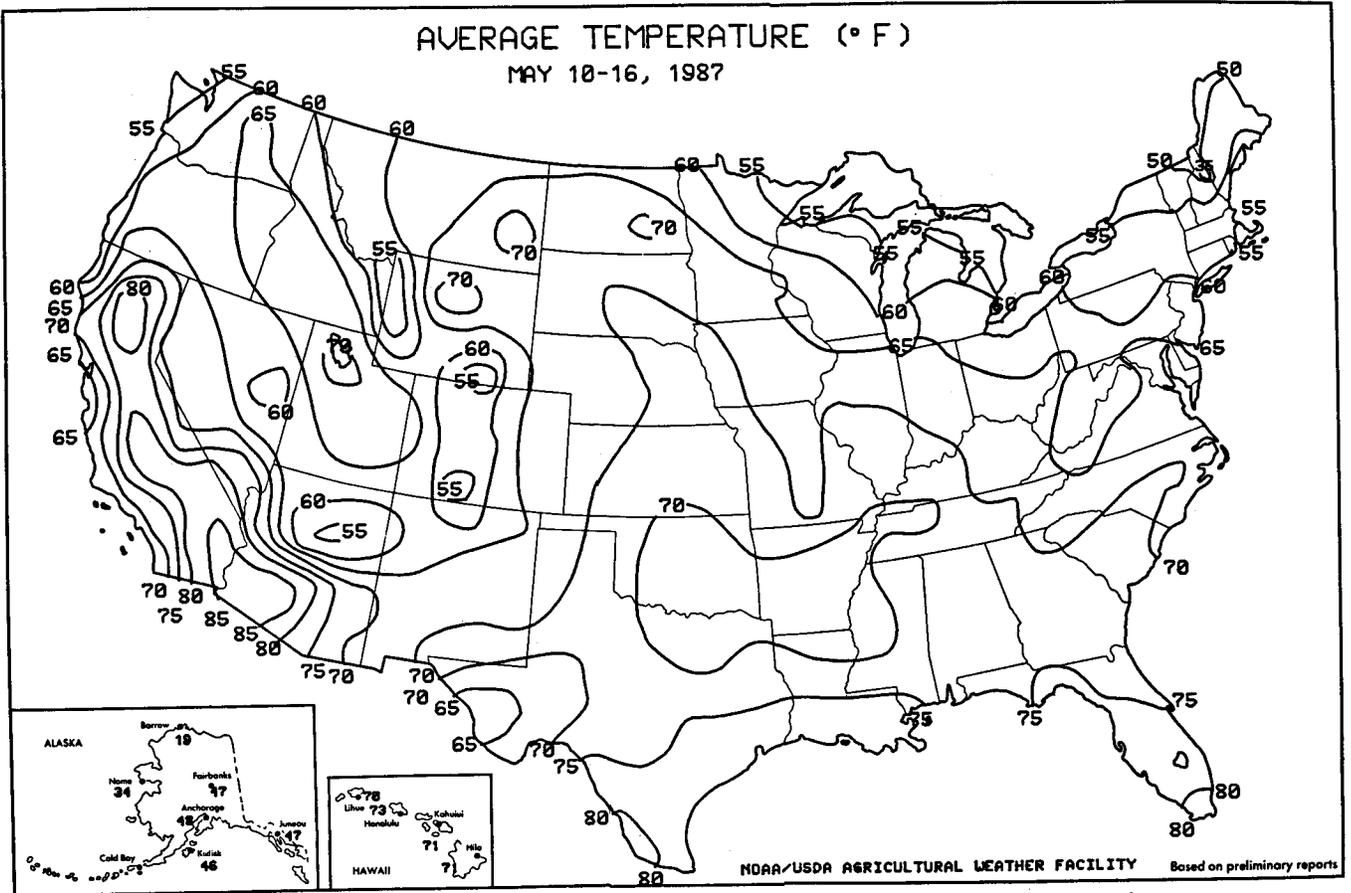




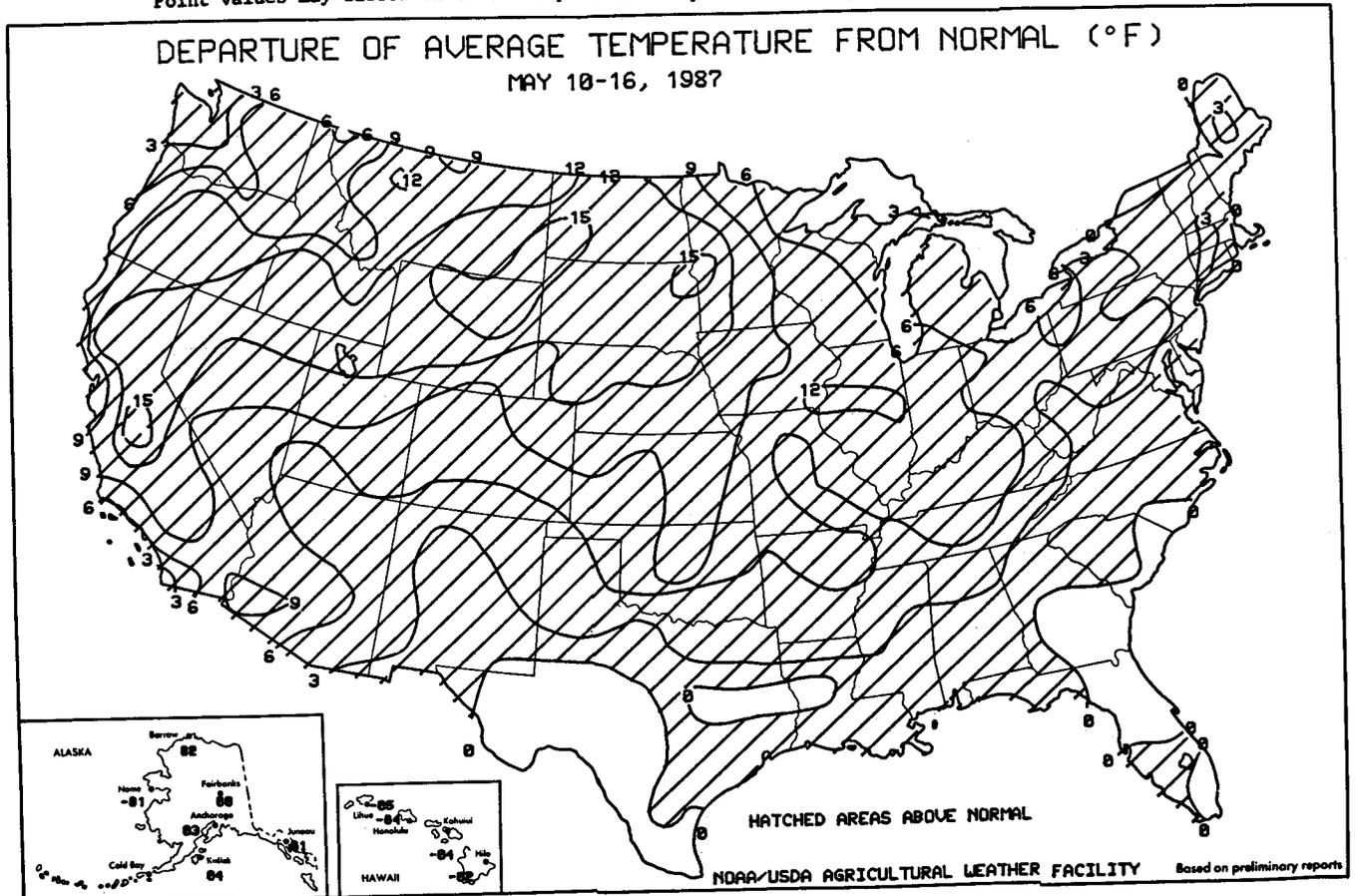








Point values may differ on these computerized maps from the reported values in the tables.



HATCHED AREAS ABOVE NORMAL

NOAA/USDA AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

El Nino and North American Temperatures and Precipitation

The current El Nino appearance in the equatorial Pacific (Weekly Weather and Crop Bulletin, Feb. 24, 1987, Vol. 74, No. 8) was noted to be likely associated with climatic anomalies in various regions of the globe (Weekly Weather and Crop Bulletin, Mar. 3, 1987, Vol. 74, No. 9). Those areas in North America, where significant climatic responses to an El Nino are most likely (Ropelewski and Halpert, 1986), are shown in figure 1. Although not every indicated anomaly occurs with every El Nino event, the persistently above normal temperatures over western Canada

(fig. 2) and the wetter than normal precipitation across the Southern United States (fig. 3) agree with the expected results of an El Nino occurrence.

REFERENCE

C.F. Ropelewski, and M.S. Halpert. "North American Precipitation and Temperature Patterns Associated with the El Nino/Southern Oscillation, (ENSO)" Monthly Weather Review, Vol. 114, 2352-2362, Dec. 1986.

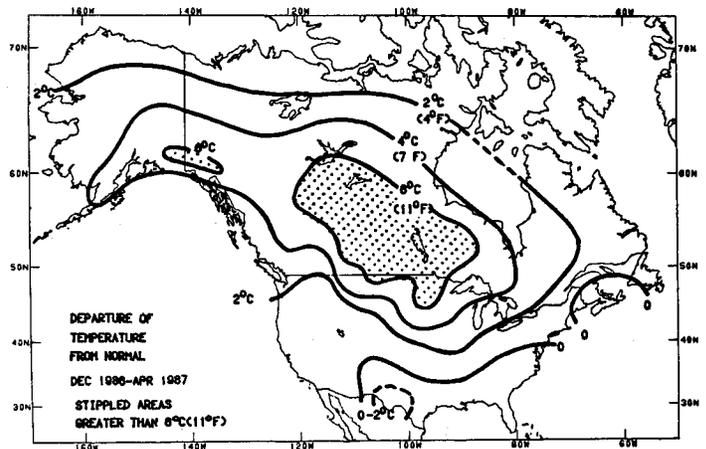
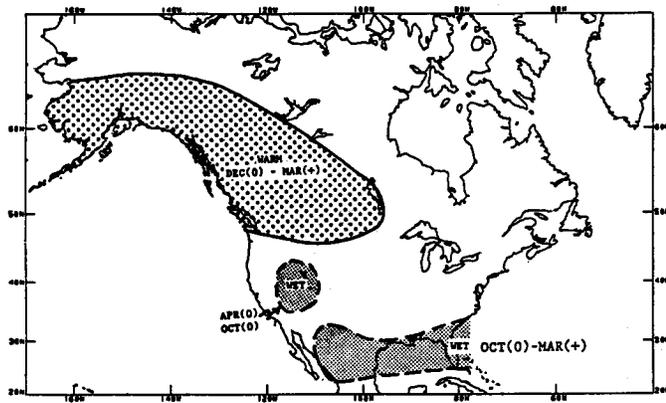


Figure 1. Typical North American climatic anomalies associated with an El Nino. A 0 in parentheses after the month indicates the month of the same year as the El Nino event began and a + indicates the following year. For the current El Nino, 0 is 1986 and + is 1987. For example, the wet conditions across the Gulf Coast States are likely from October 1986 to March 1987.

Figure 2. Temperature departures from normal over the United States and Canada from December 1986 to April 1987.

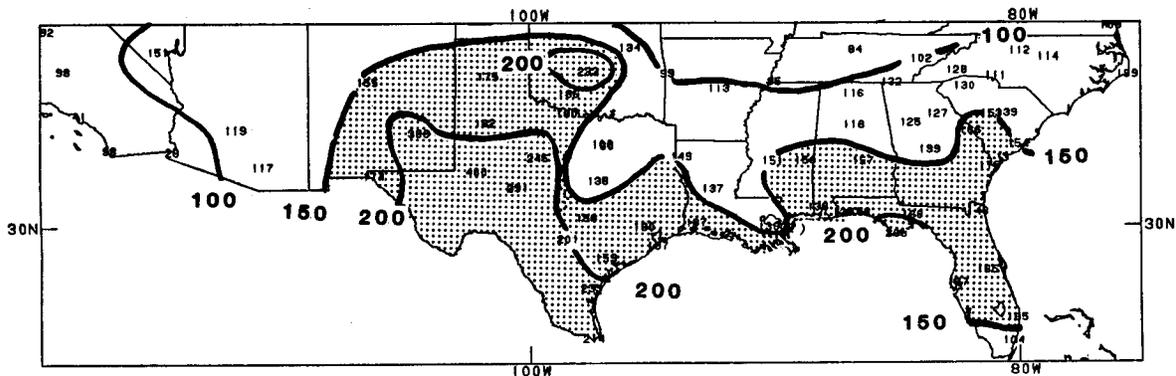


Figure 3. Percent of normal precipitation across the Southern United States from October 1986 to March 1987. Anomalies greater than 150 percent are stippled.

National Weather Data for Selected Cities

Weather Data for the Week Ending May 16, 1987

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	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	82	62	88	59	72	3	.7	-.4	.4	6.5	47	18.4	77	96	55	0	0	4	0
MOBILE	81	66	85	65	74	-1	5.4	4.2	2.8	14.0	96	28.5	118	100	63	0	0	5	4
MONTGOMERY	83	64	86	61	73	2	2.7	1.8	1.4	8.7	70	25.7	122	100	57	0	0	2	2
AK ANCHORAGE	57	40	60	32	48	3	.1	-.1	.1	.5	32	2.3	73	82	41	0	1	1	0
BARROW	25	14	31	7	19	2	T	0	T	10	.3	32	94	79	0	0	7	0	
FAIRBANKS	58	36	62	31	47	0	T	-.1	T	.1	9	.8	45	54	22	0	1	1	0
JUNEAU	53	41	55	38	47	1	-.2	-.6	.1	6.1	76	13.3	87	90	50	0	0	4	0
KODIAK	52	39	57	35	46	3	-.1	-.1	0	12.1	118	27.0	128	86	51	0	0	3	0
NOME	41	27	51	24	34	-1	T	-.1	T	.7	47	2.1	80	86	54	0	7	1	0
AZ PHOENIX	98	76	100	73	87	11	-.1	0	.1	.4	38	3.2	132	48	16	7	0	1	0
PRESCOTT	78	48	81	44	63	7	-.1	0	.1	1.0	40	4.5	78	73	28	0	0	4	0
TUCSON	93	61	96	56	77	5	.4	.4	.1	2.1	191	4.3	172	74	16	6	0	5	0
YUMA	98	75	103	72	86	9	T	0	T	.1	41	.5	58	48	19	7	0	0	0
AR FORT SMITH	88	62	91	56	75	6	T	-.1	T	7.3	69	13.2	89	96	48	1	0	0	0
LITTLE ROCK	88	65	91	63	76	7	.6	-.7	.5	4.7	37	13.0	63	82	51	1	0	2	1
CA BAKERSFIELD	96	67	99	62	81	11	T	0	T	1.2	69	3.7	98	66	26	6	0	1	0
EUREKA	62	54	66	53	58	6	T	-.4	T	7.3	82	17.2	82	92	75	0	0	0	0
FRESNO	96	67	100	64	82	15	.8	.8	.8	3.3	112	6.6	96	70	23	6	0	1	1
LOS ANGELES	72	62	78	61	67	5	T	0	T	.9	34	2.9	34	95	71	0	0	0	0
REDDING	97	62	101	54	80	12	0	-.3	0	7.2	84	19.1	82	68	18	6	0	0	0
SACRAMENTO	93	60	98	55	77	12	0	-.1	0	3.4	94	8.8	84	80	26	6	0	0	0
SAN DIEGO	69	62	74	60	66	2	0	-.1	T	1.8	73	5.0	84	89	74	0	0	1	0
SAN FRANCISCO	73	54	83	52	64	6	T	-.1	T	2.2	50	8.5	69	90	53	0	0	0	0
CO DENVER	80	51	83	48	66	9	.1	-.5	0	3.8	89	5.7	105	76	29	0	0	3	0
GRAND JUNCTION	82	54	88	52	68	7	T	-.2	T	3.0	167	4.5	152	70	23	0	0	1	0
PUEBLO	84	49	88	47	67	7	.3	0	.2	2.2	89	4.2	143	92	25	0	0	2	0
CT BRIDGEPORT	70	49	87	38	60	2	.1	-.7	.1	10.2	108	15.5	99	84	40	0	0	1	0
HARTFORD	76	43	87	32	60	1	.1	-.7	.1	10.7	108	17.3	104	83	27	0	0	1	0
DC WASHINGTON	78	57	89	53	67	2	.5	-.3	.3	5.7	70	12.7	94	87	44	0	0	1	2
FL APALACHICOLA	82	67	85	65	75	1	T	-.6	T	11.1	128	21.3	134	97	68	0	0	0	0
DAYTONA BEACH	81	67	82	64	74	-1	.2	-.5	.2	10.1	152	18.9	156	96	66	0	0	0	0
JACKSONVILLE	82	62	85	54	72	-3	.6	-.3	.5	7.1	85	17.7	119	99	60	0	0	2	0
KEY WEST	86	75	87	72	81	0	1.5	.8	1.0	11.5	276	12.9	164	87	65	0	0	0	0
MIAMI	83	72	85	71	78	-1	2.7	1.3	1.3	7.2	90	10.6	88	92	61	0	0	3	2
ORLANDO	85	68	87	66	76	-1	.4	-.4	.2	12.9	182	15.9	129	99	56	0	0	4	0
TALLAHASSEE	86	65	89	63	75	2	2.6	1.5	1.1	12.9	106	25.5	117	98	51	0	0	5	2
TAMPA	88	68	90	67	78	1	2.6	1.9	1.9	15.1	225	19.9	167	97	53	1	0	6	1
WEST PALM BEACH	83	72	87	70	78	0	3.4	2.1	1.7	15.7	182	18.0	130	89	65	0	0	3	2
GA ATLANTA	79	63	84	57	71	2	1.7	.8	.9	8.9	72	20.6	95	95	53	0	0	3	2
AUGUSTA	83	59	86	46	71	0	.7	-.1	.3	6.3	63	22.4	124	100	51	0	0	4	0
MAGON	82	63	86	50	72	0	2.2	1.3	1.0	7.4	70	21.3	110	99	55	0	0	5	2
SAVANNAH	81	63	86	54	72	0	2.1	1.1	1.5	8.2	89	21.2	137	94	56	0	0	2	2
HI HILO	77	64	79	61	71	-3	.7	-1.5	.5	22.3	70	35.6	65	91	65	0	0	3	1
HONOLULU	83	64	89	61	73	-4	T	-.3	T	.8	14	2.0	17	83	43	0	0	0	0
KAHALUI	78	63	83	61	71	-5	T	-.1	T	7.8	189	12.0	109	88	57	0	0	1	0
LIHUE	77	64	79	61	70	-5	.7	0	.5	6.7	71	10.6	55	87	61	0	0	5	1
ID BOISE	83	55	91	48	69	12	T	-.3	T	2.4	86	4.4	81	70	26	1	0	2	0
LEWISTON	78	55	87	52	67	9	.3	0	.3	2.1	73	3.1	59	72	30	0	0	2	0
POCATELLO	80	51	85	46	65	12	.6	.3	.6	2.1	77	3.8	82	80	29	0	0	2	1
IL CHICAGO	78	49	88	40	63	5	.3	-.4	.2	4.8	59	7.4	68	82	34	0	0	2	0
MOLINE	83	52	91	39	68	7	T	-.9	T	4.4	49	6.2	53	72	24	1	0	1	0
PEORIA	83	54	90	48	69	8	.1	-.8	.1	3.9	45	6.2	53	75	26	1	0	1	0
QUINCY	85	56	88	49	70	8	0	-1.0	0	4.1	44	6.3	52	76	30	0	0	0	0
ROCKFORD	81	49	89	40	65	7	T	-.8	T	4.4	50	6.1	54	77	30	0	0	1	0
SPRINGFIELD	83	56	90	48	69	7	.3	-.5	.2	5.1	57	7.3	60	85	32	1	0	2	0
IN EVANSVILLE	85	58	89	50	72	7	.5	-.5	.3	5.3	48	9.5	56	97	45	0	0	2	0
FORT WAYNE	79	51	87	43	65	6	.8	0	.6	4.8	58	7.4	60	80	32	0	0	2	1
INDIANAPOLIS	79	55	86	49	67	5	.6	-.2	.6	5.3	59	8.2	58	85	41	0	0	2	1
SOUTH BEND	79	53	87	43	66	8	.4	-.2	.3	5.4	64	9.0	70	83	37	0	0	2	0
IA DES MOINES	83	55	87	51	69	8	T	-.9	T	7.2	99	9.0	96	71	30	0	0	2	0
SIoux CITY	87	57	95	48	72	11	.2	-.6	.2	7.8	139	8.4	117	70	23	3	0	2	0
WATERLOO	83	51	91	44	67	9	T	-.9	T	4.4	56	5.8	60	67	22	1	0	0	0
KS CONCORDIA	85	59	87	52	72	9	0	-.9	0	13.7	228	15.2	204	82	40	0	0	0	0
DODGE CITY	83	57	86	55	70	7	.1	-.6	.1	6.0	123	8.0	137	89	38	0	0	1	0
GOODLAND	83	54	86	51	69	11	T	-.7	T	4.8	136	6.2	144	89	35	0	0	0	0
TOPEKA	86	59	90	53	73	9	0	-.9	0	10.2	143	14.0	154	88	34	1	0	0	0
WICHITA	86	61	88	58	74	9	T	-.9	T	8.3	131	13.1	166	89	41	0	0	0	0
KY BOWLING GREEN	83	60	85	53	71	6	.3	-.6	.3	5.9	50	12.7	62	95	49	0	0	1	0
LEXINGTON	81	57	85	48	69	6	.6	-.1	.1	6.3	57	11.2	63	86	46	0	0	1	0
LOUISVILLE	83	59	86	51	71	6	T	-.9	T	6.2	56	11.4	65	81	42	0	0	1	0
LA ALEXANDRIA	83	66	87	60	74	0	2.6	1.1	1.7	10.6	77	25.1	105	91	61	0	0	6	1
BATON ROUGE	85	66	89	62	75	1	1.7	.6	1.7	9.7	75	24.7	110	96	56	0	0	2	1
LAKE CHARLES	86	66	90	62	76	2	.3	-1.0	.2	7.6	77	20.1	113	100	57	1	0	2	0
NEW ORLEANS	85	66	88	64	76	1	.9	-.3	.5	8.7	74	24.9	113	100	58	0	0	5	0

Based on 1951-80 normals.

Weather Data for the Week Ending May 16, 1987

STATES AND STATIONS	TEMPERATURE °F					PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	87	62	91	60	75	2	1.5	.4	.9	4.1	37	14.2	77	100	48	2	0	3	2
ME CARIBOU	62	39	73	32	51	2	.7	.1	.6	4.1	63	6.7	61	72	32	0	1	2	1
PORTLAND	67	42	85	38	54	2	.1	-.7	.1	12.5	131	17.8	105	83	34	0	0	2	0
MD BALTIMORE	79	54	89	49	66	4	.3	-.5	.3	4.6	52	12.6	86	80	36	0	0	1	0
SALISBURY	77	53	87	46	65	3	.2	-.6	.1	8.2	92	17.6	112	93	51	0	0	3	0
MA BOSTON	70	47	83	39	58	1	-.1	-.7	.1	15.0	155	23.1	133	78	33	0	0	1	0
CHATHAM	56	45	62	40	51	-1	-.2	-.7	.1	15.3	154	25.6	139	82	58	0	0	2	0
MI ALPENA	70	39	82	27	54	3	.3	-.3	.3	2.4	41	4.2	48	87	38	0	2	2	0
DETROIT	76	49	86	40	63	6	.7	.1	.5	5.4	76	8.3	78	80	32	0	0	2	1
FLINT	75	48	85	38	62	6	1.3	.7	.8	4.6	71	6.2	65	89	40	0	0	2	2
GRAND RAPIDS	77	47	83	37	62	5	.2	-.4	.2	3.9	52	5.0	45	74	31	0	0	2	0
HOUGHTON LAKE	72	45	77	33	58	5	.2	-.3	.2	2.0	34	3.7	43	81	35	0	0	3	0
LANSING	75	47	84	36	61	6	.6	.1	.5	3.3	52	4.6	49	84	37	0	0	2	1
MARQUETTE	70	39	79	28	55	5	.3	-.3	.2	4.7	77	7.7	82	86	33	0	2	3	0
MUSKOGON	73	47	79	35	60	5	.1	-.5	0	4.4	63	6.6	60	82	36	0	0	3	0
SAULT ST. MARIE	66	39	72	31	52	4	.6	-.1	.3	3.0	52	5.6	58	86	39	0	1	3	0
MN ALEXANDRIA	83	54	93	46	69	14	.2	-.4	.2	1.7	36	3.0	48	70	25	2	0	1	0
DULUTH	68	41	83	33	55	6	.3	-.4	.2	1.2	22	2.1	29	92	35	0	0	3	0
INT'L FALLS	70	42	78	32	56	6	.2	-.3	.2	1.3	35	2.0	38	82	33	0	1	2	0
MINNEAPOLIS	81	55	91	46	68	11	.5	-.2	.3	1.7	32	2.4	36	74	26	2	0	2	0
ROCHESTER	78	49	88	41	63	7	.8	.1	.3	3.2	54	4.1	55	83	31	0	0	4	0
MS GREENWOOD	84	66	86	63	75	3	.1	-1.0	.1	11.3	79	21.0	87	95	58	0	0	1	0
JACKSON	84	66	86	63	75	3	1.5	.3	.5	11.3	81	26.3	113	99	58	0	0	5	1
MERIDIAN	82	64	85	62	73	2	2.2	1.2	1.0	9.7	67	29.8	124	97	63	0	0	5	2
MO CAPE GIRARDEAU	86	61	90	52	74	4	.1	-1.0	.1	4.4	37	8.5	48	92	42	1	0	2	0
COLUMBIA	82	54	90	50	68	7	.5	-.6	.4	4.9	51	7.9	60	94	46	1	0	2	0
KANSAS CITY	84	60	88	53	72	4	0	-1.0	0	7.5	92	10.5	99	76	36	0	0	0	0
SAINT LOUIS	83	62	89	54	73	8	T	-.8	T	5.6	64	8.9	72	78	40	0	0	0	0
SPRINGFIELD	84	58	87	55	71	7	T	-1.0	T	9.2	95	16.6	124	91	46	0	0	2	0
MT BILLINGS	84	52	91	47	68	14	.3	-.3	.2	2.4	58	2.9	50	68	22	1	0	0	0
GLASGOW	82	49	90	44	65	11	.1	-.2	.1	2.3	132	2.4	104	68	21	1	0	2	2
GREAT FALLS	79	51	87	45	65	12	.3	-.2	.3	3.1	87	3.4	64	60	25	0	0	0	0
HAVRE	79	45	84	35	62	8	.2	-.2	.2	1.9	76	2.1	61	64	24	0	0	1	0
HELENA	78	45	84	40	61	10	.3	-.1	.2	2.3	91	2.3	64	81	33	0	0	3	0
KALISPELL	73	44	80	34	58	7	.2	-.2	.1	4.5	168	5.8	109	86	34	0	0	2	0
MILES CITY	88	53	93	48	70	14	.1	-.4	.1	1.3	43	1.5	34	62	19	2	0	2	0
MISSOULA	77	45	83	38	61	10	.3	-.1	.3	2.1	80	2.7	57	82	31	0	0	3	0
NE GRAND ISLAND	84	56	90	49	70	10	.5	-.3	.4	10.8	182	11.6	160	85	34	1	0	2	0
LINCOLN	87	55	91	47	71	10	T	-.9	T	9.6	144	10.1	122	77	27	1	0	0	0
NORFOLK	86	58	93	46	72	12	T	-.8	T	8.4	155	9.5	141	67	26	1	0	0	0
NORTH PLATTE	84	52	90	45	68	11	.4	-.4	.3	3.8	84	5.5	101	89	33	1	0	2	0
OMAHA	84	60	89	54	72	10	.1	-.9	.1	7.2	103	7.9	92	61	37	0	0	2	0
SCOTTSBLUFF	82	52	86	45	67	10	.4	-.2	.4	5.0	135	7.2	160	87	32	0	0	1	0
VALENTINE	84	55	91	49	70	13	T	-.7	T	4.6	113	6.0	127	75	29	1	0	0	0
NV ELY	74	41	79	36	58	8	.7	.5	.2	2.0	82	3.3	88	88	37	0	0	5	0
LAS VEGAS	90	67	97	63	79	6	.9	.8	.8	1.6	217	3.2	193	59	25	5	0	2	1
RENO	84	51	90	49	68	14	.2	.1	.1	1.7	108	3.0	80	81	24	1	0	4	0
WINNEMUCCA	84	48	91	43	66	12	1.7	1.5	1.2	3.6	198	4.6	139	76	24	1	0	2	2
NH CONCORD	73	38	83	30	55	1	T	-.6	T	8.9	119	11.9	93	83	26	0	2	0	0
NJ ATLANTIC CITY	73	49	86	40	61	2	.5	-.2	.5	10.8	123	18.7	120	91	47	0	0	2	0
NM ALBUQUERQUE	79	52	82	47	65	2	.4	-.3	.3	1.5	133	2.8	148	75	24	0	0	3	0
CLOVIS	83	55	87	53	69	5	.3	-.2	.1	.9	37	2.8	87	66	26	0	0	3	0
ROSWELL	86	54	88	47	70	2	.2	.1	.2	.8	74	3.1	161	78	25	0	0	1	0
NY ALBANY	74	41	81	35	57	1	T	-.7	T	6.5	86	11.0	91	87	29	0	0	2	0
BINGHAMTON	70	44	82	37	57	3	.2	-.5	.2	6.5	86	10.3	83	80	33	0	0	2	0
BUFFALO	73	49	85	39	61	6	1.1	-.4	.9	8.1	108	11.9	92	90	34	0	0	4	1
NEW YORK	75	53	88	45	64	3	.1	-.7	.1	10.2	106	16.4	104	85	46	0	0	1	0
ROCHESTER	74	46	84	36	60	4	.6	0	.5	6.2	96	8.7	78	91	36	0	0	2	1
SYRACUSE	74	43	87	35	58	2	.2	-.5	.1	5.4	67	9.1	69	86	33	0	0	3	0
NC ASHEVILLE	77	52	81	43	65	2	.4	-.5	.3	7.3	71	17.0	102	97	48	0	0	2	0
CHARLOTTE	80	59	83	53	69	2	.6	-.3	.5	6.9	69	16.9	97	93	51	0	0	2	1
GREENSBORO	78	56	84	54	67	1	T	-.7	T	11.3	130	19.9	128	89	52	0	0	0	0
HATTERAS	75	59	79	57	67	1	0	-.9	0	15.1	165	30.1	167	95	59	0	0	0	0
NEW BERN	82	58	86	52	70	1	.1	-.9	.1	7.8	89	18.9	113	93	45	0	0	1	0
RALEIGH	79	57	84	54	68	2	.3	-.5	.2	7.9	94	20.0	130	92	53	0	0	3	0
WILMINGTON	80	58	82	51	69	-1	.2	-.8	.2	6.1	68	17.0	106	98	47	0	0	1	0
ND BISMARCK	82	50	92	40	66	12	T	-.4	T	2.8	87	4.6	111	82	32	2	0	1	0
FARGO	84	52	95	45	68	13	.5	-.1	.3	1.3	34	2.4	51	67	23	3	0	3	0
GRAND FORKS	80	49	97	40	64	11	.2	-.2	.1	.8	26	2.3	54	66	25	1	0	3	0
WILLISTON	83	46	91	34	65	11	.2	-.2	.2	2.7	101	3.2	88	86	22	2	0	1	0
OR AKRON-CANTON	75	48	82	39	62	4	.3	-.2	.2	7.7	92	10.0	76	85	38	0	0	3	0
CINCINNATI	82	55	86	47	68	6	.2	-.7	.2	7.7	81	10.1	67	82	37	0	0	1	0
CLEVELAND	74	49	85	39	61	4	.8	0	.6	8.1	102	10.6	84	86	42	0	0	3	1
COLUMBUS	79	49	86	41	64	4	.9	0	.8	5.3	63	7.0	53	89	36	0	0	2	1

Based on 1951-80 normals.

Weather Data for the Week Ending May 16, 1987

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	79	51	87	42	65	4	T	-8	T	5.6	67	7.6	59	83	38	0	0	1	0
TOLEDO	77	47	89	37	62	5	.1	-5	.1	4.7	67	7.1	66	89	35	0	0	1	0
YOUNGSTOWN	76	47	83	35	62	5	.2	-6	.1	6.8	81	9.2	69	87	36	0	0	4	0
OK OKLAHOMA CITY	88	63	89	59	76	8	0	-1.2	T	2.8	36	9.4	94	89	35	0	0	1	0
TULSA	88	64	89	60	76	8	0	-1.2	0	4.3	43	11.3	87	87	35	0	0	0	0
OR ASTORIA	62	49	65	42	55	4	.9	.7	.6	13.6	255	29.1	231	93	61	0	0	3	1
BURNS	79	45	82	38	62	10	.1	-1	.1	2.5	115	4.7	92	**	**	0	0	1	0
MEDFORD	84	51	92	45	68	11	0	-3	0	2.0	57	7.1	79	80	29	2	0	0	0
PENDLETON	74	53	84	44	64	6	.1	-2	.1	2.4	91	4.5	83	73	36	0	0	1	0
PORTLAND	72	51	83	43	62	5	.6	-1	.3	7.7	110	17.2	101	92	46	0	0	4	0
SALEM	73	50	84	37	61	7	.3	-1	.3	6.8	88	18.0	93	95	49	0	0	2	0
PA ALLENTOWN	77	46	87	39	62	3	.3	-5	.3	7.9	82	12.8	80	83	35	0	0	1	0
ERIE	71	50	82	40	60	6	1.0	.3	.6	7.4	93	10.6	85	89	43	0	0	3	1
HARRISBURG	78	50	87	45	64	3	.4	-4	.4	6.2	73	11.5	80	85	38	0	0	1	0
PHILADELPHIA	77	53	87	48	65	3	.4	-3	.3	6.7	75	12.5	84	83	38	0	0	2	0
PITTSBURGH	77	50	84	43	63	4	.1	-7	.1	9.2	106	12.2	88	71	32	0	0	1	0
SCRANTON	74	45	84	37	59	2	.2	-5	.1	6.7	93	10.0	87	85	32	0	0	2	0
RI PROVIDENCE	70	47	87	35	59	2	.1	-7	.1	13.8	137	18.8	106	84	33	0	0	2	0
SC CHARLESTON	82	61	87	52	72	0	.3	-6	.3	7.9	88	19.7	127	98	54	0	0	2	0
COLUMBIA	84	60	90	46	72	1	.8	0	.5	6.9	65	20.6	108	96	48	1	0	3	1
FLORENCE	83	59	85	47	71	0	.1	-6	.1	6.2	71	16.7	108	93	45	0	0	2	0
GREENVILLE	80	57	84	51	69	1	.3	-6	.2	8.3	67	20.3	97	96	53	0	0	2	0
SD ABERDEEN	84	51	93	42	68	12	0	-6	0	2.2	52	3.4	65	71	27	3	0	0	0
HURON	85	54	92	46	69	13	.3	-3	.2	5.7	127	7.0	125	73	31	2	0	3	0
RAPID CITY	82	53	90	47	67	13	.1	-5	0	1.9	45	3.6	70	79	33	1	0	2	0
STOUX FALLS	84	54	92	45	69	12	T	-7	T	4.4	81	4.8	70	69	26	3	0	1	0
TN CHATTANOOGA	84	59	87	53	71	4	T	-9	T	8.0	61	21.5	94	100	49	0	0	0	0
KNOXVILLE	84	56	88	49	70	3	.1	-8	.1	5.6	50	15.0	75	98	43	0	0	1	0
MEMPHIS	87	64	90	61	76	5	.1	-1.1	.1	7.7	55	15.2	67	95	50	1	0	1	0
NASHVILLE	85	63	88	59	74	7	.4	-7	.2	2.8	23	9.3	44	96	50	0	0	3	0
TX ABILENE	84	63	88	60	73	2	.8	0	.6	3.2	63	7.3	103	89	40	0	0	3	1
AMARILLO	82	53	86	48	68	3	.1	-5	.1	2.4	75	4.5	107	80	31	0	0	1	0
AUSTIN	84	67	90	63	76	1	.2	-7	.2	3.1	44	6.9	62	97	55	1	0	3	0
BEAUMONT	86	66	90	64	76	1	.9	-2	.9	4.8	49	20.5	114	99	59	1	0	2	1
BROWNSVILLE	86	71	88	67	78	-1	.2	-3	.2	3.3	110	8.1	139	98	62	0	0	3	0
CORPUS CHRISTI	86	69	89	65	78	0	.6	-1	.6	3.3	78	11.5	158	100	61	0	0	1	1
DEL RIO	87	65	90	62	76	-1	.1	-4	.1	4.8	134	8.4	170	***	***	1	0	3	0
EL PASO	87	56	90	51	72	0	T	-1	T	.8	145	1.4	99	67	19	1	0	1	0
FORT WORTH	86	64	89	60	75	3	.3	-7	.2	3.9	44	8.8	71	99	48	0	0	3	0
GALVESTON	81	71	83	68	76	1	.6	-2	.4	3.2	49	11.9	101	89	67	0	0	3	0
HOUSTON	86	67	88	62	77	2	.1	-1	.1	5.6	63	12.3	79	100	56	0	0	3	0
LUBBOCK	87	56	90	54	72	4	.3	-3	.2	.9	29	2.9	72	83	28	1	0	2	0
MIDLAND	86	55	89	51	70	-1	T	-4	T	1.9	82	4.0	122	90	33	0	0	2	0
SAN ANGELO	85	59	90	57	72	-1	1.9	1.3	.8	5.4	142	10.5	199	95	41	1	0	4	2
SAN ANTONIO	85	65	89	62	75	0	.9	.1	.8	5.3	90	11.2	121	95	52	0	0	2	1
VICTORIA	86	68	88	65	77	1	1.5	.5	.5	3.4	55	10.0	98	100	58	0	0	4	1
WACO	84	64	88	60	74	0	.1	-1.0	.1	5.7	69	9.6	80	100	59	0	0	2	0
WICHITA FALLS	88	61	90	57	74	4	0	-1.0	0	3.2	45	9.1	102	93	37	1	0	0	0
UT BLANDING	78	49	84	46	64	8	T	-1	T	2.1	117	4.6	113	81	38	0	0	0	0
CEDAR CITY	75	45	79	40	60	5	.6	.4	.3	2.8	112	4.5	115	93	37	0	0	2	0
SALT LAKE CITY	83	57	87	53	70	12	T	-3	T	2.9	61	5.8	79	63	23	0	0	0	0
VT BURLINGTON	70	38	76	29	54	0	.3	-3	.2	3.3	52	5.7	57	85	31	0	1	3	0
VA NORFOLK	78	57	88	52	68	2	T	-9	T	7.0	82	20.0	129	88	50	0	0	0	0
RICHMOND	79	55	88	50	67	1	.2	-6	.2	9.9	121	18.0	124	94	46	0	0	2	0
ROANOKE	77	54	85	48	65	1	.1	-7	.1	16.8	197	25.8	178	94	53	0	0	3	0
WA COLVILLE	77	46	88	39	62	8	.1	-3	.1	4.9	162	7.2	107	72	36	0	0	1	0
QUILLAYUTE	61	42	69	35	51	1	2.7	1.4	1.1	24.4	110	46.8	96	98	56	0	0	5	3
SEATTLE-TACOMA	65	49	77	41	57	2	.6	.3	.3	9.1	134	17.2	101	94	51	0	0	4	0
SPOKANE	73	49	81	41	61	7	.2	-1	.2	3.6	116	6.0	84	77	31	0	0	1	0
YAKIMA	78	47	88	45	63	6	T	-1	T	2.0	152	3.7	108	78	28	0	0	0	0
WV BECKLEY	75	50	80	42	62	3	.5	-3	.5	10.3	112	17.2	109	89	51	0	0	1	1
CHARLESTON	81	52	85	44	67	3	.5	-4	.5	6.6	71	13.2	92	95	44	0	0	2	0
HUNTINGTON	81	54	85	46	68	4	1.1	.3	1.1	8.5	89	14.3	92	94	47	0	0	1	1
PARKERSBURG	79	51	84	43	65	3	.5	-3	.5	6.6	76	9.6	68	85	41	0	0	3	0
WI GREEN BAY	73	45	82	38	59	5	.5	-2	.2	4.3	71	5.2	62	87	36	0	0	4	0
LACROSSE	78	53	88	43	65	7	2.5	1.7	.9	7.4	111	8.8	104	76	33	0	0	0	3
MADISON	77	47	83	39	62	6	.5	-2	.3	6.2	90	7.5	84	85	35	0	0	2	0
MILWAUKEE	74	46	86	38	60	6	.1	-5	.1	6.6	91	9.1	89	82	37	0	0	2	0
WAUSAU	75	47	84	37	61	7	.5	-4	.3	2.9	43	3.5	42	80	28	0	0	3	0
WY CASPER	82	50	86	45	66	14	.1	-4	.1	2.1	58	4.9	107	76	20	0	0	2	0
CHEYENNE	75	48	79	45	62	11	1.3	.8	1.3	3.6	106	4.6	110	81	31	0	0	2	1
LANDER	79	52	85	44	65	14	T	.3	.3	4.2	87	6.8	115	63	25	0	0	2	0
SHERIDAN	83	49	92	44	66	14	T	-6	T	1.8	42	3.0	52	79	23	1	0	0	0
PR SAN JUAN	87	76	89	73	81	1	.6	-8	.5	15.8	181	18.2	132	83	66	0	0	2	1

Based on 1951-80 normals.

Cooling Degree Day Summary Table

CLIMATE ANALYSIS CENTER-MNC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NWS-DIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 5-16-1987
ACCUMULATIONS ARE FROM JANUARY 1
** = NORMAL LESS THAN 10% OR RATIO UNCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM CUM CUM CUM, STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM CUM CUM CUM. Lists 50 states and their major cities with cooling degree day data.

National Agricultural Summary

May 11 to 17, 1987

HIGHLIGHTS: Inadequate moisture hampered crop growth and seeding throughout much of the eastern half of the Nation. The warm weather began forcing rapid small grain development and maturity in most areas. Despite rain in some areas and the lack of moisture in others, seeding continued its rapid pace. Topsoil moisture remained short, except in the North Atlantic Coast States. Rain alleviated most of the dryness in Alabama, Louisiana, and Mississippi. Farmers were able to work 5 to 6 days in most States. Wetness slowed fieldwork to 4 days or less in most Delta States.

Wheat and small grains showed signs of moisture stress in the Great Plains and along the west coast. Wheat was 59 percent (%) headed, up 13 percentage points from normal. Spring wheat seeding reached 97% completion, 21 points better than the 5-year average. Corn seeding was up 17 points from the previous week. Planting was 26 points ahead of normal. Soybeans were 44% seeded, up 23 points from the previous week and the average. Planting was ahead of normal except in the Southeast and Delta. Sorghum seeding climbed 7 points ahead of normal. Rice planting surged 18 points above the 73% average. Peanut seeding lagged behind schedule in most States. Livestock was mostly good.

SMALL GRAINS: Winter wheat was mostly good but remained mostly fair in the Southeast, Delta, and southern Great Plains. Soil moisture was becoming short in the central and northern Great Plains and the Corn Belt as wheat reached the critical head filling stage. Winter wheat heading advanced 27 points to 59% completion, compared with 65% headed in 1986 and 46% normally. Warm temperatures began pushing development ahead of normal in most major producing States. Dry weather caused some wheat to turn brown in Oklahoma. Scattered rain benefited small grains in Texas, but dryland small grains were stressed from the lack of moisture. Small grains turned color in the Low Plains and southern Texas. A few fields were harvested in central and southern areas. Wheat was turning color in Louisiana, and 8% of Mississippi's crop was mature. Warm weather promoted rapid wheat growth in Kansas, but dryland stands started showing signs of moisture stress in central and western areas. Russian aphids were still a problem in western Nebraska. South Dakota's winter wheat developed tan spots from the lack of moisture.

High temperatures promoted rapid maturity in California. Wheat, barley, and oats turned golden in color. Dryland small grains were drying out. Small grains approached maturity in western Arizona, and some fields were combined. Rust and septoria was evident in Oregon's wheat. Heading was just getting underway in Washington.

Spring wheat seeding reached 97% completion, 21 points ahead of the average and 34 points ahead of 1986. Emergence was 34 points ahead of normal at 81% completion. Seeding was finished in Idaho and South Dakota and was almost finished in Minnesota, Montana, and North Dakota.

CORN: Corn planting neared completion in most major producing States. Planting was up 17 points from the previous week overall and climbed as much as 38 points in Nebraska and South Dakota. Seeding was 93% finished, compared with 67% normally. Corn planting progressed rapidly in Kansas. Emerged stands were good to excellent, but some replanting was necessary. Despite the rapid pace, seeding lagged 1 point behind normal in Colorado and 4 points behind in North Carolina.

SOYBEANS: Soybean seeding surged 23 points ahead of the previous week and normal at 44% finished. Planting jumped 20 to 36 points from the previous week in the Corn Belt and central and northern Great Plains. Dryness hampered seeding in most major producing States and especially in the Southeast. Planting lagged behind normal in Georgia, Louisiana, North Carolina, South Carolina, and Mississippi.

SORGHUM: The 11 major sorghum producing States seeded 38% of the sorghum, 7 points above normal. Seeding lagged 5 points behind normal in Oklahoma, 7 in Texas, and 20 points in Louisiana, mostly as a result of dryness. Sorghum was fair to good, but chinch bugs caused problems in southeast Arkansas. Sorghum was heading in Texas.

COTTON: Cotton seeding was 5 points above normal, but seeding trailed behind normal in most Delta and Southeast States. Seeding was 62% finished, compared with the 57% average. Cotton was cultivated, thinned, and irrigated in California, and mite controls were applied. Squaring was underway in Arizona and Texas. Dryness and wetness hampered seeding in Arkansas. New Mexico's cotton was fair to good. Planting was nearly complete, except in northern growing areas. Dry weather hindered planting and seed germination in Oklahoma.

OTHER CROPS: Rice was 91% seeded, 18 points above the average. Seeding was finished in Texas and neared completion in the Delta. Eighty percent of California's rice acreage was seeded, 35 points more than the previous week and 46 points above average. Slightly more than two-thirds of the acreage was emerged.

Peanut planting increased at Cross Timbers, Plains, and in southern Texas. Planting reached 18% completion, 2 points above normal. Alabama's peanuts were 56% seeded, compared with 40% in 1986 and the 74% average. Planting was 6 and 7 points behind normal in North Carolina and Virginia, respectively.

Burley tobacco was 8% transplanted in Kentucky. Sixty-three percent of North Carolina's flue-cured acreage was transplanted. Tobacco transplanting reached 12% completion in Tennessee, 8 points below normal.

FRUIT AND NUTS: Ideal weather conditions prevailed in Florida's citrus producing areas. Rain reduced irrigation. New crop fruit grew well. Valencia orange harvest was active in all areas, but grapefruit harvest slowed.

In California, heat forced rapid grape development. Growers accelerated irrigation in the Sacramento Valley as fruit droppage increased. Bing cherry harvest was underway, and early cherry harvest neared completion. Navel orange grade-out increased as expected. Almonds were treated, and twig borer and limb breakage continued because of the heavy set. Valencia orange and grapefruit movements slowed in western Arizona. Peach and apricot harvests continued in central areas, but peach harvest was finished in Yuma County.

VEGETABLES: Spring vegetable harvest was nearly finished in southern Florida. Potatoes, tomatoes, sweet corn, cucumbers, peppers, and celery were volume leaders. Disease plagued melons and peppers in the Rio Grande Valley. Wet weather limited planting and harvesting in east Texas. California vegetable harvest consisted mostly of

(Continued to back cover)

CROP PROGRESS

FOR WEEK ENDING MAY 17, 1987

**SPRING WHEAT
% PLANTED**

	1987	1986	AVG.
IDAHO	100	87	87
MINN	99	38	75
MONT	95	83	86
N DAK	96	59	67
S DAK	100	74	90
5 STATES	97	63	76

THESE 5 STATES PRODUCED 94% OF THE 1986 SPRING WHEAT CROP.

**SPRING WHEAT
% EMERGED**

	1987	1986	AVG.
IDAHO	99	72	68
MINN	87	22	50
MONT	79	64	51
N DAK	73	24	34
S DAK	99	47	75
5 STATES	81	36	47

THESE 5 STATES PRODUCED 94% OF THE 1986 SPRING WHEAT CROP.

**WINTER WHEAT
% HEADED**

	1987	1986	AVG.
ARK	98	98	NA
CALIF	98	97	92
COLO	9	34	19
GA	98	99	98
IDAHO	2	0	0
ILL	82	75	42
IND	25	45	25
KANS	85	90	45
MICH	0	0	1
MO	86	85	51
MONT	0	0	0
NEBR	20	16	10
N MEX	95	90	NA
N C	79	92	NA
OHIO	8	19	14
OKLA	90	98	85
OREG	20	0	1
S DAK	8	5	4
TEX	83	98	82
WASH	5	0	0
20 STATES	61	67	NA

EXCL. STATES WITH NA 59 65 46

THESE 20 STATES PRODUCED 91% OF THE 1986 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

**SOYBEANS
% PLANTED**

	1987	1986	AVG.
ALA	21	16	19
ARK	17	19	11
GA	16	8	22
ILL	70	54	36
IND	70	30	25
IOWA	55	14	17
KANS	20	15	5
KY	20	23	12
LA	9	39	25
MICH	25	15	15
MINN	58	5	14
MISS	14	21	18
MO	39	25	18
NEBR	32	27	13
N C	13	11	21
OHIO	60	44	38
S C	11	10	13
S DAK	38	4	12
TENN	16	20	12
19 STATES	44	26	21

THESE 19 STATES PRODUCED 96% OF THE 1986 SOYBEANS CROP.

**RICE
% PLANTED**

	1987	1986	AVG.
ARK	94	90	71
CALIF	80	45	34
LA	90	96	89
MISS	90	99	85
TEX	100	100	97
5 STATES	91	86	73

THESE 5 STATES PRODUCED 97% OF THE 1986 RICE CROP.

**RICE
% EMERGED**

	1987	1986	AVG.
ARK	72	75	44
CALIF	30	15	8
LA	81	93	82
MISS	75	85	51
TEX	89	96	87
5 STATES	69	72	51

THESE 5 STATES PRODUCED 97% OF THE 1986 RICE CROP.

**CORN
% PLANTED**

	1987	1986	AVG.
COLO	77	87	78
GA	98	98	98
ILL	97	96	80
IND	97	85	60
IOWA	100	74	75
KANS	90	90	55
KY	86	87	61
MICH	90	80	65
MINN	98	40	56
MO	94	88	70
NEBR	90	85	60
N C	89	98	93
OHIO	92	87	72
PA	59	66	50
S DAK	86	19	39
TEX	98	100	98
WIS	80	59	49
17 STATES	93	76	67

THESE 17 STATES PRODUCED 94% OF THE 1986 CORN CROP.

**COTTON
% PLANTED**

	1987	1986	AVG.
ALA	95	66	84
ARIZ	97	99	98
ARK	85	89	77
CALIF	99	98	98
GA	69	41	69
LA	77	93	81
MISS	80	93	81
MO	98	94	72
N MEX	85	60	57
N C	67	88	80
OKLA	10	25	15
S C	88	92	90
TENN	91	80	70
TEX	42	35	35
14 STATES	62	60	57

THESE 14 STATES PRODUCED 100% OF THE 1986 COTTON CROP.

**GRAIN SORGHUM
% PLANTED**

	1987	1986	AVG.
ARK	83	74	NA
ILL	50	34	15
KANS	20	15	5
LA	61	91	81
MISS	66	77	51
MO	50	43	29
NEBR	27	18	10
OKLA	10	20	15
S DAK	16	2	6
TENN	55	60	45
TEX	63	71	70
11 STATES	41	40	NA
EXCL. STATES WITH NA	38	38	31

THESE 11 STATES PRODUCED 96% OF THE 1986 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

(Continued to p. 35)

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 NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall totals mostly 1.00 in. or more; less than 0.25 in. extreme north; over 5.00 in. extreme southwest. Temperatures averaged 2 to 3° above normal.

Days suitable for fieldwork 4.3. Soil moisture 40% short, 52% adequate, 8% surplus. Rain slowed field activities; provided much needed moisture for crops, pastures. Fieldwork on normal schedule. Corn 97% planted, 93% 1986, 94% avg. Cotton 95% planted, 66% 1986, 84% avg. Sorghum 32% planted, 28% 1986, 35% avg. Soybeans 21% planted, 16% 1986, 19% avg. Peanuts 56% planted, 40% 1986, 74% avg. Hay 1st cutting 35% harvested, 12% 1986. Wheat 94% headed, 97% 1986, 95% avg.; 48% turning color, 64% 1986, 45% avg.; 2% poor, 70% fair, 28% good. Livestock mostly good. Pastures fair to good. Primary activities: Land preparation, planting row crops; spraying orchards; harvesting hay; applying herbicides, cultivating row crops; building, stocking fish ponds; general care livestock, poultry.

ALASKA: Warm days, scattered showers. Temperature lows and highs, 2 to 5° warmer than normal. Most areas continued drier than normal. Seasonal totals ranged from 0.60 in. drier than normal to 0.44 in. wetter than normal.

Days suitable for fieldwork 7.0. Topsoil moisture supplies 27% short, 54% adequate, 19% surplus. Subsoil moisture supplies 10% short, 68% adequate, 19% surplus. Most areas of Railbelt 7 to 12 days ahead of schedule. Barley for grain seeding neared completion with 93% complete. Commercial lettuce, cabbage planting, transplanting made excellent progress. Livestock fair to excellent.

ARIZONA: Hot, humid monsoon-like weather prevailed through 15th; scattered showers, thunderstorms persisted. Weak stationary low pressure over Baja California circulated moisture into State. Weather conditions similar to summer monsoon, except rainfall amounts limited. Widely scattered showers, thunderstorms northwest 16th, mostly sunny skies elsewhere. Low pressure moved northward 16th, bringing drier air south. Rainfall amounts mostly 0.10 to 0.75 in., except under 0.10 in. extreme west. Many record high minimum temperatures set south. Average temperatures 2 to 11° above normal.

Cotton growing conditions excellent. Crop emerging well, 3% squared statewide, primarily in west. Very little replanted. Cultivation, post-emergence herbicides applied. Small grains 50% turned color, 80% 1986, 65% avg. Green color fading rapidly, grain approached maturity west. Lodging increased considerably. Some combined, harvest to gain momentum into June. Alfalfa excellent. Hay harvest continued, generally favorable curing conditions. Regrowth good for recently cut fields. Weed, insect damage light to moderate statewide. Third cutting west. Field corn growing rapidly. Spring lettuce harvest to begin 18th Willcox, movement anticipated heavy by 22nd. Spring lettuce deal complete elsewhere. Other vegetable shipments light. Carrots, greens shipped central valley. Valencia oranges, grapefruit movement winding down west, groves good. Harvest of peaches, apricots continued central area, peach harvest complete Yuma County. Grapes developing, sizing satisfactorily. Chipper potato harvest going well Queen Creek, gaining momentum.

Digging fresh potatoes Tolleson continued. Harvest chippers complete Yuma. Dry onion shipments heavy central valley. Watermelon movement Yuma County, central valley light.

ARKANSAS: Temperatures above normal with scattered showers. Temperature extremes 51°; 94°. Rainfall none to 2.58 in.

Days suitable for fieldwork 6.0. Rice 5% poor, 66% fair, 29% good. Emergence uneven, some replanting. Sorghum emergence 64%. Sorghum 15% poor, 51% fair, 34% good. Chinch bugs problem southeast. Oats 90% headed. Freeze, drought damage apparent in wheat. Corn 95% planted. Cotton 68% emerged. Cotton 13% poor, 36% fair, 47% good, 4% excellent. Some fields too wet to plant, some too dry. Major activities: Harvesting hay; controlling weeds, brush; preparing land; planting; flushing rice fields.

CALIFORNIA: Record setting hot spell looked like July in May. Central valley more than 12° above normal. Rainfall sparse, few mountain showers. Lakeport, incredible 17° above normal. Might be warmest this time of year, ever.

Rapid growth high temperatures. Wheat, barley, oats turned golden. Dryland grain dried up, poor quality. Rice emerged. Herbicide control applied. Cotton cultivated, thinned, irrigated. Mite control applied. Seed alfalfa bloomed. Alfalfa weevil buildup, controls applied. Apricot harvest active, San Joaquin Valley. Hass avocados picked, southern area. Early cherry harvest nearly complete, Bing cherry harvest underway. Cherry yields above normal despite heat. Coachella Valley grape harvest underway, superior seedless variety. All grapes developed rapidly due to heat. Growers accelerated irrigation in Sacramento Valley following early drop. Desert valley grapefruit harvest continued. Normal increased grade outs in navel oranges. Valencia harvest continued with good quality. Almonds treated for twig borer, limb breakage continued, heavy set. Artichokes moderate, good quality, Salinas. Production declining, Santa Cruz-San Mateo Coast. Asparagus light, Los Angeles-Orange County. Cutting nearly over Delta, San Joaquin Valley. Light amounts, green beans, Santa Cruz-San Mateo Coast, south coast. Strawberries being picked Sacramento Valley, Modesto-Turlock, west Riverside County. Good amounts freezing to plants Orange County. Caneberries nearly ready for harvest, Modesto-Turlock. Broccoli heavy, Salinas fairly heavy Santa Maria; good quality. Packing continued Fresno, Coachella Valley. Harvest completed, Modesto-Turlock. Carrot digging continued, Sacramento Valley, southern districts. Cauliflower fairly heavy Salinas, Santa Maria, good quality. Celery harvest active Oxnard, Orange-Riverside-Imperial-San Diego, good quality. Harvest started, light volume, good quality, Santa Maria-Oceano. Sweet corn harvest nearly full swing, Coachella Valley, good quality. Picking to begin soon, Los Angeles-Orange County. Fields, northern districts grow well. Lettuce fairly heavy Salinas, Santa Maria, variable quality. Light production, Orange County. Cantaloup growers San Joaquin Valley having bee colonies provide pollination. Melon planting continued, Merced-Atwater, earlier fields showing bloom. Melon planting completed, 30% emerged, Modesto-Turlock. Cantaloup harvest Palo Verde Valley should start, few weeks followed by honeydews, watermelons. Red, yellow onion digging continued, Fresno. Harvest active, Kings County, Coachella Valley. Freezer pea harvest progressed,

Gustine; finished, Modesto-Turlock. Picking began, Santa Cruz-San Mateo. Pepper planting continued, San Joaquin Valley. Harvest to start soon, Los Angeles-Orange County. Fall potato planting full swing, Tulalake-Butte Valley. Packing sheds continued to move 1986 crop full time. Some sweetpotato fields remained to be planted, Merced-Atwater. Planting of tomatoes for processing, fresh market continued Delta, Merced-Atwater. Planted fields progressed well, showing bloom. Fresh market, production started, south coast. Ranges continued dry. Fire hazard, number fires increased. Movement livestock summer pastures, feedlots, market, continued heavy. Stock ponds below normal or have dried up. Supplemental feeding generally light.

COLORADO: Temperatures 4 to 12° above normal. Showers, thunderstorms throughout week; trace to 2.00 in. east central area.

Days suitable for fieldwork 5.0. Soil moisture adequate. Small grains, livestock good. Corn emergence ahead of schedule. Alfalfa 1st cutting just began.

FLORIDA: Summer like weather with scattered mainly afternoon, evening thundershowers, few night, morning showers middle, lower Atlantic Coast. Above normal rainfall averaged 1.00 to 3.00 in. except northeast where only 0.50 to 1.00 in. occurred. Temperatures averaged near normal except 2 to 3° below normal northeast.

Scattered rain improved soil moisture many localities. Moisture supplies Panhandle varied from short east to surplus west; Peninsula mostly adequate. Cotton, peanut planting continued. Wheat harvest active. Corn, tobacco good. Pastures improved most areas. Grazing abundant central, south; fair north, Panhandle. Cattle fair to good. Ideal weather citrus areas. Rains, warm temperatures; irrigation reduced. New crop fruit grew well. Valencia harvest active all areas, grapefruit harvest slowed with supplies running low, caretakers busy with post bloom, early summer activities. Warm days mild nights vegetable producing areas. Scattered rain, some locally heavy, throughout week. Winds light to moderate. Harvest most spring acreage southern areas nearly complete. Volume leaders: Potatoes, tomatoes, sweet corn, cucumbers, peppers, celery. Good supplies cabbage, squash, snap beans, radishes, carrots, specialty lettuce. Movement Immokalee watermelons peaked, good supply available.

GEORGIA: Rain 3 to 5 days. Totals over 1.00 in. many locations, local amounts to 6.00 in. Totals near normal to 5.00 in. above normal. Main exception extreme northwest where totals mostly under 0.50 in., near 1.00 in. below normal. Average temperature 1 to 3° above normal. Highs upper 80s, lows low 50s mountains, low 60s elsewhere.

Days suitable for field work 4.4. Soil moisture 5% very short, 32% short, 56% adequate, 7% surplus. Corn 7% poor, 37% fair, 52% good, 4% excellent. Cotton 4% poor, 33% fair, 63% good. Sorghum grain 5% poor, 45% fair, 49% good, 1% excellent; 42% planted, 33% 1986, 40% avg. Peanuts 2% poor, 44% fair, 53% good, 1% excellent; 61% planted, 52% 1986, 77% avg. Soybeans 11% poor, 34% fair, 53% good, 2% excellent. Tobacco 45% fair, 53% good, 2% excellent. Watermelons 1% poor, 47% fair, 52% good; 97% planted, 98% 1986, 97% avg. Wheat 0% harvested, 6% 1986, 5% avg. Rye 6% poor, 64% fair, 29% good, 1% excellent. Other small grains 2% very poor, 62% fair, 35% good, 1% excellent. Apples 12% fair, 85% good, 3% excellent. Peaches 10% poor, 28% fair, 61% good, 1% excellent. Pasture 5% poor, 34% fair, 59% good, 2% excellent. Cattle 19% fair, 78% good, 3% excellent. Hogs 15% fair, 82% good, 3% excellent. Main activities: Planting where

moisture permits, spraying fruits, row crops, mowing, livestock and poultry care.

HAWAII: Mostly sunny with light to moderate showers. Daily record lows several days. Crop conditions improved; overall fair to good. Trade winds 5 to 20 mph. Temperatures ranged low 60s to mid 80s. Rainfall ranged none to 2.80 in.

Days suitable for fieldwork 7.0. Banana production steady. Papaya production increased. Chinese cabbage harvesting continued active. Watermelon production increased seasonally.

IDAHO: Above normal temperatures, departures as high as 15°. Scattered showers, precipitation well below normal.

Days suitable for fieldwork 6.7. Potatoes 90% planted, 42% 1986, 54% avg. Potatoes 19% emerged, 8% avg. Spring wheat 100% planted, 87% 1986, 87% avg. Spring wheat 99% emerged, 72% 1986, 68% avg.; 1% very poor, 5% poor, 23% fair, 66% good, 5% excellent. Winter wheat 7% poor, 10% fair, 71% good, 12% excellent. Activities: Early irrigation, potato planting, sugarbeet thinning.

ILLINOIS: Temperatures averaged 4 to 8° above normal. Precipitation 1.00 to 2.00 in. east central. Other areas less than 0.10 in.

Days suitable for fieldwork 6.5. Soil moisture 84% short, 15% adequate, 1% surplus. Corn 17% fair, 66% good, 17% excellent. Winter wheat 10% filled, 23% 1986, 9% avg. Oats 5% poor, 18% fair, 62% good, 15% excellent. Alfalfa 1st crop 25% cut, 13% 1986, 8% avg.; 23% fair, 68% good, 9% excellent. Clover 10% cut, 9% 1986, 5% avg.; 3% fair, 91% good, 6% excellent. Pasture 6% poor, 21% fair, 65% good, 8% excellent.

INDIANA: Temperatures 4 to 8° above normal. Lows in lower 40s, highs mid 80s to low 90s. Rainfall widespread 1.00 to 2.00 in. north and southwest, 0.50 to 0.75 in. elsewhere. Weekly evaporative losses 1.50 to 2.00 in. statewide.

Fieldwork averaged 5.9 days. Topsoil moisture 69% short, 31% adequate. Subsoil moisture 59% short, 41% adequate. Corn 70% emerged, 67% 1986, 35% avg. Soybeans 22% emerged, 17% 1986, 10% avg. Wheat 20 in. high, 19 in. 1986, 19 in. avg. Oats 9 in. high, 8 in. 1986, 6 in. avg. Alfalfa hay 15% cut once, 8% 1986, 5% avg. Tobacco plants 2% set, 2% avg. Pastures 9% poor, 57% fair, 34% good. Wheat mostly good. Soils dry.

IOWA: Warm dry week. Temperatures 6 to 10° above normal. Lows 38° 12th Mason City, Cresco. Highs 95° 11th Logan, Sioux City 13th. Precipitation spotty to moderate northern counties.

Days suitable for fieldwork 6.9. Topsoil moisture 97% short, 3% adequate; subsoil moisture 25% short, 75% adequate. Corn 100% planted, 74% 1986, 75% avg.; 70% emerged, 47% 1986, 32% avg. Soybeans 55% planted, 14% 1986, 17% avg.; 10% emerged, 4% 1986, 2% avg. Oats 5% poor, 19% fair, 66% good, 10% excellent. Winter wheat mostly fair to good. Hay 4% poor, 34% fair, 50% good, 12% excellent. Livestock good to excellent. Pasture 11% poor, 39% fair, 41% good, 9% excellent.

KANSAS: Temperatures averaged 71 to 75°, 10° above normal. Warmest reading 75° south central. Precipitation varied from 0.10 northwest to 1.17 in. southeast, most areas between 0.25 to 0.50 in.

Days suitable for fieldwork 5.5. Soil moisture 17% short, 78% adequate, 5% surplus. Warm weather prompted rapid wheat growth, some dryland stands central west started showing signs of moisture stress. Insects, disease levels normal for time of year. Corn planting rapid progress, emerged stands good to excellent. Some replanting necessary. Sorghum, soybean planting rapid progress, ahead schedule. Alfalfa hay 1st cutting 25% complete,

heavy insect infestation reduced prospects some localities. Range, pasture good to excellent abundant grazing.

KENTUCKY: Unseasonably warm dry weather. Average temperatures 5 to 10° above normal. Highs lower 80s. No general rainfall but isolated thunderstorms brought spotty precipitation. Most locations well below normal.

Days suitable for fieldwork 5.7. Soil moisture 33% very short, 59% short, 8% adequate. Corn planting advanced, 60% emerged. Soybeans behind 1986. Planting of corn, soybeans delayed in very dry areas. Tobacco 20% under 2 in., 46% 2 to 4 in., 34% 4 in. plus. Only 2% report shortage of plants. Burley crop 8% set, 6% 1986, 6% avg. Dark tobacco 10% set. Wheat 12% not headed, 88% headed and beyond. Crop 2% poor, 17% fair, 69% good, 12% excellent. Harvesting hay as bales, ensilage. Pastures 1% very poor, 8% poor, 41% fair, 43% good, 7% excellent.

LOUISIANA: Temperature normal to 3° above normal. Temperature extremes 58°; 91°. Rainfall averaged 0.28 to 2.91 in.

Days suitable for fieldwork 3.5. Soil moisture 22% short, 43% adequate, 35% surplus. Spring plowing 98% complete, 99% 1986, 95% avg. Corn fair to good; 99% planted, 100% 1986, 97% avg.; 95% emerged, 100% 1986, 95% avg.; 1% silked, 3% 1986, 3% avg. Cotton 77% planted, 93% 1986, 81% avg.; 59% emerged, 87% 1986, 67% avg. Rice 90% planted, 96% 1986, 89% avg.; 81% emerged, 93% 1986, 82% avg. Sorghum 61% planted, 91% 1986, 81% avg.; 45% emerged, 82% 1986, 70% avg. Soybeans 9% planted, 39% 1986, 25% avg.; 4% emerged, 24% 1986, 14% avg. Sweetpotatoes 15% planted, 43% 1986, 42% avg. Winter wheat fair; 98% headed, 100% 1986, 100% avg.; 80% turning color, 94% 1986, 78% avg. Hay 1st cutting 30%, 40% 1986, 34% avg. Sugarcane, vegetables, pastures, livestock fair to good. Main activities: Planting cotton, rice, sorghum, soybeans; applying fertilizer, herbicide; cutting hay.

MARYLAND & DELAWARE: **Maryland:** Temperatures averaged 66°, 62° normal; highest temperature 92°. Precipitation averaged 0.51 in., ranging from 1.16 in. College Park to 0.02 in. Snow Hill.

Days suitable for fieldwork 6.0. Topsoil moisture adequate. Subsoil moisture adequate. Acreage 90% prepared for planting, 90% avg. Wheat, oats, barley, rye good. Corn 75% planted, 75% avg. Sweet corn 60% planted, 75% normal. Alfalfa 10% cut.

Delaware: Temperatures averaged 65°, 63° normal. Precipitation averaged 0.87 in.

Days suitable for fieldwork 6.0. Topsoil moisture adequate. Subsoil moisture adequate. Acreage 90% prepared for planting, 95% avg. Wheat, barley, rye good. Corn 70% planted, 80% avg. Soybeans 10% planted, 10% avg. Sweet corn 70% planted, 70% avg. Potatoes 100% planted, 100% avg. Alfalfa 40% cut.

MICHIGAN: Temperatures ranged 5 to 8° above normal. Temperature extremes 27°; 86°. Precipitation ranged from none to 1.33 in. across State.

Days suitable for fieldwork 6.5. Soil moisture 85% short, 15% adequate. Corn 90% planted, 80% 1986, 65% avg. Potatoes 50% planted, 70% 1986, 60% avg. Soybeans 25% planted, 15% 1986, 15% avg. Wheat 5% very poor, 10% poor, 25% fair, 45% good, 15% excellent. Fruit development, vegetable planting ahead. Thinning apples, pears. Onion planting completed. Asparagus 45% harvested.

MINNESOTA: Temperatures averaged 5 to 12° above normal. Temperature extremes 28°; 98°.

Precipitation averaged 0.34 to 1.64 in. above normal northern third and southeast, 0.17 to 0.37 in. below normal elsewhere. Precipitation totals averaged 0.86 to 2.34 in. northern third and southeast, 0.31 to 0.56 in. elsewhere. Greatest weekly total 3.01 in.

Days suitable for fieldwork 6.2. Topsoil moisture 44% very short, 39% short, 17% adequate. Spring wheat 99% planted, 38% 1986, 75% avg.; 87% emerged, 22% 1986, 50% avg.; 5% jointing, none 1986, none avg. Oats 99% planted, 63% 1986, 84% avg.; 94% emerged, 47% 1986, 63% avg.; 7% jointing, none 1986, none avg. Barley 99% planted, 27% 1986, 69% avg.; 83% emerged, 12% 1986, 42% avg.; 3% jointing, none 1986, none avg. Corn 98% planted, 40% 1986, 56% avg.; 66% emerged, 7% 1986, 13% avg. Soybeans 88% land prepared, 20% 1986, 38% avg.; 58% planted, 5% 1986, 14% avg.; 10% emerged, none 1986, 1% avg. Sunflowers 74% planted, 1% 1986, 13% avg. Flax 75% planted, 3% 1986, 22% avg. Dry edible beans 59% planted, 4% 1986, 11% avg. Potatoes 85% planted, 17% 1986, 36% avg. Green peas 90% planted, 63% 1986, 66% avg. Sweet corn 69% planted, 27% 1986, 32% avg. Field corn 3% very poor, 4% poor, 47% fair, 45% good, 1% excellent. Spring wheat 4% very poor, 7% poor, 54% fair, 32% good, 3% excellent.

MISSISSIPPI: Temperatures 2 to 4° above normal; extremes 56°; 90°. Warm wet weather across State. Rainfall averaged 4 days. Greatest 24-hour total rainfall 3.63 in.

Days suitable for fieldwork 3.2, 4.2 1986, 4.6 avg. Soil moisture 3% very short, 7% short, 45% adequate, 40% surplus, 5% excessive. Corn 98% planted, 94% 1986, 90% avg.; 88% emerged, 86% 1986, 72% avg.; 42% fair, 54 good, 4% excellent. Wheat 8% mature, 20% 1986, 12% avg.; 4% very poor, 4% poor, 41% fair, 48% good, 3% excellent. Sweetpotatoes 44% planted, 43% 1986, 32% avg. Peanuts 53% planted, 55% 1986, 48% avg. Watermelons 86% planted, 74% 1986, 78% avg. Hay 18% harvested, 18% 1986, 16% avg. Hay, feed supplies adequate. Rice 90% planted, 99% 1986, 85% avg.; 75% emerged, 96% 1986, 62% avg.; 7% poor, 40% fair, 53% good. Sorghum 66% planted, 77% 1986, 51% avg.; 51% emerged, 66% 1986; 1% poor, 35% fair, 64% good. Cotton 80% planted, 93% 1986, 81% avg.; 59% emerged, 85% 1986, 51% avg.; 12% poor, 43% fair, 35% good. Soybeans 14% planted, 21% 1986, 18% avg.; 5% emerged, 11% 1986; 21% poor, 38% fair, 41% good.

MISSOURI: Temperatures 5 to 9° above normal. Rainfall spotty, less than 0.50 in. No rain northern half.

Days suitable for fieldwork 6.2. Topsoil moisture 73% short, 25% adequate, 2% surplus. Tillage for spring-planted crops 95%, 95% 1986, 85% avg. First cutting alfalfa 33%, 20% 1986, 14% avg. Other hay 14% harvested, 7% 1986. Pasture 2% very poor, 14% poor, 62% fair, 22% good.

MONTANA: Temperatures 7 to 15° above normal. Rain mostly weeks end. South up to 0.50 in.

Days suitable for fieldwork 6.9. Topsoil moisture 90% short, 10% adequate. Subsoil moisture 35% short, 65% adequate. Barley 94% planted, 82% 1986, 87% avg.; 80% emerged. Oats 88% planted, 80% 1986, 72% avg.; 72% emerged. Corn 88% planted, 80% 1986, 72% avg. Sugarbeets 96% planted, 96% 1986, 87% avg.; 74% emerged. Potatoes 84% planted, 47% 1986, 37% avg. Dry beans 52% planted, 32% 1986, 50% avg. Cattle, calves 67% moved to summer ranges, 52% 1986, 52% avg. Sheep, lambs 70% moved to summer ranges. Hay, grass growth 23% slow, 36% avg., 41% above avg.

NEBRASKA: Mostly warm, dry conditions. Scattered showers midweek, night of 17th. Precipitation ranged 0.50 to 1.00 in. southwest and south

central. Temperature ranged 9 to 12° above normal. Extremes 45°-95°.

Days suitable for fieldwork 6.5. Topsoil moisture 50% short, 50% adequate. Subsoil moisture 5% short, 80% adequate, 11% surplus. Wheat 95% jointed, 92% 1986, 70% avg. Russian aphids still problem west. Corn 48% emerged, 42% 1986, 22% avg. Soybean, sorghum planting continued, many eastern growers waiting for improved topsoil moisture. Alfalfa mostly good. Weevils problem as 1st cutting began. Wild hay fair to good. Range, pasture feeds adequate to surplus. More cattle moved to summer grass.

NEVADA: Period began with thunderstorms all areas. Precipitation confined to central, southern sections midweek. Sub-tropical moisture from south spread all areas end of period. Locally heavy showers, some flooding roads northwest, northeast. Temperatures averaged above normal all areas.

Planting spring crops slightly behind 1986, normal. Plant emergence also behind schedule. Recent rains beneficial range areas.

NEW ENGLAND: Precipitation averaged 0.25 to 0.50 in. north, less than 0.25 in. south. Average temperatures ranged from 50s near Canadian border to 60s south.

Days suitable for fieldwork 6.0. Soil moisture 31% short, 53% adequate, 16% surplus. Grazing availability 36% short, 64% adequate. Fieldwork 1.0 day ahead of schedule north, 6.0 days behind schedule south. Maine potatoes 40% planted, 55% 1986, 29% avg. Connecticut river valley potatoes 68% planted, 80% 1986, 66% avg. Rhode Island potatoes 70% planted, 70% 1986, 77% avg. Field corn 26% planted, 35% 1986, 29% avg.; 18% emerged, 23% 1986, 11% avg. Sweet corn 35% planted. Hay growth good. Major farm activities: Fertilizing, planting, plowing, spreading manure, and fixing fences.

NEW JERSEY: Temperatures averaged near normal. Extremes 30°; 90°. Rainfall averaged 0.24 in. north, 0.23 in. central, 0.40 in. south. Heaviest 24-hour total 0.46 in. Estimated soil moisture percent field capacity averaged 84% north, 74% central, 72% south. Four inch soil temperatures averaged 59° north, 61° central, 63° south.

Field activity advanced at full pace. Warm weather continued to increase crop growth. Lettuce harvest increased. Asparagus volume peaked. Planting of summer vegetables continued. Peaches, strawberries sized. Blueberry, grape bloom continued. Field corn planting active. Soil preparation soybeans general. Alfalfa hay cut.

NEW MEXICO: Average temperatures 31° northern, western mountains to 93° southeastern plains. Showers, thundershowers reported virtually all stations.

Days suitable for fieldwork 6.6. Soil moisture 53% short, 41% adequate, 6% surplus. Virtually no damage from weather. Alfalfa 47% fair, 53% good. Cotton 57% fair, 43% good, planting nearly complete except northern growing area. Corn 20% fair, 80% good. Barley 14% fair, 86% good. Sorghum planting underway some localities. Pecans good to fair, setting nuts. Lettuce 25% fair, 75% good, picking limited due to poor market. Livestock, ranges mostly good.

NEW YORK: Temperatures averaged near to slightly above normal. Warmest beginning of week, coldest on 13th and 16th. Precipitation averaged below normal. Northern, western borders near or above normal. Most rain 12th, 14th.

Days suitable for fieldwork 6.5. Soil moisture short to adequate. Pastures fair to good. Corn 35% planted, 51% 1986, 35% avg. Oats 70% seeded, 88% 1986, 58% avg. Dry weather slowed growth of

wheat, hay, pastures. Apples late bloom to petal fall. Peach set good. Pear set erratic.

NORTH CAROLINA: Temperatures averaged very near normal across State. Temperature extremes 37°; 87° Precipitation ranged from 0.03 to 2.14 in. across State.

Days suitable for fieldwork 5.6. Soil moisture 1% very short, 25% short, 71% adequate, 3% surplus. Small grains fair to mostly good. Oats 1% poor, 12% fair, 81% good, 6% excellent. Barley 14% fair, 79% good, 7% excellent. Rye 11% fair, 83% good, 6% excellent. Irish potatoes 22% fair, 74% good, 4% excellent. Pasture fair to mostly good. Tobacco plantbeds 9% poor, 37% fair, 54% good. Tobacco plant supplies 29% short, 70% adequate, 1% surplus. Flue-cured tobacco 63% planted, 81% 1986, 79% avg. Tobacco in field 27% fair, 73% good. Peanuts 63% planted, 76% 1986, 69% avg. Sorghum 30% planted, 34% 1986, 36% avg. Sweetpotatoes 14% planted, 23% 1986, 20% avg. Corn 2% poor, 40% fair, 58% good. Cotton 6% poor, 44% fair, 50% good. Major farm activities: Planting corn; land preparation; transplanting sweetpotatoes, tobacco; tending livestock; transplanting Christmas trees, ornamentals; machinery repair, maintenance; planting truck crops, cotton, peanuts, sorghum, soybeans; making hay; fertilizer, chemical applications; cultivating corn; general farm maintenance.

NORTH DAKOTA: Widely scattered showers. Temperatures 14 to 16° above normal. Extremes 31° west central to 97° southeast. Light rain throughout State. Heaviest northwest 0.53 in.

Days suitable for fieldwork 6.4. Topsoil moisture replenished slightly, 18% very short, 55% short, 27% adequate. Subsoil 7% short, 93% adequate. Planting ahead of normal for all crops. Spring wheat 96%, 59% 1986, 67% avg.; durum 93%, 47% 1986, 54% avg.; oats 95%, 65% 1986, 64% avg.; barley 97%, 59% 1986, 70% avg.; corn 63%, 18% 1986, 28% avg.; flax 44%, 13% 1986, 23% avg.; soybeans 37%, 4% 1986, 19% avg.; potatoes 78%, 22% 1986, 36% avg.; sunflower 21%, 1% 1986, 6% avg.; dry edible beans 25%, 3% 1986, 9% avg.; winter wheat 26% emerged through stooling, 50% jointing, 24% boot and beyond; spring wheat 73% emerged, durum 61%, oats 68%, barley 76%. Pastures mostly fair to good.

OHIO: Average temperatures 2 to 5° above normal. Lows mid to upper 30s; highs upper 80s. Rain variable, mostly 0.10 to 0.75 in., few locations over 1.00 in.

Fieldwork 6.5 days suitable. Soil moisture 50% short, 48% adequate, 2% surplus. Rains 14th aided germination but caused crusting when soils dry. Activities included planting, spraying, haying. Corn 45% emerged, 55% 1986. Herbicides need rain to activate. Some cutworms spotted. Soybeans 15% emerged, 15% 1986. Winter wheat good. Hay harvesting underway; some cut to control alfalfa weevil. Grasslands good.

OKLAHOMA: Temperatures averaged 6° above normal southeast to 10° above normal northeast. Precipitation averaged none north central, central, southwest to 0.79 in. southeast.

Days suitable for fieldwork 6.4. Topsoil moisture 75% short, 22% adequate, 3% surplus. Subsoil moisture 35% short, 65% adequate. Wheat 1% poor, 50% fair, 49% good; 90% heading, 98% 1986, 85% avg.; 35% soft dough, 75% 1986, 20% avg. Rain needed to improve filling of heads. Dry weather caused some wheat to turn brown. Continued dryness moved harvest ahead of earlier projections. Sorghum 10% planted, 20% 1986, 15% avg. Cotton 10% planted, 25% 1986, 15% avg. Dry weather hindered planting, seed germination. Pastures good to fair. Livestock good, marketings increased.

OREGON: Temperatures above normal across State, extending warm spring. Coast 4 to 7° above normal, remainder State 6 to 11° above normal. Precipitation varied. North coast over 1.00 in., upper Willamette Valley nearly 0.50 in. East of Cascades thunderstorms heavier than normal rainfall. Amounts varied 0.33 to 0.88 in. Malheur County under flash flood warnings 15th.

Soil moisture 46% short, 54% adequate. Barley 96% seeded, 98% 1986, 98% 1985. Crop development up to 3 weeks ahead of normal. Despite some rain, cooler weather, soils continued to dry out, moisture stress mainly shallowest soils. Spring grain seeding essentially complete except high desert, southeast Klamath Basin. Winter wheat shows some rust, septoria Willamette Valley. Ryegrass, bluegrass began pollinating, also shows some rust west. First alfalfa cuttings ahead of normal across State, heavy weevil populations much of east; alfalfa baled Medford, Hermiston. Strawberries irrigated, early berries started to turn red west. Caneberry bloom continued, pesticides sprayed. Tree fruit thinning, spraying continued west. Pear crop progressed well, bartlett harvest to begin early Medford. Cover sprays Hood River orchards began sooner than normal. Hybrid cranberry varieties 20% bloomed; disease, pest control important due to warm, humid weather south coast. Potato planting continued central area, Klamath Basin; 70% emerged Malheur County. Some heat damage onions Willamette Valley. Good onion crop Medford, fields sprayed for thrips Milton-Freewater. Onion stands mostly good, some thinned by hail 3 weeks ago Malheur County. Processing vegetable crops good, irrigated west. Seeded summer squash for processing Milton-Freewater. Livestock good to excellent. Range, pasture mostly good, lower eastern ranges drying rapidly. Recent rains improved conditions. Producers continued haul water livestock southeast. Perennial grass seeding continued due to CRP programs, northeast.

PENNSYLVANIA: Warm, dry week. Precipitation on 12th, 15th. Average temperature 61°, 4° above normal. Temperature extremes 32°, 88°. Average precipitation 0.44 in., 0.38 in. below normal.

Days suitable for fieldwork 6.0. Soil moisture 30% short, 68% adequate, 2% surplus. Plowing 90% complete, 91% 1986, 81% avg. Corn 59% planted, 66% 1986, 50% avg. Potatoes 80% planted, 82% 1986, 72% avg. Oats 96% planted, 98% 1986, 90% avg. Soybeans 28% planted, 31% 1986, 17% avg. Barley 32% pre-boot, 26% 1986; 18% boot, 34% 1986; 50% headed, 40% 1986. Wheat 57% pre-boot, 64% 1986; 36% boot, 34% 1986; 7% headed, 2% 1986. Wheat 2% poor, 24% fair, 57% good, 17% excellent. Oats 1% poor, 23% fair, 57% good, 19% excellent. Hay stands mostly good to fair. Feed from pastures mostly average to below average. Peaches 1% pink, 2% 1986; 99% full bloom or past, 98% 1986. Cherries 2% pink; 98% full bloom or past, 100% 1986. Apples 3% pre-pink; 9% pink, 1% 1986; 88% full bloom or past, 99% 1986. Activities: Planting corn, potatoes, oats, soybeans; spring plowing; fence repair; hauling manure; spreading fertilizer; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 1.31 in., 0.20 in. below normal. Highest weekly total rainfall 4.39 in. Rio Blanco LWR followed by 4.25 in. Pico Del Este-Luquillo, 3.33 in. Arecibo OBS. Highest 24-hour total 1.98 in. Isabela AES. Divisional temperature averaged about 80° on coasts, 74 to 77° interior with mean station temperature ranging from 66° Pico Del Este-Luquillo to 82° Roosevelt Roads. Lowest minimum 59° San Sebastian, highest maximum temperature 94° San Sebastian.

SOUTH CAROLINA: Scattered showers most areas. Weekend sunny, warmer. Precipitation 0.50 to 1.00 in.

Days suitable for fieldwork 5.2. Soil moisture 3% very short, 50% short, 47% adequate. Favorable weather for fieldwork. Tobacco fair to good; 98% planted, 99% 1986, 95% avg. Cotton fair to good; 88% planted, 92% 1986, 90% avg. Peanuts good; 73% planted, 58% 1986, 74% avg. Small grains good. Tomatoes good. Peaches fair to good. Pastures good. Excellent hay yields.

SOUTH DAKOTA: Average temperatures ranged 10 to 16° above normal. Extremes 36°, 96°. Black Hills low 31°.

Days suitable for fieldwork 6.2. Topsoil moisture supplies critical north central, west; adequate central, short elsewhere; 14% critical, 68% short, 17% adequate, 1% surplus. Small grain seeding completed, corn planting neared completion. Soybean, sorghum planting underway. Many areas working summer fallow ground. Moisture stress on crops. Tan spots on winter wheat. Major livestock activity branding, fixing fence. Calving 91%, lambing 94% complete. Corn planting over 2 weeks ahead of normal. Livestock good to excellent. Range, pastures fair to good. Pastures need rain. Feed, stock water adequate to surplus.

TENNESSEE: Scattered thunder shower activity west early, statewide late. Precipitation 0.50 to 1.00 in. below normal. Temperatures averaged 3 to 10° above normal. Lowest mid 50s, highest 80s.

Days suitable for fieldwork 6.0. Soil moisture 47% very short, 42% short, 11% adequate. Rainfall needed germination, herbicides, pastures, small grains, tobacco transplanting. Corn 87% planted, 90% 1986, 70% avg. Corn 15% poor, 59% fair, 26% good. Tobacco 12% transplanted, 15% 1986, 20% avg. Wheat 97% headed, 94% 1986, 86% avg. Wheat 12% turning color, 40% 1986, 15% avg. Wheat 1% very poor, 16% poor, 46% fair, 35% good, 2% excellent. Alfalfa 1st cutting 60%, 60% 1986, 50% avg. Alfalfa 1% very poor, 21% poor, 46% fair, 31% good, 1% excellent. Cattle mostly good. Pastures 12% poor, 57% fair, 30% good, 1% excellent.

TEXAS: Warm, humid weather. Little rain noted. Rain 16th over northern two-thirds State, except Panhandle. Return dry weather 17th, isolated showers. Temperatures above normal; Lower Valley averaged 1° below normal. Precipitation below normal. Few areas east above normal rainfall.

Crops: Corn planting winding down High Plains. Most fields off to good start. Fields improved Blacklands. Cultivation continued. Limited cultivating Central. Early planted fields tasseling Coastal Bend, Rio Grande Valley. Growth good. Rain boosted condition. Corn 4% silked, 26% 1986, 18% avg. Grain sorghum planting increased Plains. Planted fields received moisture Low Plains. Some spraying, cultivating occurred Blacklands. Scattered heavy rains washed replanted fields Hill County. Fields Central, South, Upper Coast should improve. Some fields heading Rio Grande Valley. Sorghum 2% headed, 22% 1986, 12% avg. None turning color, 1% 1986, none avg. Dryland cotton planting Plains. Many producers dry planting. Planting irrigated fields continued. Fields began squaring from Blacklands, Valley. Planting continued Trans-Pecos. Condition Central, East, Southern should improve with rain. Cotton 2% squaring, 7% 1986, 5% avg. Small grains benefited from scattered rain. Some fields began heading Plains. Dryland fields stressed for moisture. Many fields Low Plains, South turned color, some harvesting Central, South. Rain limited progress. Fields Blacklands suffered armyworm infestations. Wheat 26% turning color, 60% 1986, 34% avg.; none harvested, 5% 1986, 2% avg. Rice planting completed. Good rain Upper Coast decreased heavy

flushing. Soybean planting slowed by rain. Good moisture conditions exist. Peanut planting increased South. Planting increased Plains, Cross-Timbers. Sugarbeet planting completed. Beets being watered. Other crops harvested: Oats 9%, 5% 1986, 6% avg. Other crops planted: Peanuts 18%, 19% 1986, 16% avg. Soybeans 29%, 34% 1986, 14% avg. Sugarbeets 100%, 100% 1986, 100% avg. Sunflowers 5%, 26% 1986; 17% avg.

Commercial Vegetables: Rio Grande Valley, onion cabbage harvest limited. Melons neared maturity; disease problems showed up. Peppers showed signs disease. San Antonio-Winter Garden, watermelons good growth. Early fields bloomed. Onion harvest slow to begin. Trans-Pecos onions, tomatoes good progress. Chili progress slowed by cold weather, now coming on. East harvest limited wet weather on onions, cabbage, greens. Sweetpotato planting slowed. High Plains, irrigated steady potatoes, onions. Progress good. Planting carrots other vegetables continued. Some thrips spraying on onions. Pecans blooming many northern areas good crop Central, Southern, Eastern. Spraying casebearer soon.

Range and Pasture: Range pasture conditions should improve many areas due good rainfall. Fertilization increased East. First cutting alfalfa underway Trans-Pecos. Livestock conditions continued to improve. Market remained strong. Shearing sheep, goats continued Hill Country.

UTAH: Precipitation light. Temperature 7 to 11° above normal.

Days suitable fieldwork 6.8. Soil moisture 86% short, 14% adequate. Spring wheat 95% emerged, 91% 1986, 71% avg. Barley 92% emerged, 88% 1986, 69% avg. Oats 80% emerged, 68% 1986, 45% avg. Corn 80% planted, 48% 1986, 36% avg.; 51% emerged, 1% 1986, 16% avg. Winter wheat well into boot stage, 13 in. high. Alfalfa 12 in. high, 1st cutting began central, well along south. Vegetable planting well along. Sweet cherries sparse, other fruit good. Lower elevation ranges dry. Livestock movement to summer range continued. Insect problems: Alfalfa weevil, grain mites general, grasshoppers light. Major farm activities: Irrigation, spraying fruit, alfalfa, cutting alfalfa, cultivation, moved livestock.

VIRGINIA: Some scattered showers, but generally dry, warm. Rainfall averaged 0.20 in. Temperatures averaged 1° above normal, range 34 to 89°.

Days suitable for fieldwork 4.7. Topsoil moisture 16% short, 78% adequate, 6% surplus. Corn good; 72% planted, 84% 1986, 83% avg.; some replanting. Soybeans 10% planted, 14% 1986, 21% avg. Peanuts 88% planted, 99% 1986, 95% avg. Sprayed herbicides. Tobacco plants late. Flue-cured tobacco transplanting 14% complete, 54% 1986, 54% avg. Burley tobacco transplanting 2% complete, 5% 1986, 11% avg. Wheat excellent, cereal leaf beetles some areas, some spraying. Harvested rye silage. Fruit crop heavy, thinning needed. Potatoes good, sprayed for Colorado potato beetle.

Hay, pastures excellent. Cut hay, some poor stands due to last year's weather. Sheared sheep.

WASHINGTON: Warm temperatures statewide; reports averaged 5 to 13° above normal. Average precipitation below normal.

Soil moisture 30% short, 70% adequate. Crop progress good. Winter wheat 5% headed, 1% 1986, 3% avg. Dry beans 30% planted. Summer fallow preparation in progress. Fruit trees finished flowering. Cover spray application, thinning full swing. Alfalfa, 1st cutting in progress. Asparagus cutting continued. Livestock moved to ranges.

WEST VIRGINIA: Average temperature 64°, 1 to 5° above normal. Extremes 34° Clarksburg, Greenbank, Romney; 93° Romney. Precipitation averaged 0.49 in.; 0.18 in. above normal southwest, 0.16 in. to 0.63 in. below elsewhere.

Days suitable for fieldwork 5.1. Soil moisture 7% very short, 42% short, 51% adequate. Wheat, barley, oats mostly good. Oats 93% planted. Corn 42% planted. Tobacco beds fair, 100% seeded, 95% emerged. Hay, pasture fair to good. Feed supplies adequate to short. Farm activities: Gardening, farm maintenance, corn planting.

WISCONSIN: Temperatures averaged 61°, 4° above normal. Extremes 26°; 94°. Rainfall 0.30 to 1.20 in. North still dry.

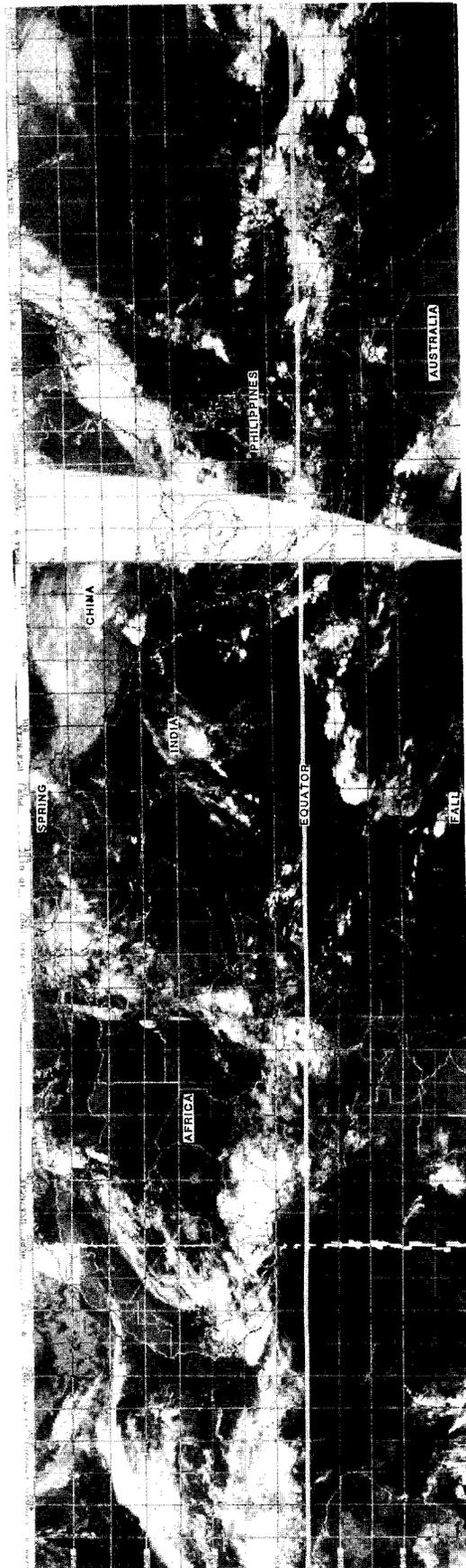
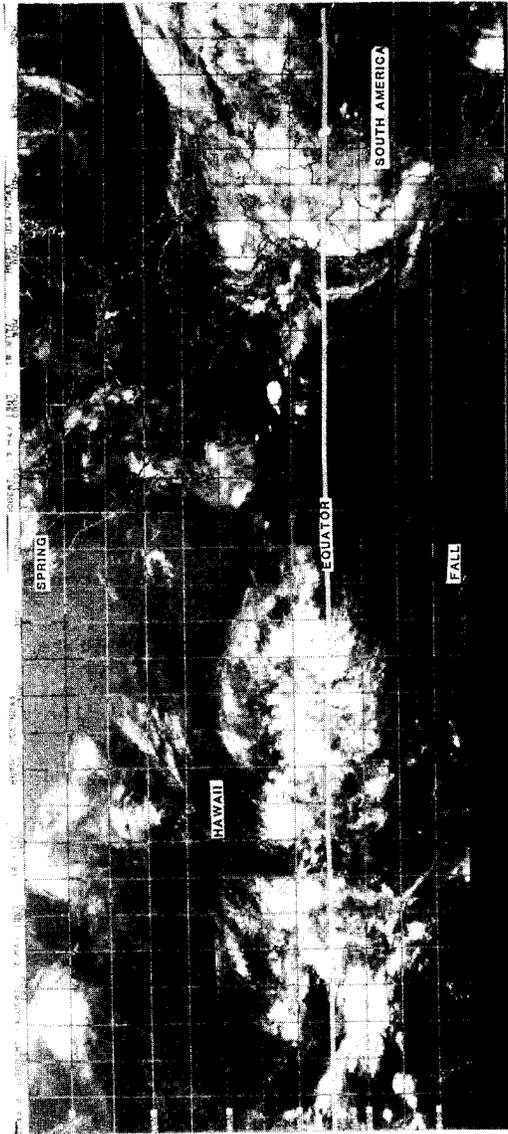
Days suitable for fieldwork 5.8. Soil moisture 53% short, 46% adequate, 1% surplus. Spring plowing 93% complete, 81% 1986, 75% avg. Corn 80% planted, 59% 1986, 49% avg. Corn up, good. Soybeans 25% planted, 16% 1986, 13% avg. Oats 97% planted, 91% 1986, 87% avg. Oats slow north, central; good south. Hay slow growing north central; good south. Alfalfa weevil spotted central, south. Pastures slow. Winter wheat very good. Potatoes, peas, sweet corn up, good. Onions planted.

WYOMING: Temperatures above normal. All areas below normal precipitation.

Days suitable for fieldwork 7.0. Topsoil moisture 62% short, 38% adequate. Subsoil moisture 48% short, 52% adequate. Spring wheat 90% planted, 90% 1986, 80% avg.; 70% emerged, 60% 1986, 55% avg. Oats 80% planted, 80% 1986, 75% avg.; 55% emerged, 50% 1986, 45% avg. Barley 95% planted, 90% 1986, 85% avg.; 80% emerged, 70% 1986, 65% avg. Sugarbeets 75% emerged, 60% 1986, 50% avg. Corn 60% planted, 45% 1986, 55% avg.; 20% emerged, 5% 1986, 10% avg. Potatoes 65% planted, 40% 1986, 40% avg.; 40% emerged, 5% 1986. Dry beans 25% planted, 5% 1986, 10% avg.; 5% emerged. Winter wheat fair to good. Russian aphid infestations reported southeastern areas. Livestock good to excellent. Calves 95% born, 95% 1986; losses light to normal. Farm flock: Most ewes lambed; 95% shorn, 90% 1986. Range flock: Ewes 75% lambed, 70% 1986, 75% avg.; 85% shorn, 85% 1986, 85% avg. Lamb losses light to normal. Ranges, pastures fair to good. Spring grazing prospects fair to good.

Global Weather Satellite Image

MAY 17, 1987



International Weather and Crop Summary

May 10-16, 1987

HIGHLIGHTS:

UNITED STATES ... Inadequate moisture hampers crop growth and seeding throughout much of the eastern half of the Nation. Wheat and small grains show signs of moisture stress in the Great Plains and along the west coast. Seeding continues its rapid pace.

WESTERN U.S.S.R. ... Varying amounts of precipitation cover the region. Weather conditions overall are mostly favorable for increased planting.

NEW LANDS ... Unseasonable warm, dry weather helps to dry topsoils, allowing fieldwork.

CANADA ... Light showers and warm weather continue to limit topsoil moisture for newly sown crops but favor planting.

EUROPE ... Widespread showers favor crop growth in the north but cause further summer crop planting delays in the southeast.

SOUTH ASIA ... Wet weather continues in the northern wheat areas, damaging some unharvested grain.

SOUTHEAST ASIA ... Moderate-to-heavy showers benefit emerging corn and rice in Thailand. Showers increase in the northern Philippines, but mostly dry weather persists to the south.

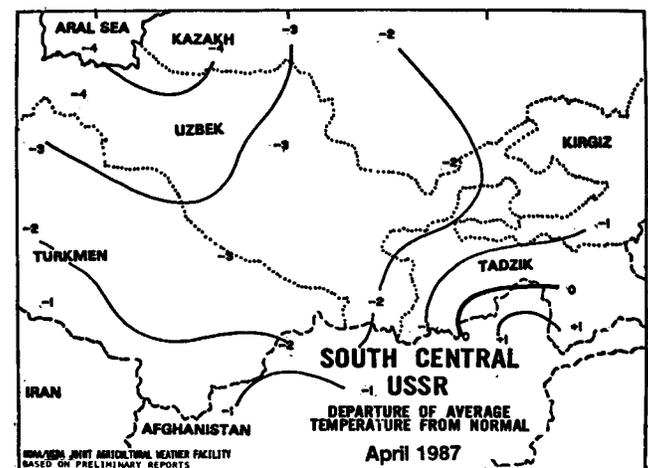
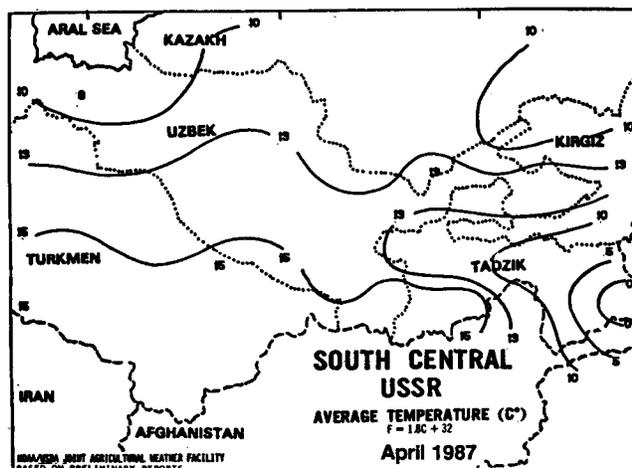
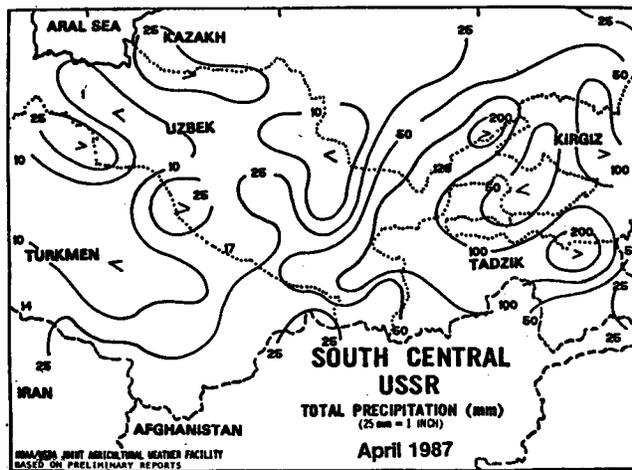
EASTERN ASIA ... Minimal rain stresses nonirrigated crops in the North China Plain. Moderate-to-heavy rain over the southern half of China benefits rice.

SOUTH AMERICA ... Dry weather favors Argentina's crop harvest, but more rain hampers southern Brazil's late soybean harvest.

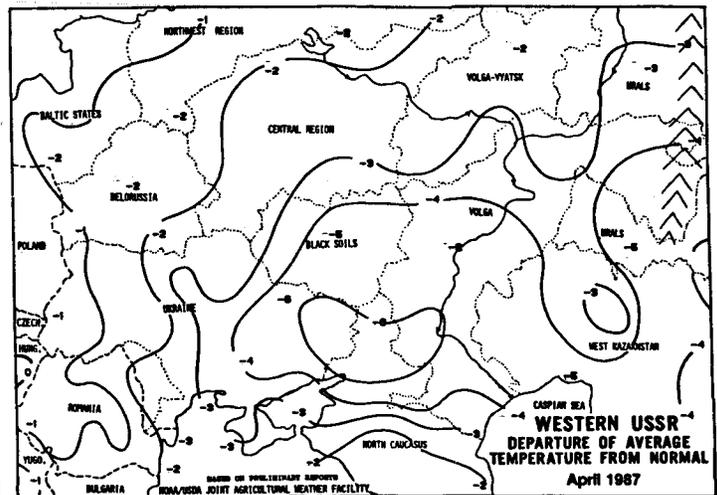
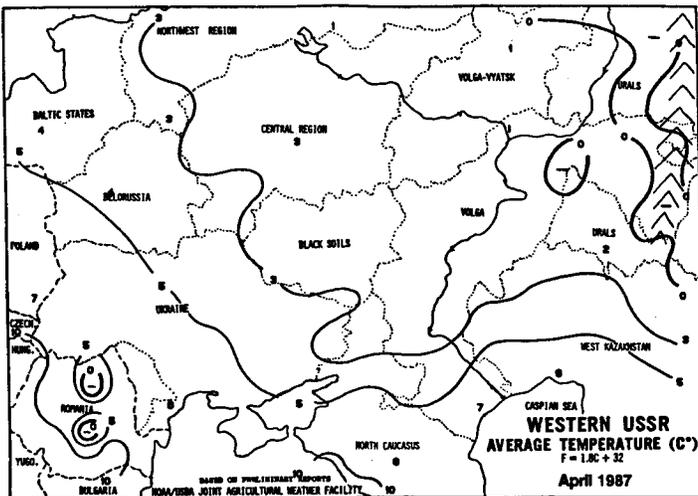
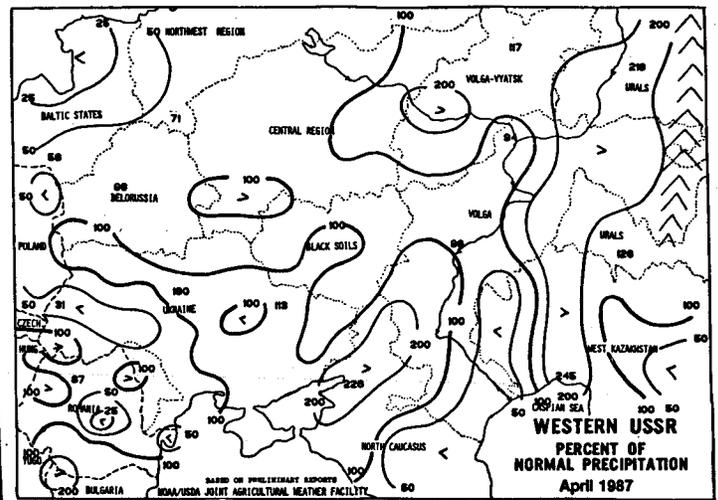
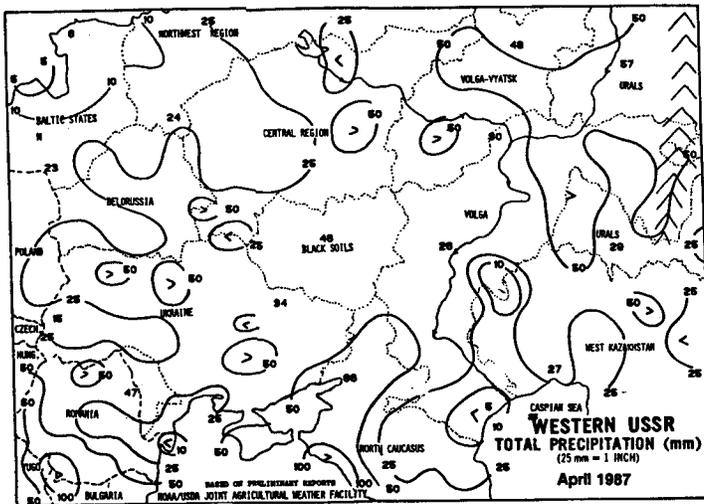
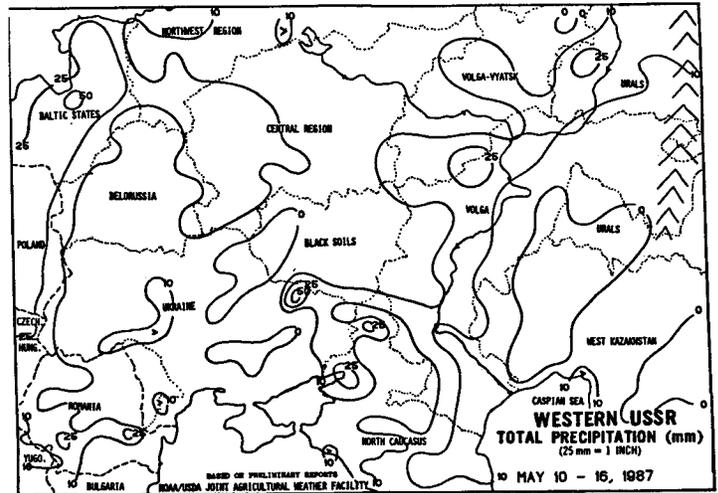
AUSTRALIA ... Showers throughout the wheat belt improve soil conditions for planting and emergence.

MEXICO ... Showers benefit emerging corn in the eastern half of the Southern Plateau. Dry weather covers the north-central cotton areas as showers return to the northeast.

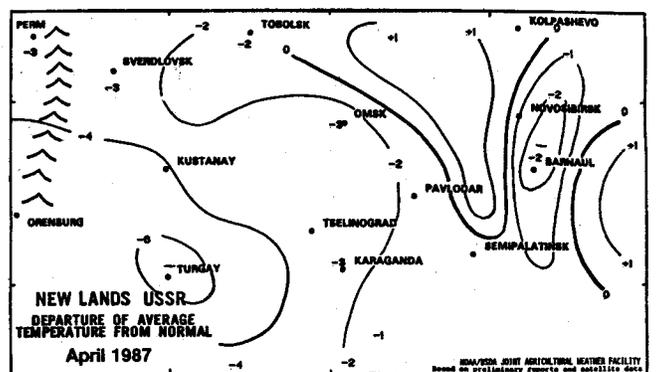
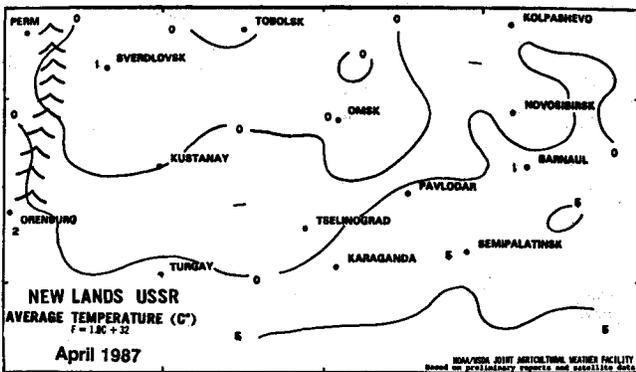
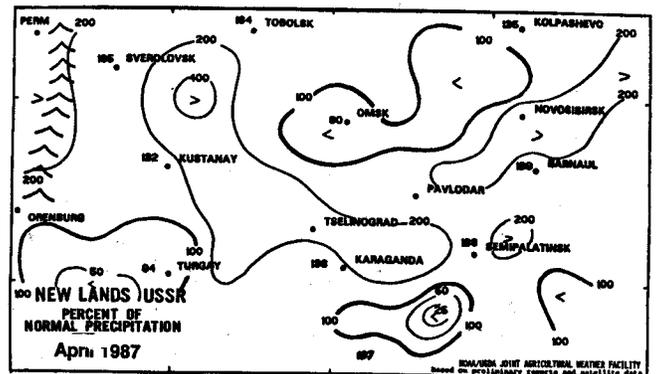
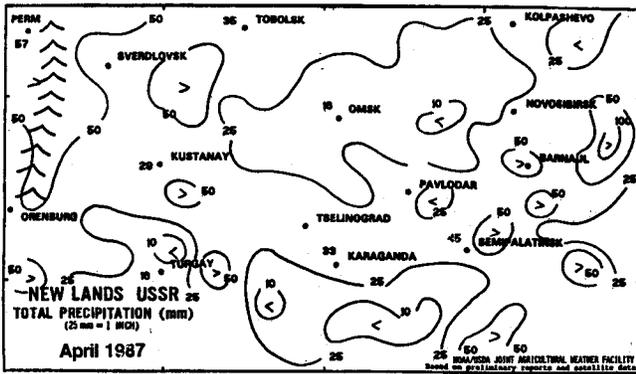
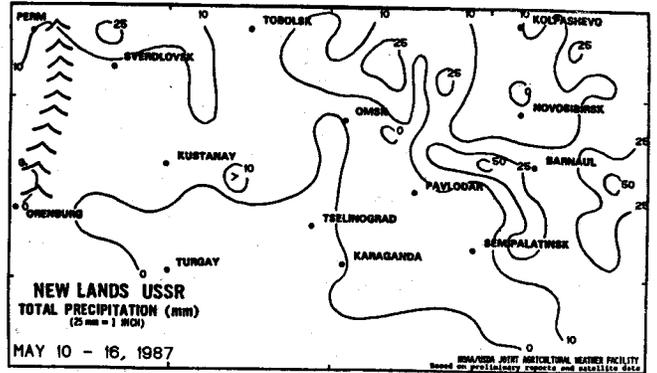
NORTHWESTERN AFRICA ... Generally dry weather helps harvesting.



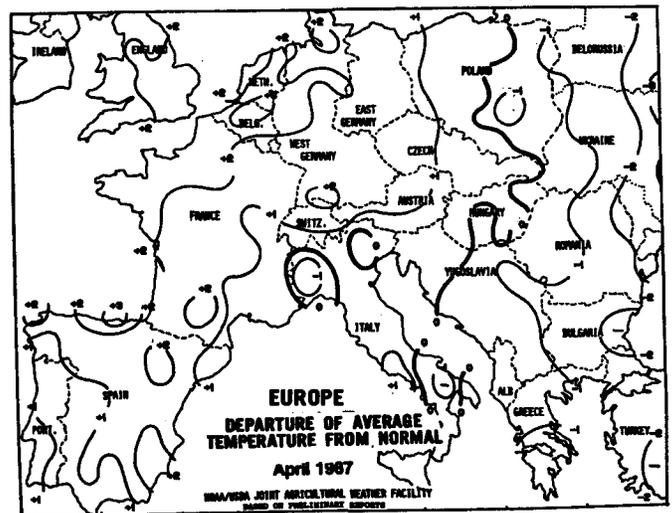
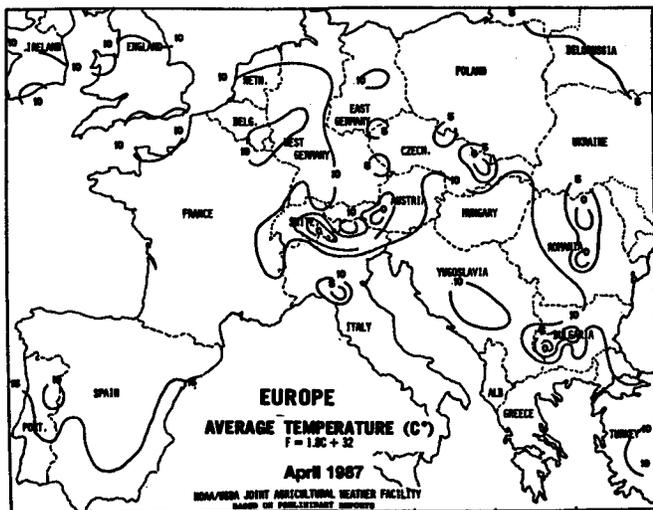
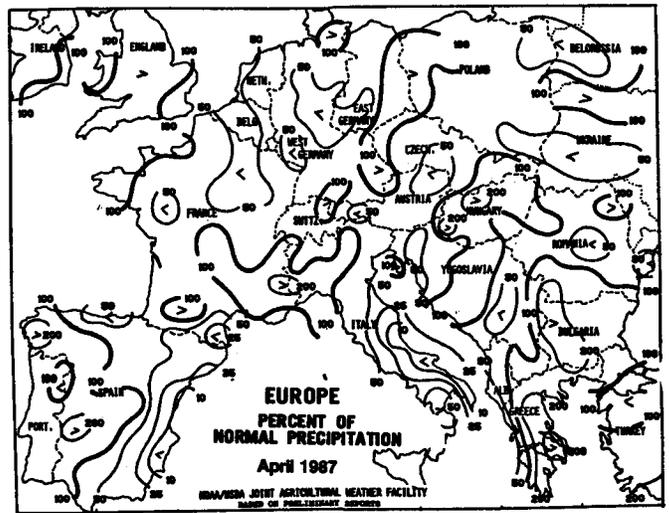
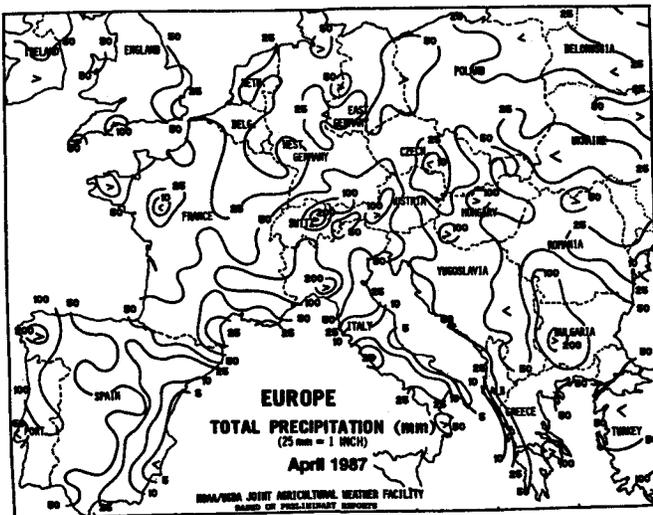
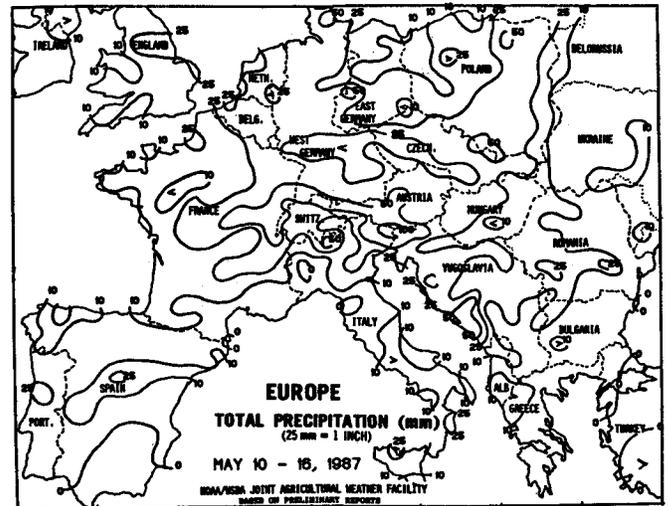
WESTERN U.S.S.R. ... Light-to-moderate showers (10 to 50mm) over the eastern Ukraine, northern North Caucasus, Volga, and the Baltic States may have caused planting delays. Mostly dry weather favored planting in the western and central Ukraine, Belorussia, central North Caucasus, and the Black Soils Region. Above-normal April precipitation continued to increase moisture reserves in the eastern Ukraine, southern Ukraine, North Caucasus, and parts of the lower Volga. Precipitation continued below normal in parts of the western Ukraine and Central Region. Persistent cold, wet weather during April caused significant spring planting delays. In addition, winter grains broke dormancy in the south about 2 to 3 weeks later than usual. Temperatures last week were near to above normal, enhancing vegetative growth. In the south, near- to below-normal temperatures slowed winter wheat growth.



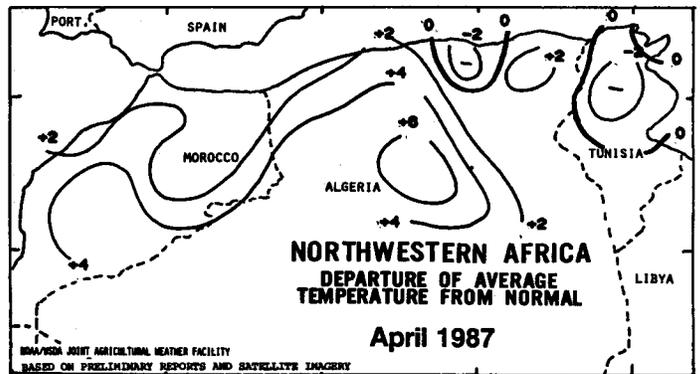
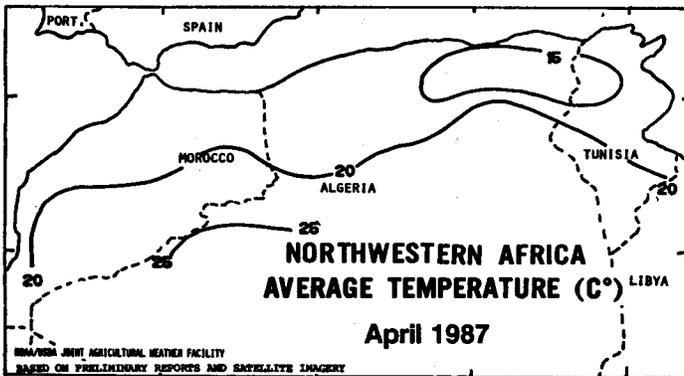
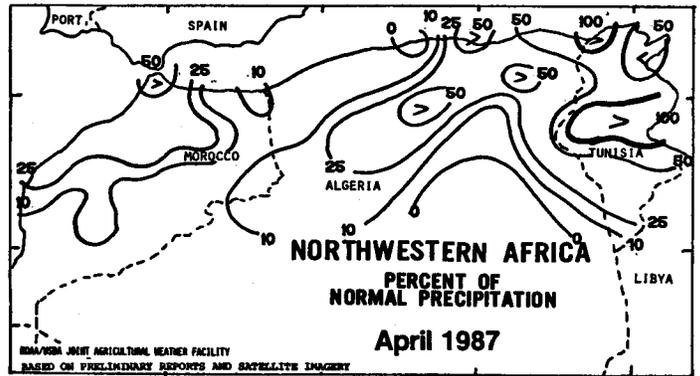
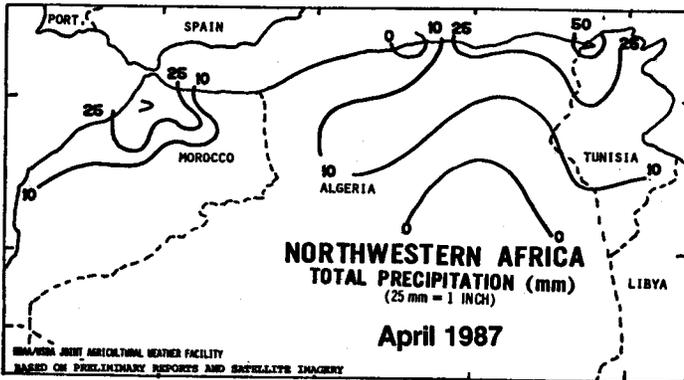
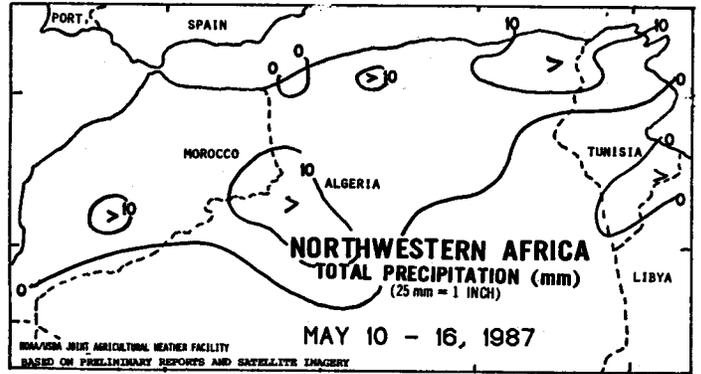
NEW LANDS ... Spring crop planting usually begins in mid-May. Above-normal winter precipitation and an unseasonable cold, wet April likely provided good, early season moisture for spring crops. Last week, unseasonably warm, dry weather spread eastward across the region, helping to dry topsoils for planting. Weekly average temperatures were 5 to 6 degrees C above normal, and extreme maximum temperatures reached 24 to 31 degrees C at most locations. By week's end, cooler weather spread eastward across the region, and moderate rain (25 to 50mm) fell over eastern crop areas.



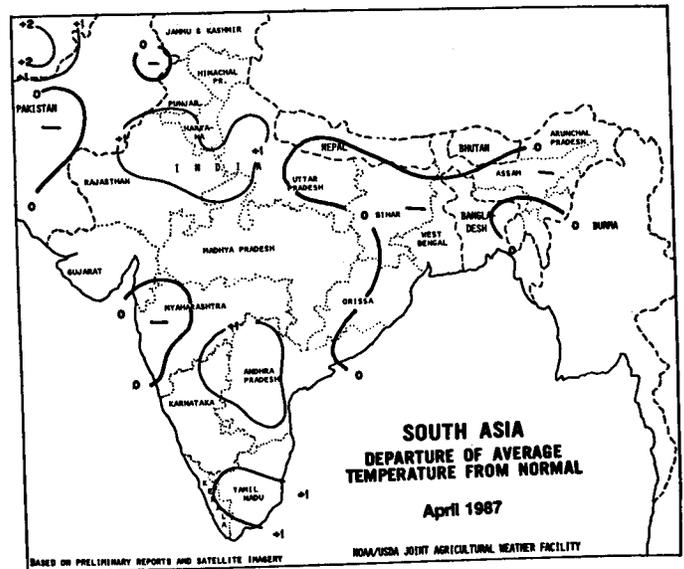
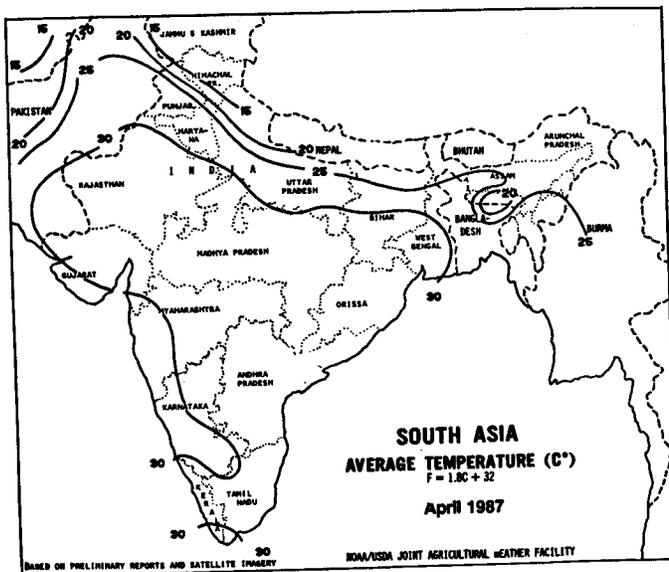
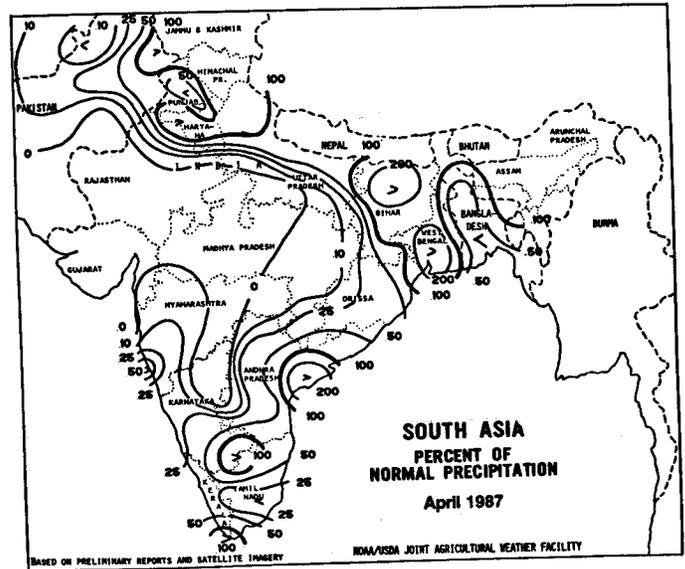
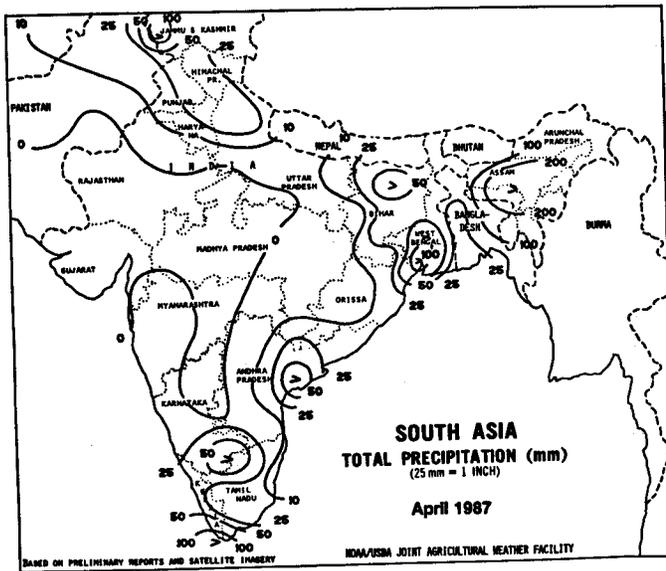
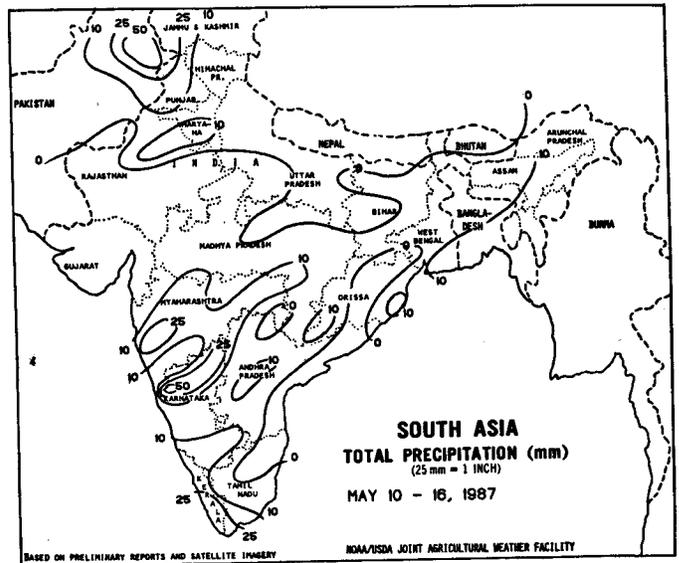
EUROPE ... Following periods of dry weather in April, widespread, significant rain spread from England and northern France, through West Germany and East Germany, and into Poland and Czechoslovakia. April's below-normal rainfall in these areas helped to increase the planting pace, while last week's rain helped summer crop emergence and benefited early growth. The rain also benefited winter grains, approaching the heading stage in the northwest. In the southeast, above-normal April precipitation in Hungary, eastern Yugoslavia, southern Romania, and Bulgaria increased soil moisture but caused summer crop planting delays. Widespread showers (10 to 25mm) continued over these areas last week, causing further delays in planting. In Spain, below-normal April precipitation in the east stressed winter grains in the filling stage. Dry weather continued over eastern Spain last week.



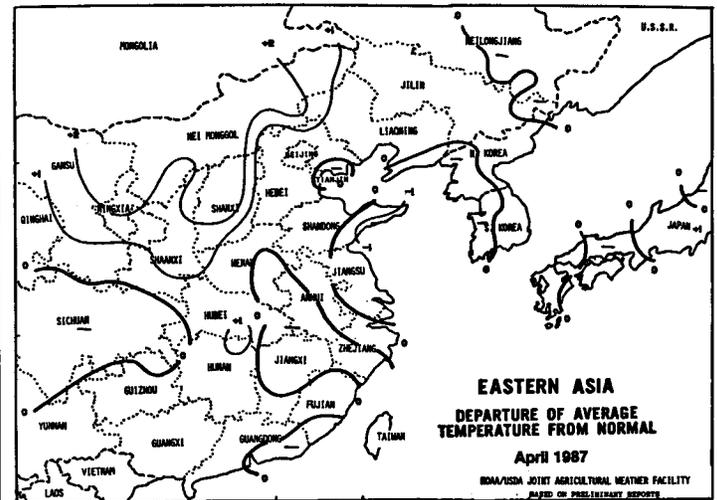
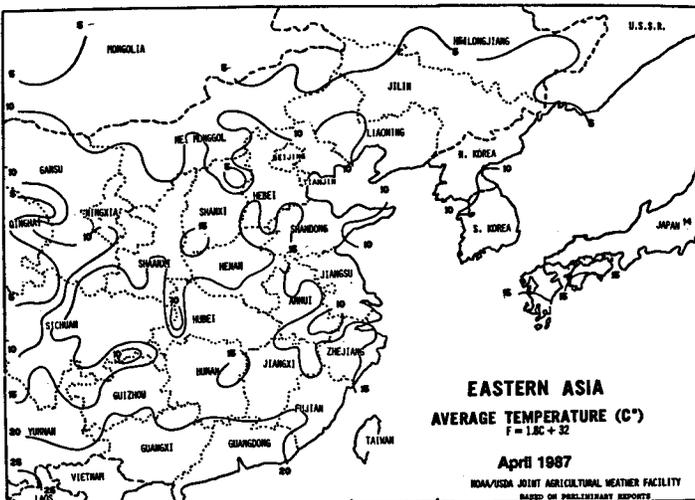
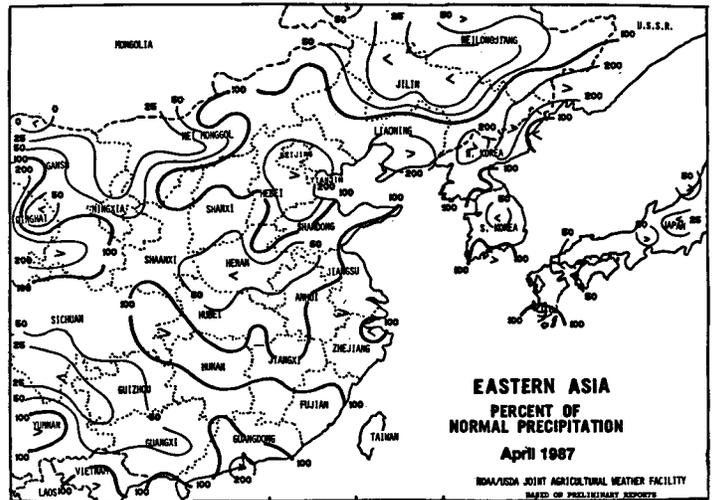
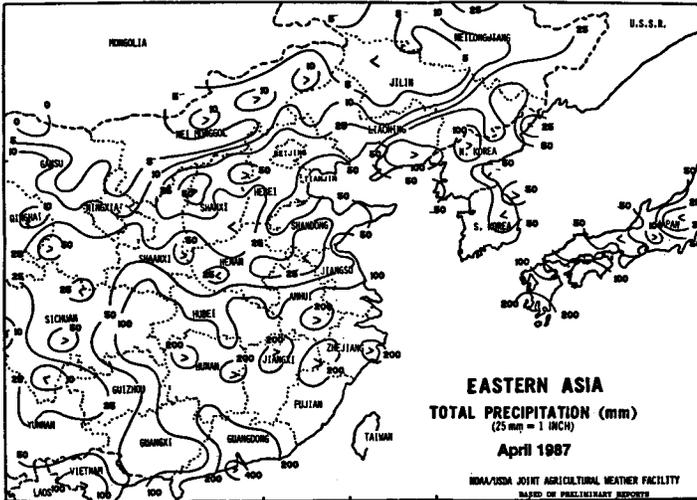
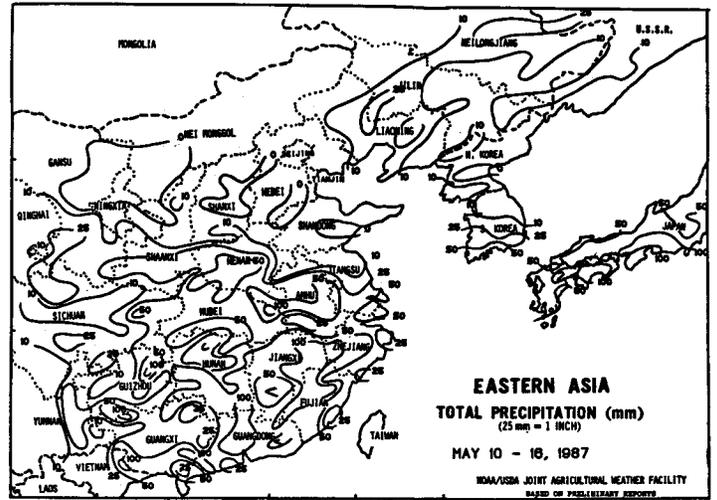
NORTHWESTERN AFRICA ... Mostly dry weather covered winter grain areas over much of the region, benefiting crop maturation and harvest activities. In April, below-normal precipitation and unseasonable warm weather in Morocco and western Algeria stressed winter grains in the filling stage and hastened maturity. In eastern Algeria and Tunisia, below-normal precipitation limited moisture for winter grains, but soil moisture likely met crop-moisture requirements. At present, harvesting is taking place over much of the region, coinciding with the dry season. Weekly coverage of this region will be discontinued until next autumn when sowing of next year's crop is scheduled to begin.



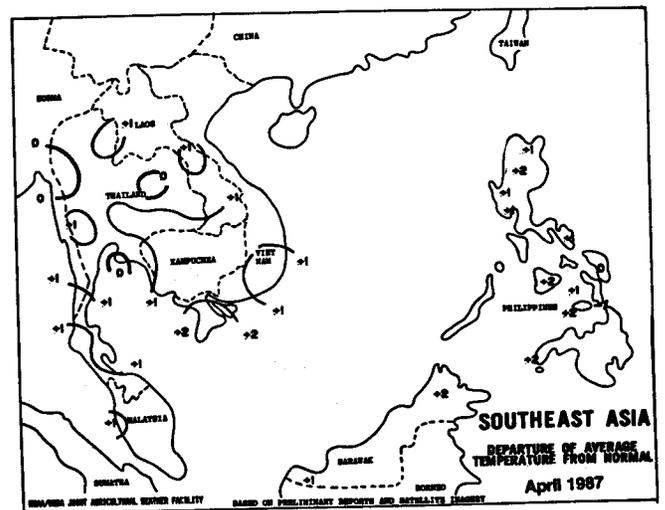
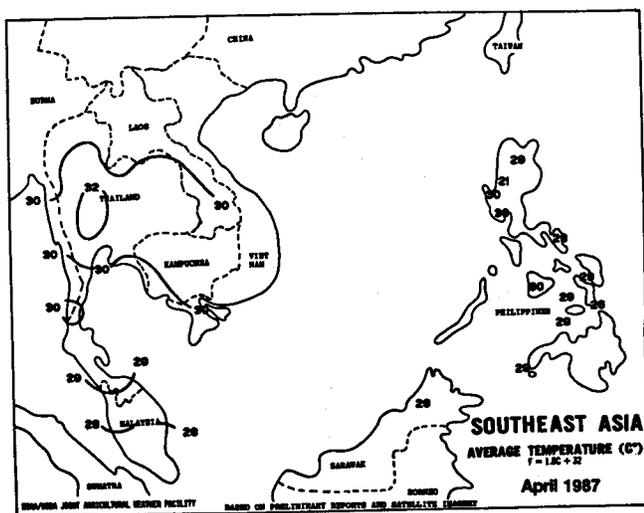
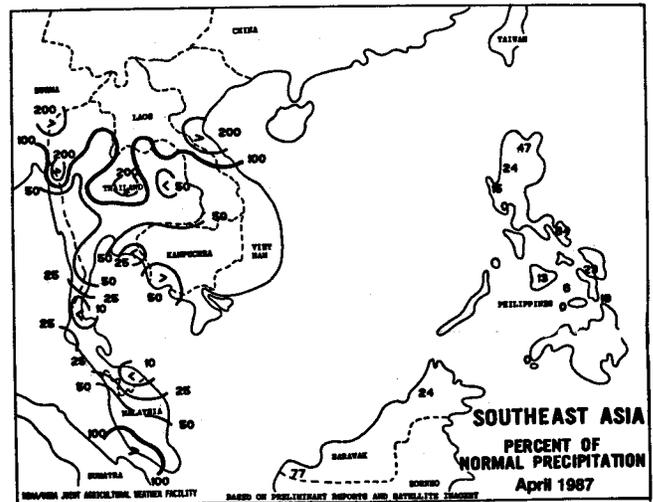
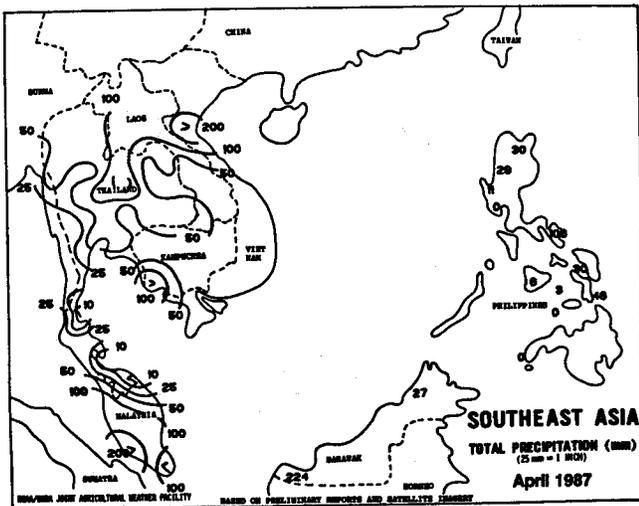
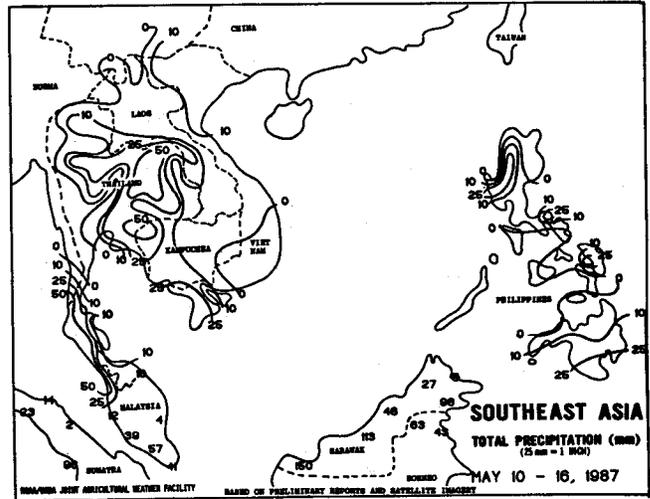
SOUTH ASIA ... Moderate-to-heavy rain (20 to 85mm) continued in northern Pakistan's wheat areas, likely damaging unharvested wheat. Rain tapered off in northern India, but harvest delays and damage to recently harvested grain continued. Moderate-to-heavy showers (10 to 56mm) fell in parts of southwest India, but mostly dry weather covered east coastal areas and the eastern states, favoring summer rice harvesting. In April, rainfall was near to above normal in northern and eastern India, improving irrigation reserves for immature grain. Dry weather in central India favored wheat harvesting.



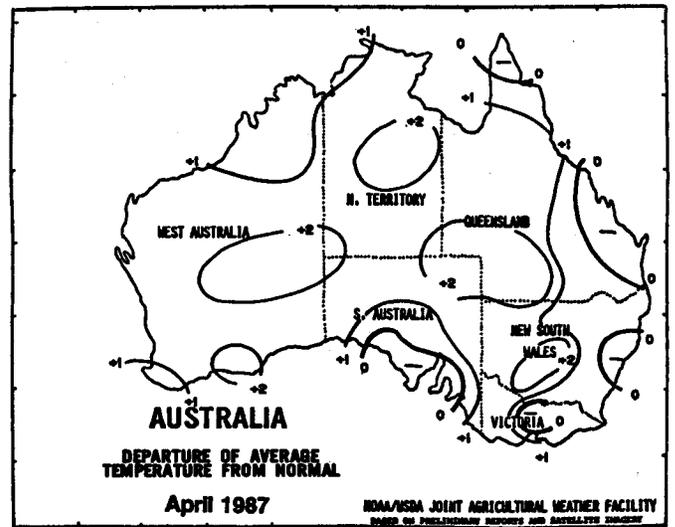
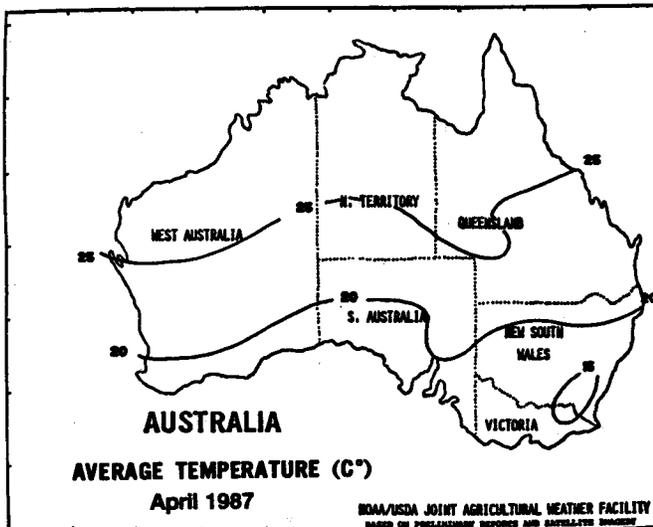
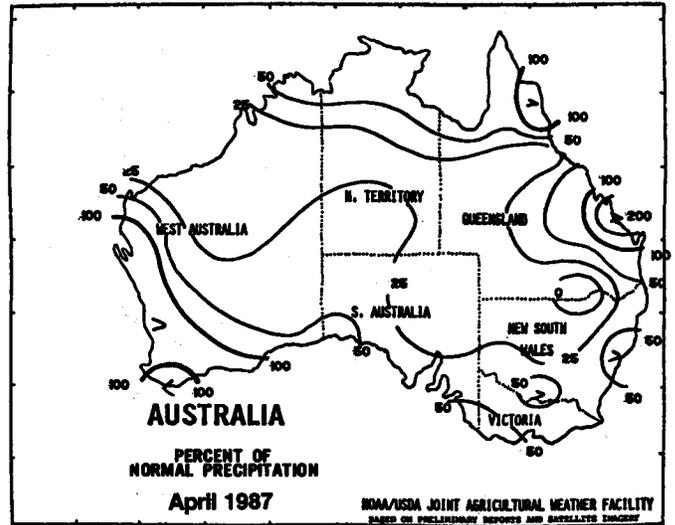
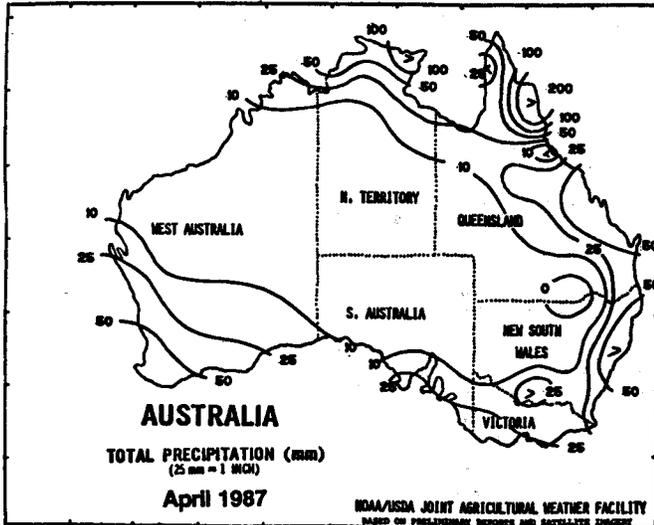
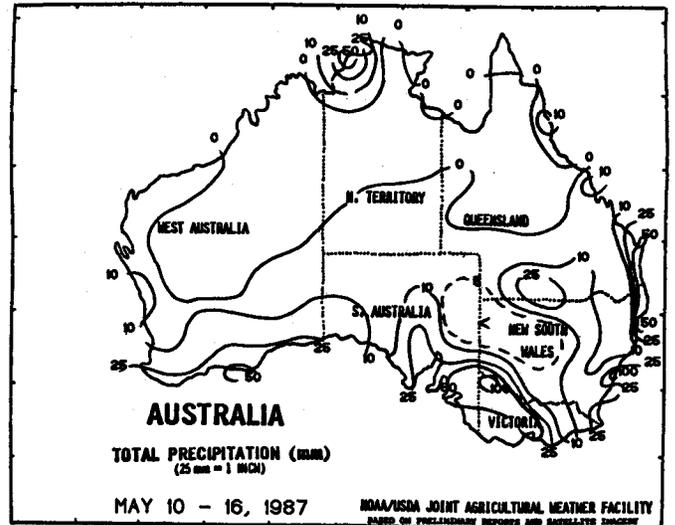
EASTERN ASIA ... Minimal rain covered winter wheat in Hebei, eastern Henan, and Shandong, stressing nonirrigated wheat in the grain formation stage. Periodic showers in April produced above-normal precipitation in these areas. Further south, widespread moderate showers (32 to 70mm) in southern Shaanxi, Hubei, southern Henan, and Anhui reversed April's below-normal rainfall pattern, benefiting filling wheat. In the Manchurian Valley, showers in Liaoning continued April's above-normal precipitation pattern, favoring emergence and early growth of corn and soybeans. Mostly dry weather in Jilin and Heilongjiang during April may have prevented summer crop planting due to insufficient topsoil moisture. Light showers moistened topsoils in these areas last week. Moderate-to-heavy showers covered rice areas from the Yangtze river to south coastal China. Normally, early rice is in the reproductive phase, while planting of intermediate and late single-crop rice is underway.



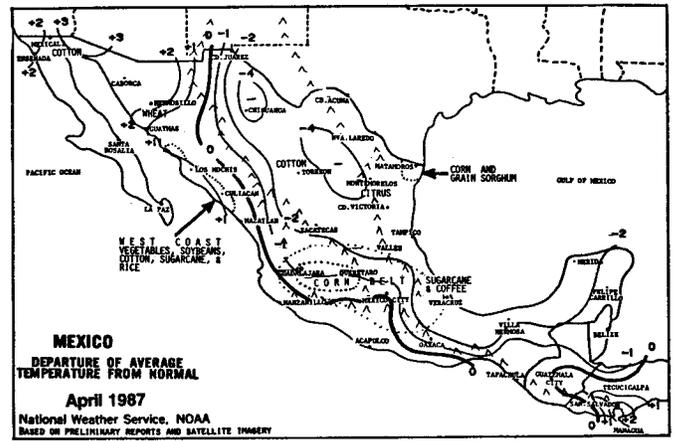
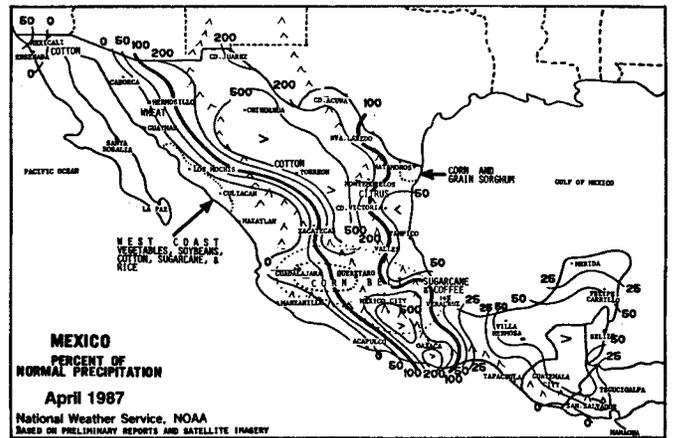
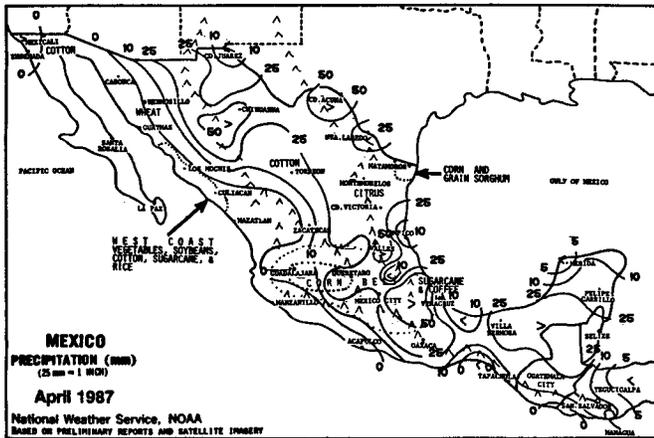
SOUTHEAST ASIA ... Variable showers (10 to more than 80mm) continued in Thailand's rainfed corn and rice areas, benefiting emerging grain. Light rain (less than 10mm), however, covered pockets in the east and in peninsular Thailand, reflecting April's precipitation pattern. In the Philippines, showers increased in Luzon, bringing relief to some rainfed crop areas on the western part of the island. Minimal rain (less than 4mm), however, persisted elsewhere in the drought-stricken region, except for eastern most areas. April rainfall averaged less than 25 percent of normal in most areas. Heavy rain (more than 100mm) continued in western Indonesia and parts of Malaysia, promoting flooding of already wet areas.



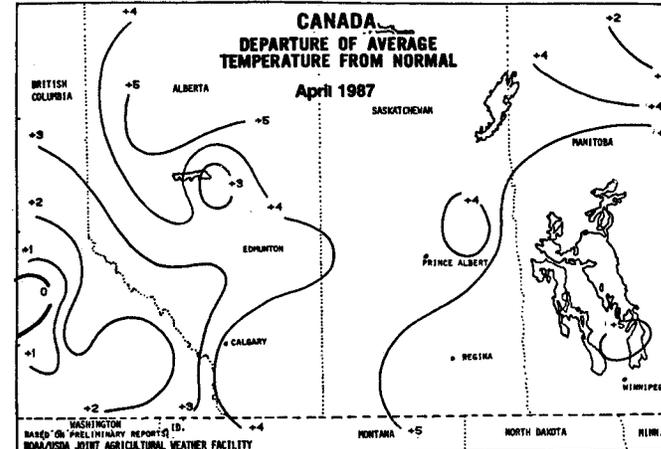
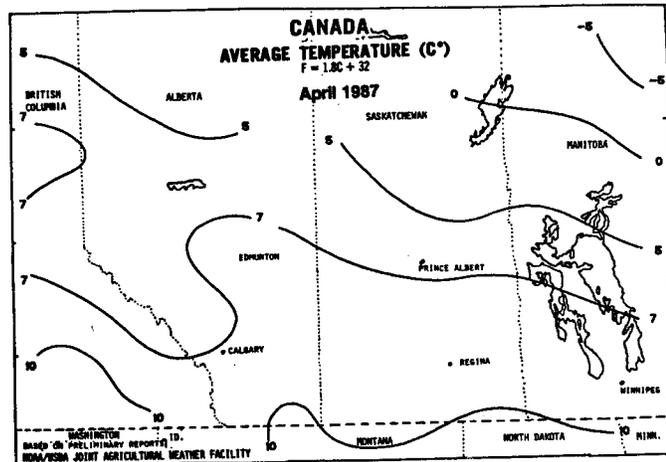
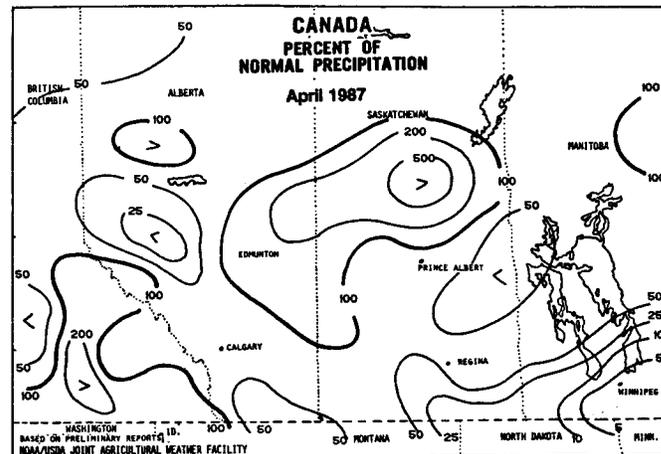
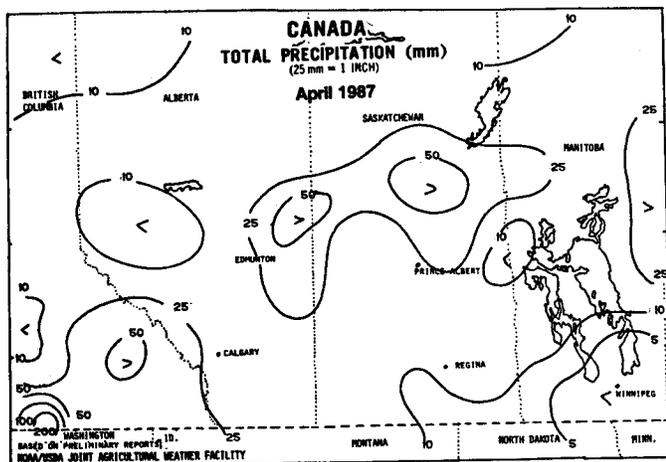
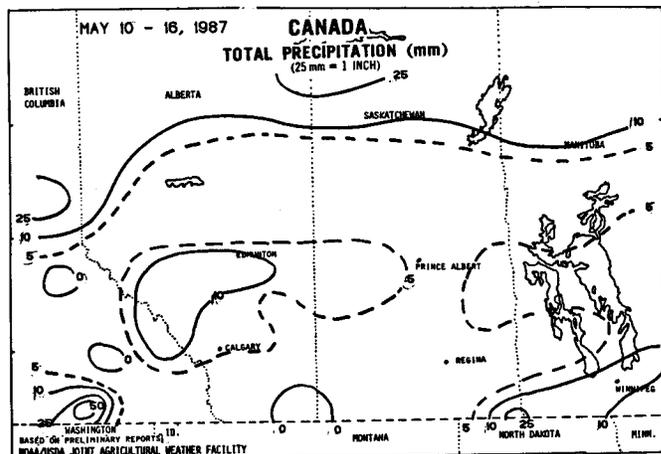
AUSTRALIA ... Light rain (2 to 10mm) continued in the wheat areas of southeastern Queensland, somewhat improving preplanting soil conditions. Heavy rain (50 to 118mm) soaked fields in Victoria and parts of South Australia and New South Wales, while light-to-moderate showers returned to other areas of the grain belt. Rainfall during the past 3 weeks boosted preplanting moisture reserves in eastern Australia, following below-normal April rainfall. Light rain (less than 15mm) covered most sugarcane areas along Queensland's coast, but pockets of heavy rain (85 to 102mm) continued in coastal New South Wales, increasing the likelihood of flooding. April rainfall along Australia's east coast was near-to-above normal, but pockets of below-normal rainfall persisted in some sugarcane areas.

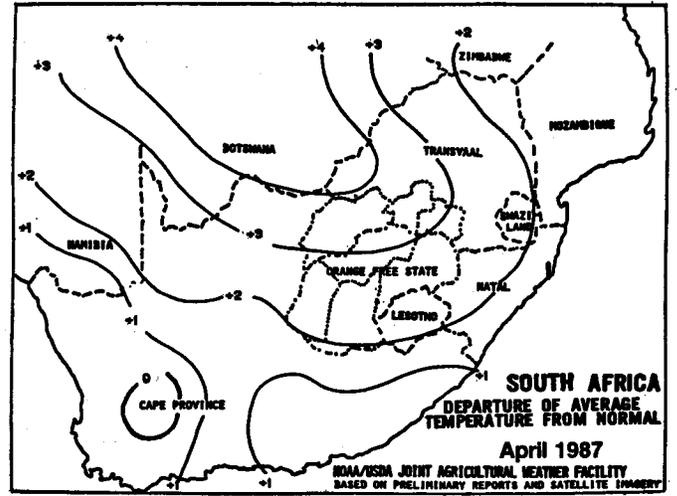
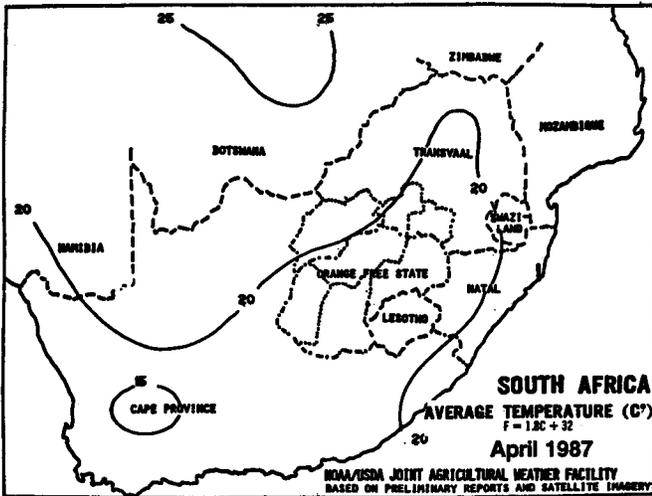
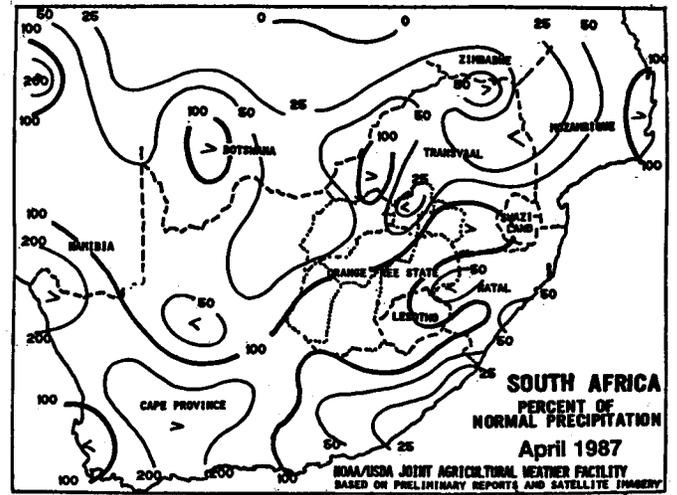
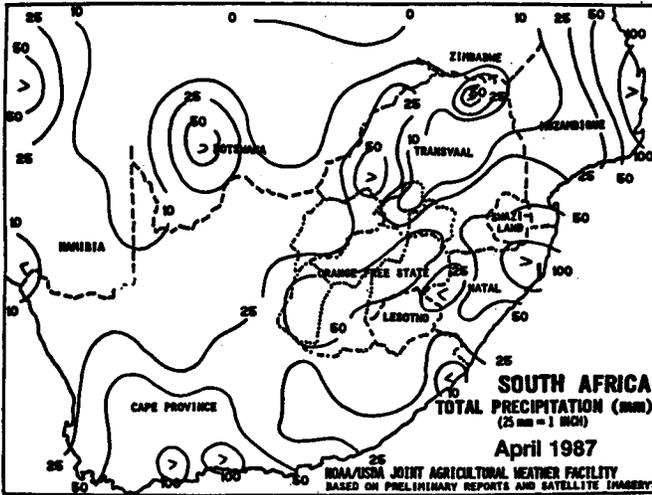


MEXICO ... Moderate-to-heavy showers (10 to 64mm) continued in the eastern half of the Southern Plateau, benefiting emerging and early vegetative corn. Dry weather covered corn areas to the west, the west coast farming region, and in the northwestern wheat area, favoring harvesting. Dry weather covered the north-central cotton region, but moderate-to-heavy showers (10 to 50mm) returned to the northeast grain sorghum area. In April, dry weather covered western crop areas, favoring maturing grains. Much-above normal rainfall covered central Mexico from the north-central cotton region to the Southern Plateau, improving preplanting moisture reserves.



CANADA ... Recent light showers (8 to 18mm) produced some beneficial topsoil moisture in southern Manitoba, following a very dry and unseasonably warm April. In fact, April rainfall was below average across much of the Prairie Provinces, while monthly temperatures averaged 3 to 6 degrees C above normal. Spring grain planting advanced rapidly across the Prairie grain belt, but topsoils are becoming too dry for crop germination and emergence. Last week, very light showers (8mm or less) brought only minimal moisture for newly planted crops in Saskatchewan and Alberta. Weekly temperatures continued to average several degrees above normal throughout the region.





(Continued from p. 15)

WEEKLY CROP CONDITION PERCENT
FOR WEEK ENDING MAY 17, 1987

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	12	26	37	15	10
CALIF	0	5	5	85	5
COLO	1	3	14	61	21
GA	0	2	66	30	2
IDAHO	0	7	10	71	12
ILL	0	1	16	71	12
IND	0	2	32	64	2
KANS	0	1	7	49	43
MICH	5	10	25	45	15
MO	2	12	51	35	0
MONT	0	0	30	62	8
NEBR	0	0	10	75	15
N MEX	0	0	42	58	0
N C	0	0	13	80	7
OHIO	0	2	20	63	15
OKLA	0	1	50	49	0
OREG	0	0	7	50	43
S DAK	4	11	35	48	2
TEX	1	15	53	24	7
WASH	0	2	8	80	10

SPRING WHEAT					
STATE	VP	P	F	G	EX
IDAHO	1	5	23	66	5
MINN	4	7	54	32	3
MONT	0	1	34	61	4
N DAK	0	0	44	56	0
S DAK	1	4	41	51	3

RICE					
STATE	VP	P	F	G	EX
ARK	0	5	66	29	0
LA	0	4	54	42	0
MISS	0	7	40	53	0

VP - VERY POOR P - POOR F - FAIR
G - GOOD EX - EXCELLENT

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(Continued from p. 14)

asparagus, strawberries, broccoli, celery,
carrots, lettuce, and sweet corn.

PASTURES AND LIVESTOCK: Livestock was mostly good. Pastures were fair to good but could use additional moisture in most areas.

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