

# 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

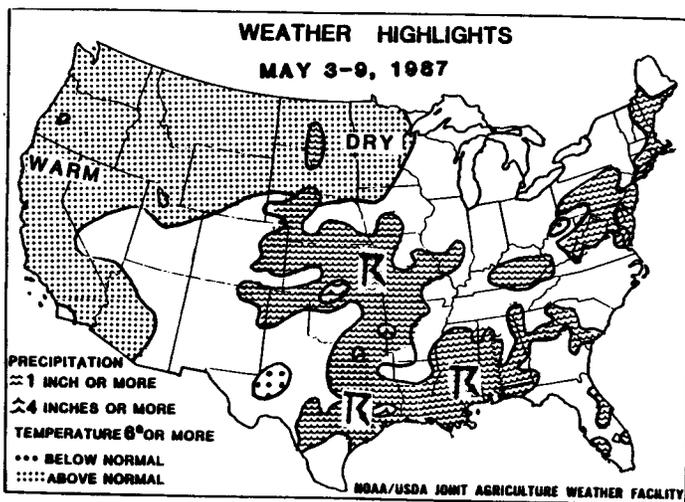
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## National Weather Summary

May 3 to 9, 1987



**HIGHLIGHTS:** Thunderstorms brought heavy rain to the gulf coast and southern and central Great Plains. Rainshowers fell over the Dakotas but not over the dry upper Mississippi Valley. New England had freezing temperatures, while warm, dry weather prevailed in the West.

**SUNDAY...** Warm, moist air from the Gulf of Mexico pushed into the middle and lower Mississippi Valley and the Great Plains, triggering widespread showers and thunderstorms. A near-stationary cold front, reaching through the Mid-Atlantic States, caused rain and rainshowers from the Ohio and Tennessee Valleys, through the Appalachians, and to southern New England. Freezing temperatures reached into New England.

**MONDAY...** Showers and thunderstorms continued widespread from eastern Texas, across the South, and through the central Plains. Thunderstorms reached as far north as central Virginia, and rain fell along the east coast from Georgia to New England. Winter lingered on as snow covered the higher elevations of the central and southern Rockies and freezing weather reached into New England.

**TUESDAY...** Thunderstorms covered the gulf coast from southern Texas into Florida and from Arkansas to Nebraska. Showers continued in the central and southern Rockies, with snow at the higher elevations. A few showers fell in the lower Appalachians, and rain was widespread from New Jersey and eastern Pennsylvania and New York through New England.

**WEDNESDAY...** Thunderstorms continued from southern Texas through the lower Mississippi Valley but were more scattered in the central Plains. Showers also reached from Arizona to the southern Rockies. Light showers fell from eastern New York through New England. Very warm weather covered the West and pushed over the northern High Plains.

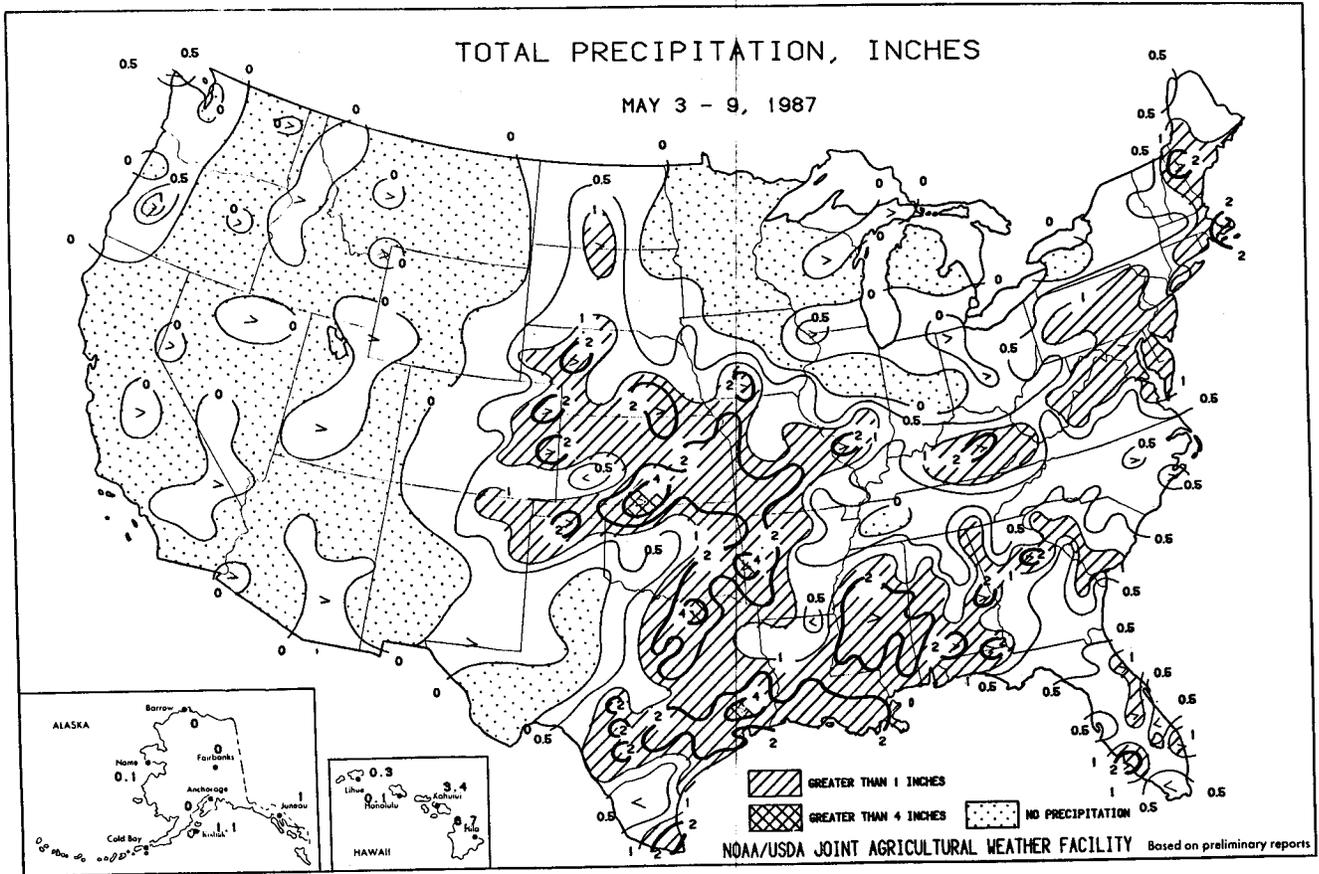
**THURSDAY...** Showers and thunderstorms reached from southern and eastern Texas through Florida. Continuing thunderstorms in southern Texas caused flooding in the lower Rio Grande Valley. A few thunderstorms reached to central Virginia, and showers reached to southern New England. Late-afternoon thunderstorms did not ease the heat in southern California as the hot weather spread from the West across the northern Plains.

**FRIDAY...** Thunderstorms ended in southern Texas and were less violent through eastern Texas and southern Louisiana and along the east coast from Florida to New Jersey. Widely scattered showers covered the West, and the hot spell continued. Record-warm temperatures reached into Washington and spilled over the northern Plains. Much of the central Rockies continued cool.

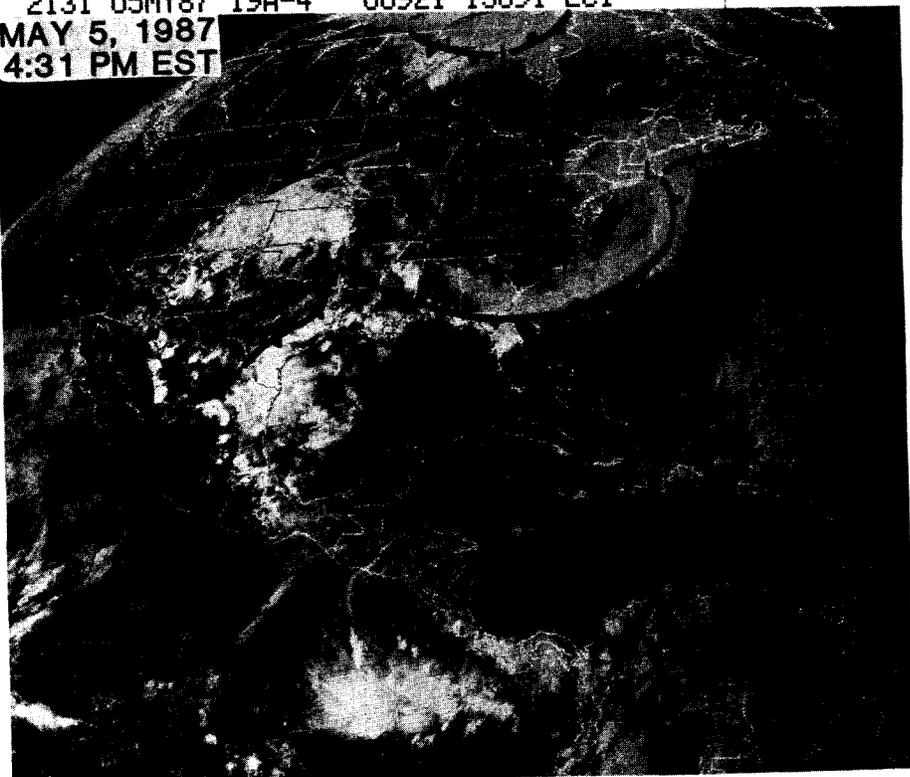
**SATURDAY...** Thunderstorms produced moderate showers along the central gulf coast and in Florida. Light showers were widespread in the Rockies and Plateau and along a line from Wyoming and Colorado through the Great Lakes. Hot weather eased some in the West, but it was still unusually warm through the Great Plains.

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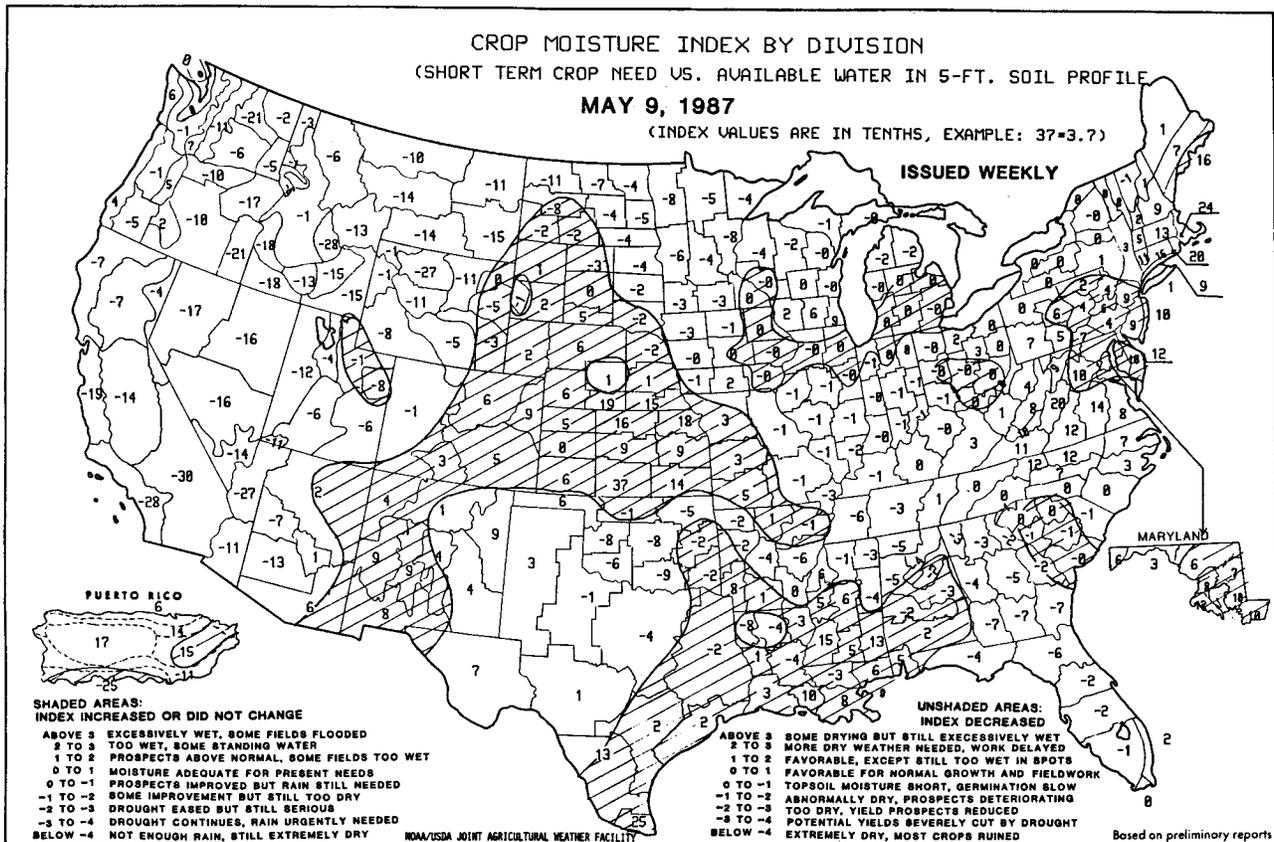
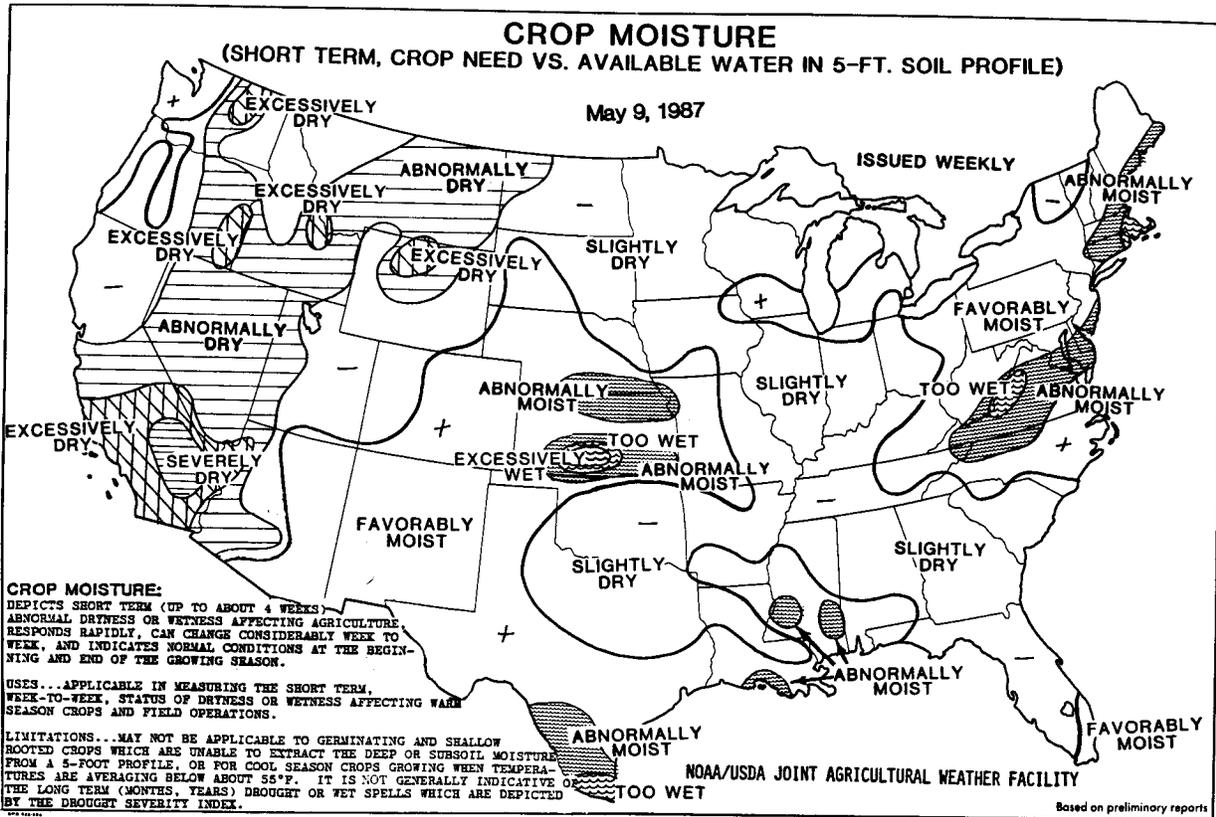
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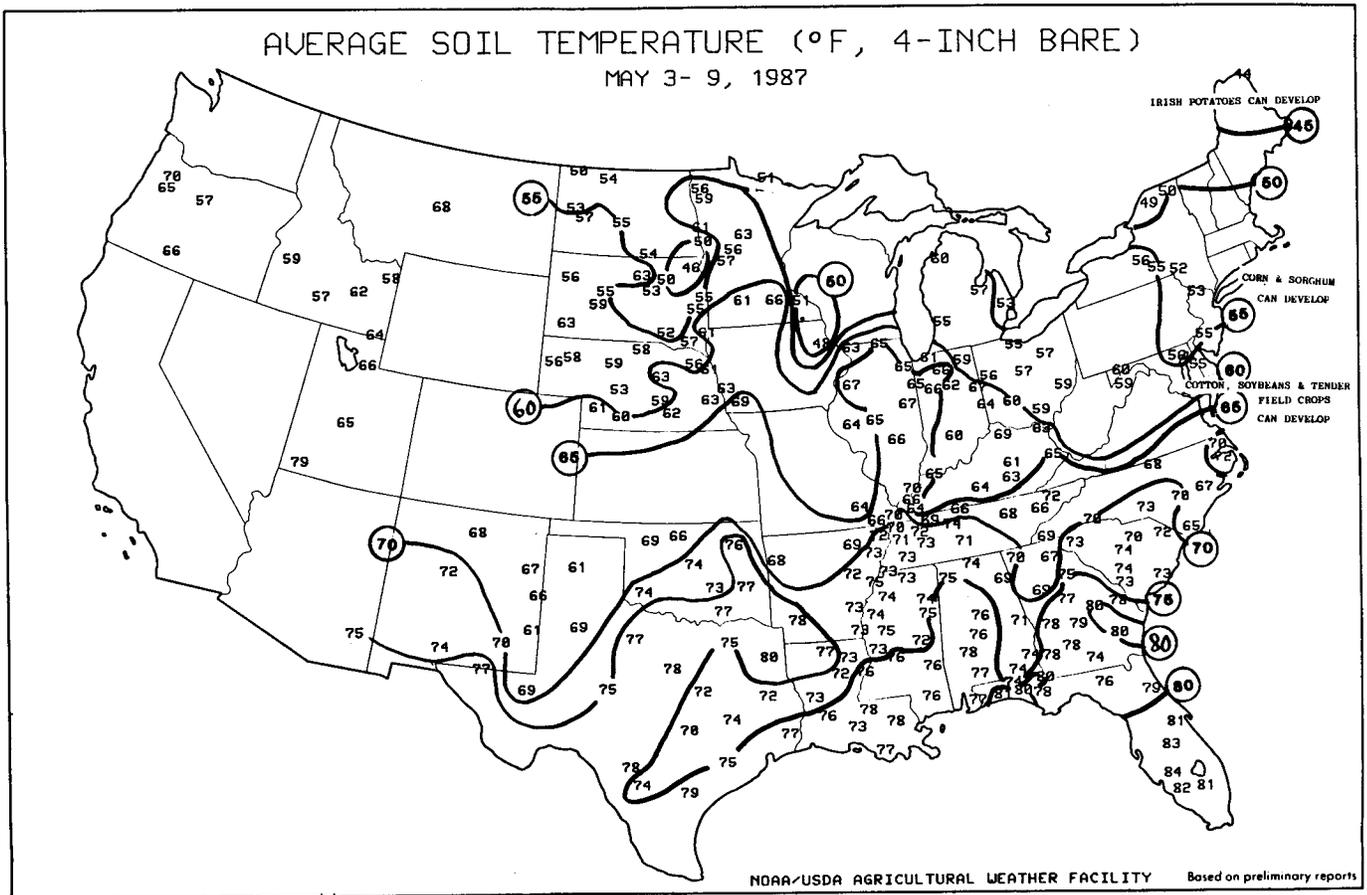
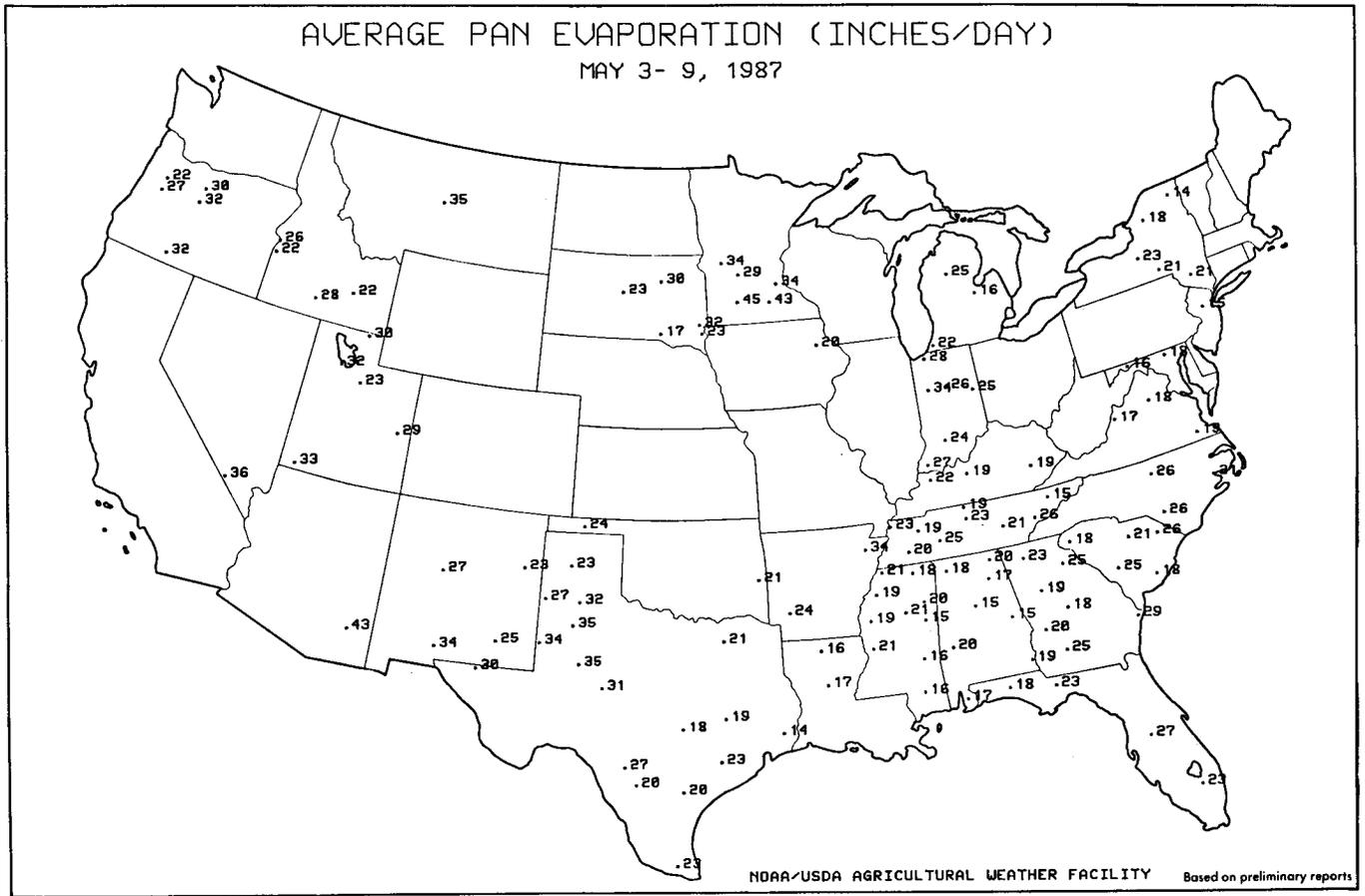


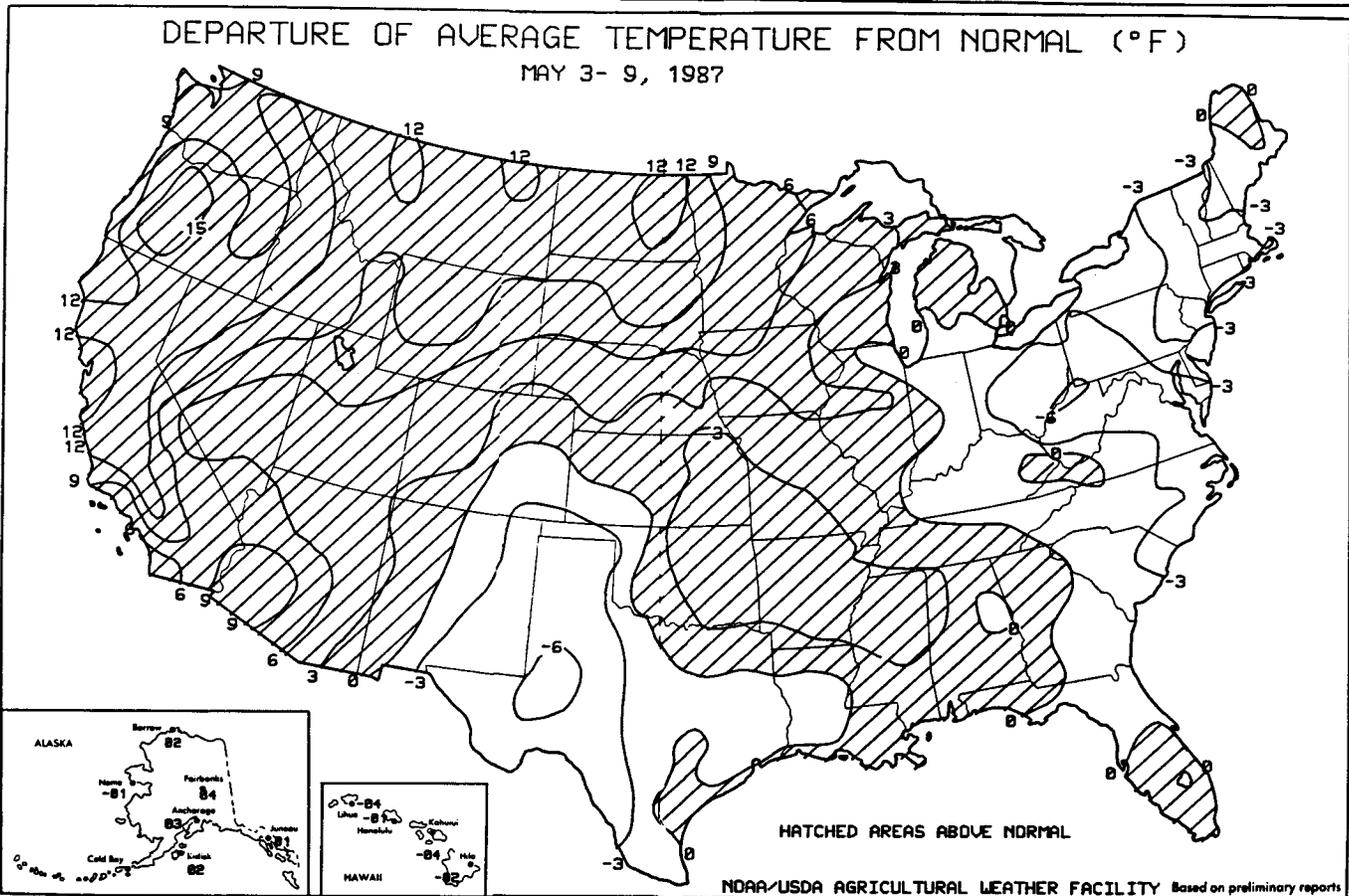
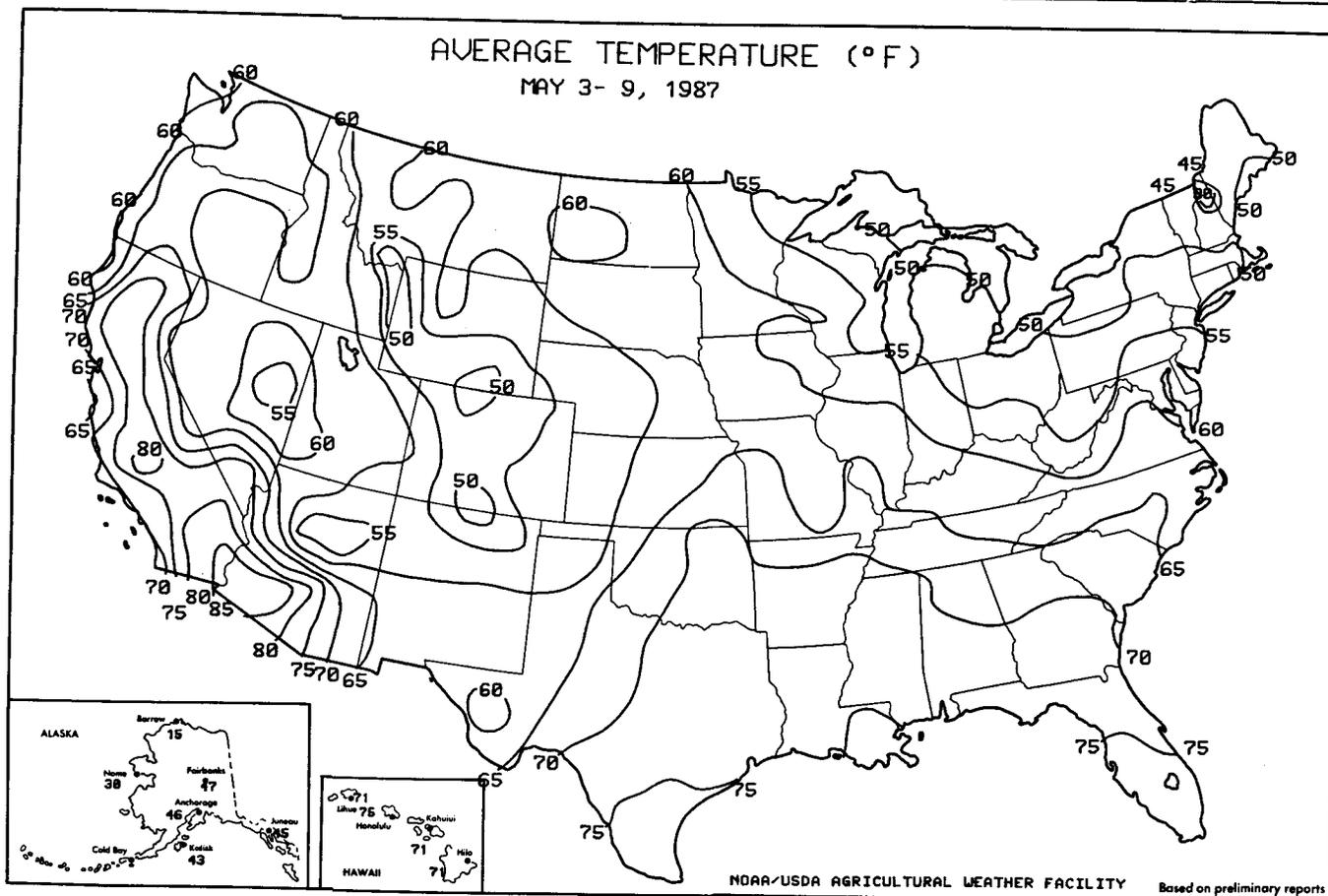
THUNDERSTORMS ARE ALONG THE GULF COAST OF LOUISIANA, TEXAS, AND NORTHERN MEXICO.

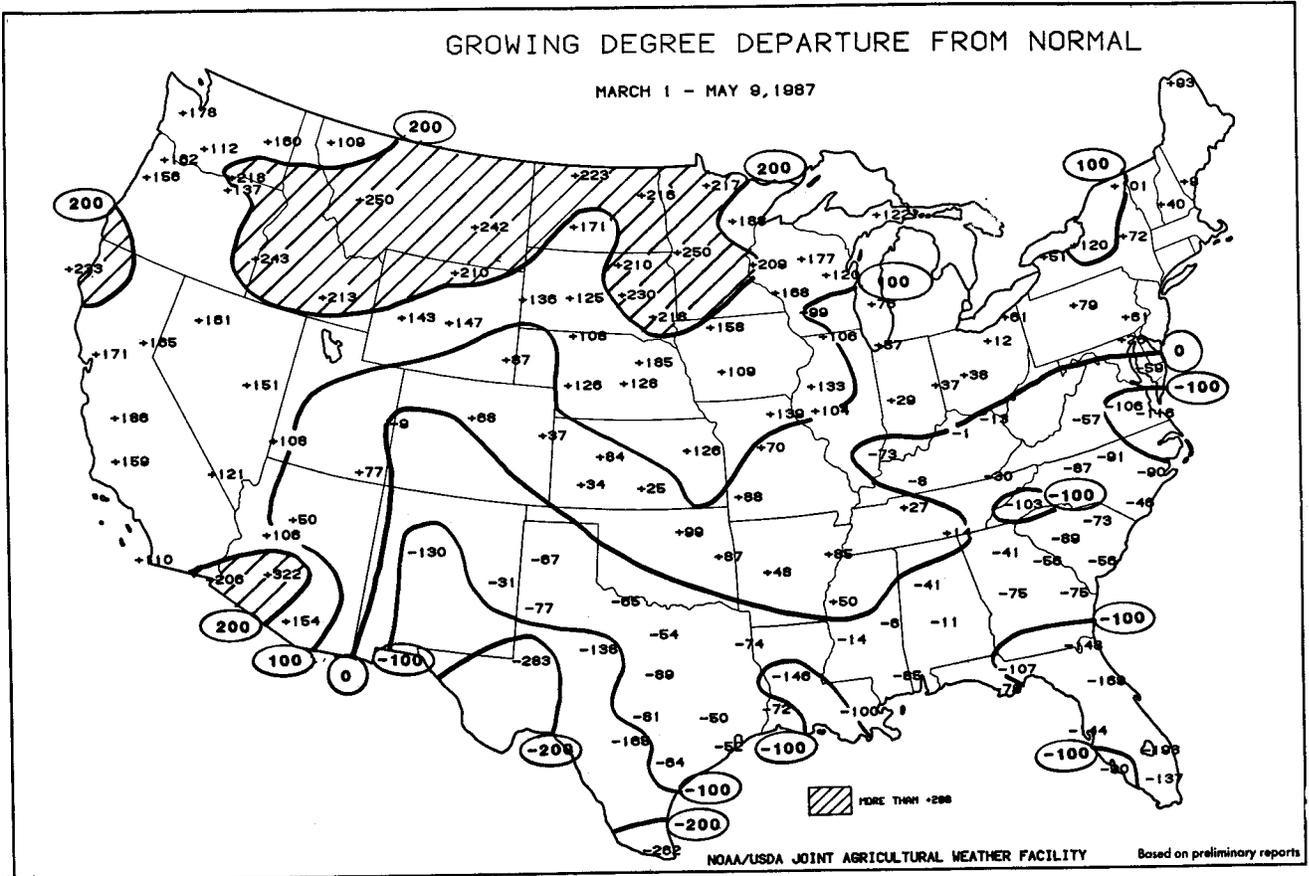
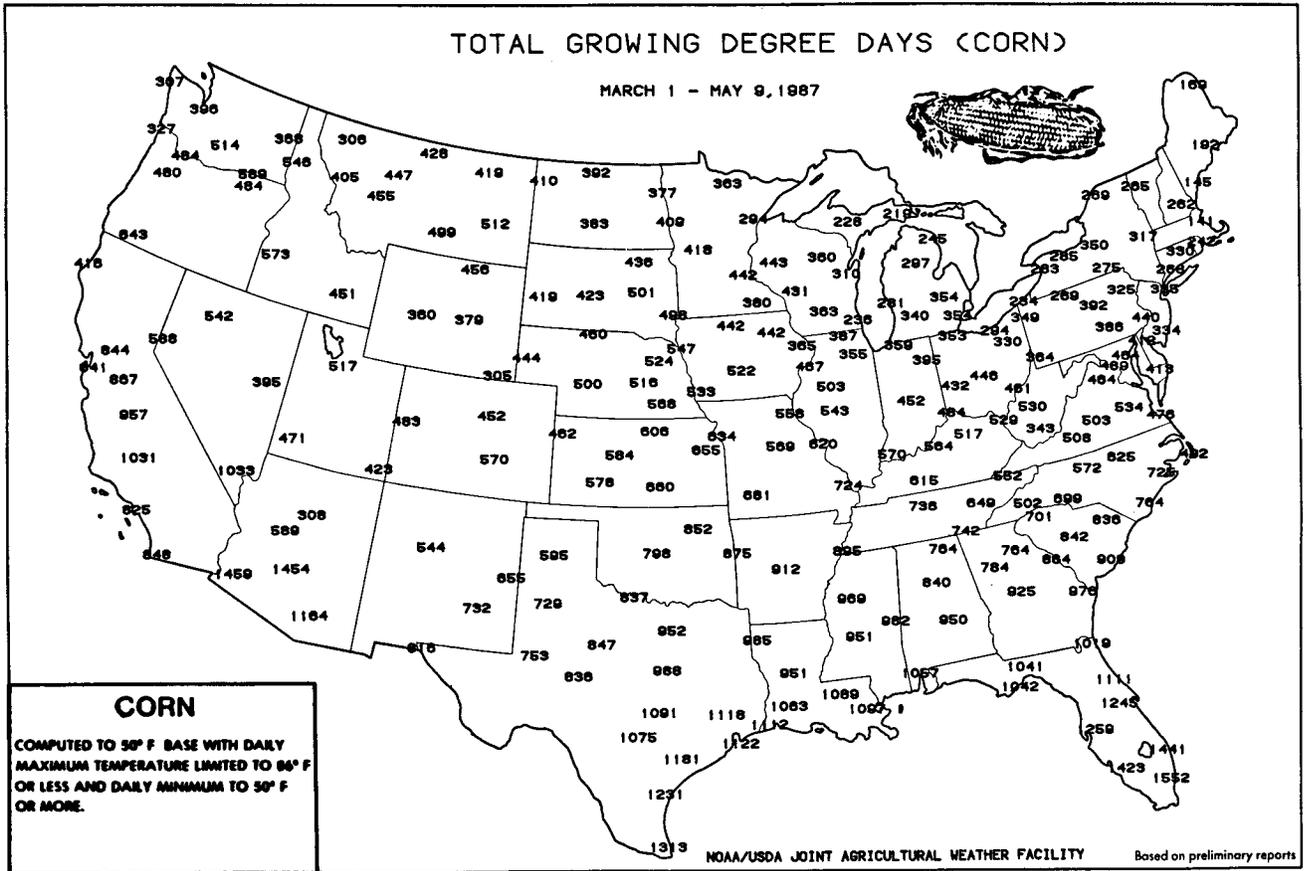
RAIN FALLS FROM SHOWERS OVER THE CENTRAL GREAT PLAINS, CENTRAL AND SOUTHERN ROCKIES, AND THE MOUNTAINS OF NORTH-WESTERN MEXICO.

LIGHT RAIN FALLS OVER THE NORTHEAST.









# National Weather Data for Selected Cities

Weather Data for the Week Ending May 9 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	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	82	57	85	47	70	2	.2	-.9	.2	5.9	45	17.7	77	96	50	0	0	1	0
MOBILE	83	65	86	62	74	1	1.6	-.8	.8	8.6	64	23.0	101	100	54	0	0	3	2
MONTGOMERY	82	61	87	57	71	1	.5	-.4	.4	6.1	53	23.0	114	99	53	0	0	3	0
AK ANCHORAGE	53	39	56	33	46	3	T	-.1	T	.4	30	2.3	74	83	45	0	0	0	0
BARROW	22	8	32	0	15	2	T	0	T	11	11	.3	38	90	77	0	7	7	0
FAIRBANKS	58	35	65	30	47	3	0	-.1	T	.1	7	.8	47	65	23	0	3	0	0
JUNEAU	48	41	51	39	45	1	1.0	-.3	.5	6.0	83	13.2	90	93	69	0	0	6	6
KODIAK	48	38	53	34	43	2	1.1	-.1	.5	12.0	133	26.9	135	95	65	0	0	6	0
NOME	33	26	37	22	30	-1	.1	-.1	0	.6	48	2.1	81	91	71	0	7	7	3
AZ PHOENIX	98	72	102	65	85	11	T	0	T	.4	34	3.1	129	36	13	7	0	0	0
PRESCOTT	78	44	82	38	61	7	.1	-.1	.1	.9	36	4.4	77	56	17	0	0	2	2
TUCSON	91	61	95	54	76	6	.1	0	.1	1.7	160	3.9	156	56	16	5	0	1	0
YUMA	101	72	104	63	86	11	.1	.1	.1	.1	41	.5	56	41	13	7	0	1	0
AR FORT SMITH	83	60	86	55	72	5	2.3	1.2	2.0	7.3	77	13.2	96	95	45	0	0	2	1
LITTLE ROCK	83	62	86	58	73	5	T	-.3	T	4.1	35	12.4	64	78	46	0	0	1	0
CA BAKERSFIELD	97	63	104	50	80	12	T	-.1	T	1.1	68	3.6	97	55	23	6	0	0	0
BUREKA	67	53	82	49	60	9	0	-.4	0	7.3	86	17.2	83	92	71	0	0	0	0
FRESNO	96	61	103	48	78	13	0	-.1	0	2.5	85	5.8	85	69	20	6	0	0	0
LOS ANGELES	72	59	77	56	66	4	T	-.1	T	.9	34	2.9	35	97	64	0	0	0	0
REDDING	96	58	104	51	77	12	0	-.4	0	7.2	87	19.1	83	76	17	6	0	0	0
SACRAMENTO	94	58	101	51	76	13	0	-.1	0	3.4	96	8.8	85	79	24	6	0	0	0
SAN DIEGO	71	61	77	58	66	3	T	-.1	T	1.8	74	5.0	83	87	66	0	0	0	0
SAN FRANCISCO	79	54	91	50	66	10	T	-.1	T	2.2	50	8.5	70	91	48	1	0	0	0
CO DENVER	67	46	83	40	56	2	.7	-.2	.6	3.7	101	5.7	116	83	39	0	0	4	1
GRAND JUNCTION	77	47	83	38	62	3	T	-.2	T	3.0	183	4.5	161	67	21	0	0	0	0
PUEBLO	68	44	85	40	56	-2	1.1	.8	.6	1.9	89	3.9	150	96	42	0	0	5	1
CT BRIDGEPORT	60	44	74	41	52	-3	.7	-.2	.4	10.2	117	15.4	103	90	48	0	0	3	0
HARTFORD	64	42	79	37	53	-3	.8	.1	.5	10.6	116	17.2	109	94	40	0	0	4	0
DC WASHINGTON	71	49	80	42	60	-3	1.4	.6	.7	5.2	71	12.2	96	90	39	0	0	3	2
FL APALACHICOLA	80	64	82	62	72	0	.3	-.3	.3	11.1	138	21.3	139	98	64	0	0	2	0
DAYTONA BEACH	81	62	85	55	72	-2	1.7	1.1	1.1	9.9	166	18.7	164	98	53	0	0	3	1
JACKSONVILLE	82	58	91	52	70	-3	.1	-.7	.1	6.6	88	17.1	122	96	48	1	0	2	0
KEY WEST	85	73	86	71	79	-1	.1	-.5	0	10.0	289	11.4	158	90	61	0	0	4	0
MIAMI	87	72	88	69	79	2	.2	-1.0	.1	4.5	68	8.0	75	89	47	0	0	2	0
ORLANDO	88	65	92	62	76	1	.7	0	.5	12.5	197	15.5	134	95	43	3	0	2	1
TALLAHASSEE	86	60	89	55	73	1	.5	-.6	.5	10.3	93	22.9	111	97	42	0	0	1	0
TAMPA	87	66	90	63	77	1	1.1	-.5	.1	12.5	209	17.3	154	93	47	1	0	1	0
WEST PALM BEACH	86	69	88	67	78	1	1.8	.7	1.7	12.2	167	14.6	116	95	50	0	0	2	1
GA ATLANTA	77	58	84	52	68	0	.4	-.6	.4	7.2	62	18.9	91	94	47	0	0	1	0
AUGUSTA	82	53	90	49	68	-1	.3	-.5	.3	5.6	60	21.7	126	100	38	2	0	1	0
MACON	82	59	88	53	71	0	T	-.8	T	5.2	53	19.2	104	98	43	0	0	1	0
SAVANNAH	82	59	91	52	70	-1	.3	-.7	.3	6.1	74	19.1	132	90	39	1	0	1	0
HI HILO	77	66	83	64	71	-2	6.7	4.3	2.1	21.6	72	34.8	66	94	69	0	0	5	4
HONOLULU	81	69	85	63	75	-2	1	-.2	.1	.8	15	2.0	17	75	46	0	0	1	0
KAHULUI	76	66	81	61	71	-4	3.4	3.2	1.8	7.7	194	12.0	110	86	60	0	0	4	2
LIHUE	75	66	78	60	71	-4	.3	-.4	.1	6.0	69	9.9	53	83	58	0	0	3	0
ID BOISE	86	50	94	39	68	13	0	-.3	0	2.4	95	4.4	85	63	18	3	0	0	0
LEWISTON	85	53	93	44	69	13	0	-.3	0	1.8	69	2.8	58	72	25	4	0	0	0
POCATELLO	80	39	87	32	60	9	.1	-.2	.1	1.4	60	3.2	74	76	15	0	1	1	0
IL CHICAGO	69	42	85	36	56	0	T	-.7	T	4.5	61	7.2	71	82	29	0	0	1	0
MOLINE	74	44	86	35	59	1	T	-.9	T	4.3	55	6.2	57	78	28	0	0	0	0
PEORIA	75	47	85	39	61	3	0	-.9	0	3.8	49	6.1	56	73	27	0	0	0	0
QUINCY	74	49	83	42	62	2	.8	-.2	.8	4.1	50	6.3	57	82	35	0	0	1	1
ROCKFORD	71	40	84	34	56	0	T	-.8	T	4.4	55	6.1	59	83	32	0	0	0	0
SPRINGFIELD	76	48	84	39	62	2	T	-.8	T	4.8	59	6.9	61	76	27	0	0	1	0
IN EVANSVILLE	77	48	83	42	62	-1	.3	-.7	.3	4.8	48	9.0	56	93	36	0	0	1	0
FORT WAYNE	68	41	82	38	54	-2	.1	-.7	.1	4.1	54	6.7	58	76	34	0	0	1	0
INDIANAPOLIS	73	44	80	41	59	-1	0	-.8	0	4.8	58	7.6	57	79	30	0	0	0	0
SOUTH BEND	68	41	84	35	55	-1	.2	-.5	.2	5.0	64	8.7	71	82	35	0	0	1	0
IA DES MOINES	73	48	84	44	61	2	.9	.1	.9	7.2	112	9.0	106	80	37	0	0	1	1
SIoux CITY	73	50	90	44	62	4	.8	-.1	.7	7.7	157	8.3	130	86	40	1	0	2	1
WATERLOO	75	44	87	37	60	4	T	-.9	T	4.4	64	5.8	67	78	27	0	0	0	0
KS CONCORDIA	72	54	82	51	63	3	2.5	1.7	1.1	13.7	267	15.2	230	88	55	0	0	3	3
DODGE CITY	70	50	82	47	60	-1	.6	-.1	.4	5.9	142	7.9	155	95	52	0	0	3	0
GOODLAND	67	47	85	44	57	2	1.2	.6	.7	4.8	166	6.2	172	93	54	0	0	3	1
TOPEKA	74	55	83	50	65	3	1.4	.6	.8	10.2	162	14.0	171	92	52	0	0	4	1
WICHITA	77	54	87	48	66	3	3.6	2.8	2.6	8.3	152	13.1	137	95	47	0	0	3	2
KY BOWLING GREEN	74	50	80	45	62	-2	1.1	-.2	1.1	5.5	51	12.4	64	95	39	0	0	1	1
LEXINGTON	73	47	78	42	60	-1	.8	-.1	.7	6.2	62	11.1	66	88	39	0	0	2	1
LOUISVILLE	75	49	80	44	62	-1	.8	-.2	.7	6.2	61	11.4	69	85	33	0	0	2	1
LA ALEXANDRIA	79	63	84	62	71	-1	1.1	-.4	.4	8.0	65	22.5	100	92	65	0	0	5	0
BATON ROUGE	83	66	86	65	75	2	.6	-.7	.4	8.0	68	23.0	108	99	58	0	0	5	0
LAKE CHARLES	80	65	87	63	73	0	2.3	1.0	.9	7.2	84	19.8	120	98	69	0	0	7	1
NEW ORLEANS	84	67	87	65	75	2	1.2	0	.6	7.8	73	24.0	115	99	62	0	0	4	1

Based on 1951-80 normals.

Weather Data for the Week Ending May 9, 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			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	82	62	85	60	72	1	.7	-.4	.5	2.6	27	12.7	73	100	54	0	0	3	0
ME CARIBOU	59	34	63	28	46	0	.4	-.2	.2	3.3	57	5.9	57	85	39	0	4	2	0
PORTLAND	58	40	71	32	49	-1	1.9	1.1	1.1	12.5	141	17.7	109	84	41	0	1	2	2
MD BALTIMORE	70	45	79	39	58	-3	1.4	.7	1.1	4.3	53	12.3	88	86	37	0	0	3	1
SALISBURY	69	45	79	41	57	-3	1.3	.5	.8	8.1	98	17.4	117	96	46	0	0	2	1
MA BOSTON	56	44	75	40	50	-5	1.2	.4	.7	14.9	168	23.0	139	88	58	0	0	3	2
CHATHAM	53	43	64	41	48	-2	3.5	2.6	2.1	15.2	167	25.4	144	93	77	0	0	4	2
MI ALPENA	66	31	84	23	49	0	T	-.6	T	2.1	73	3.9	48	85	24	0	5	0	0
DETROIT	68	41	82	37	55	0	.4	-.2	.4	4.7	73	7.6	76	87	26	0	0	2	0
FLINT	70	39	83	31	54	1	T	-.6	T	3.3	56	4.9	55	82	28	0	1	0	0
GRAND RAPIDS	69	39	80	32	54	0	.1	-.5	.1	3.8	54	4.8	46	71	23	0	1	1	0
HOUGHTON LAKE	68	35	76	27	52	1	0	-.6	0	1.8	34	3.4	43	73	21	0	3	0	0
LANSING	68	36	80	27	52	-1	-.2	-.3	.2	2.7	47	4.1	46	83	27	0	2	2	0
MARQUETTE	67	33	85	21	50	2	0	-.6	0	4.4	81	7.4	85	78	24	0	3	0	0
MUSKOGON	66	39	76	33	52	0	T	-.6	T	4.3	67	6.6	63	75	25	0	0	1	0
SAULT STE. MARIE	66	33	80	28	49	3	T	-.6	T	2.5	48	5.0	56	85	26	0	4	1	0
MN ALEXANDRIA	75	47	86	38	61	9	T	-.6	T	1.5	36	2.8	49	68	19	0	0	0	0
DULUTH	71	40	80	31	55	8	T	-.6	T	.8	18	1.8	26	65	20	0	2	0	0
INT'L FALLS	73	38	85	29	56	8	0	-.5	0	1.1	34	1.8	38	68	19	0	2	0	0
MINNEAPOLIS	76	48	91	41	62	7	0	-.6	0	1.2	25	1.9	31	66	19	1	0	0	0
ROCHESTER	74	41	89	32	57	4	0	-.7	0	2.4	46	3.3	49	74	25	0	1	0	0
MS GREENWOOD	83	62	86	60	73	3	3.1	1.9	3.0	11.2	84	20.8	90	95	52	0	0	3	1
JACKSON	84	62	86	57	73	3	2.3	1.1	1.0	9.9	77	24.8	113	99	50	0	0	4	3
MERIDIAN	84	61	88	54	72	3	2.3	1.3	.9	7.5	56	27.6	120	97	51	0	0	4	3
MO CAPE GIRARDEAU	78	53	86	48	65	1	0	-1.1	0	4.3	39	8.4	50	88	45	0	0	0	0
COLUMBIA	73	52	81	48	63	1	.8	-.3	.8	4.4	52	7.4	61	92	48	0	0	1	1
KANSAS CITY	75	55	82	51	65	2	2.3	1.3	2.0	7.5	104	10.5	109	84	45	0	0	3	1
SAINT LOUIS	75	55	82	49	65	2	1.7	.9	1.6	5.6	71	8.9	76	83	40	0	0	2	1
SPRINGFIELD	78	55	80	47	67	5	3.1	2.2	2.0	9.2	106	16.6	134	93	48	0	0	3	2
MT BILLINGS	80	47	90	38	63	12	0	-.5	0	2.1	59	2.6	49	63	18	1	0	0	0
GLASGOW	79	47	88	42	63	11	0	-.3	0	2.1	154	2.3	115	73	21	0	0	0	0
GREAT FALLS	80	47	88	42	63	13	0	-.5	0	2.8	92	3.1	66	64	19	0	0	0	0
HAVRE	79	43	87	37	61	9	0	-.3	0	1.7	82	2.0	63	76	21	0	0	0	0
HELENA	80	41	86	33	61	11	T	-.3	T	2.0	95	2.1	64	79	22	0	0	1	0
KALISPELL	76	42	82	32	59	10	T	-.3	T	4.4	188	5.6	112	88	26	0	1	1	0
MILES CITY	80	47	90	40	63	10	0	-.5	0	1.2	46	1.3	35	65	18	2	0	0	0
MISSOULA	80	40	89	33	60	10	T	-.3	T	1.8	81	2.4	55	86	26	0	0	0	0
NE GRAND ISLAND	71	50	84	46	60	3	2.3	1.5	1.8	10.3	201	11.1	173	91	55	0	0	3	1
LINCOLN	73	51	84	46	62	3	.8	-.1	.4	9.6	165	10.1	135	88	47	0	0	3	0
NORFOLK	73	49	89	44	61	4	.4	-.3	.2	8.4	182	9.5	161	90	46	0	0	3	0
NORTH PLATTE	71	47	85	40	59	4	.5	-.2	.3	3.4	91	5.1	109	91	48	0	0	3	0
OMAHA	70	52	83	47	61	1	.5	-.4	.5	7.1	119	7.9	104	78	53	0	0	2	1
SCOTTSBLUFF	69	44	86	42	57	3	1.6	1.0	1.0	4.5	148	6.7	172	91	44	0	0	3	2
VALENTINE	73	48	87	40	60	6	1.4	-.8	.9	4.6	135	6.0	146	84	46	0	0	2	1
NV ELY	74	30	77	24	52	5	T	-.3	T	1.2	58	2.6	74	71	21	0	4	0	0
LAS VEGAS	91	64	97	58	78	8	T	0	T	.7	104	2.3	144	36	13	5	0	2	0
RENO	83	44	87	37	64	12	.1	0	.1	1.4	104	2.7	77	68	15	0	0	2	0
WINNEMUCCA	83	45	90	29	64	12	T	-.1	T	1.9	114	2.9	91	59	17	1	1	2	0
NH CONCORD	61	36	73	29	49	-3	.7	0	.7	8.9	130	11.9	98	93	37	0	3	2	1
NJ ATLANTIC CITY	66	43	78	38	54	-3	1.2	.5	.6	10.3	127	18.2	122	95	48	0	0	3	2
NM ALBUQUERQUE	73	49	79	45	61	0	T	-.1	T	1.1	107	2.3	128	61	23	0	0	0	0
CLOVIS	72	48	82	45	60	-2	.1	-.3	.1	.6	30	2.5	93	69	32	0	0	2	0
ROSWELL	75	49	82	43	62	-4	.2	0	.2	.6	62	2.9	161	80	28	0	0	1	0
NY ALBANY	63	39	78	33	51	-3	.3	-.5	.2	6.5	96	11.0	96	95	42	0	0	3	0
BINGHAMTON	61	40	75	36	51	-1	.2	-.5	.2	6.3	91	10.0	85	74	29	0	0	1	0
BUFFALO	61	39	70	33	50	-3	0	-.7	0	7.0	103	10.8	89	82	27	0	0	0	0
NEW YORK	63	48	79	44	55	-3	.8	0	.4	10.0	114	16.3	109	93	55	0	0	4	0
ROCHESTER	63	36	78	32	50	0	0	-.6	0	5.7	96	8.1	77	87	29	0	1	0	0
SYRACUSE	65	38	80	30	51	-2	T	-.7	T	5.1	70	8.8	70	83	31	0	2	0	0
NC ASHEVILLE	73	46	78	38	60	-2	T	-.9	T	6.9	73	16.5	104	94	42	0	0	1	0
CHARLOTTE	77	52	80	47	65	-1	.1	-.7	.1	6.3	69	16.3	98	87	40	0	0	2	0
GREENSBORO	75	49	84	41	62	-2	.1	-.7	.1	11.4	143	19.9	134	89	40	0	0	1	0
HATTERAS	71	48	78	40	60	-5	.2	-.6	.2	15.1	183	30.1	176	96	55	0	0	3	0
NEW BERN	77	51	89	45	64	-3	.3	-.6	.2	7.7	99	18.8	120	93	40	0	0	2	0
RALEIGH	76	48	88	43	62	-3	.1	-.7	.1	7.7	101	19.7	136	90	42	0	0	1	0
WILMINGTON	76	50	86	43	63	-5	.3	-.6	.2	5.9	74	16.9	111	97	42	0	0	2	0
ND BISMARCK	74	46	83	43	60	9	1.3	.8	1.3	2.7	101	4.5	122	88	37	0	0	1	1
FARGO	79	45	87	40	62	10	0	-.5	0	.7	22	1.9	45	58	21	0	0	0	0
GRAND FORKS	82	45	91	37	63	13	T	-.4	T	.6	24	2.1	55	57	17	1	C	0	0
WILLISTON	77	44	88	36	61	9	.2	-.1	.2	2.4	108	3.0	94	84	26	0	0	1	0
OH AKRON-CANTON	64	40	76	33	52	-4	.4	-.4	.4	7.4	98	9.7	79	76	37	0	0	1	0
CINCINNATI	73	44	80	41	59	-1	T	-.8	T	7.5	88	10.0	69	81	31	0	0	0	0
CLEVELAND	63	41	80	36	52	-3	.4	-.3	.4	7.3	101	9.0	82	84	33	0	0	1	0
COLUMBUS	68	40	79	36	54	-4	.2	-.6	.2	...	...	6.2	...	34	35	0	0	1	0

Based on 1951-80 normals.

Weather Data for the Week Ending May 9, 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
DAYTON	70	41	79	35	55	-1	0	0	5.5	74	7.6	62	82	34	0	0	0	0	
TOLEDO	67	37	82	35	52	-3	0	0	4.7	72	7.1	70	95	33	0	0	0	0	
YOUNGSTOWN	65	38	77	35	52	-2	0	0	6.6	86	9.0	72	77	36	0	0	0	0	
OK OKLAHOMA CITY	79	59	85	55	70	4	4	0	2.8	43	9.3	107	86	41	0	0	0	0	
TULSA	81	61	87	55	71	5	5	0	4.3	49	11.3	96	87	46	0	0	0	0	
OR ASTORIA	71	48	83	44	59	9	9	0	12.7	250	28.2	227	97	60	0	0	0	0	
BURNS	80	41	86	29	61	11	11	0	2.4	121	4.6	94	54	38	0	1	0	0	
MEDFORD	92	50	101	46	71	16	16	0	2.0	62	7.1	82	83	20	5	0	0	0	
PENDLETON	82	53	91	46	67	11	11	0	2.3	99	4.4	85	82	34	1	0	0	0	
PORTLAND	84	54	93	49	69	14	14	0	7.1	109	16.7	101	90	39	3	0	0	0	
SALEM	84	50	94	41	67	14	14	0	6.5	89	17.6	93	92	39	3	0	0	0	
PA ALLENTOWN	65	43	76	38	54	-3	1.1	0	7.6	86	12.6	83	86	41	0	0	0	0	
ERIE	60	38	74	32	49	-3	0.3	0	6.4	88	9.6	81	80	38	0	1	1	0	
HARRISBURG	69	43	79	37	56	-3	1.4	0	5.8	75	11.1	83	86	40	0	0	0	0	
PHILADELPHIA	68	45	79	41	57	-3	1.4	0	6.3	77	12.1	86	93	46	0	0	0	0	
PITTSBURGH	65	41	76	35	53	-4	1.0	0	9.1	116	12.1	92	73	36	0	0	0	0	
SCRANTON	63	41	76	34	52	-3	1.0	0	6.5	100	9.9	92	79	33	0	0	0	0	
RI PROVIDENCE	60	42	78	39	51	-3	1.1	0	13.7	148	18.7	110	92	51	0	0	0	0	
SC CHARLESTON	80	56	89	49	68	-2	0.6	0	7.6	95	19.4	133	96	41	0	0	0	0	
COLUMBIA	83	51	89	45	67	-2	0.2	0	6.1	62	19.8	109	94	36	0	0	0	0	
FLORENCE	80	52	88	46	66	-3	0.3	0	6.1	76	16.6	112	93	37	0	0	0	0	
GREENVILLE	78	51	83	45	65	-2	0.6	0	8.0	70	20.0	100	91	44	0	0	0	0	
SD ABERDEEN	77	48	89	40	63	10	0	0	2.2	61	3.4	72	78	32	0	0	0	0	
HURON	77	50	92	44	63	10	0	0	5.4	138	6.7	134	84	30	1	0	0	0	
RAPID CITY	73	46	87	39	59	7	0.3	0	1.8	51	3.6	78	84	38	0	0	0	0	
SIOUX FALLS	75	50	91	43	63	8	0	0	4.4	92	4.8	77	84	33	1	0	0	0	
TN CHATTANOOGA	80	55	83	50	68	2	1.1	0	8.0	66	21.5	98	97	44	0	0	0	0	
KNOXVILLE	78	50	80	42	64	-1	0.4	0	5.6	54	14.9	78	97	40	0	0	0	0	
MEMPHIS	82	62	86	57	72	4	0.4	0	7.6	60	15.2	70	83	43	0	0	0	0	
NASHVILLE	79	52	83	47	65	0	0.1	0	2.4	21	8.9	45	96	41	0	0	0	0	
TX ABILENE	81	54	84	48	67	-3	0	0	2.4	56	6.5	103	87	34	0	0	0	0	
AMARILLO	67	48	81	45	57	-5	0.8	0	2.3	91	4.4	122	95	52	0	0	0	0	
AUSTIN	82	64	85	61	73	0	1.0	0	2.8	47	6.6	66	96	52	0	0	0	0	
BEAUMONT	80	65	88	62	73	0	2.7	0	3.9	45	19.7	116	97	65	0	0	0	0	
BROWNSVILLE	86	68	88	64	77	-1	1.2	0	3.2	122	7.9	149	96	58	0	0	0	0	
CORPUS CHRISTI	85	67	87	61	76	0	1.1	0	2.7	76	10.9	165	99	55	0	0	0	0	
DEL RIO	84	62	89	58	73	-2	0.7	0	4.7	152	8.3	184	81	45	0	0	0	0	
EL PASO	80	50	84	44	65	-4	0	0	0.8	160	1.4	100	67	22	0	0	0	0	
FORT WORTH	82	61	85	59	72	1	1.8	0	3.6	46	8.5	75	97	50	0	0	0	0	
GALVESTON	79	69	84	66	74	0	1.9	0	2.6	45	11.3	103	93	65	0	0	0	0	
HOUSTON	81	65	85	64	73	-1	4.1	0	5.5	71	12.2	84	99	66	0	0	0	0	
LUBBOCK	75	50	84	47	62	-4	0	0	0.6	23	2.6	74	82	37	0	0	0	0	
MIDLAND	79	49	81	45	64	-6	0	0	1.9	101	4.0	143	85	31	0	0	0	0	
SAN ANGELO	80	53	84	49	67	-4	0	0	3.5	109	8.6	183	90	35	0	0	0	0	
SAN ANTONIO	83	62	85	58	73	-1	1.8	0	4.4	87	10.3	123	96	51	0	0	0	0	
VICTORIA	84	66	90	62	75	0	1.4	0	1.8	36	8.5	92	94	51	1	0	0	0	
WACO	82	61	83	57	71	-1	2.3	0	5.6	77	9.5	87	100	58	0	0	0	0	
WICHITA FALLS	82	57	87	55	69	0	1.0	0	3.2	53	9.1	115	87	34	0	0	0	0	
UT BLANDING	73	44	81	39	58	5	0	0	2.1	128	4.6	115	73	32	0	0	0	0	
CEDAR CITY	75	39	80	30	57	4	0.1	0	2.2	96	4.0	105	68	21	0	1	1	0	
SALT LAKE CITY	78	48	84	38	63	8	0	0	2.9	66	5.8	83	63	19	0	0	0	0	
VT BURLINGTON	59	35	72	28	47	-4	0.2	0	3.0	51	5.4	58	89	41	0	0	0	0	
VA NORFOLK	71	51	86	46	61	-3	0.9	0	7.0	91	20.0	136	90	50	0	0	0	0	
RICHMOND	74	48	87	42	61	-3	0.3	0	9.7	130	17.8	129	90	40	0	0	0	0	
ROANOKE	75	46	83	39	60	-2	1.1	0	16.6	214	25.6	187	93	36	0	0	0	0	
WA COLVILLE	81	45	89	36	63	11	0	0	4.8	180	7.1	113	78	32	0	0	0	0	
QUILLAYUTE	74	42	92	35	58	9	0.6	0	21.8	104	44.1	93	96	47	1	0	0	0	
SEATTLE-TACOMA	76	52	84	47	64	11	0	0	8.5	131	16.5	99	80	41	0	0	0	0	
SPOKANE	81	47	88	39	64	12	0	0	3.4	121	5.8	85	80	23	0	0	0	0	
YAKIMA	85	45	93	36	65	10	0	0	2.0	165	3.7	112	88	23	3	0	0	0	
WV BECKLEY	68	43	74	38	56	-2	0.3	0	9.8	117	16.7	111	86	37	0	0	0	0	
CHARLESTON	72	43	80	38	57	-4	0.8	0	6.2	72	12.7	84	98	37	0	0	0	0	
HUNTINGTON	73	44	81	39	58	-4	0.1	0	7.3	85	13.2	90	99	42	0	0	0	0	
PARKERSBURG	68	41	77	37	54	-6	0.5	0	6.0	76	9.1	68	97	43	0	0	0	0	
WI GREEN BAY	70	40	83	33	55	3	0	0	3.9	71	4.7	62	81	27	0	0	0	0	
LA CROSSE	76	44	92	36	60	4	0	0	4.9	83	6.3	82	79	23	1	0	0	0	
MADISON	70	39	82	32	55	1	0	0	5.7	93	7.0	85	84	31	0	2	1	0	
MILWAUKEE	65	43	83	37	54	3	0	0	6.5	97	9.0	94	76	35	0	0	0	0	
WAUSAU	72	41	84	33	56	4	0.1	0	2.4	42	3.1	40	70	20	0	0	0	0	
WY CASPER	73	39	84	32	56	7	0	0	2.0	64	4.8	117	79	20	0	1	1	0	
CHEYENNE	64	40	78	34	52	3	0.1	0	2.2	76	3.2	89	84	34	0	0	0	0	
LANDER	75	44	82	38	60	10	0	0	3.9	94	6.5	125	60	17	0	0	0	0	
SHERIDAN	77	41	88	34	59	9	0	0	1.8	48	3.0	57	78	23	0	0	0	0	
PR SAN JUAN	89	74	93	73	82	2	0.3	0	15.2	206	17.6	147	94	76	4	0	0	0	

Based on 1951-80 normals.

Cooling Degree Day Summary Table

CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 5-9-1987
ACCUMULATIONS ARE FROM JANUARY 1
\*\* = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

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. Rows list various cities and their corresponding cooling degree day data.

## April Weather and Crop Summary

### APRIL WEATHER SUMMARY

**HIGHLIGHTS:** A series of slow-moving storms moved through the central Appalachians and northeastward, resulting in above-normal precipitation for the Northeast. Temperatures were warmer than normal in the Northeast for most of the month, but a late-season storm late in the month dumped snow over much of the area and heavy snow accumulated in southern New England. Flooding occurred in New England and in western Virginia. Very dry weather plagued the northern Great Plains and upper Mississippi Valley, and precipitation was well below normal through much of the Plains and the South. Light showers helped the Midwest, but accumulations were less than normal. Widespread showers in northern Mexico spread into Arizona, New Mexico, and southwestern Texas.

Winter hung on in the first 4 days of the month as freezing temperatures reached almost to the gulf coast. Light snow fell in parts of the deep South, and heavy snow covered the Appalachians.

**FIRST WEEK...** Snow was still accumulating in the central and southern Appalachians as the week began, and moderate to heavy rain fell in the Northeast. Coupled with snowmelt, the rain caused serious flooding in the Northeast. The rain moved out after midweek, but the flooding continued. Another storm system spread rain from the Mississippi Valley to the Atlantic coast, except for Florida and New England. Average temperatures were warmer than normal in the West and across the Northern States but were cooler from the central and southern Great Plains across the South.

**SECOND WEEK...** A storm spread showers from the central Rockies and Great Plains to the east coast. Snow covered the central Rockies at the beginning of the week, and cold rain spread over the High Plains. Thunderstorms developed in the eastern part of the central Plains and moved through the Midwest, the lower Mississippi Valley, and the Mid-Atlantic States. Much of Virginia had serious flooding. Unusually warm weather spread through the Plains. Temperatures rose to the nineties as far north as North Dakota. At week's end another storm ushered in cooler air on strong, gusty winds.

**THIRD WEEK...** A storm system intensified in the central Rockies and moved slowly eastward. Snow fell in Colorado and Wyoming, and snow, cold rain, and gusty wind spilled over onto the High Plains. Later, a line of thunderstorms developed from southwestern Texas to Wisconsin. Rain spread across the Midwest, and as the system crossed the Appalachians, it slowed and drifted to South Carolina. Moderate to heavy thunderstorms were triggered from western South Carolina to western Virginia. Lighter showers or drizzle covered the rest of the Mid-Atlantic States. Comparatively cool weather spread eastward from the central Rockies behind a wedge of very warm air. At week's end, unusually warm weather again spread over the Southwest and the great Plains.

**FOURTH WEEK...** A late-winter storm dropped snow through much of the Northeast, with heavy amounts accumulating in southern New England. Cold weather lingered all week in the Northeast. Warm weather persisted across the South and in the Plains. Late in the month, cooler weather moved into the Northwest and spread showers through the West. Few showers developed in western Texas, the upper Mississippi Valley, and from Missouri and Arkansas to the Carolinas.

### APRIL FIELDWORK

Rain, snow, and unseasonably cold temperatures virtually halted seeding and land preparation across much of the eastern half of the Nation in early April. The second week of the month, warm, dry weather spurred land preparation and seeding in most areas. However, low soil temperatures hampered seeding in California, the Southeast, and the Delta. Wetness impeded planting in the Corn Belt and central Great Plains while dryness plagued the Southeast and Delta during most of the second half of April. Planting progress jumped dramatically in most areas near the end of April.

Cold, freezing temperatures damaged fruit trees across much of the eastern half of the nation the first half of the month. Fruit crops suffered moderate to severe damage in Arkansas, Kentucky, and Tennessee. Freeze damage was heavy in some Georgia peach producing areas but damage was mostly light in South Carolina. Texas peaches suffered substantial bloom loss across the western half of the State.

Corn planting was limited mostly to the Southeast at the beginning of April. By midmonth, planting was 5 percent finished and had moved into the Corn Belt. Planting moved at a modest pace until near the end of the month when Iowa and Illinois seeded half their acreage in one week. On May 3rd, planting was 48 percent finished in the 17 major producing states, 23 points ahead of normal.

At month's end, cotton seeding at 37 percent completion, was 5 points above normal. As a result of cold weather and dryness, seeding was 8, 13, and 24 points behind normal in Georgia, North Carolina, and South Carolina, respectively. Cold weather and dryness hampered growth in Texas. Arizona's cotton was mostly good during the month.

The 11 major sorghum producing States seeded 21 percent of the sorghum, 1 point below the 5-year average. By month's end, seeding was underway in all States except South Dakota. The lack of moisture slowed growth in Texas.

Rice was 67 percent seeded and 30 percent emerged on May 3rd. Emergence equaled the average but seeding was 21 points above the average. Arkansas seeding got off to a slow start but ended the month 43 points above normal. Seeding was 1 point below normal in Mississippi.

Soybean seeding reached 4 percent completion on May 3rd. Planting was just beginning in most States.

Spring wheat seeding progressed rapidly during April. Seventy-two percent of the acreage was seeded, 27 points greater than normal. Seeding was 20 points or more ahead of schedule in all States except Montana. Seeding neared completion in Idaho, Minnesota, and South Dakota.

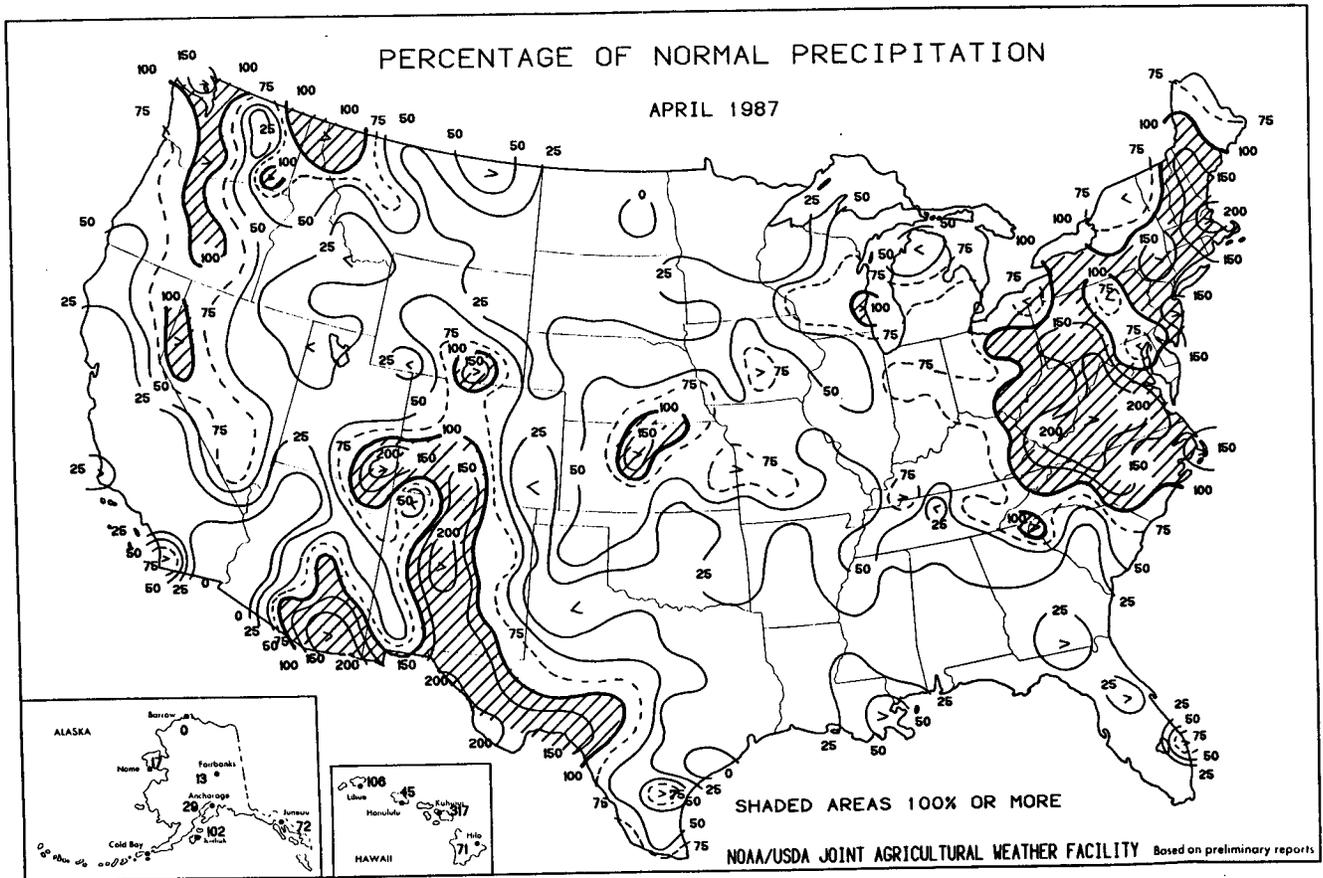
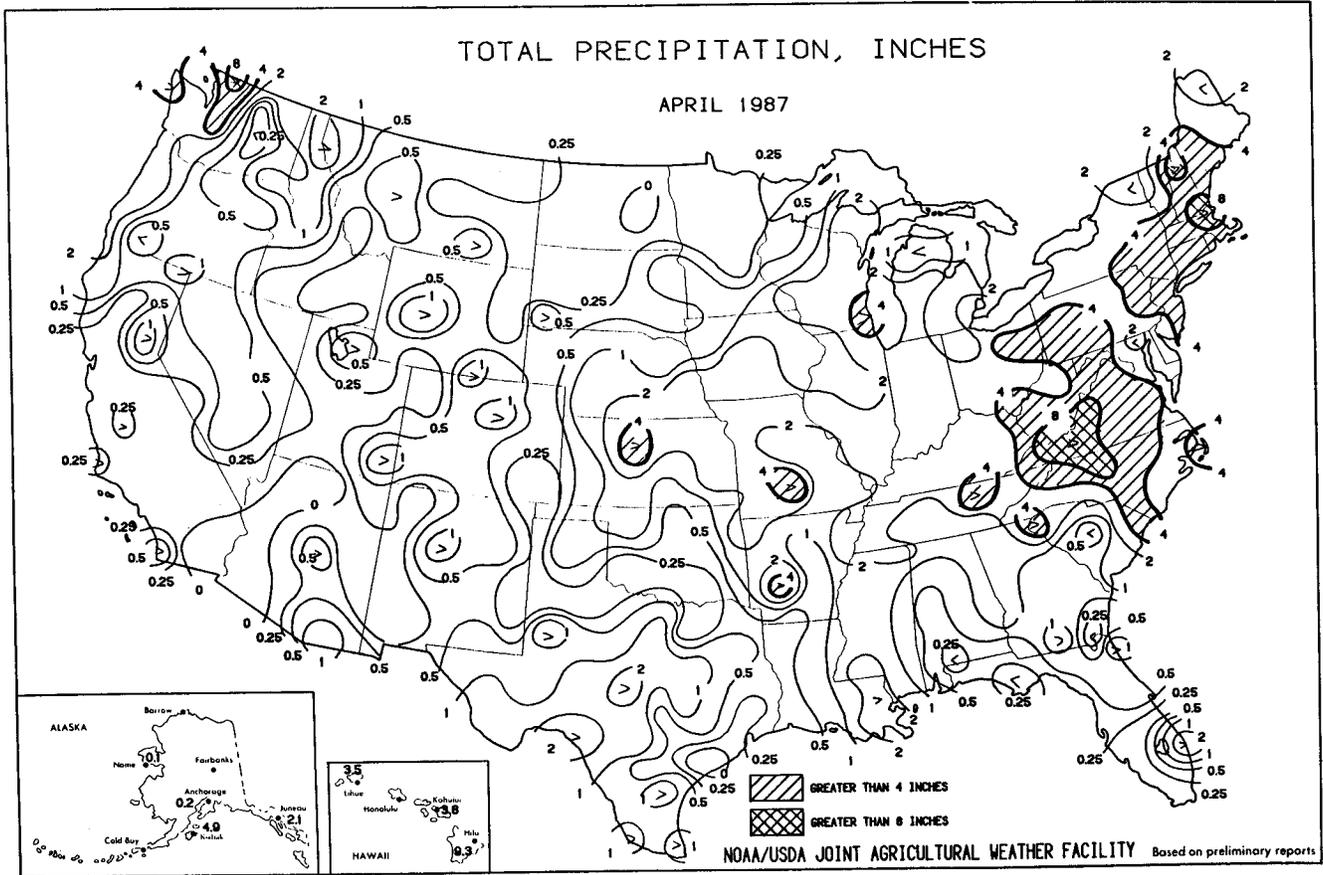
### HIGHLIGHTS

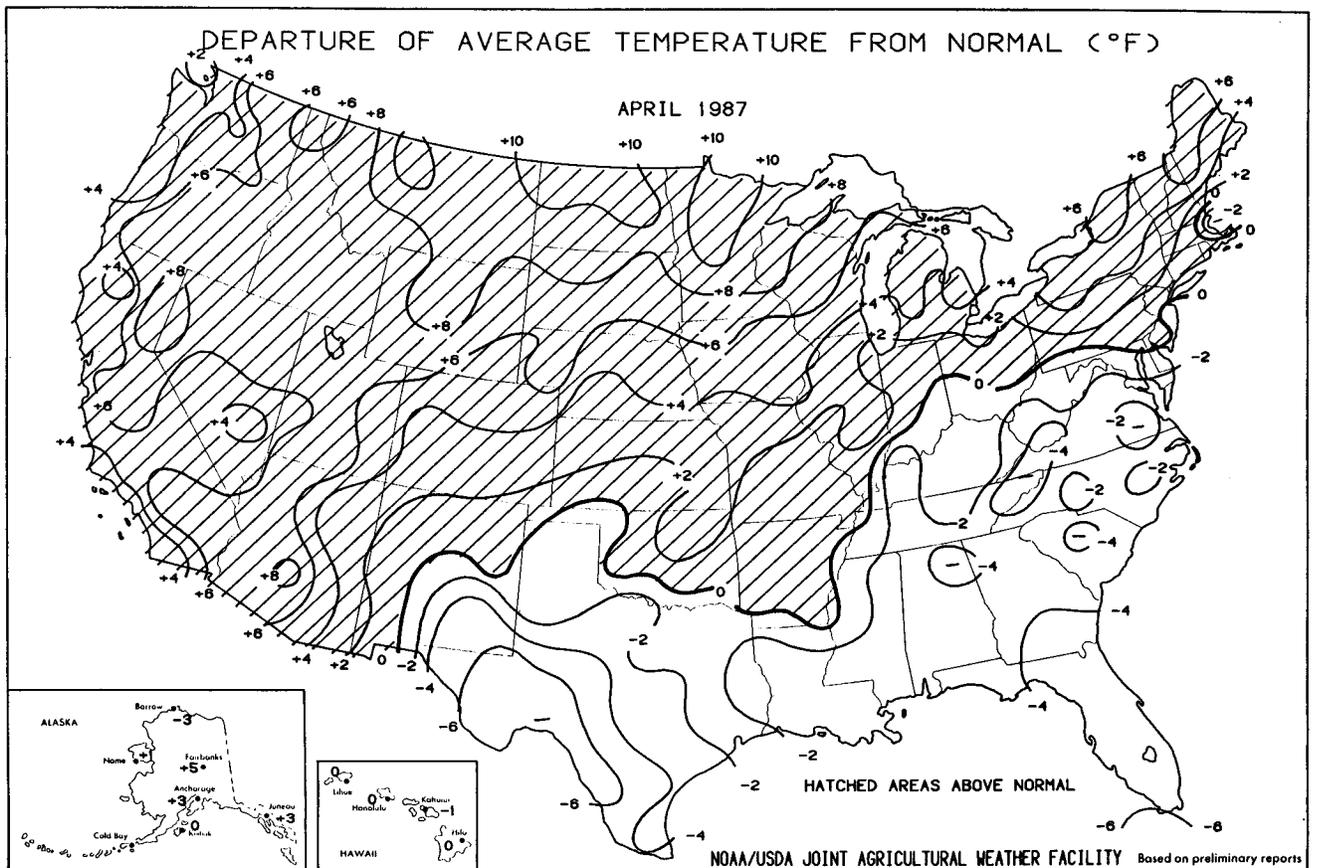
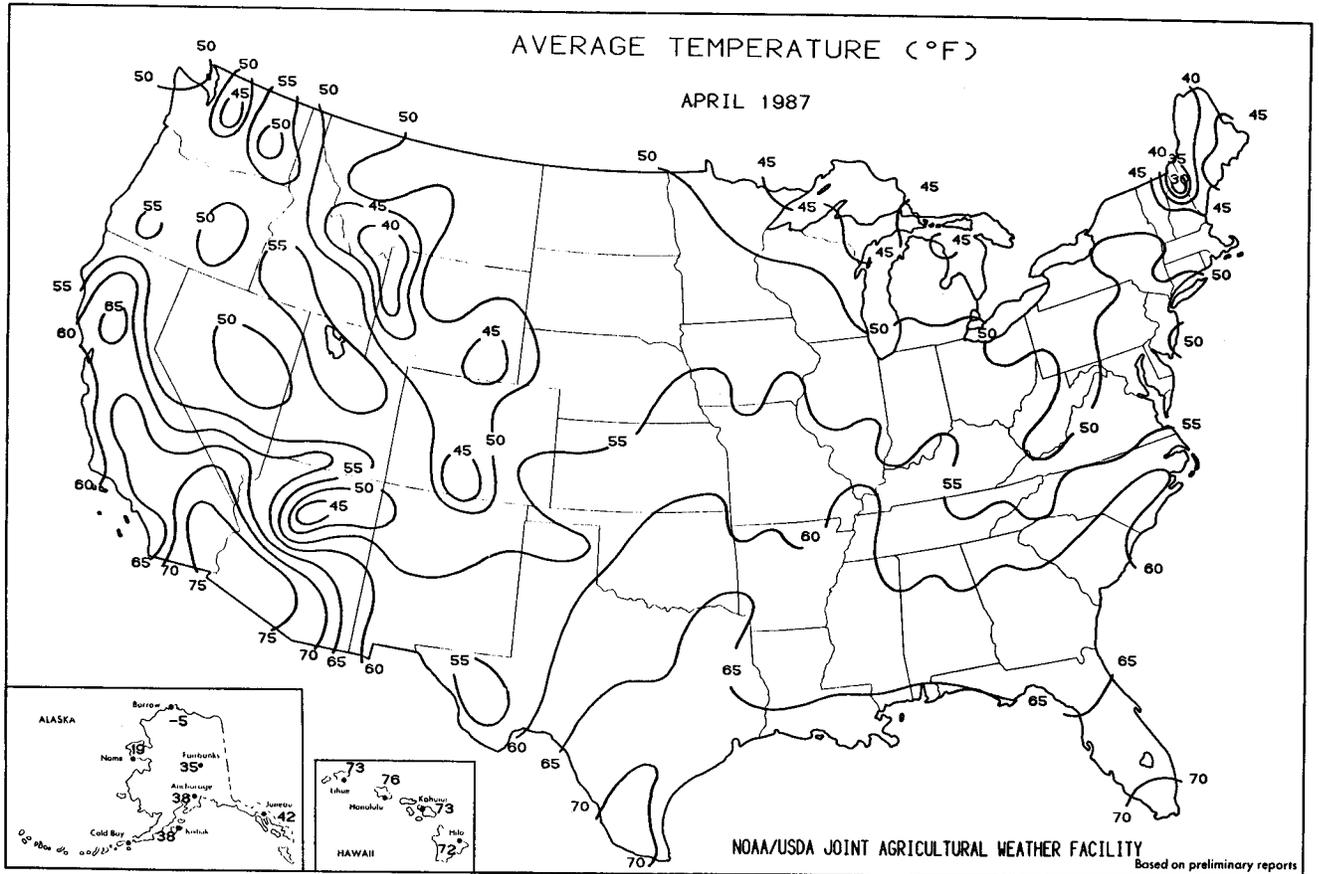
**WINTER WHEAT** production is forecast as of May 1 at 1.55 billion bushels, 2 percent above the 1986 crop. Acres harvested from grain is estimated at 38.9 million acres, down 10 percent from last year.

**CITRUS** production is forecast at 12.1 million tons, 10 percent higher than last season.

**ORANGE** production is forecast at 190 million boxes, 8 percent higher than last season. As of May 1, 66 percent of the crop was harvested.

(Continued to back cover)





Temperature and Precipitation Data for APRIL 1987

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	59	-3	1.0	-4.0	BATON ROUGE	66	-3	1.4	-4.2	DAYTON	51	0	3.3	-0.1
MOBILE	65	-3	0.8	-4.5	LAKE CHARLES	66	-2	0.5	-3.4	TOLEDO	50	3	1.8	-1.3
MONTGOMERY	62	-3	0.7	-3.7	NEW ORLEANS	66	-2	2.3	-2.2	YOUNGSTOWN	49	2	3.0	-0.4
AK ANCHORAGE	38	3	0.2	-0.4	SHREVEPORT	64	-2	0.5	-4.2	OK OKLAHOMA CITY	62	2	0.4	-2.5
BARROW	-4	-3	T	-0.2	ME CARIBOU	44	7	1.7	-0.9	TULSA	63	2	0.7	-3.4
FAIRBANKS	35	5	0.1	-0.2	PORTLAND	45	-2	6.3	2.4	OR ASTORIA	51	3	3.0	1.2
JUNEAU	42	3	2.1	-0.8	MD BALTIMORE	53	-1	1.8	-1.5	BURNS	49	6	0.8	0.1
KODIAK	38	0	4.9	1.3	MD SALISBURY	52	-2	3.2	0.0	MEDFORD	57	7	0.5	-0.6
NOME	19	1	0.1	-0.5	MA BOSTON	45	-4	9.5	5.8	PENDLETON	54	4	0.5	-0.5
AZ FLAGSTAFF	45	3	0.2	-1.2	CHATHAM	45	0	7.3	3.4	PORTLAND	54	4	1.9	-0.4
PHOENIX	78	10	0.1	-0.2	MI ALPENA	45	4	1.2	-1.4	PA SALEM	52	3	2.4	0.0
PRESCOTT	56	7	0.2	-0.6	DETROIT	51	3	2.1	-1.0	ALLENTOWN	51	1	4.4	0.5
TUCSON	70	5	0.8	0.5	FLINT	50	4	1.8	-1.3	HARRISBURG	52	0	2.9	-0.3
WINSLOW	56	3	T	-0.3	GRAND RAPIDS	50	4	2.5	-1.1	ERIE	48	3	1.8	-1.8
YUMA	78	7	0.0	-0.1	HOUGHTON LAKE	47	5	1.0	-1.6	PHILADELPHIA	53	0	3.6	0.2
AR FORT SMITH	62	0	1.1	-3.1	LANSING	49	3	1.6	-1.3	PITTSBURGH	50	0	5.3	2.0
LITTLE ROCK	64	1	0.6	-4.8	MARQUETTE	44	7	2.3	-0.3	SCRANTON	51	2	4.4	1.4
CA BAKERSFIELD	67	5	0.1	-0.6	MUSKOGON	48	3	2.8	-0.3	RI PROVIDENCE	48	0	7.0	3.0
EUREKA	54	5	1.2	-1.7	SAULT STE. MARI	46	8	1.3	-1.1	SC CHARLESTON	62	-2	1.3	-1.2
FRESNO	67	7	0.1	-1.1	MN ALEXANDRIA	53	11	0.2	-2.0	COLUMBIA	60	-4	0.4	-3.2
LOS ANGELES	63	4	T	-0.9	DULUTH	46	8	0.2	-1.9	FLORENCE	61	-3	2.6	-0.3
REDDING	63	3	0.1	-2.7	INT'L FALLS	48	10	0.1	-1.5	GREENVILLE	58	-2	2.3	-2.1
SACRAMENTO	63	4	0.2	-1.1	MINNEAPOLIS	54	8	0.2	-1.9	SD ABERDEEN	52	7	0.4	-1.5
SAN DIEGO	64	2	0.8	0.0	ROCHESTER	51	6	1.0	-1.5	HURON	54	8	0.4	-1.6
SAN FRANCISCO	59	4	0.2	-1.4	ST. CLOUD	51	8	0.1	-2.2	RAPID CITY	52	7	T	-1.9
STOCKTON	64	5	0.1	-1.3	MS GREENWOOD	63	-2	1.3	-4.2	STIOUX FALLS	52	6	0.3	-2.1
CO DENVER	52	4	1.0	-0.8	JACKSON	62	-3	1.2	-4.5	TN CHATTANOOGA	58	-2	1.7	-2.9
GRAND JUNCTION	55	3	0.4	-0.3	MERIDIAN	63	-2	0.9	-4.5	KNOXVILLE	55	-5	2.2	-1.7
PUEBLO	53	2	0.3	-0.7	MO COLUMBIA	55	1	1.9	-2.0	MEMPHIS	62	0	3.8	-2.0
CT BRIDGEPORT	50	2	4.7	1.0	KANSAS CITY	57	2	2.2	-1.1	NASHVILLE	58	-2	1.0	-3.4
HARTFORD	49	1	5.3	1.3	SAINT LOUIS	57	1	1.7	-1.8	TX ABILENE	63	-2	0.9	-1.5
DC WASHINGTON	55	-2	2.3	-0.6	SPRINGFIELD	57	0	2.1	-1.9	AMARILLO	55	-2	0.6	-0.5
FL APALACHICOLA	65	-3	0.1	-3.1	MT BILLINGS	54	10	0.4	-1.5	AUSTIN	67	-1	0.5	-2.6
DAYTONA BEACH	65	-5	0.3	-2.0	GLASGOW	52	10	0.5	-0.3	BEAUMONT	67	-2	0.3	-3.9
FT. MYERS	69	-4	0.1	-1.4	GREAT FALLS	53	10	0.6	-0.9	BROWNSVILLE	70	-5	1.4	-0.2
JACKSONVILLE	64	-4	0.1	-2.9	HAVRE	50	8	0.4	-0.8	CORPUS CHRISTI	68	-5	1.1	-0.7
KEY WEST	71	-7	0.2	-1.3	HELENA	50	8	0.8	-0.3	DEL RIO	65	-7	3.2	1.4
MIAMI	71	-5	0.4	-2.8	KALISPELL	49	6	1.2	0.2	EL PASO	60	-4	0.3	0.1
ORLANDO	67	-5	0.6	-1.7	MILES CITY	54	9	0.2	-1.2	FORT WORTH	65	-1	0.1	-4.0
TALLAHASSEE	62	-5	0.4	-3.7	MISSOULA	50	6	0.4	-0.6	GALVESTON	67	-2	0.3	-2.3
TAMPA	66	-5	0.4	-1.4	NE GRAND ISLAND	54	4	1.4	-1.3	HOUSTON	67	-1	0.5	-3.3
WEST PALM BEACH	69	-5	2.6	-0.6	LINCOLN	55	4	2.3	-0.5	LUBBOCK	59	-1	0.1	-1.0
GA ATLANTA	60	-2	1.2	-3.3	NORFOLK	54	5	0.7	-1.5	MIDLAND	59	-5	0.6	-0.2
AUGUSTA	60	-3	0.8	-2.5	NORTH PLATTE	51	4	1.0	-0.8	SAN ANGELO	61	-5	1.3	-0.4
MACON	62	-3	0.7	-2.8	OMAHA	56	5	2.4	-0.5	SAN ANTONIO	66	-3	1.5	-1.2
SAVANNAH	64	-2	0.5	-2.7	SCOTTSBLUFF	51	5	0.4	-1.0	VICTORIA	68	-3	0.0	-2.6
HI HILO	72	0	9.4	-3.7	VALENTINE	51	5	0.6	-1.2	WACO	65	-2	1.6	-2.2
HONOLULU	76	0	0.5	-0.9	NV ELKO	50	7	0.3	-0.6	WICHITA FALLS	62	-2	0.3	-2.6
KAHULUI	73	-1	3.8	2.7	ELY	47	6	0.3	-0.6	UT BLANDING	52	5	1.5	0.8
LIHUE	73	-1	3.4	0.1	LAS VEGAS	69	5	0.2	0.0	CEDAR CITY	53	6	0.2	-0.8
ID BOISE	56	8	0.4	-0.8	RENO	55	9	0.5	0.1	MILFORD	51	5	0.3	-0.7
LEWISTON	57	7	0.8	-0.3	WINNEMUCCA	52	6	0.5	-0.3	SALT LAKE CITY	56	7	0.8	-1.4
POCATELLO	52	7	0.5	-0.7	NH CONCORD	46	2	4.7	1.7	VT BURLINGTON	48	6	1.4	-1.3
IL CAIRO	61	1	1.8	-1.6	NJ ATLANTIC CITY	49	-2	5.8	2.6	VA NORFOLK	55	-4	3.8	1.0
CHICAGO	50	1	2.3	-1.5	NM ALBUQUERQUE	55	0	1.0	0.6	RICHMOND	54	-4	7.3	4.4
MOLINE	53	2	1.5	-2.5	NM CLOVIS	57	0	0.2	-0.6	ROANOKE	53	-3	11.4	8.3
PEORIA	54	3	1.8	-2.0	NY ROSWELL	57	-4	0.2	-0.2	WA COLVILLE	53	6	1.2	0.2
QUINCY	55	2	1.9	-2.0	ALBANY	50	4	4.3	1.3	QUILLAYUTE	49	3	6.9	-0.3
ROCKFORD	51	3	1.9	-2.3	BINGHAMTON	49	4	4.2	1.1	SEATTLE-TACOMA	52	4	2.6	0.2
SPRINGFIELD	55	1	2.6	-1.4	BUFFALO	50	4	3.4	0.3	SPOKANE	51	5	1.1	0.0
IN EVANSVILLE	54	-2	2.3	-1.8	NEW YORK	52	1	4.8	1.0	WALLA WALLA	59	7	1.5	0.1
FORT WAYNE	51	2	2.2	-1.4	ROCHESTER	50	4	3.7	1.0	YAKIMA	53	4	0.6	0.1
INDIANAPOLIS	52	0	2.7	-1.0	SYRACUSE	52	6	3.3	0.0	WV BECKLEY	47	-4	7.7	4.2
SOUTH BEND	50	2	2.7	-1.4	NC ASHEVILLE	52	-3	3.7	0.2	CHARLESTON	53	-3	4.1	0.6
IA DES MOINES	55	4	2.9	-0.3	CHARLOTTE	59	-2	2.4	-0.8	ELKINS	47	-2	3.9	0.2
DUBUQUE	52	5	1.5	-2.7	GREENSBORO	56	-3	8.1	4.9	HUNTINGTON	53	-3	4.8	1.3
STIOUX CITY	55	5	0.6	-1.7	HATTERAS	56	-3	5.3	2.1	PARKERSBURG	52	-2	3.9	0.5
WATERLOO	52	5	1.4	-2.1	NEW BERN	60	-2	3.6	0.6	WI GREEN BAY	49	5	2.3	-0.4
KS CONCORDIA	56	3	2.9	0.7	RALEIGH	57	-3	4.7	1.8	LA CROSSE	53	6	2.3	-0.7
DOGE CITY	55	1	0.9	-0.9	WILMINGTON	60	-3	3.0	0.0	MADISON	50	4	2.5	-0.6
GOODLAND	52	3	0.5	-0.7	ND BISMARCK	51	9	0.1	-1.4	MILWAUKEE	48	3	4.3	0.9
TOPEKA	57	3	2.4	-0.7	FARGO	51	9	0.1	-1.8	WAUSAU	50	7	1.3	-1.5
WICHITA	57	1	0.6	-1.8	GRAND FORKS	50	10	0.2	-1.2	WY CASPER	50	8	0.4	-1.1
KY BOWLING GREEN	56	-2	2.2	-2.0	WILLISTON	52	10	0.3	-1.0	CHEYENNE	47	5	0.7	-0.6
JACKSON	54	1	3.7	-0.3	OH AKRON-CANTON	49	1	4.0	0.8	LANDER	51	9	1.4	-0.8
LEXINGTON	54	-2	2.2	-1.8	CINCINNATI	53	0	2.8	-0.7	SHERIDAN	51	9	0.2	-1.8
LOUISVILLE	55	-1	2.4	-1.7	CLEVELAND	49	1	3.0	-0.3	PR SAN JUAN	81	2	9.6	6.1
LA ALEXANDRIA	64	-3	0.6	-4.8	COLUMBUS	52	0	2.1	-1.3					

BASED ON 1951-80 NORMALS.

Heating Degree Days (Base 65° F.)

April 1987

ALA. Birmingham . . . . .	187	MAINE, Caribou . . . . .	629	OKLA. Okla. City . . . . .	177
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Little Rock . . . . .	134	Internatl Falls . . . . .	513	R. I. Providence . . . . .	494
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Sacramento . . . . .	94	Vicksburg U . . . . .	--	Rapid City . . . . .	408
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Topeka . . . . .	292	OHIO. Akron-Canton . . . . .	466	WIS. Green Bay . . . . .	478
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## National Agricultural Summary

May 4 to 10, 1987

**HIGHLIGHTS:** Rain interrupted planting in the central and southern Great Plains, Delta, Southeast, and parts of the Corn Belt but provided much needed moisture in these areas. Planting continued at a rapid pace in most areas. The rain enhanced wheat growth but may be too late to help early planted small grains in the southern Great Plains. Fieldwork averaged 5 to 6 days in most areas of the Nation. Precipitation slowed fieldwork, however, to 4 days or less in Kansas, Virginia, Tennessee, Mississippi, and Louisiana. Despite rain, topsoil moisture was short to adequate in most areas.

Corn planting surged 28 percentage points from the previous week. Seventy-six percent of the acreage was seeded, compared with the 47% 5-year average. Soybeans were 21% planted, 12 points above normal. Planting was underway in all major producing States. Sorghum seeding reached 26% completion, equaling the average. Cotton planting was 5 points above normal. Planting continued lagging behind normal in the Southeast. Spring wheat seeding approached completion in most States. Winter wheat was 32% headed, compared with 54% in 1986 and 35% normally. Rice was 81% seeded, 24 points above normal. Livestock was mostly good.

**SMALL GRAINS:** Winter wheat was mostly good, except in the Delta and southern Great Plains, where condition was mostly fair to good. Rain provided much needed moisture in the central Great Plains, Delta, Southeast, and lower western Corn Belt. Heading was 32 percent (%) finished, compared with 54% in 1986 and the 35% average. Heading was behind normal in Colorado, Indiana, Kansas, Oklahoma, and Texas. Wheat had not begun heading in Idaho, Michigan, Montana, Nebraska, and South Dakota. Cold weather and the lack of moisture have been the main reasons for slow development in most States.

Rain and warm weather promoted rapid wheat growth in Kansas. Insects and disease levels were normal for this time of year. Nebraska's wheat was good to fair and improved with rain. Farmers increased spraying to curtail Russian aphids along the Wyoming border. Forty-five percent of North Dakota's wheat reached the jointing stage. Winter wheat was mostly good to excellent in South Dakota. Wheat streak mosaic was present in some fields.

Oklahoma's wheat was under moisture stress. Weeds and nitrogen shortage problems were evident in major producing areas. The first wheat fields were harvested in southern Texas. Much of the wheat producing area remained dry, causing crop stress.

Heat hastened small grain maturity in California. Some fields were abandoned or pastured-off because of the lack of moisture. Some early variety wheat was harvested in Arizona.

Spring wheat seeding advanced 17 points ahead of the previous week to 89% finished. Planting was 45 points above 1986 and 26 points above the average. Emergence was 27 points above normal. Seeding was finished in Idaho and South Dakota and neared completion in Minnesota. Latter plantings emerged unevenly in Minnesota.

**CORN:** Corn was 76% seeded, compared with 63% last year and 47% normally. Seeding jumped 28 points from the previous week. All States equaled or exceeded the normal seeding pace, except in North Carolina. Planting neared completion in the Delta and Southeast States and approached completion in

the Corn Belt. Timely moisture gave corn a significant boost in Texas. Silking was imminent but had not started.

**SOYBEANS:** Soybeans were 21% planted in the 19 major producing States, 12 points above normal. Seeding ranged from 4% finished in North Carolina to 40% finished in Illinois. Indiana and Illinois seeded nearly a third of their crop. Planting was behind normal in Georgia, Louisiana, and North Carolina by no more than 6 points in either State.

**SORGHUM:** The 11 major sorghum producing States seeded 26% of their acreage, equaling the average. Seeding was just beginning in Kansas and South Dakota but trailed 8 points behind normal in Texas and 20 points behind normal in Louisiana. Grain sorghum benefited from moisture in Texas. Replanting was necessary in parts of the Blacklands.

**COTTON:** Cotton was 49% planted, 5 points above the average. Dryness and rain hampered planting in Southeast, but Georgia, North Carolina, and South Carolina were able to make sizable planting gains from the previous week. Planting was behind normal in these States and Arizona and Oklahoma. Cotton was squaring in Yuma County, Arizona.

**OTHER CROPS:** Rice ended the week 81% planted and 50% emerged, both ahead of normal. Planting was almost finished in Texas and nearly half finished in California. Planting was ahead of normal in all States and by as much as 38 points in Arkansas. Tobacco transplanting was finished in Georgia. Transplanting trailed 15 points behind normal in North Carolina. Burley and dark tobacco setting was underway in Kentucky.

Peanut planting lagged behind normal in all States except Mississippi. Thirty-nine percent of Georgia's acreage was seeded, compared with 34% in 1986 and 59% average. Seeding registered a 22 point deficit in North Carolina. Alabama and Virginia were 19 and 42 points behind, respectively. Peanut seeding gained momentum, but some areas need moisture before planting in Texas. Seeding was 10% finished, slightly behind normal.

**FRUIT AND NUTS:** Irrigation continued in Florida's citrus producing areas. Many areas received light rain, but more is needed. New growth was abundant, and normal new crop shedding continued. Old crop citrus remaining for harvest held well with good quality and high yields for valencia oranges. Grapefruit harvest slowed. Rain helped citrus groves in Texas.

Nectarine, peach, and plum growers thinned excess fruit in California. The hot weather hastened cherry and apricot maturity. Raisin grape growers applied growth hormones. Navel orange harvest neared completion. Apples were thinned, and pecans bloomed in southwestern Arizona. Grapefruit movement was heavy in the Salt River Valley, but valencia orange harvest slowed at Yuma.

**VEGETABLES:** Vegetable harvest neared completion in southern Florida. Potatoes, tomatoes, sweet corn, cucumbers, celery, peppers, and cabbage were volume leaders. Good supplies of watermelons, lettuce, radishes, snap beans, carrots, and eggplant were available.

Rain interrupted vegetable harvest in the Rio Grande Valley. Rain was needed in east Texas vegetable areas.

(Continued to back cover)

**CROP PROGRESS**

FOR WEEK ENDING MAY 10, 1987

**SPRING WHEAT  
% PLANTED**

	1987	1986	AVG.
IDAHO	100	82	80
MINN	98	26	64
MONT	75	74	74
N DAK	87	34	50
S DAK	100	54	81

5 STATES 89 44 63

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

**SPRING WHEAT  
% EMERGED**

	1987	1986	AVG.
IDAHO	87	65	52
MINN	73	11	25
MONT	53	57	46
N DAK	41	13	19
S DAK	91	26	55

5 STATES 58 24 31

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

**RICE  
% EMERGED**

	1987	1986	AVG.
ARK	50	49	27
CALIF	8	2	1
LA	76	89	73
MISS	30	84	48
TEX	81	93	78

5 STATES 50 58 40

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

**SOYBEANS  
% PLANTED**

	1987	1986	AVG.
ALA	11	7	8
ARK	7	9	6
GA	5	4	11
ILL	40	27	16
IND	35	10	8
IOWA	20	7	7
KANS	10	10	2
KY	12	12	6
LA	5	23	10
MICH	5	3	5
MINN	34	2	5
MISS	6	11	6
MO	18	18	11
NEBR	7	8	5
N C	4	8	9
OHIO	24	20	16
S C	4	1	4
S DAK	9	0	4
TENN	9	9	6

19 STATES 21 13 9

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

**WINTER WHEAT  
% HEADED**

	1987	1986	AVG.
ARK	96	96	NA
CALIF	96	95	87
COLO	1	9	5
GA	94	96	94
IDAHO	0	0	0
ILL	45	50	19
IND	5	15	7
KANS	25	70	30
MICH	0	0	0
MO	57	67	31
MONT	0	0	0
NEBR	0	0	0
N MEX	90	80	NA
N C	63	87	NA
OHIO	1	5	0
OKLA	65	97	75
OREG	7	0	0
S DAK	0	0	0
TEX	62	91	70
WASH	2	0	0

20 STATES 35 56 NA

EXCL. STATES WITH NA 32 54 35

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

NA - NOT AVAILABLE.

**RICE  
% PLANTED**

	1987	1986	AVG.
ARK	88	78	50
CALIF	45	15	12
LA	84	93	82
MISS	82	96	72
TEX	99	99	93

5 STATES 81 75 57

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

**GRAIN SORGHUM  
% PLANTED**

	1987	1986	AVG.
ARK	74	54	NA
ILL	18	19	8
KANS	5	10	3
LA	51	85	71
MISS	52	62	36
MO	27	34	18
NEBR	12	5	6
OKLA	10	15	5
S DAK	5	0	2
TENN	45	45	30
TEX	59	69	67

11 STATES 29 33 NA

EXCL. STATES WITH NA 26 32 26

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

NA - NOT AVAILABLE.

**CORN  
% PLANTED**

	1987	1986	AVG.
COLO	58	72	58
GA	96	95	95
ILL	90	87	62
IND	85	65	40
IOWA	90	64	54
KANS	70	80	40
KY	73	79	46
MICH	60	50	40
MINN	86	30	34
MO	80	83	56
NEBR	52	62	32
N C	79	96	88
OHIO	75	66	54
PA	33	40	28
S DAK	48	8	18
TEX	95	99	95
WIS	49	40	29

17 STATES 76 63 47

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

**COTTON  
% PLANTED**

	1987	1986	AVG.
ALA	86	47	66
ARIZ	93	98	97
ARK	68	63	47
CALIF	96	95	96
GA	32	30	53
LA	71	86	62
MISS	68	83	57
MO	86	83	39
N MEX	78	45	36
N C	49	74	65
OKLA	5	25	10
S C	62	79	83
TENN	75	75	45
TEX	26	25	24

14 STATES 49 50 44

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

**WEEKLY CROP CONDITION PERCENT  
FOR WEEK ENDING MAY 10, 1987**

STATE	WINTER WHEAT				
	VP	P	F	G	EX
ARK	8	25	43	21	3
CALIF	0	5	5	85	5
COLO	0	3	24	53	20
GA	1	11	47	39	2
IDAHO	0	4	4	86	6
ILL	0	0	5	75	20
IND	0	2	27	64	7
KANS	0	3	21	49	27
MICH	5	10	25	45	15
MO	1	11	51	37	0
MONT	0	0	17	74	9
NEBR	0	0	29	65	6
N MEX	0	0	70	30	0
N C	0	0	20	77	3
OHIO	0	2	17	66	15
OKLA	0	0	45	55	0
OREG	0	0	10	56	34
S DAK	3	0	16	73	8
TEX	2	14	51	27	6
WASH	0	2	8	80	10

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

## 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 1.00 to 3.00 in. central; 2.00 to 4.00 in. southwest; 15.00 in. coast. Temperatures averaged near normal.

Days suitable for fieldwork 5.9. Soil moisture 79% short, 21% adequate. Scattered showers helped some areas; more rain needed. Fieldwork slightly behind normal. Corn 95% planted, 90% 1986, 88% avg. Cotton 86% planted, 47% 1986, 66% avg. Sorghum 24% planted, 22% 1986, 26% avg. Soybeans 11% planted, 7% 1986, 8% avg. Peanuts 40% planted, 28% 1986, 59% avg. Hay 1st cutting 20% harvested. Wheat 90% headed, 91% 1986, 87% avg.; 28% turning color, 41% 1986, 23% avg.; 5% poor, 66% fair, 29% good. Peach harvest begun Mobile County. Livestock good to fair. Pastures fair to good. Primary activities: Land preparation, planting row crops, vegetables; applying herbicides; seeding pastures; spraying orchards; cutting, baling hay; stocking, fertilizing fish ponds; routine care livestock, poultry.

**ALASKA:** Warm days, cool nights and occasional light showers. Temperature lows and highs, 1 to 7° warmer than normal. Most areas drier than normal.

Days suitable for fieldwork 7.0. Topsoil moisture supplies 15% short, 66% adequate, 19% surplus. Subsoil moisture supplies 5% short, 61% adequate, 24% surplus. Most areas of Railbelt 10 days ahead of schedule. Barley for grain underway with 13% seeding complete. Commercial lettuce, cabbage planting and transplanting made good progress. Livestock fair to excellent.

**ARIZONA:** Sunny, dry, warmer weather prevailed 4th with strong high pressure aloft. Moisture set east 5th. Isolated showers, thunderstorms 6th. Strong southeasterly winds transported moisture, produced monsoon-like conditions. Numerous afternoon, evening showers, thunderstorms statewide. Very warm, humid conditions 9th. Some thunderstorms caused gusty winds, blowing dust. Rain amounts mostly over 0.25 in., except 0.07 in. Nogales, almost 1.50 in. Sierra Vista. Average temperatures 1 to 11° above seasonal normals.

Potato harvest advanced; both chipper, table stock shipped. Spring onion shipments heavy. Melon progress west ahead of normal. Harvest spring lettuce Willcox expected 18th, insecticide controls applied; lettuce deal essentially complete elsewhere. Other vegetable shipments light, including greens, carrots, squash, turnips, few artichokes. Movement valencia oranges light Yuma, complete 17th. Grapefruit movement heavy Salt River Valley, some valencia oranges shipped. Apples thinned, pecans bloomed southeast. Cotton planting advanced, 15% squared Yuma County. Crop good to excellent, except Pinal County where winds dried soil, producers watered back. Weed, insect infestations light to nonexistent all areas. First cuttings alfalfa southeast; moderate weed, insect damage, crop fair; elsewhere excellent. Small grains 99% heading, 45% turning color, crops mostly good. Some earlier varieties harvested west.

**ARKANSAS:** Temperatures slightly above normal with scattered thundershowers latter part. Temperature extremes 41°; 90°. Rainfall none to 3.70 in.

Days suitable for fieldwork 6.0. Rice 10% poor, 64% fair, 26% good. Sorghum 47% emergence. Sorghum 15% poor, 43% fair, 42% good. Oats 79% headed. Corn 91% planted. Cotton 34% emerged. Cotton 5% very poor, 5% poor, 47% fair, 35% good.

Showers replenished many dry areas. Major activities: Cotton, sorghum, soybean planting; flushing rice fields; applying fertilizer, herbicides; hay cutting.

**CALIFORNIA:** Hot dry weather covered State, many record high temperatures set northern, central areas. High pressure responsible unusual warmth, allowed little inland cooling sea breezes. Thundershowers develop 7th, 8th provided little relief from heat, little rainfall.

Heat hastened small grain maturity; some fields abandoned, pastured off; lack moisture. Alfalfa, oat hay baling continued. Cotton up, looking good; irrigation, thinning, fertilizing, treatment continued. Rice planting well advanced; some chemical treatments reported. Sugarbeets treated, aphids, leafhoppers. Corn, dry bean plantings continued. Apple growers thinned crop, Sonoma County. Apricot maturity advanced by heat; harvest next week. Hot weather hastened maturity cherry crop; sizes smaller. Fig growers leveled orchards for harvest. Raisin grape growers applied growth hormones. All grape growers treated vines for pests, mildew. Bees moved into kiwifruit for bloom, minor wind damage reported. Nectarine, peach, plum growers thinned excess fruit. Pomegranates, olives in bloom. Navel orange harvest neared completion. Almond orchards limb breakage due heavy crop. Artichokes moderate, good quality, Salinas. Harvest at peak, Santa Cruz-San Mateo Coast. Asparagus harvest continued, Delta, Salinas-Watsonville, Gilroy-Hollister, Los Angeles-Orange County, excellent quality. Harvest over, Sacramento Valley. Strawberries being picked, Sacramento Valley, Modesto-Turlock, west Riverside County. Broccoli heavy Salinas, fairly heavy Santa Maria, good quality. Harvest Fresno continued at slow pace. 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. Sweet corn harvest picked up volume, Coachella Valley, good quality. Northern districts continued grow well. Lettuce fairly heavy Salinas, Santa Maria, variable quality. Spring production continued, Orange County. Watermelon Westside being cultivated, cantaloup fields sprayed for false chinch bugs, flea beetles. Fields Modesto-Turlock, emerged; early cantaloup fields, Palo-Verde Valley, show netting on fruit. Red onion digging continued, Fresno. Freezer pea harvest progressed, Gustine. Pepper planting continued, San Joaquin Valley; planted areas growing well. Fall potato planting continued, Shasta Valley. Sweetpotato planting remained full swing, Merced-Atwater. Planting processing tomatoes, fresh market continued active Statewide. Early fresh market fields, Merced, blooming, setting fruit. Other areas growing well. Ranges continued dry up due wind, hot weather. Fire hazard increased, few fires reported. Livestock continued movement summer pastures, market, feedlots. Stock water supplies remained below normal.

**COLORADO:** Temperatures 2° below to 2° above normal. Showers throughout week; 1.00 to 3.00 in. east, trace to 0.50 in. mountains, west slope.

Days suitable for fieldwork 3.0. Soil moisture adequate. Small grains, livestock good. Corn planting on schedule. Calving, lambing neared completion.

**FLORIDA:** Continued dry many areas; however, showers, thunderstorms dotted State. Variable rains, some exceeded 2.00 in. north, south. Warmer temperatures near or above seasonal norms.

Scattered rains improved soil moisture conditions many localities. Moisture supplies varied from short to adequate Panhandle, continued short most of Peninsula. Cotton planting continued. Peanut planting increased in areas where rains improved planting conditions. Corn, tobacco responded to warmer temperatures. Rain needed especially many northern Peninsula, eastern Panhandle areas. Early wheat harvest underway north central. First peaches of season shipped weekend. Lower southern Peninsula pastures fair to good; central, Panhandle mostly good; elsewhere variable from very poor to fair. Cattle fair to good. Light rain many citrus areas; more needed. Irrigation continued. Normal new crop shedding continued; abundant new growth. Fruit remaining for harvest holding well; good quality with high yields for valencias. Grapefruit harvest slowed. Warm days, mild nights prevailed vegetable producing areas. Late week rains beneficial. Winds light to moderate. Harvest many crops nearly complete southern areas. Volume leaders: Potatoes, tomatoes, sweet corn, cucumbers, celery, peppers, cabbage. Good supplies watermelons, lettuce, radishes, snap beans, carrots, eggplant. Hastings potato harvest very active.

**GEORGIA:** Rain under 0.50 in. local totals 1.00 to 2.00 in. Most rain over northern half of State 4th; over southern half 7th. Temperatures 1 to 3° cooler than normal. Warmest temperatures low 80s north to near 90s south. Coolest temperatures upper 30s to mid 40s mountains to mostly 50s central, south.

Days suitable for fieldwork 6.0. Soil moisture 25% very short, 65% short, 10% adequate. Corn 1% poor, 68% fair, 31% good. Cotton 6% very poor, 82% fair, 12% good. Sorghum grain 3% very poor, 5% poor, 78% fair, 13% good, 1% excellent; 27% planted, 24% 1986, 30% avg. Peanuts 1% very poor, 11% poor, 48% fair, 40% good; 39% planted, 34% 1986, 59% avg. Soybeans 7% poor, 72% fair, 21% good; 5% planted, 4% 1986, 11% avg. Tobacco 1% poor, 66% fair, 33% good; 100% transplanted, 100% 1986, 100% avg. Watermelons 1% poor, 68% fair, 31% good; 95% planted, 94% 1986, 95% avg. Wheat 100% boot, 98% 1986, 99% avg. Rye 7% poor, 66% fair, 26% good, 1% excellent. Other small grains 5% very poor, 8% poor, 59% fair, 26% good, 2% excellent. Apples 15% fair, 78% good, 7% excellent. Peaches 10% very poor, 3% poor, 44% fair, 43% good. Pasture 14% poor, 52% fair, 34% good. Cattle 1% poor, 29% fair, 69% good, 1% excellent. Hogs 20% fair, 78% good, 2% excellent. Main activities: Land preparation; planting where soil conditions permit; irrigating; spraying, haying.

**HAWAII:** Heavy localized showers disrupted farming activity. Light to moderate crop losses from washouts, silting, spoilage. Planting, harvesting behind schedule. Cool evening temperatures, lowered further by gusty winds, slowed crop development. Overall, crop fair. Temperatures ranged low 60s to mid 80s. Rainfall none to 12.20 in.

Days suitable for fieldwork 7.0. Banana production slight increase. Harvesting active chinese cabbage, cucumbers, watermelon. Light to moderate for other vegetables.

**IDAH0:** Temperatures 5 to 10° above normal statewide. Precipitation 0.10 to 0.50 in. below normal throughout. Dry, hot, low soil moisture.

Days suitable for fieldwork 7.0. Potatoes 73% planted, 35% 1986, 39% avg. Spring wheat 100% planted, 82% 1986, 80% avg. Spring wheat 87% emerged, 65% 1986, 52% avg. Winter wheat 4% poor,

4% fair, 86% good, 6% excellent. Crop, livestock good. Activities included: Early irrigation, planting, fertilizing, some spraying herbicides, pesticides.

**ILLINOIS:** Temperatures averaged 2 to 3° above normal north, slightly above normal south. Precipitation none south, less than 0.25 in north.

Days suitable for fieldwork 6.0. Soil moisture 70% short, 30% adequate, none surplus. Winter wheat 3% filled, 12% 1986, 4% avg. Oats 14% fair, 71% good, 15% excellent. Alfalfa first crop 7% cut, 9% 1986, 3% avg.; 7% fair, 67% good, 26% excellent. Pasture 1% poor, 15% fair, 67% good, 17% excellent.

**INDIANA:** Temperatures variable. Most areas 1 to 2° warmer than usual. Temperature extremes from near freezing to upper 80s. No significant precipitation reported. Weekly evaporative losses 1.50 to 2.00 in.

Days suitable for fieldwork averaged 6.1. Topsoil moisture 74% short, 26% adequate. Subsoil moisture 46% short, 54% adequate. Spring cropland 97% tilled, 95% 1986, 87% avg. Corn 30% emerged, 35% 1986, 17% avg. Soybeans 3% emerged, 3% 1986, 1% avg. Wheat mostly good. Wheat 75% jointed, 80% 1986, 65% avg. Wheat 16 in. high, 15 in. 1986, 15 in. avg. Oats 6 in. high, 5 in. 1986, 4 in. avg. Pastures 5% poor, 46% fair, 45% good, 4% excellent. Excellent week planting, tilling. Soils drying out.

**IOWA:** Dry week, temperatures above normal; 5th consecutive week. Lows to 31° Decorah, 28° Cresco 5th, temperatures midweek highs 70s to 80s, 90s weekend. Four inch soil temperatures 55° Dubuque to 85° Spencer.

Days suitable for fieldwork 5.5. Topsoil moisture 65% short, 32% adequate, 3% surplus; subsoil moisture 5% short, 91% adequate, 4% surplus. Corn 90% planted, 64% 1986, 54% avg.; 30% emerged, 16% 1986, 12% avg. Soybeans 20% planted, 7% 1986, 7% avg. Oats 95% emerged, 88% 1986, 69% avg. Winter wheat 6% poor, 11% fair, 69% good, 14% excellent. Hay 4% poor, 15% fair, 60% good, 21% excellent. Livestock good to excellent; warm, dry weather ideal for calving. Pastures good to excellent.

**KANSAS:** Temperatures averaged 60s west, upper 60s east, 0 to 5° above normal. Precipitation abundant, widespread, 1.00 to 2.00 in. common except south central 4.63 in.

Days suitable for fieldwork 2.0. Soil moisture 3% short, 48% adequate, 49% surplus. Rains, warm weather replenish moisture, promote rapid wheat growth. Insect, disease levels normal for time of year. Corn planting delayed by rain, emerged stands good to excellent. Some replanting needed where flooding occurred. Soybean, sorghum planting early stages, delayed by rain. Range, pasture good to excellent. Lambing, calving complete. Alfalfa weevil caused problems untreated fields. Some first cuttings made.

**KENTUCKY:** Mainly dry, rainfall averaged 0.10 in. west, 0.50 in. central, near 1.00 in. east. Mild days, cool nights. Daily mean temperatures averaged lower 60s, 1 or 2° below normal.

Days suitable for fieldwork 5.1. Soil moisture 10% very short, 46% short, 44% adequate. Corn planting rapid progress. Planted acreage 40% emerged. Soybean planting became active many areas. Burley, dark tobacco setting underway. Tobacco plants in beds 16% greater than 4 in., another 40% 2 to 4 in. Two-thirds wheat heading, overall condition good. Apple, strawberry prospects good, peaches poor to good. Pastures 1% very poor, 3% poor, 29% fair, 57% good, 10% excellent.

**LOUISIANA:** Temperature normal to 2° above normal. Temperature extremes 55°; 89°. Rainfall averaged 0.50 to 2.90 in.

Days suitable for fieldwork 4.0. Soil moisture 38% short, 51% adequate, 11% surplus. Spring plowing 97% complete, 98% 1986, 92% avg. Corn fair; 98% planted, 100% 1986, 95% avg.; 91% emerged, 100% 1986, 91% avg. Cotton 71% planted, 86% 1986, 62% avg.; 51% emerged, 76% 1986, 42% avg. Rice 84% planted, 93% 1986, 82% avg.; 76% emerged, 89% 1986, 73% avg. Sorghum 51% planted, 85% 1986, 71% avg.; 40% emerged, 76% 1986, 57% avg. Soybeans 5% planted, 23% 1986, 10% avg.; 1% emerged, 9% 1986, 3% avg. Sweetpotatoes 15% planted, 34% 1986, 31% avg. Winter wheat fair; 97% headed, 99% 1986, 97% avg.; 60% turning color, 76% 1986, 57% avg. Hay first cutting 18%, 23% 1986, 21% avg. Sugarcane, vegetables, pastures, livestock fair to good. Main activities: Planting cotton, sorghum, soybeans; applying fertilizer; cutting hay.

**MARYLAND & DELAWARE:** **Maryland:** Temperatures averaged 60°, 62° normal, lowest temperature 28° mountains; highest temperature 81°. Precipitation averaged 1.32 in.

Days suitable for fieldwork 5.8. Topsoil moisture adequate. Subsoil moisture adequate. Acreage 80% prepared for planting. Wheat, oats, barley, rye good. Corn 55% planted, 60% avg. Soybeans 5% planted, 5% avg. Spring oats 95% planted, 95% avg. Tobacco 5% transplanted, 5% avg. Sweet corn 45% planted, 60% avg. Apples 100% in bloom. Alfalfa 5% cut.

**Delaware:** Temperatures averaged 58°, 61° normal; lowest temperature 40°; highest temperature 80°. Precipitation averaged 1.53 in.

Days suitable for fieldwork 5.5. Topsoil moisture adequate. Subsoil moisture adequate. Acreage 80% prepared for planting. Wheat, barley, rye good. Corn 55% planted, 65% avg. Soybeans 5% planted, 10% avg. Sweet corn 45% planted, 60% avg. Potatoes 95% planted, 95% avg. Alfalfa, other hay 5% cut.

**MICHIGAN:** Temperatures ranged 2° below to 3° above normal. Temperature extremes 23°; 84°. Precipitation ranged from none to 0.48 in. across State. Rain needed.

Days suitable for fieldwork 6.5. Soil moisture 75% short, 25% adequate. Corn 60% planted, 50% 1986, 40% avg. Oats 98% planted, 95% 1986, 80% avg. Potatoes 35% planted, 35% 1986, 40% avg. Soybeans 5% planted, 3% 1986, 5% avg. Wheat 5% very poor, 10% poor, 25% fair, 45% good, 15% excellent. Activities: Planting corn, potatoes, oats, barley, soybeans. Tilling land, applying pesticides. Fruit development, vegetable planting hastened. Pollinating weather good. Asparagus 15% harvested.

**MINNESOTA:** Temperatures averaged 6 to 12° above normal. Temperature extremes 26°; 96°. Precipitation averaged 0.39 to 0.65 in. below normal. Totals ranged from none to 0.33 in.

Days suitable for fieldwork 6.5. Topsoil moisture 51% very short, 42% short, 7% adequate. Spring wheat, other small grains emerged unevenly on later plantings. Oats 98% planted, 56% 1986, 74% avg.; 83% emerged, 31% 1986, 35% avg. Barley 97% planted, 17% 1986, 56% avg.; 68% emerged, 7% 1986, 21% avg. Corn, other row crop seedings now going in to dry soil except where spring tillage not done. Sugarbeets 97% planted, 16% 1986, 68% avg. Potatoes 62% planted, 10% 1986, 21% avg.

**MISSISSIPPI:** Temperatures 2 to 5° above normal; extremes 43°; 86°. Upper level low over middle part of country caused upper level disturbances over State resulting in scattered afternoon thunderstorms early week, weak front intensified

thunderstorms midweek. Rainfall averaged 2.50 in. south, none northeast. Greatest 24-hour total rainfall 2.35 in.

Days suitable for fieldwork 3.8, 6.5 1986, 4.8 avg. Soil moisture 2% very short, 18% short, 50% adequate, 25% surplus, 5% excessive. Corn 93% planted, 91% 1986, 82% avg.; 77% emerged, 79% 1986, 64% avg.; 3% poor, 35% fair, 59% good, 3% excellent. Wheat 98% heading, 97% 1986, 94% avg.; 3% very poor, 2% poor, 49% fair, 44% good, 2% excellent. Sweetpotatoes 36% planted, 30% 1986, 21% avg. Peanuts 43% planted, 52% 1986, 32% avg. Watermelons 78% planted, 65% 1986, 61% avg. Hay 10% harvested, 16% 1986, 11% avg. Hay, feed supplies adequate. Rice 82% planted, 96% 1986, 72% avg.; 30% emerged, 84% 1986, 48% avg.; 57% fair, 43% good. Sorghum 52% planted, 62% 1986, 36% avg.; 32% emerged, 46% 1986; 6% poor, 35% fair, 59% good, 3% excellent. Cotton 68% planted, 83% 1986, 57% avg.; 38% emerged, 66% 1986, 29% avg.; 3% poor, 52% fair, 45% good. Soybeans 6% planted, 11% 1986, 6% avg.

**MISSOURI:** Temperatures averaged 30 above normal. Rain first half week over 2.00 in. some western counties, elsewhere about 0.75 in. except Bootheel 0.20 in.

Days suitable for fieldwork 4.3. Topsoil moisture 41% short, 48% adequate, 11% surplus. First cutting alfalfa hay 9%, 11% 1986, 6% avg. Tillage for spring-planted crops 87%, 88% 1986, 76% avg. Pasture 1% very poor, 11% poor, 51% fair, 37% good.

**MONTANA:** Temperatures averaged 8 to 10° above normal. Numerous record high temperatures late week. Some showers northeast, southeast produced 0.50 in. rain early week. Thunderstorms late week brought winds, blowing dust no significant rainfall.

Days suitable for fieldwork 6.5. Topsoil moisture 59% short, 41% adequate. Subsoil moisture 16% short, 82% adequate, 2% surplus. Barley 85% planted, 73% 1986, 78% avg. Sugarbeets 86% planted, 77% 1986, 76% avg. Oats 73% planted, 69% 1986, 70% avg. Corn 70% planted, 19% 1986, 41% avg. Potatoes 21% planted, 25% 1986, 21% avg. Dry beans 50% planted, 10% 1986, 41% avg. Cattle, calves moved to summer ranges 46%, 37% 1986, 41% avg. Sheep, lambs moved to summer ranges 46%, 45% 1986, 34% avg.

**NEBRASKA:** Precipitation early week ranged from 0.50 to 2.00 in. Local amounts up to 4.00 in. Temperature ranged 4 to 8° above normal. Extremes 39°; 90°.

Days suitable for fieldwork 4.5. Topsoil moisture 10% short, 76% adequate, 14% surplus. Subsoil moisture 2% short, 92% adequate, 6% surplus. Wheat 82% jointed, 64% 1986, 43% avg. Rains improve crop condition. Russian aphids caused problems along Wyoming border, increased spraying done. Oat seeding neared completion. Corn, sorghum, soybean planting progressed ahead of normal. Alfalfa hay good to excellent. Wild hay good. Range, pasture feed adequate to surplus. Calving neared completion. Branding active as cattle move to summer grass.

**NEVADA:** Sunny, pleasant start, temperatures very seasonal with chilly mornings most areas. Gradual daily warming trend started midweek. Thunderstorms scattered, mostly high based with little rainfall accumulations. Temperatures last half well above normal.

Potato planting neared completion, emergence slow due low night temperatures. Scattered, light showers delayed small grain seeding some localities. Mid weather end period favorable newborn calves, lambs.

**NEW ENGLAND:** Precipitation averaged 1.00 to 1.50 in. south and coastal Maine, 0.25 to 0.75 in. remainder. Temperatures averaged low 50s south, mid 40s north, normal north, below normal south.

Days suitable for fieldwork 5.0. Soil moisture 17% short, 44% adequate, 39% surplus. Grazing availability 33% short, 60% adequate, 7% surplus. Fieldwork 4.0 days ahead of schedule north, 7.0 days behind schedule south. Maine potatoes 10% planted, 7% 1986, 5% avg. Connecticut River Valley potatoes 30% planted, 55% 1986. Rhode Island potatoes 35% planted, 55% 1986, 63% avg. Field corn 10% planted south. Sweet corn 20% planted all areas. Hay growth good. Major farm activities: Plowing, spreading manure, repairing machinery, planting corn, spraying fruit trees.

**NEW JERSEY:** Temperatures averaged below normal. Extremes 31°; 88°. Rainfall averaged 0.39 in. north, 0.70 in. central, 0.83 in. south. Heaviest 24-hour total 1.21 in. on 4th, 5th. Estimated soil moisture percent field capacity averaged 96% north, 92% central, 89% south. Four inch soil temperatures averaged 52° north, 55° central, 57° south.

Warmer weather advanced crop growth. Soil moisture adequate. Soil preparation for field corn, soybeans active. Corn planting began. Some hay cut. Asparagus, bibb, boston, romaine, leaf lettuce harvest increased. Irish potato growth increased. Peaches, strawberries sizing. Blueberry bloom continued; grape bloom began.

**NEW MEXICO:** Weekly average temperatures near normal over most of State. Temperatures 23° western mountains to 87° southeastern plains. Showers, thundershowers limited mostly to central, eastern portions of State. Precipitation generally less than 0.10 in. southwestern plains, southern desert to 0.62 in. northern mountains.

Days suitable for fieldwork 6.6. Soil moisture 50% short, 42% adequate, 8% surplus. No hail damage. Alfalfa 10% poor, 50% fair, 40% good. Cotton 20% poor, 20% fair, 60% good; planting full swing southern counties. Corn planting full swing; some early fields showed good stands. Wheat generally fair to good. Limited seeding grain sorghum reported underway. Pecans 33% fair, 67% good; trees setting nuts. Vegetables mostly good; some lettuce picked Mesilla Valley. Cattle, sheep mostly fair to good. Ranges need moisture; topsoil moisture getting dry.

**NEW YORK:** Week began cool, wet but ended with dry mild weather. Rain southeast 3rd with parts of lower Hudson, Catskills 1.00 in. Light rains east 4th to 6th, most amounts 0.25 in. or less. Little or no rain western part of State. Later part of week featured mild days, cool nights, some frost.

Days suitable for fieldwork 5.5. Soil moisture adequate. Corn 9% planted, 14% 1986, 15% avg. Oats 52% seeded, 66% 1986, 42% avg. Hay, wheat good. Pastures good to excellent. Peaches, pears full bloom. Asparagus harvest underway.

**NORTH CAROLINA:** Temperatures average near to slightly below normal across State. Temperature extremes 29°; 89°. Precipitation ranged from 0.02 to 2.57 in. across State.

Days suitable for fieldwork 5.6. Soil moisture 1% very short, 6% short, 78% adequate, 15% surplus. Small grains fair to mostly good. Oats 3% poor, 16% fair, 75% good, 6% excellent. Barley 16% fair, 80% good, 4% excellent. Rye 22% fair, 73% good, 5% excellent. Irish potatoes 4% poor, 33% fair, 63% good. Pasture fair to mostly good. Tobacco plantbeds 2% very poor, 3% poor, 39% fair, 56% good. Tobacco plant supplies 20% short, 78% adequate, 2% surplus. Flue-cured tobacco 45% planted, 60% 1986, 60% avg. Tobacco in field 25% fair, 73% good, 2% excellent. Peanuts 21% planted,

60% 1986, 43% avg. Sorghum 18% planted, 31% 1986, 27% avg. Sweetpotatoes 7% planted, none 1986, 9% avg. Corn 5% poor, 43% fair, 52% good. Cotton 38% fair, 62% good. Major farm activities: Planting corn; land preparation; tobacco plantbed care; setting tobacco; tending livestock; transplanting Christmas trees, ornamentals; machinery repair, maintenance; planting truck crops, cotton, peanuts, sorghum; making hay; fertilizer, chemical applications; general farm maintenance.

**NORTH DAKOTA:** Warm weather continued. Temperatures 10 to 13° above normal. Extremes 32° west central to 93° northwest. Western two-thirds received rain early. Heaviest south central 1.48 in.

Days suitable for fieldwork 6.8. Topsoil moisture further depleted, 19% very short, 74% short, 7% adequate. Subsoil, 2% very short, 1% short, 97% adequate. Planting at or near record pace for most crops. Spring wheat 87%, 34% 1986, 50% avg.; durum 76%, 23% 1986, 36% avg.; oats 84%, 40% 1986, 46% avg.; barley 90%, 30% 1986, 51% avg.; corn 39%, 4% 1986, 12% avg.; flax 30%, 3% 1986, 11% avg.; soybeans 13%, 1% 1986, 5% avg.; potatoes 36%, 7% 1986, 17% avg.; sunflower 6%, none 1986, 1% avg.; dry edible beans 4%, none 1986, 1% avg.; sugarbeets virtually complete. Winter wheat 55% emerged thru stooling, 45% joint or beyond, 70% good or better. Calving, lambing virtually complete. Pastures mostly fair to good.

**OHIO:** Temperatures averaged 3° above normal north to 3° below normal south. Temperature extremes ranged from frost to upper 80s. Precipitation 0.10 in. or less few northern stations.

Days suitable for fieldwork 5.3. Soil moisture 23% short, 67% adequate, 10% surplus. Many farmers finished corn planting, moved to soybeans. Winter wheat good; dry condition held diseases in check. Oat planting almost finished 95%, 97% 1986, 84% avg. Grasslands good, no economically significant pest problems. Fruits good. Frost nipped some orchards, aided necessary thinning. Farm activities: Planting, spraying pesticides, spreading fertilizer.

**OKLAHOMA:** Temperatures averaged 1° below normal Panhandle to 5° above normal northeast. Precipitation averaged none west central, south central to 1.13 in. east central.

Days suitable for fieldwork 6.0. Topsoil moisture 75% short, 23% adequate, 2% surplus. Subsoil moisture 25% short, 75% adequate. Wheat 45% fair, 55% good; 75% heading, 97% 1986, 65% avg.; 15% soft dough, 55% 1986, 10% avg. Continued dry conditions threaten wheat production. Rain spotty, crop stress continued. Weeds, nitrogen shortage problems major producing areas. Sorghum 5% planted, 15% 1986, 10% avg.; cotton 5% planted, 20% 1986, 10% avg. Dry seedbeds delayed row crop plantings. Pastures, livestock good. Cattle marketings stable, prices up from preceding week.

**OREGON:** Temperatures much above normal across State. Coast ranged from 6 to 9° above normal; Willamette Valley 13 to 16° above normal. Southwest highs above 100° midweek. East ranged from 9° above normal northeast mountains to 19° above normal central Deschutes Basin. Precipitation light. Central areas, Columbia Basin 0.30 to 0.75 in. rain from thunderstorm activity.

Soil moisture 45% short, 55% adequate. Barley 96% seeded, 97% 1986, 96% 1985. Crops developed 1 to 2 weeks ahead of normal. Soils drying rapidly with hot weather, moisture stress only on shallowest soils. Spring grain seeding neared completion high country central, southeast areas. First alfalfa cutting downed west, Hermiston-Boardman. Sugarbeets thinned; field corn, dry beans planted Malheur County. Tree fruit

developing rapidly; thinning sprays applied to bartlett pears, apples Hood River Valley. First cover spraying neared completion Medford. Apples sizing very well; sprayed for leafhoppers, codling moth Milton-Freewater. Good apple set required thinning Willamette Valley. Cherry set variable, prune set good west. Strawberries bloomed, irrigation underway Willamette Valley. Boysenberries, marionberries bloomed. All berry crops look good. Cranberry bloom 2 weeks ahead of 1986 southern coast. Filbert suckers sprayed Willamette Valley. Potato planting started Klamath Basin, central areas. Early potatoes emerged Malheur County; cultivated, sidedressed Hermiston-Boardman. Onions emerged, stands look good all growing areas. Early green peas closed canopy west, full bloom Milton-Freewater. Snap bean, sweet corn planting continued Willamette Valley. Sweet corn seeded Medford. Excellent vegetable growing weather. Asparagus harvest full swing Umatilla County, some decline in quality due to rapid maturation. Watermelons planted, emerged, some thinned Hermiston. Livestock mostly good. Range, pasture fair to good. Grasses greened up early east of Cascades. Lower elevations rangeland dryer than normal. Producers hauling water for livestock southeast. Western pastures growing rapidly; haying, irrigation plans being moved forward.

**PENNSYLVANIA:** Near normal temperatures, precipitation. Average temperature 53°, 1° below normal. Temperature extremes 30°, 80°. Average precipitation 0.86 in., 0.04 in. above normal.

Days suitable for fieldwork 5.0. Soil moisture 2% short, 86% adequate, 12% surplus. Plowing 80% complete, 84% 1986, 70% avg. Corn 33% planted, 40% 1986, 28% avg. Potatoes 67% planted, 66% 1986, 55% avg. Oats 87% planted, 91% 1986, 78% avg. Tobacco beds 100% planted, 98% 1986, 99% avg. Soybeans 24% planted, 25% 1986, 12% avg. Barley 57% pre-boot, 64% 1986; 23% boot, 20% 1986; 20% headed, 16% 1986. Wheat 79% pre-boot, 91% 1986; 21% boot, 9% 1986. Wheat 2% poor, 16% fair, 61% good, 21% excellent. Oats 1% poor, 18% fair, 55% good, 26% excellent. Hay stands mostly good to fair. Feed from pastures mostly average to above average. Peaches 7% pink, 8% 1986; 93% full bloom or past, 92% 1986. Cherries 6% pink stage, 2% 1986; 94% full bloom or past, 98% 1986. Apples 4% pre-pink, 8% 1986; 25% pink stage, 10% 1986; 71% full bloom or past, 82% 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 4.39 in. Highest 24-hour total 1.98 in. Temperature averaged about 80° on coasts, 74 to 77° interior divisions. Mean station temperature ranged 66 to 82°. Extremes 59°, 94°. San Juan mean temperature 82°, 2° below normal. Total rainfall 0.33 in., 0.89 below normal.

**SOUTH CAROLINA:** Temperatures 3 to 4° cooler than normal. Rainfall in excess of 1.00 in. from isolated storms upstate, coastal plains less other areas.

Days suitable for fieldwork 5.7. Soil moisture 74% short, 26% adequate. Corn good; 97% planted, 97% 1986, 95% avg. Tobacco good; 89% planted, 94% 1986, 91% avg. Cotton fair to good; 62% planted, 79% 1986, 83% avg. Peanuts good; 41% planted, 48% 1986, 59% avg. Soybeans 4% planted, 1% 1986, 4% avg. Wheat good; 81% headed, 95% 1986, 91% avg.; 8% turning color, 45% 1986, 29% avg. Other small grains, pastures good. Peaches fair to good.

**SOUTH DAKOTA:** Average temperatures ranged 2 to 10° above normal. Extremes 34°, 94°. Black Hills low 27°. Precipitation above normal.

Days suitable for fieldwork 5.4. Topsoil moisture supplies adequate west central, short elsewhere; 2% critical, 49% short, 46% adequate, 3% surplus. Range, pastures fair to excellent. Winter wheat, rye mostly good to excellent. Spring seeding neared completion, corn planting underway, soybeans, sorghum began. Some reports of wheat streak mosaic. Calving 87%, lambing 89% complete. Livestock good to excellent. Pastures need rain.

**TENNESSEE:** Rainfall early week east, extreme south. Largest amount 1.00 in. Temperatures below normal northeast, above normal west. Extremes 41°, 87°.

Days suitable for fieldwork 5.9. Soil moisture 32% very short, 45% short, 23% adequate. Corn 75% planted, 80% 1986, 55% avg.; 10% poor, 60% fair, 29% good, 1% excellent. Tobacco 4% transplanted, 4% 1986, 6% avg. Wheat 89% headed, 85% 1986, 65% avg. Wheat 2% very poor, 6% poor, 50% fair, 38% good, 4% excellent. Alfalfa 1st cutting 30%, 40% 1986, 25% avg. Alfalfa weevil larva feeding reduced yields. Alfalfa 5% very poor, 16% poor, 52% fair, 25% good, 2% excellent. Cattle mostly good. Pastures good to fair.

**TEXAS:** Early week upper level low pressure area Panhandle, surface front triggered heavy thunderstorms eastern Panhandle, south. Midweek, shower activity eastern, southern, some heavy rains Rio Grande Valley. Rainfall much above normal Upper Coast, Lower Valley, near to above normal east, south. Rainfall below normal Plains, Blacklands. Temperatures close to normal central, east below normal elsewhere.

**Crops:** Corn planting neared completion, good progress High Plains, pre-watering necessary. Blacklands, south, south central corn benefited scattered showers. Some corn critical stages, timely moisture significant boost. Corn none silked, 9% 1986, 7% avg. Grain sorghum benefited from moisture. Scattered showers interrupted cultivation, spraying, needed relief from some developing drought conditions. Some replanting necessary parts Blacklands. Sorghum none headed, 12% 1986, 6% avg. Small grain fields baled hay, grazed. First fields wheat harvested south. Wheat turn color south, heading Plains. Producers appraise damage from freeze as wheat neared maturity. Much wheat area missed rainfall, crop stressed. Wheat 10% turning color, 46% 1986, 20% avg. Cotton planting continued Plains. Scattered showers provided needed moisture for germination some areas, other areas dry. Some dry planting occurred. Blacklands, south, needed moisture to help cotton plants get established, prompted germination some dry planted seed. Planting underway Trans-Pecos. Cotton none squaring, 5% 1986, 4% avg. Rice planting nearly complete. Flushing, flooding continued. Rice 81% emerged, 93% 1986, 78% avg. Soybean planting continued. Some early planted fields emerged poor stands, require replanting. Soybeans 28% planted, 29% 1986, 8% avg. Sugarbeet planting nearly complete. Irrigation operations underway. Sugarbeets 98% planted, 100% 1986, 98% avg. Peanut planting gained momentum. Some areas still need moisture before planting. Peanuts 10% planted, 12% 1986, 11% avg. Other field crops: Sunflowers none planted, 21% 1986, 12% avg.

**Commercial Vegetables:** Rio Grande Valley, rain interrupted harvest most vegetables. Supplies onions limited by seed stem problems some fields, prices good. Melons sizing very well. Some cabbage, cucumbers available. Citrus groves helped by rainfall. San Antonio-Winter Garden, vegetables good progress. Cabbage, peppers excellent growth. Supplies onions soon available. Trans-Pecos, onion

harvest neared. East limited quantities onions harvested. Greens, beets, radishes available. Rain needed. High Plains, growth onions, potatoes good. Irrigation necessary. Pecans bloom north. Some zinc spraying completed.

**Range and Pasture:** Ranges, pastures benefited from scattered showers portions State. Additional moisture needed to end supplemental feeding some areas. Small grains continued baled or grazed. Grazing provided excellent livestock gains. Prices good. Livestock good.

**UTAH:** Precipitation light to 0.44 in. north central. Temperatures maximums 3 to 6° above normal, minimums 1 to 4° above normal.

Days suitable fieldwork 7.0. Soil moisture 80% short, 20% adequate. Spring wheat 89% emerged, 69% 1986, 48% avg. Barley 90% emerged, 72% 1986, 58% avg. Oats 77% emerged, 52% 1986, 35% avg. Corn 60% planted, 25% 1986, 20% avg.; 27% emerged, none 1986, 3% avg. Winter wheat 9 in. height; alfalfa 9 in. Potato planting almost complete. Fruit crop prospects: Apples good to excellent, apricots fair, sweet cherries fair, tart cherries good to excellent, peaches good to excellent, pears good. Death loss calves, lambs below normal. Range feed generally good, rain needed, lower range grasses matured early. Livestock moved to summer ranges south. Major farm activities: Irrigation, planting, seedbed preparation, insecticide, herbicide application, orchard spraying.

**VIRGINIA:** Cool, with rain early period. Warming trend mid period, very warm by end. Rainfall averaged 0.75 to 1.00 in. Temperatures averaged normal to 2° below normal.

Days suitable for fieldwork 3.9. Topsoil moisture 78% adequate, 22% surplus. Drying soil allowed fast paced planting by end period. Corn 50% planting complete, 74% 1986, 73% avg.; fair to good, held back by wet, cool spring. Soybean planting just started, 10% 1986, 12% avg. Peanuts 35% planted, 81% 1986, 77% avg. Flue-cured tobacco 6% setting complete, 27% 1986, 27% avg. Clipping tobacco seedlings. Small grains excellent. Some barley lodging damage from heavy rain. Powdery mildew some wet fields. Scouting active. Cut rye for silage. Hay, pasture land excellent. Cut hay, good curing weather end period. Alfalfa weevil damage heavy some areas, spraying active. Fruit good to excellent. Spraying continued. Cultivated potatoes, sprayed to control Colorado potato beetle. Other activities: Vegetables planted, sheep sheared, land preparation.

**WASHINGTON:** Warm temperatures statewide; reports averaged 5 to 10° above normal. Average precipitation below normal.

Soil moisture 40% short, 60% adequate. Warm temperatures helped crops progress more rapidly than normal. Winter wheat 2% headed, none 1986, none avg. Potatoes 95% planted, 55% emerged. Major activities: Early irrigation, weed control. Sheep shearing continued. Asparagus cutting full swing.

**WEST VIRGINIA:** Average temperature 56°, 3 to 7° below normal. Extremes 25° Greenbank; 89° Creston. Precipitation averaged 0.62 in. below normal northeast, 0.87 in. below normal northwest. Trace north central. No precipitation northwest, southwest.

Days suitable for fieldwork 4.2. Soil moisture 16% short, 81% adequate, 3% surplus. Wheat, barley mostly good to fair. Oats 69% planted, crop fair to good. Corn 21% planted. Tobacco beds fair to good, 99% seeded, 93% emerged. Hay, pasture mostly fair to good. Feed supplies adequate to short. Farm activities: Fence, machinery repair, livestock care, gardening.

**WISCONSIN:** Temperatures averaged 56°, 1° above normal. Extremes 24°, 92°. Rainfall 0.20 to 0.60 in. North, west central very dry.

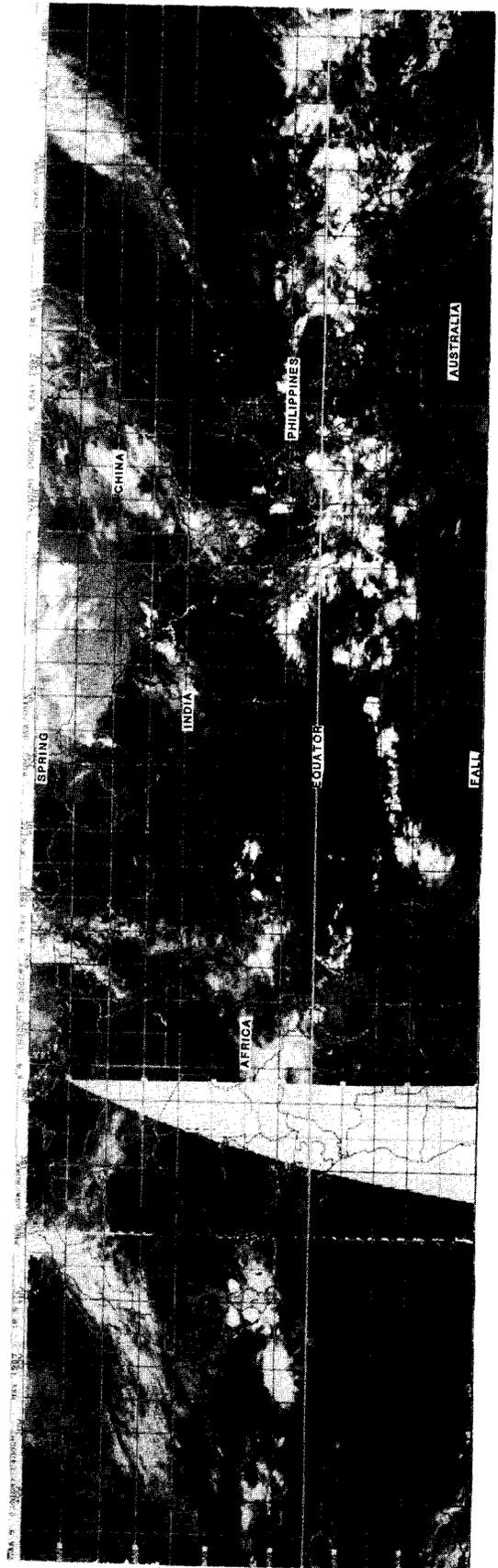
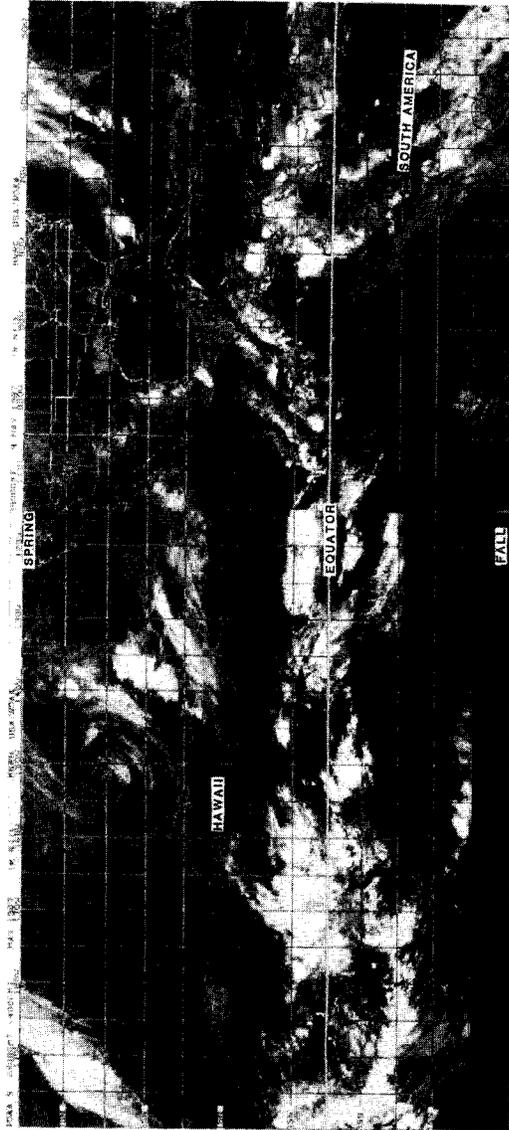
Days suitable for fieldwork 6.6. Soil moisture 44% short, 51% adequate, 5% surplus. Spring plowing 82% complete, 76% 1986, 64% avg. Corn 49% planted, 40% 1986, 29% avg. Some corn up south. Oats 95% planted, 87% 1986, 76% avg. Oats good south, central; slow growing north. Soybeans very early start; 10% planted, none 1986, none avg. Hay fields slow north, west central; lush south central, southeast. Winter wheat good south. Apples blooming north, central; nearly over south. Strawberries blossoming south. Cranberries about 2 weeks ahead of normal.

**WYOMING:** Temperatures above normal. Precipitation above normal east, southwest.

Days suitable for fieldwork 6.0. Topsoil moisture 74% short, 26% adequate. Spring wheat 85% planted, 80% 1986, 70% avg.; 50% emerged, 40% 1986, 40% avg. Oats 70% planted, 70% 1986, 65% avg.; 35% emerged, 40% 1986, 30% avg. Barley 90% planted, 80% 1986, 75% avg.; 65% emerged, 60% 1986, 50% avg. Corn 40% planted, 30% 1986, 40% avg.; 5% emerged, 5% avg. Sugarbeets 95% planted, 95% 1986; 50% emerged, 40% 1986, 35% avg. Potatoes 35% planted, 35% 1986, 25% avg. Dry beans 15% planted, 5% 1986; 5% emerged. Winter wheat mostly good. Livestock good to excellent. Calves 95% born, 90% 1986; losses light. Farm flock: Ewes 95% lambed, 95% 1986; 95% shorn, 90% 1986. Range flock: Ewes 70% lambed, 65% 1986, 65% avg.; 75% shorn, 70% 1986, 75% avg. Lamb losses light. Ranges, pastures mostly good.

# Global Weather Satellite Image

MAY 9, 1987



## International Weather and Crop Summary

May 3-9, 1987

**HIGHLIGHTS:**

**UNITED STATES** ... Rain interrupts planting in the central and southern Great Plains, Delta, Southeast, and parts of the Corn Belt but provides much needed moisture. Planting continues at a rapid pace in most areas.

**WESTERN U.S.S.R.** ... Mostly dry weather helps fieldwork. Late-week rain occurs over western areas.

**CANADA** ... Warm weather promotes grain planting across the Prairie Provinces.

**EUROPE** ... Persistent dryness and light frost stress Spanish winter grains. Wet weather in southeastern Europe delays planting.

**SOUTH ASIA** ... Locally heavy showers disrupt the wheat harvest in northern Pakistan and northwest India.

**SOUTHEAST ASIA** ... Widespread rain covers Thailand and Malaysia, but only scattered showers fall in the Philippines.

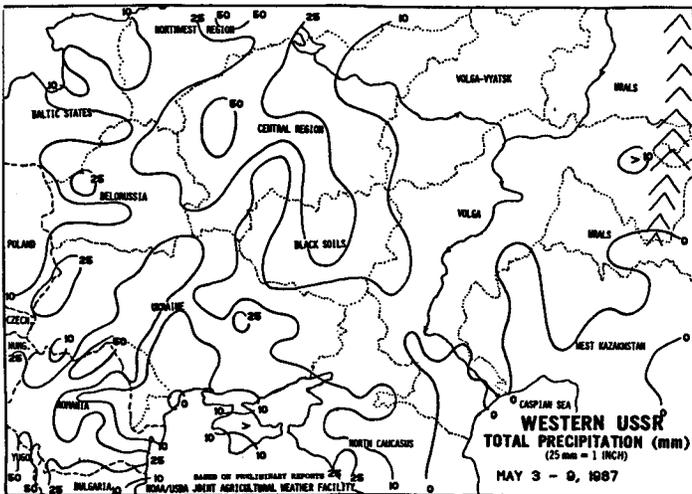
**EASTERN ASIA** ... Dry weather covers crops in the North China Plain. Moderate-to-heavy rain benefits southern rice.

**SOUTH AMERICA** ... Mostly dry weather favors Argentina's crop harvest, while late-week showers disrupt Brazil's harvest.

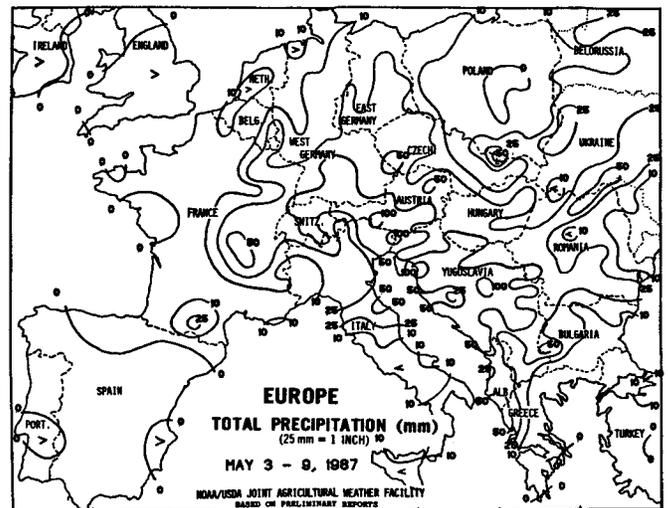
**AUSTRALIA** ... Light showers help wheat planting in southeastern Queensland and maintain favorable moisture in the west. Dry weather returns to the south.

**MEXICO** ... Rain falls in the east, while dryness continues in the west.

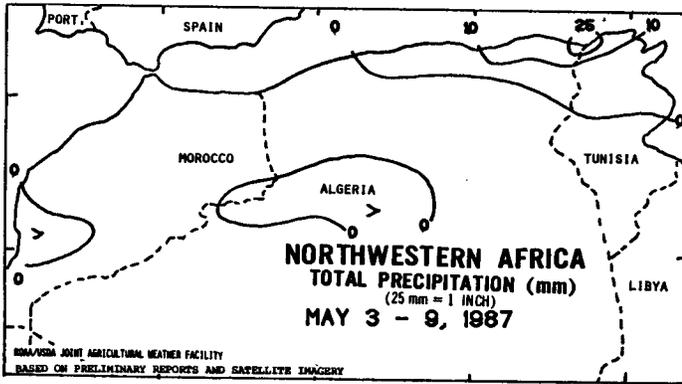
**NORTHWESTERN AFRICA** ... Dry weather helps early harvesting.



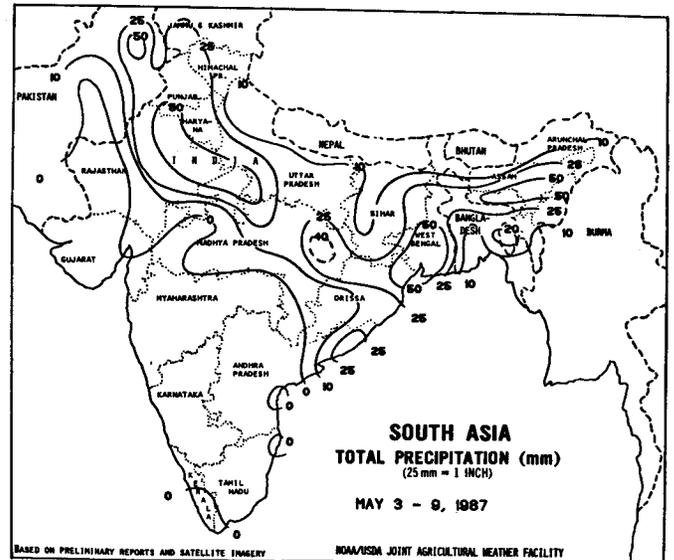
**WESTERN U.S.S.R.** ... Early-week fair weather covered much of the region, allowing the spring planting pace to increase. A storm system entered western areas, producing above-normal precipitation over the western Ukraine, Belorussia, Black Soils Region, and the Central Region at week's end. Rainfall in these areas ranged from 18 to 50mm, which likely caused planting delays. Mostly dry weather over the eastern Ukraine, northern North Caucasus, and Volga benefited planting. Weekly temperatures were near to above normal over most areas, except in the southwest, where temperatures were below normal. Winter grains broke dormancy over much of the region, and the crop in the extreme south was in the jointing stage.



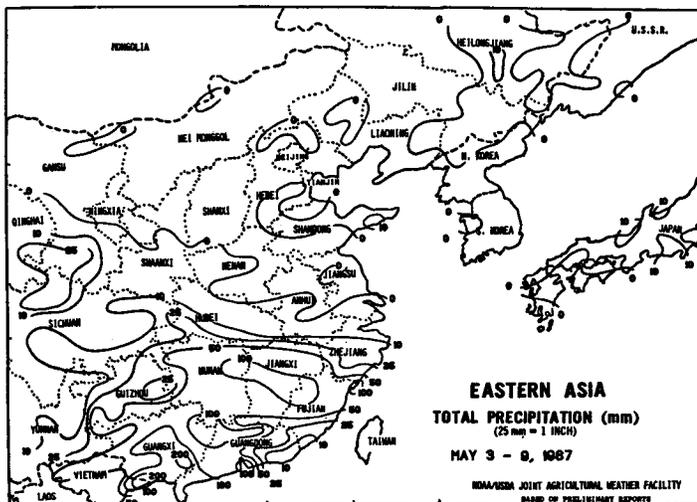
**EUROPE** ... An early-week storm over central Europe produced above-normal rainfall over West Germany, East Germany, western Czechoslovakia, and northern Italy, which benefited winter grains in the jointing stage, as well as emergence and early growth of spring sown crops. In Hungary, eastern Yugoslavia, and western Romania, widespread showers (25 to 50mm) likely caused planting delays but increased soil moisture supplies. Winter wheat in southeastern Europe is in the jointing stage. In Spain, dry weather continued a below-normal precipitation pattern, which has covered crop areas for the past 5 weeks. Spain's continued dry weather stressed winter grains advancing through the reproductive phase. In addition, scattered frost on May 5 may have hurt filling wheat in northern Spain.



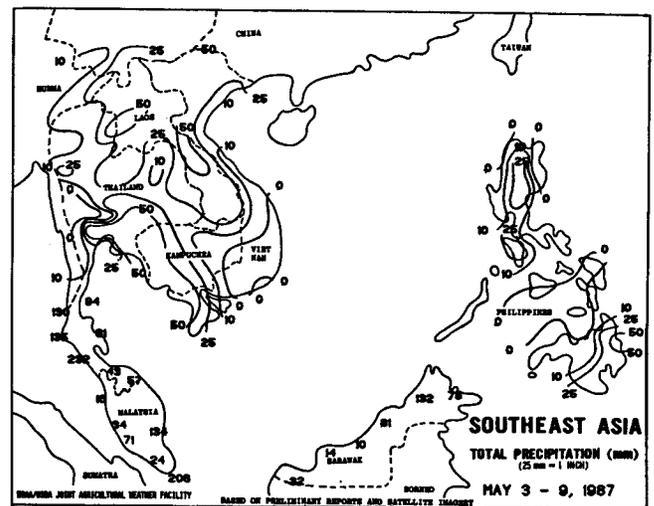
**NORTHWESTERN AFRICA** ... Unseasonable warm, dry weather over winter grain areas in Morocco and northwestern Algeria allowed early harvesting to rapidly progress. Unseasonable cool weather and light, scattered showers in eastern Algeria and Tunisia slowed winter grain maturation.



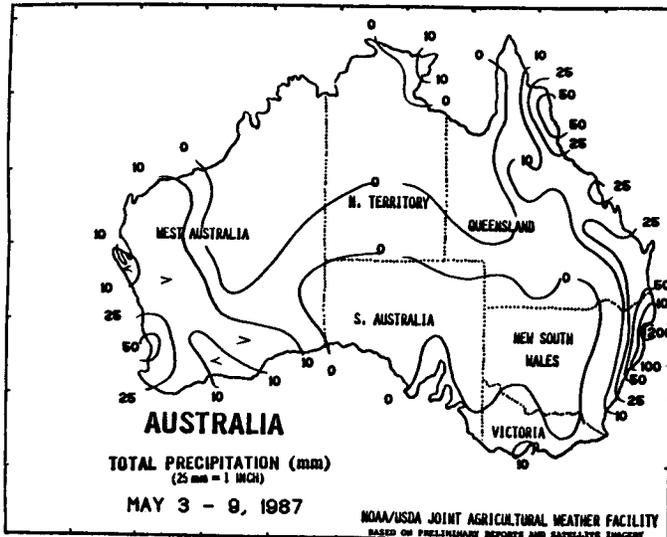
**SOUTH ASIA** ... Widespread substantial rain (25 to 75mm) covered northern Pakistan and from India's Punjab and northern Rajasthan to the far eastern states. The heaviest showers (50 to 75mm) were concentrated over northeastern Rajasthan, extreme southwestern Uttar Pradesh and West Bengal in the east. The early-week rain disrupted the wheat harvest in northern Pakistan and northwestern India but provided beneficial moisture for irrigation reserves. The wheat harvest is usually completed by mid-May. Dry weather prevailed over the southern half of India.



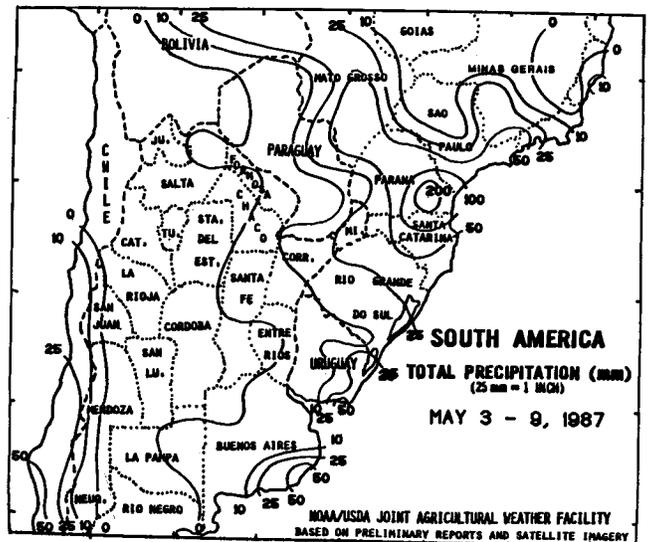
**EASTERN ASIA** ... Cool, dry weather covered the North China Plain, benefiting spring planting. Winter wheat in Shanxi, Hebei, northern Henan, and Shandong was entering the heading stage, and rain is needed in nonirrigated areas to ensure favorable yield prospects. Winter wheat in southern Henan, Anhui, and Jiangsu was in the filling stage. Although dry weather covered these areas, adequate moisture supplies met crop-moisture requirements. Moderate-to-heavy rain in Guangxi, Guangdong, Hunan, Jiangxi, and Fujian benefited rice in the heading stage. Rainfall in these areas ranged from 50 to 100mm with some locations reporting rainfall in excess of 100mm. In the Manchurian Valley, dry weather favored spring planting, but rain is needed for crop emergence and early growth.



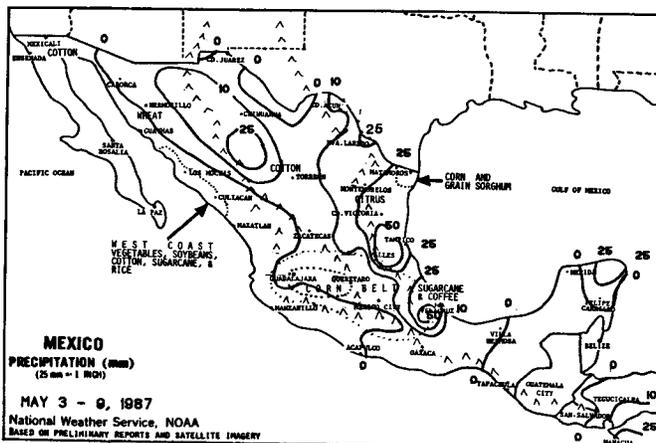
**SOUTHEAST ASIA** ... Widespread showers produced 10 to 35mm in Thailand's northern highlands and northeast corn and rice areas. Heavier rain (50 to 90mm) covered southeastern Thailand and western Kampuchea. The rain favored emergence of corn and rice. Locally inundative showers (50 to 238mm) covered Thailand's and Malaysia's peninsula. In the Philippines, showers helped irrigation reservoirs in central Luzon and southern Mindanao, but only light, scattered showers covered the remainder of the drought-stricken rice and corn areas.



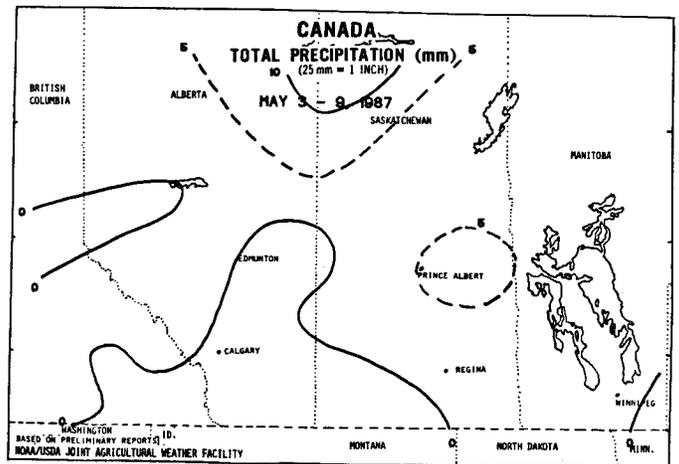
**AUSTRALIA** ... Light-to-moderate showers (5 to 25mm) in southeastern Queensland provided some beneficial moisture for wheat planting, following below-normal rainfall since February. Dry weather returned to wheat areas of South Australia, Victoria, and New South Wales, favoring fieldwork in preparation for wheat planting and summer crop harvesting. Locally heavy showers (50 to 219mm), along the northeast coast of New South Wales, likely caused some local flooding. Highly variable showers (10 to 78mm) fell along coastal Queensland's sugar area. Beneficial rain (10 to 52mm) continued to provide favorable soil moisture in Western Australia's wheat area.



**SOUTH AMERICA** ... Mostly dry weather favored harvesting throughout Argentina's major crop areas. Mostly light showers (less than 10mm) fell in Buenos Aires, where earlier wetness slowed the corn harvest. Argentina's corn harvest reached nearly 80-percent completion. Heavier showers (10 to 54mm) were confined to extreme southeastern Buenos Aires. The soybean harvest advanced to about 20 percent. Dry weather also favored northern Argentina's cotton harvest. Cool weather pushed into Argentina late in the week. In Brazil, dry weather early in the week allowed soybean harvesting in the south, but showers developed over the region during the last half of the week. The heaviest rain (50 to over 150mm) fell in eastern Santa Catarina, Parana, and southern Mato Grosso do Sul. In Rio Grande do Sul, where persistent wetness has delayed harvesting, 20 to 50mm of rain covered the crop area late in the week.



**MEXICO** ... Substantial showers (10 to 98mm) covered eastern Mexico, from the corn and sorghum area of Matamoros in the northeast to the sugarcane and coffee area near Veracruz. Scattered showers fell over the north-central rangelands and cotton area. Dry weather continued in the west from the northern wheat area through the west coast farming region to the western corn belt. Some light, scattered showers (1 to 9mm) fell over the remainder of the Southern Plateau corn belt, except for the extreme east near Veracruz.



**CANADA** ... Warm weather continued to favor early spring fieldwork across the Prairie Provinces. Light showers (mostly less than 5mm) covered eastern and northern grain areas, while dry weather prevailed in the southwest. Seeding progress advanced rapidly in the southern third of the grain belt and was underway across the remainder of the region. Topsoil moisture was limited for crop emergence, however, due to the unseasonable warmth.

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(Continued to p. 11)

GRAPEFRUIT production is forecast at 61.7 million boxes, is 7 percent above last season. As of May 1, 86 percent of the crop was harvested.

LEMON production, at 26.5 million boxes, is 44 percent above last season. As of May 1, 90 percent of the crop was harvested.

SPRING POTATOES are forecast at 19.0 million cwt, down 4 percent from last year and 17 percent below 1985.

ALMOND production is forecast at 560 million pounds, shelled basis, 124 percent above last year.

(Continued from p. 16)

California vegetable harvest consisted mostly of asparagus, artichokes, broccoli, carrots, sweet corn, lettuce, celery, and strawberries.

PASTURES AND LIVESTOCK: Livestock was mostly good. Pastures were mostly fair to good. Additional rain is needed, especially in the northern Plains and along the west coast.

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