

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

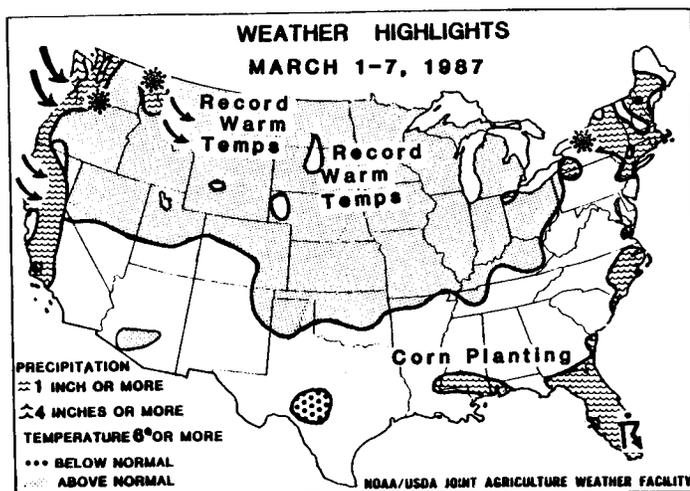
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Mar. 10, 1987

National Weather Summary

March 1 to 7, 1987



HIGHLIGHTS: Rain spread through the Northeast early in the week, with snow in the higher elevations of the Appalachians and from the eastern Great Lakes to the St. Lawrence Valley. Showers fell all along the east coast. Cooler air moved in behind the rain through the upper Mississippi Valley and spread into the East Coast States. Freezing temperatures reached to the lower Appalachians and over the Piedmont. A storm moving into the West brought strong wind and heavy rain to and through the Cascades and Sierras and lighter showers over the central Plateau and northern Rockies. The storm brought unusually warm air to the West and finally into the central Plains. As the week ended, a storm in the Gulf of Mexico spread showers over the eastern gulf coast and Florida.

SUNDAY...A severe storm exited the Nation through the Northeast, spreading snow through the upper Great Lakes and wet snow or freezing rain in the St. Lawrence Valley. Moderate to heavy rain fell in much of the Northeast, resulting in local flooding. Lighter rain fell through the Midwest and Mid-Atlantic region. Showers covered the southeastern coast and Florida.

MONDAY...Light rain continued in most of the Northeast, while snow fell in the upper Great Lakes and northern New England. Freezing rain fell in the St. Lawrence Valley and parts of southern New England. Colder air pushed into the Great Lakes and upper Mississippi Valley. A Pacific storm produced rain across the Northwest with snow in the mountains and southward to central California.

TUESDAY...Unsettled weather triggered light snow in the Northeast, and light rain fell in Pennsylvania.

Colder air pushed into the lower Appalachians, and freezing temperatures covered the Tennessee Valley and western South Carolina. Strong and gusty wind throughout the Northwest accompanied moderate to heavy rain, as unseasonable warm weather moved in.

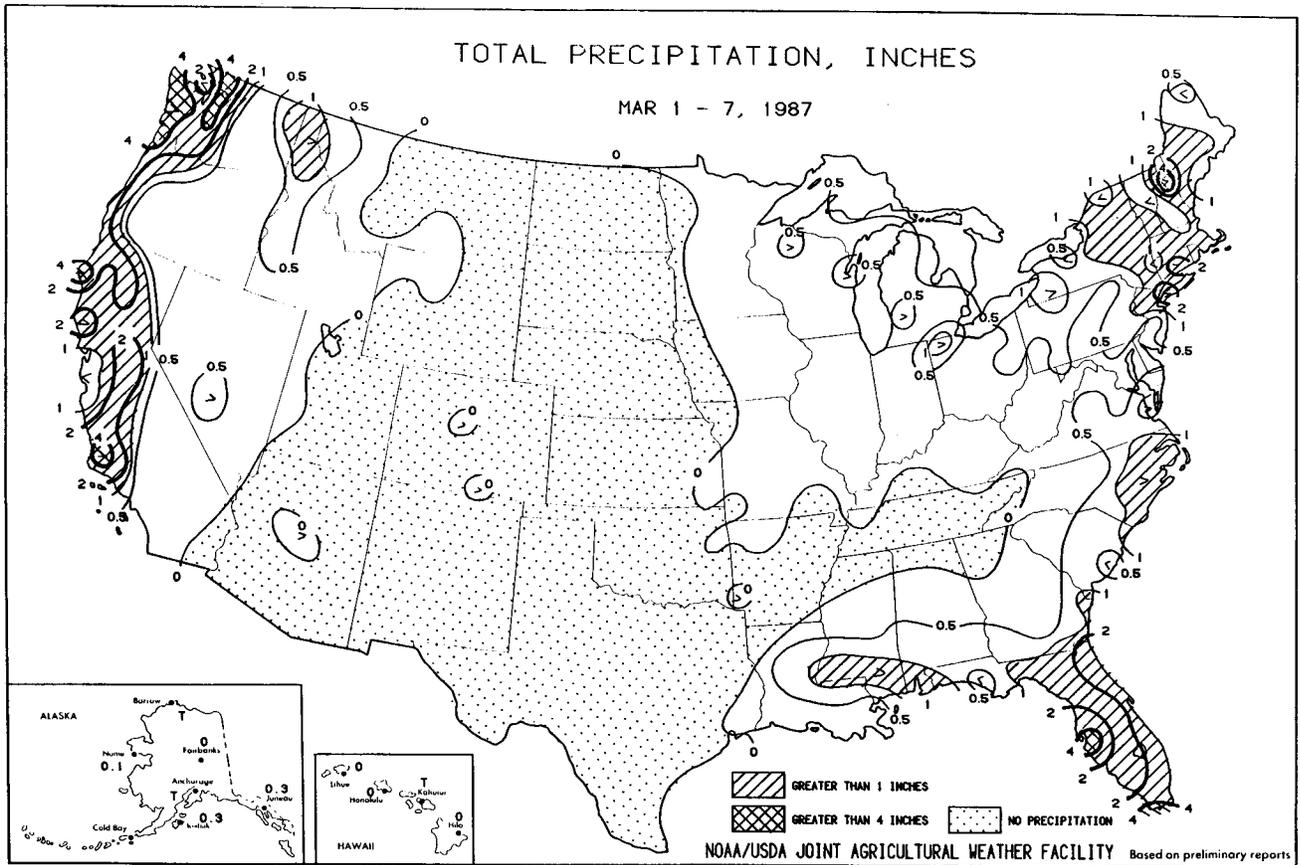
WEDNESDAY...The area of rain and strong wind spread to cover nearly all of the west coast, and record-warm weather reached from southern California to the northern High Plains. Widely scattered snow showers reached from the eastern Great Lakes and central Appalachians into New York. Colder air covered the Northeast and reached to the Piedmont of the lower Appalachians.

THURSDAY...A Pacific storm continued to bring wet and windy weather to much of the West from the coast across the central and northern Plateau. Moderate to heavy rain fell in much of California, threatening to flood many local areas. Freezing temperatures still covered the Northeast and the lower Appalachians. Warm weather continued in the West, with record-high temperatures in much of the northern Rockies and High Plains.

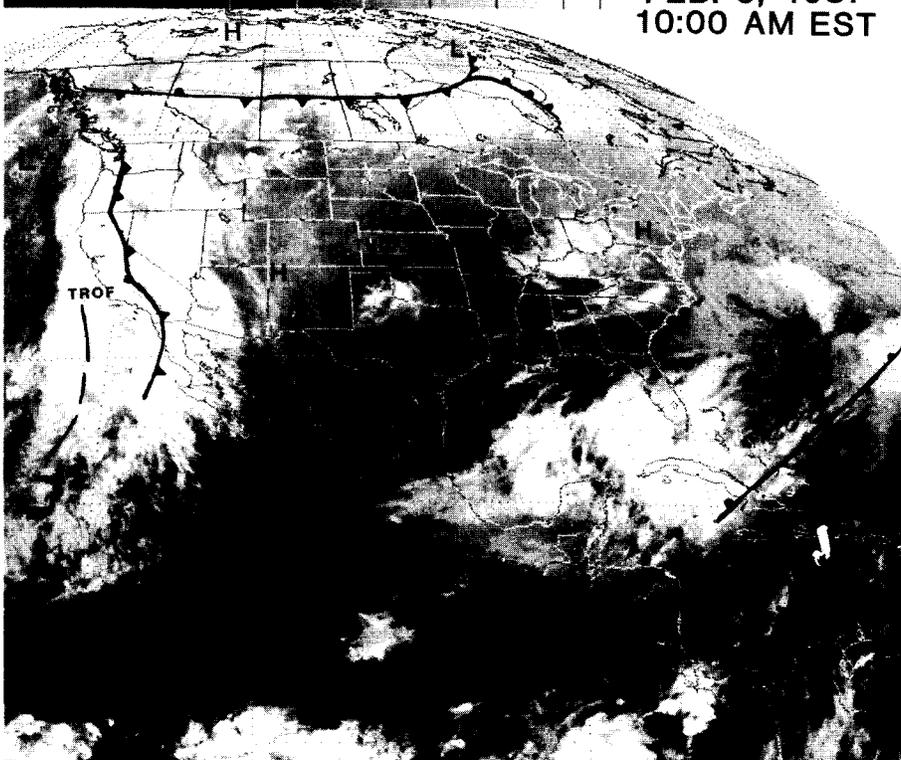
FRIDAY...Rain was not as heavy in the West but continued through the West Coast States and the central Plateau and spread over the northern Rockies. Record-warm temperatures were noted in the central Plains and northern High Plains. Cold air continued in the East from the lower Appalachians northward. A disturbance in the Gulf of Mexico spread heavy showers over southern Florida and lighter amounts over all of the eastern gulf coast.

SATURDAY...The storm in the West weakened, but light showers were scattered from southern California through North Dakota. The expanding disturbance in the Gulf of Mexico spread moderate to heavy showers throughout the Southeast.

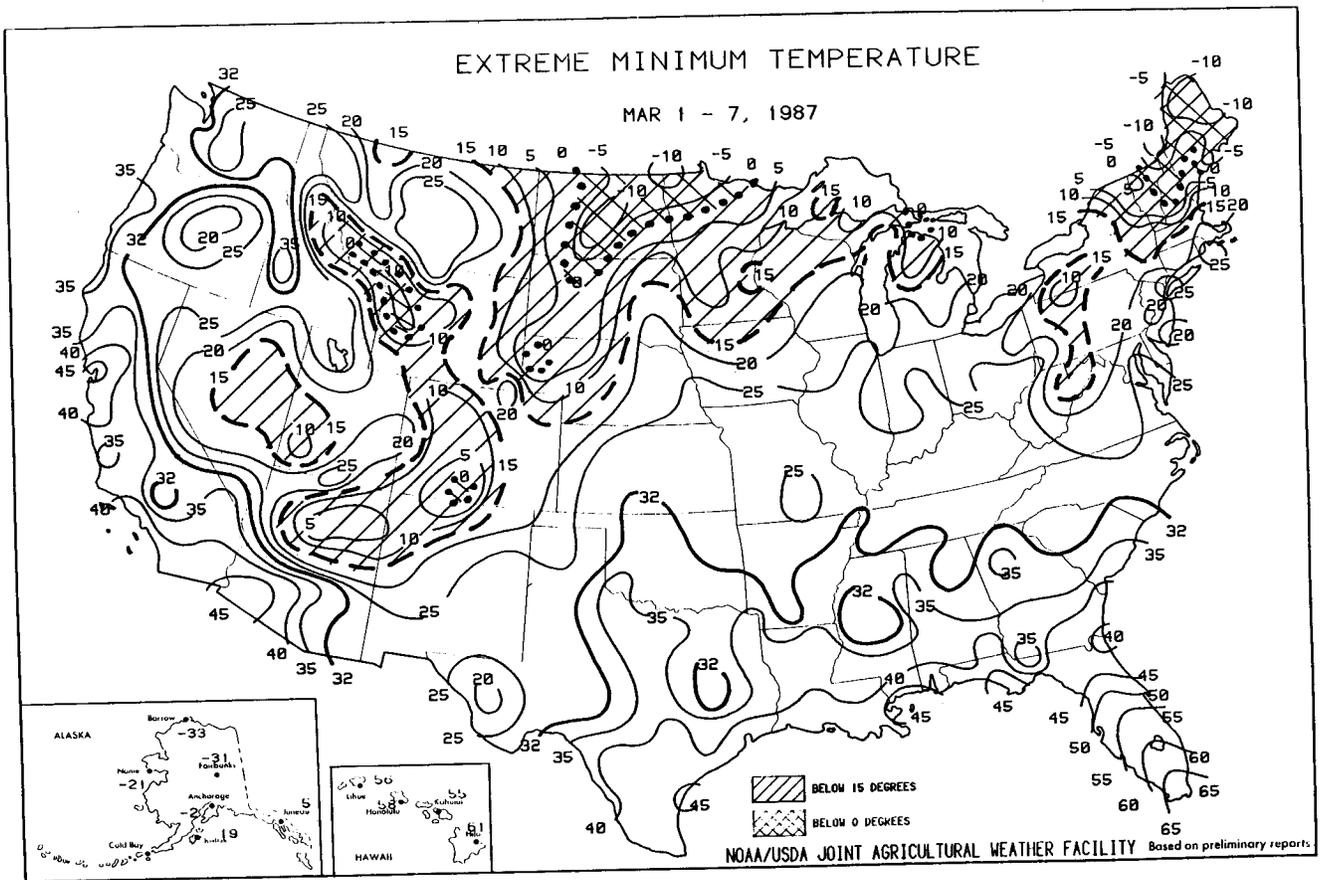
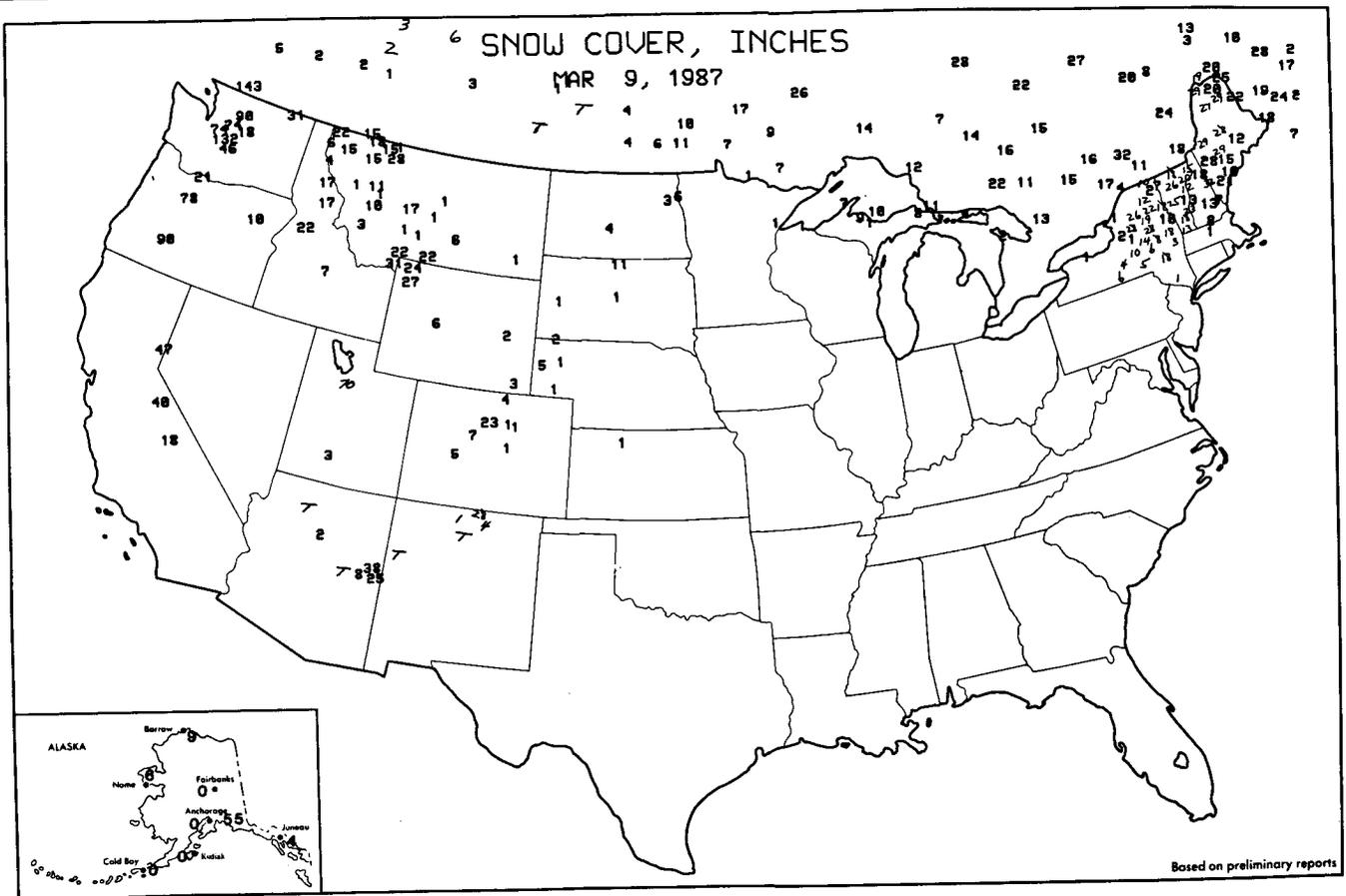
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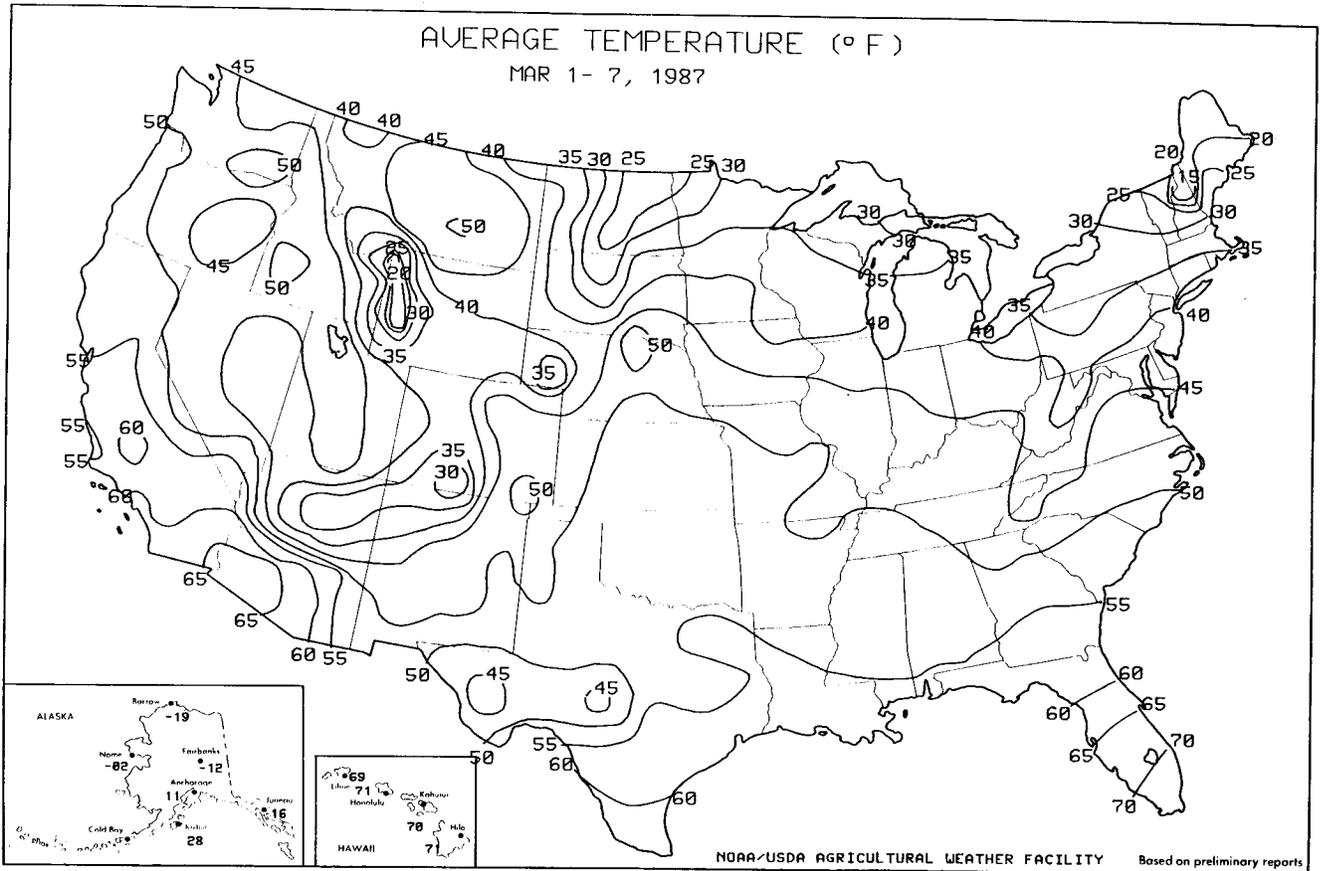


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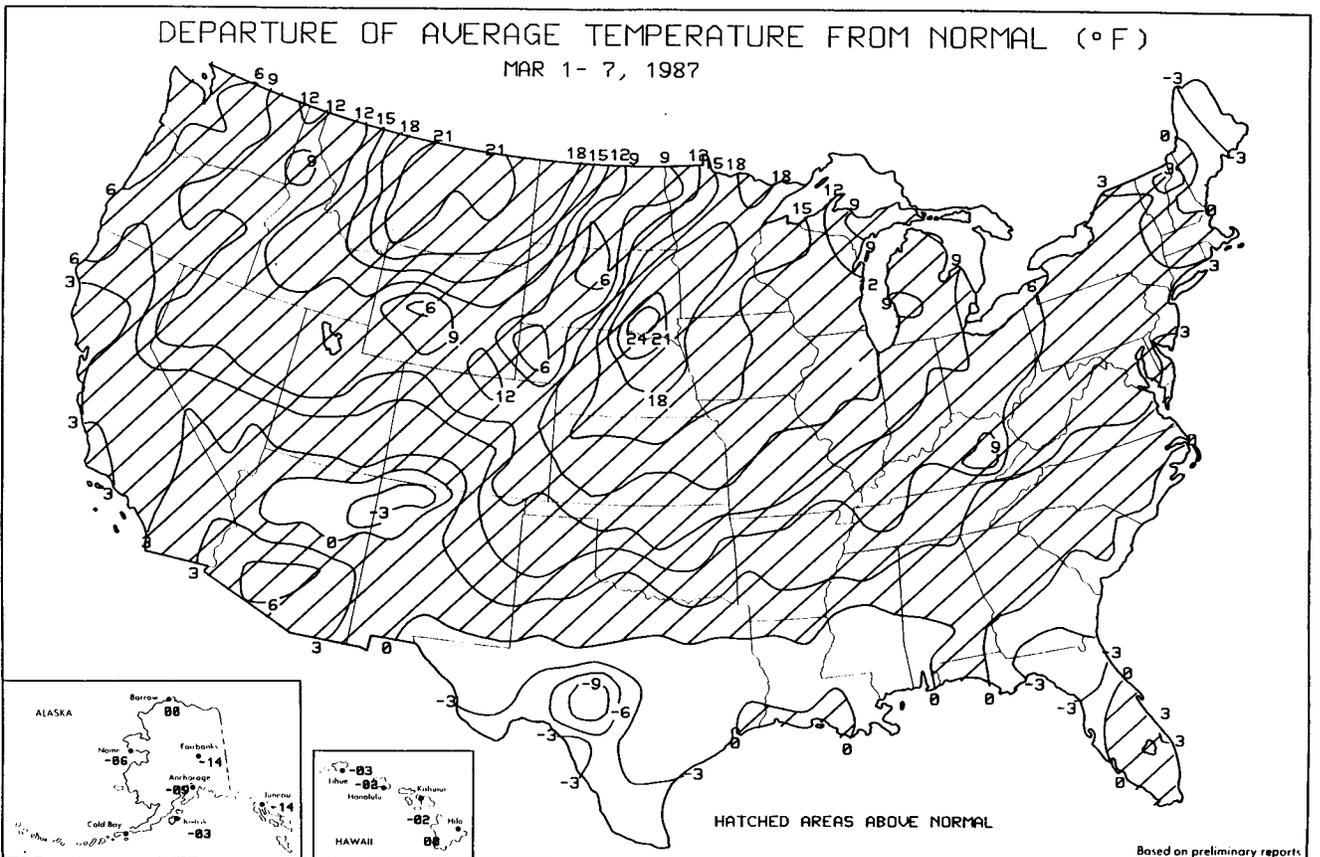


RAIN IS WIDESPREAD IN THE WEST FROM BRITISH COLUMBIA TO BAJA, CALIFORNIA AS AN EXTENSIVE PACIFIC STORM MOVES INLAND. RAINSHOWERS IN THE OHIO VALLEY ARE AHEAD OF A LOW PRESSURE SYSTEM CENTERED OVER ILLINOIS. A STATIONARY FRONTAL SYSTEM BRINGS UNSEASONABLE RAIN TO CUBA AND THE GULF OF MEXICO.



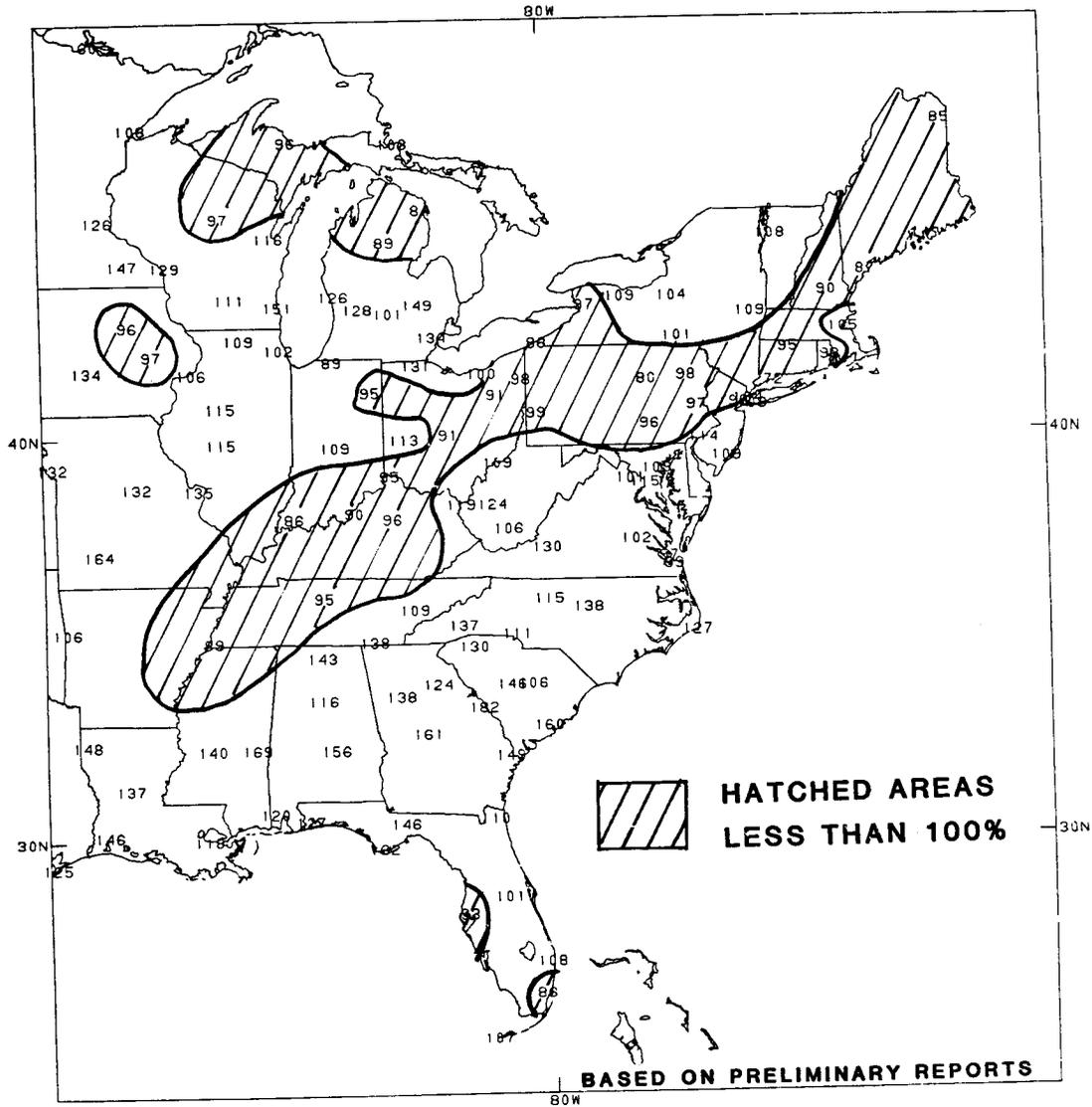


Point values may differ on these computerized maps from the reported values in the tables.



RAIN RELIEVES LONG-TERM DRYNESS IN THE SOUTHEAST

PERCENT OF NORMAL PRECIPITATION AUGUST 1, 1986 TO FEBRUARY 28, 1987



The last 7 months brought greater than normal precipitation to much of the area that suffered from severe drought during 1986. The increased precipitation reduced the long-term moisture deficits, especially in the eastern portions of the Southeast. Western Tennessee and most of Kentucky, however, received less than normal precipitation.

National Weather Data for Selected Cities

Weather Data for the Week Ending March 7, 1987

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	65	38	71	30	51	1	T	-1.4	T	T	2	11.9	105	78	25	0	3	1	0
MOBILE	67	44	72	41	56	-2	1.4	0	1.4	1.4	100	15.9	146	88	31	0	0	1	0
MONTGOMERY	66	41	72	35	54	0	.4	-9	.4	.4	29	17.3	173	79	29	0	0	1	0
AK ANCHORAGE	21	2	23	-2	12	-9	T	-2	T	T	6	1.8	100	65	33	0	0	1	0
BARRON	-14	-25	0	-33	-19	-1	T	0	T	T	33	.2	50	84	65	0	7	1	0
FAIRBANKS	5	-29	18	-31	-12	-14	0	0	0	0	0	.8	73	77	40	0	7	1	0
JUNEAU	21	11	28	5	16	-14	0	-5	.3	.3	38	7.5	91	69	38	0	7	1	0
KODIAK	34	23	41	19	28	-2	.3	-7	.3	.3	26	15.2	129	70	39	0	6	1	0
NOME	9	-14	17	-21	-2	-7	.1	0	.1	.1	64	1.6	114	80	50	0	7	1	0
AZ PHOENIX	79	53	86	43	66	6	T	0	T	T	0	2.7	180	59	17	0	0	0	0
PRESCOTT	56	25	65	13	40	0	T	-4	T	T	5	3.5	97	77	37	0	5	0	0
TUCSON	77	46	82	33	61	0	T	-2	T	T	0	2.2	138	65	14	0	0	0	0
YUMA	80	54	90	47	67	6	0	0	0	0	0	.4	57	59	20	1	1	0	0
AR FORT SMITH	68	34	76	27	51	4	T	-1	T	T	0	6.0	118	92	28	0	0	0	0
LITTLE ROCK	65	43	74	35	54	5	0	0	0	0	0	8.3	95	61	36	0	3	0	0
CA BAKERSFIELD	73	50	84	36	61	6	.3	.1	.2	.3	138	2.8	127	80	35	0	0	2	0
EUREKA	63	47	70	38	55	6	2.5	1.3	.8	2.5	210	12.4	93	89	64	0	0	2	2
FRESNO	70	47	78	38	59	6	1.1	.8	.7	1.1	292	4.4	102	89	42	0	0	2	1
LOS ANGELES	69	53	81	45	61	4	.4	-1	.3	.4	76	2.3	38	89	46	0	0	2	0
REDDING	60	43	64	35	52	-	2.5	-	1.9	2.5	-	14.5	-	87	52	0	0	4	1
SACRAMENTO	65	46	69	38	55	3	1.5	1.0	1.5	1.5	1.5	290	6.9	93	92	46	0	2	1
SAN DIEGO	69	53	85	47	61	3	.4	0	.4	.4	105	3.6	88	88	47	0	0	2	1
SAN FRANCISCO	61	48	65	42	55	2	.6	-1	.6	.6	92	6.9	81	94	62	0	0	2	1
CO DENVER	64	31	73	19	47	12	0	0	0	0	0	1.9	136	65	19	0	3	0	0
GRAND JUNCTION	58	27	66	22	43	4	0	0	0	0	0	2.0	333	93	18	0	7	0	0
PUEBLO	68	23	76	16	45	8	0	0	0	0	0	1.5	115	77	23	0	0	0	0
CT BRIDGEPORT	46	29	67	24	38	3	1.3	.4	1.2	1.3	152	6.5	92	80	46	0	5	2	1
HARTFORD	44	28	64	18	36	3	1.4	.6	1.3	1.4	166	8.1	107	77	42	0	5	2	1
DC WASHINGTON	57	35	75	26	46	4	.2	-5	.2	.2	32	7.3	120	77	33	0	3	1	0
EL APALACHICOLA	67	49	77	45	58	0	.5	-4	.5	.5	59	10.7	132	87	49	0	0	0	0
DAYTONA BEACH	69	54	72	44	62	0	2.4	1.7	1.2	2.4	333	11.2	181	95	59	0	3	2	1
JACKSONVILLE	66	45	74	37	56	-4	2.8	2.0	1.9	2.8	351	13.4	181	98	53	0	0	3	2
KEY WEST	77	67	84	65	72	0	8.4	8.1	5.3	8.4	9.9	247	97	71	0	0	6	4	2
MIAMI	78	66	82	62	72	2	2.3	1.9	1.1	2.3	573	5.8	129	87	55	0	0	4	2
ORLANDO	73	55	81	50	64	0	1.8	1.0	1.3	1.8	222	4.8	79	95	52	0	0	3	1
TALLAHASSEE	69	42	73	32	55	-2	1.2	-2	1.2	1.2	88	13.8	127	90	33	1	1	1	0
TAMPA	73	55	79	51	64	0	3.3	2.5	2.0	3.3	400	8.1	135	94	52	0	0	3	2
WEST PALM BEACH	77	65	82	59	71	2	3.5	2.9	2.3	3.5	575	5.9	100	88	58	0	5	2	1
GA ATLANTA	62	40	68	37	51	2	T	-1.3	T	T	0	11.7	110	70	29	0	0	0	0
AUGUSTA	67	36	74	32	52	0	.2	-9	.2	.2	16	16.3	179	88	26	2	1	0	0
MACON	66	40	72	33	53	0	.2	-1.0	.2	.2	17	14.1	142	87	27	0	0	1	0
SAVANNAH	66	44	72	38	55	-1	1.5	-7	1.0	1.5	175	14.5	204	94	34	0	0	2	2
HI HILO	80	63	82	61	71	0	T	-3	T	T	0	1.2	16	82	45	0	0	0	0
HONOLULU	81	61	83	58	71	-3	T	-8	T	T	0	3.2	42	81	49	0	0	0	0
KAHULUI	79	61	84	55	70	-2	T	-7	T	T	6	3.9	36	79	45	0	0	1	0
LIHUE	77	60	82	56	69	-3	0	-1.0	0	0	0	3.9	36	79	45	0	0	0	0
ID BOISE	60	44	70	36	52	13	.7	.5	.6	.7	318	2.7	93	72	37	0	0	3	1
LEWISTON	56	41	68	34	49	8	.3	0	.2	.3	114	1.3	52	90	52	0	0	3	0
POCATELLO	56	33	64	27	44	12	.1	-1	.1	.1	58	1.8	86	80	35	0	3	2	0
IL CHICAGO	55	33	74	26	44	14	.1	-4	.1	.1	22	2.8	88	87	41	0	4	1	0
MOLINE	58	30	75	24	44	14	.2	-3	.2	.2	42	2.0	59	90	38	0	5	1	0
PEORIA	58	32	74	25	45	13	.2	-4	.2	.2	31	2.5	71	89	39	0	4	1	0
QUINCY	61	34	74	26	47	13	.1	-5	.1	.1	17	2.3	68	83	43	0	4	1	0
ROCKFORD	54	28	72	22	41	12	.1	-4	.1	.1	17	1.8	60	93	45	0	5	1	0
SPRINGFIELD	60	34	75	29	47	12	.1	-5	.1	.1	21	2.3	61	87	39	0	4	1	0
IN EVANSVILLE	59	35	73	27	47	7	.1	-8	.1	.1	15	4.4	63	86	39	0	2	1	0
FORT WAYNE	52	31	71	22	41	9	.6	0	.4	.6	102	3.2	70	89	49	0	3	2	0
INDIANAPOLIS	56	34	73	24	45	10	.1	-7	.1	.1	11	2.9	50	82	40	0	2	1	0
SOUTH BEND	52	31	73	21	42	10	.5	-1	.3	.5	84	4.1	82	92	43	0	4	2	0
IA DES MOINES	58	31	73	22	45	15	T	-4	T	T	0	1.8	72	88	40	0	3	1	0
SIoux CITY	64	31	78	22	47	18	0	-3	0	0	0	.6	32	91	33	0	0	0	0
WATERLOO	53	27	72	18	40	13	.2	-2	.2	.2	46	1.6	76	97	57	0	6	1	0
KS CONCORDIA	68	37	77	27	53	17	0	-4	0	0	0	1.5	83	82	28	0	2	0	0
DODGE CITY	68	35	75	26	52	13	0	-3	0	0	0	2.0	167	79	25	0	2	0	0
GOODLAND	66	32	76	18	49	15	0	0	0	0	0	1.3	144	77	24	0	4	0	0
TOPEKA	67	34	76	30	51	13	0	0	0	0	0	3.8	165	91	33	0	2	0	0
WICHITA	66	36	72	31	51	11	0	-4	0	0	0	4.7	247	88	34	0	2	0	0
KY BOWLING GREEN	60	35	71	30	48	5	T	-1.2	T	T	0	6.8	69	86	34	0	2	0	0
LEXINGTON	58	36	71	26	47	7	.1	-9	.1	.1	10	5.0	63	70	34	0	1	0	0
LOUISVILLE	59	36	72	29	48	7	.1	-9	.1	.1	14	5.4	71	72	32	0	1	0	0
LA ALEXANDRIA	66	43	72	39	54	-3	.8	-4	.8	.8	70	15.3	137	80	35	0	0	1	1
BATON ROUGE	69	45	74	39	57	0	.7	-3	.7	.7	67	15.7	148	82	31	0	0	1	1
LAKE CHARLES	69	45	74	42	57	0	.1	-6	.1	.1	14	12.6	147	89	34	0	0	1	0
NEW ORLEANS	67	49	71	45	58	-1	.2	-9	.2	.2	18	16.4	145	89	38	0	0	1	0

Based on 1951-80 normals.

Weather Data for the Week Ending March 7, 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
SHREVEPORT	69	39	76	35	54	8	0	0	0	0	10.1	122	89	27	0	0	0	0	
ME CARIBOU	26	5	36	-12	15	-4	0	0	0	0	2.9	58	87	45	0	7	2	0	
PORTLAND	37	18	47	4	27	-1	0	0	0	102	6.1	74	90	48	0	3	1		
MD BALTIMORE	56	32	73	21	44	5	0	0	0	32	8.3	122	72	30	0	7	1		
SALISBURY	56	33	71	22	44	4	0	0	0	84	10.1	133	83	33	0	4	1		
MA BOSTON	41	28	61	20	35	0	0	0	0	1.7	193	9.8	114	84	58	0	2		
CHATHAM	42	29	56	21	35	1	0	0	0	1.8	196	12.1	129	88	68	0	3		
MI ALPENA	41	23	65	7	32	9	0	0	0	.5	2.3	68	96	57	0	5	2		
DETROIT	48	29	72	22	38	8	0	0	0	.5	.9	83	95	48	0	6	4		
FLINT	48	29	72	19	38	10	0	0	0	.4	.2	90	88	47	0	5	3		
GRAND RAPIDS	47	29	66	21	38	10	0	0	0	.6	.1	4.6	85	52	0	6	2		
HOUGHTON LAKE	41	24	60	5	33	10	0	0	0	.4	.2	100	65	91	54	0	7		
LANSING	48	29	71	19	39	10	0	0	0	.2	.2	53	87	52	0	6	2		
MARQUETTE	43	20	67	8	32	8	0	0	0	.9	.8	210	93	50	0	6	3		
MUSKOGON	46	28	59	20	37	8	0	0	0	.3	.2	67	90	55	0	6	3		
SAULT STE. MARIE	34	19	54	-1	27	7	0	0	0	.6	.2	4	94	56	0	6	3		
MN ALEXANDRIA	50	24	71	7	37	18	0	0	0	.1	.2	1	94	55	0	5	1		
DULUTH	46	25	69	8	35	17	0	0	0	.2	.1	2	89	47	0	5	1		
INT'L FALLS	44	22	60	-4	33	18	0	0	0	.2	.2	58	89	48	0	5	1		
MINNEAPOLIS	52	27	73	16	40	16	0	0	0	.2	.2	53	90	48	0	5	1		
ROCHESTER	47	25	69	12	36	13	0	0	0	.1	.2	1	95	56	0	5	1		
MS GREENWOOD	67	38	72	31	52	1	0	0	0	0	2	9.7	88	91	28	0	1		
JACKSON	66	37	72	32	51	-2	0	0	0	.5	.6	46	15.5	149	95	31	0		
MERIDIAN	66	38	73	33	52	-1	0	0	0	.4	1.0	4	93	29	0	2	1		
MO CAPE GIRARDEAU	62	36	72	30	49	1	0	0	0	0	3	4.1	59	91	43	0	2		
COLUMBIA	63	36	73	25	49	11	0	0	0	.1	.6	1	92	41	0	3	1		
KANSAS CITY	66	37	75	28	51	13	0	0	0	0	0	3.0	78	32	0	2	0		
SAINT LOUIS	63	38	75	27	50	11	0	0	0	.1	.6	1	79	34	0	2	1		
SPRINGFIELD	65	36	74	28	51	10	0	0	0	0	1	7.3	166	82	33	0	2		
MT BILLINGS	62	40	71	31	51	20	0	0	0	0	2	12	60	27	0	2	1		
GLASGOW	58	30	69	19	44	22	0	0	0	0	0	0	29	85	39	0	4	0	
GREAT FALLS	63	40	74	26	51	22	0	0	0	0	0	0	16	62	25	0	3	0	
HAVRE	59	33	75	20	46	21	0	0	0	0	0	0	27	75	33	0	3	0	
HELENA	63	32	73	18	48	19	0	0	0	0	0	0	70	24	0	3	4	0	
KALISPELL	47	31	52	26	39	9	0	0	0	.7	.5	3	99	66	0	5	4	0	
MILES CITY	64	32	73	21	48	21	0	0	0	0	0	0	8	78	26	0	3	0	
MISSOULA	53	32	62	29	43	11	0	0	0	.1	.1	1	94	50	0	5	1	0	
NE GRAND ISLAND	67	33	78	24	50	18	0	0	0	0	0	0	86	28	0	4	0	0	
LINCOLN	67	30	80	24	49	17	0	0	0	0	0	0	89	29	0	5	0	0	
NORFOLK	65	32	79	23	49	20	0	0	0	0	0	1.1	69	85	27	0	4	0	
NORTH PLATTE	64	26	78	14	45	14	0	0	0	0	0	1.7	155	93	29	0	7	0	
OMAHA	64	37	75	26	50	18	0	0	0	0	0	0	76	42	0	3	0	0	
SCOTTSSBLUFF	55	18	66	-4	37	4	0	0	0	0	0	0	2.2	220	87	37	0	7	0
VALENTINE	60	23	78	2	41	13	0	0	0	0	0	0	1.4	175	79	36	0	6	0
NV ELY	54	28	61	14	41	10	0	0	0	0	0	0	89	1.5	94	80	35	0	4
LAS VEGAS	68	44	74	33	56	3	0	0	0	.3	.2	3	309	1.9	190	70	25	0	1
RENO	63	36	70	23	49	10	0	0	0	.1	.1	1	37	1.4	58	77	24	0	2
WINNEMUCCA	61	36	70	26	48	11	0	0	0	.1	.1	1	43	1.1	65	82	30	0	2
NH CONCORD	40	16	59	-1	28	0	0	0	0	.9	.2	0	137	3.9	66	92	50	0	6
NJ ATLANTIC CITY	52	29	72	19	40	2	0	0	0	0	0	0	84	8.6	112	87	38	0	5
NM ALBUQUERQUE	62	30	69	24	46	3	0	0	0	0	0	0	1.3	144	68	16	0	5	0
CLOVIS	66	35	74	29	50	7	0	0	0	0	0	0	1.9	190	71	22	0	4	0
ROSWELL	69	32	77	27	50	3	0	0	0	0	0	0	2.3	256	80	19	0	4	0
NY ALBANY	42	25	60	14	34	5	1.3	1.2	1.3	205	5.8	112	92	54	0	5	2	1	
BINGHAMTON	42	26	62	15	34	7	0	0	0	.9	.7	0	146	4.6	85	86	54	0	5
BUFFALO	42	28	56	16	35	5	1.1	1.5	1.1	181	4.9	82	88	55	0	5	4	1	
NEW YORK	50	35	69	29	42	5	2.3	1.4	2.2	259	8.5	121	75	45	0	3	2	1	
ROCHESTER	44	27	63	20	35	6	0	0	0	.5	.4	0	87	2.9	56	90	58	0	5
SYRACUSE	43	25	62	18	34	5	1.1	1.4	0	9	1.1	161	81	90	56	0	6	3	1
NC ASHEVILLE	59	29	66	25	44	1	0	0	0	0	0	0	3	9.7	131	84	27	0	6
CHARLOTTE	63	34	71	31	49	2	0	0	0	0	0	0	10	10.2	119	78	28	0	3
GREENSBORO	59	31	70	26	45	1	0	0	0	.2	.2	0	26	8.8	114	79	30	0	4
HATTERAS	56	39	65	30	48	-1	1.5	1.5	1.5	161	16.4	167	89	49	0	1	1	1	
NEW BERN	62	36	71	30	49	0	1.4	1.4	1.4	162	12.5	140	92	39	0	3	1	1	
RALEIGH	62	33	72	25	47	2	0	0	0	.4	.4	0	51	12.5	160	80	26	0	5
WILMINGTON	64	38	72	30	51	0	1.1	1.1	1.1	119	12.0	150	88	33	0	2	1	1	
ND BISMARCK	41	10	55	-13	25	4	0	0	0	0	0	0	1.8	180	93	62	0	7	0
FARGO	42	21	60	3	31	13	0	0	0	0	0	0	1.1	110	93	71	0	6	0
GRAND FORKS	35	12	44	-6	23	7	0	0	0	0	0	0	1.5	107	97	69	0	6	0
WILLISTON	56	25	69	7	40	20	0	0	0	0	0	0	.5	50	94	46	0	6	0
OH AKRON-CANTON	48	30	68	19	39	7	0	0	0	.5	.2	0	83	52	0	5	3	0	
CINCINNATI	57	34	73	27	45	8	0	0	0	.3	.6	0	31	2.8	42	74	35	0	2
CLEVELAND	49	31	71	23	40	8	0	0	0	.4	.2	0	65	2.9	56	84	51	0	4
COLUMBUS	54	33	72	29	44	8	0	0	0	.1	.6	0	14	1.8	33	80	41	0	2

Based on 1951-80 normals.

Weather Data for the Week Ending March 7, 1987

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	53	33	71	22	43	8	.2	-.5	.2	.2	26	2.2	42	81	40	0	3	1	0
TOLEDO	50	31	71	25	41	10	1.4	.8	1.3	1.4	265	3.8	88	88	48	0	5	2	1
YOUNGSTOWN	46	28	69	19	37	6	.7	.0	.5	.7	102	3.1	56	87	53	0	5	3	1
OK OKLAHOMA CITY	67	41	72	34	54	9	0	0	0	0	0	6.6	244	72	25	0	0	0	0
TULSA	69	40	75	31	54	9	0	0	0	0	0	7.1	192	76	22	0	1	0	0
OR ASTORIA	56	44	64	33	50	6	4.1	3.4	1.7	4.1	596	19.6	245	96	67	0	0	6	3
BURNS	55	34	60	23	44	10	.1	0	0	.1	24	2.3	72	69	33	0	3	2	0
MEDFORD	61	40	72	27	50	6	T	-.4	T	T	9	5.2	88	84	39	0	2	1	0
PENDLETON	59	45	67	32	52	10	.2	-.1	.2	.2	68	2.3	74	73	44	0	1	1	0
PORTLAND	57	45	69	34	51	7	2.0	1.2	1.3	2.0	240	11.6	106	95	68	0	0	5	1
SALEM	57	44	62	33	50	7	1.0	0	.5	1.0	99	12.2	97	98	66	0	0	4	0
PA ALLENTOWN	48	28	70	20	38	4	1.0	.2	.9	1.0	121	5.9	83	91	48	0	5	3	1
ERIE	45	29	65	22	37	8	.6	0	.5	.6	98	3.8	76	85	54	0	5	2	0
HARRISBURG	51	30	72	18	40	4	.5	-.2	.5	.5	68	8.4	131	84	43	0	3	2	1
PHILADELPHIA	53	31	72	26	42	4	.3	-.5	.3	.3	37	6.1	90	84	41	0	5	1	0
PITTSBURGH	51	29	71	22	40	6	.4	-.4	.2	.4	49	3.3	56	73	38	0	5	4	0
SCRANTON	45	26	64	17	35	4	.3	-.3	.3	.3	52	3.6	75	91	53	0	6	2	0
RI PROVIDENCE	45	29	65	22	37	3	1.7	.8	1.6	1.7	184	6.7	77	90	46	0	5	2	1
SC CHARLESTON	65	43	71	37	54	0	.4	-.6	.4	.4	43	12.3	160	89	30	0	0	1	0
COLUMBIA	66	35	72	29	51	0	.7	-.5	.7	.7	57	14.4	152	87	25	0	3	1	1
FLORENCE	64	38	72	33	51	0	.9	-.1	.9	.9	91	11.4	146	78	25	0	0	1	1
GREENVILLE	63	31	69	28	47	-1	T	-.3	T	T	2	12.0	120	88	29	0	5	1	0
SD ABERDEEN	51	23	69	12	37	16	0	-.2	0	0	0	1.2	92	96	54	0	7	0	0
HURON	60	26	80	16	43	19	0	-.2	0	0	0	1.3	93	93	39	0	6	0	0
RAPID CITY	53	26	68	8	39	10	0	-.2	0	0	0	1.8	150	80	38	0	4	0	0
SIOUX FALLS	61	30	78	17	46	20	0	-.3	0	0	0	.4	82	32	0	4	0	0	0
TN CHATTANOOGA	63	35	72	30	49	3	0	-.4	0	0	0	13.5	119	88	30	0	3	0	0
KNOXVILLE	61	31	72	27	46	1	T	-.2	T	T	0	9.3	93	91	31	0	6	0	0
MEMPHIS	66	40	73	33	53	5	0	-.1	0	0	0	7.6	76	81	36	0	0	0	0
NASHVILLE	63	36	73	29	49	4	0	-.2	0	0	0	6.4	66	83	27	0	2	0	0
TX ABILENE	66	39	72	35	53	1	0	-.2	0	0	0	4.1	186	77	24	0	0	0	0
AMARILLO	66	32	75	24	49	6	0	-.2	0	0	0	2.1	175	78	25	0	4	0	0
AUSTIN	70	43	74	40	56	-1	0	-.4	0	0	0	3.8	86	78	31	0	0	0	0
BEAUMONT	70	46	74	43	58	1	.1	-.7	.1	.1	10	15.9	177	88	31	0	0	1	0
BROWNSVILLE	73	49	75	43	61	-5	0	-.1	0	0	0	4.7	162	96	40	0	0	0	0
CORPUS CHRISTI	70	47	74	45	59	-4	0	-.2	0	0	0	8.3	252	96	39	0	0	0	0
DEL RIO	71	42	74	39	56	-4	0	-.1	0	0	0	3.6	240	76	33	0	0	0	0
EL PASO	70	31	76	26	51	-2	0	-.1	0	0	0	.5	56	73	16	0	5	0	0
FORT WORTH	68	39	73	33	53	1	0	-.4	0	0	0	4.9	123	85	28	0	0	0	0
GALVESTON	66	51	70	49	59	0	0	-.5	0	0	0	8.7	150	83	40	0	0	0	0
HOUSTON	72	42	75	38	57	-2	T	-.6	T	T	0	6.7	91	88	28	0	0	0	0
LUBBOCK	67	34	76	27	50	4	0	-.2	0	0	0	2.0	182	86	27	0	3	0	0
MIDLAND	67	35	75	29	51	-1	0	-.1	0	0	0	2.1	191	86	26	0	1	0	0
SAN ANGELO	67	33	74	30	50	-4	0	-.1	0	0	0	5.1	319	90	27	0	4	0	0
SAN ANTONIO	72	40	74	38	56	-3	0	-.3	0	0	0	5.9	164	85	26	0	0	0	0
VICTORIA	71	45	75	44	58	-2	0	-.3	0	0	0	6.6	150	94	29	0	0	0	0
WACO	69	37	75	32	53	-2	0	-.4	0	0	0	4.0	98	93	31	0	1	0	0
WICHITA FALLS	67	37	74	34	52	3	0	-.3	0	0	0	5.9	268	86	26	0	0	0	0
UT BLANDING	56	25	63	15	41	4	0	-.2	0	0	0	2.5	100	83	42	0	7	0	0
CEDAR CITY	56	28	63	9	42	5	T	-.2	T	T	0	1.7	100	78	32	0	4	0	0
SALT LAKE CITY	63	36	69	27	49	12	0	0	0	0	0	2.9	97	68	21	0	3	0	0
VT BURLINGTON	37	18	52	7	28	3	.7	.3	.5	.7	161	3.1	78	94	58	0	7	2	1
VA NORFOLK	59	37	74	28	48	3	.9	.1	.9	.9	107	14.0	179	83	32	0	2	1	1
RICHMOND	59	34	74	23	47	3	.3	-.6	.3	.3	31	8.4	118	79	28	0	3	1	0
ROANOKE	57	33	72	24	45	3	.3	-.5	.3	.3	37	9.4	138	79	31	0	3	1	0
WA COLVILLE	53	39	60	27	46	12	1.0	.7	.8	1.0	317	3.2	80	94	70	0	1	5	1
QUILLAYUTE	53	42	56	33	47	5	7.5	4.6	2.7	7.5	260	29.8	101	99	79	0	0	7	4
SEATTLE-TACOMA	55	43	68	35	49	6	3.5	2.6	1.5	3.5	399	11.5	104	94	69	0	0	5	2
SPOKANE	52	39	63	30	45	10	1.1	.8	.6	1.1	336	3.5	80	96	58	0	2	3	1
YAKIMA	58	35	60	24	47	7	.2	0	.1	.2	114	1.9	83	95	52	0	4	2	0
WY BECKLEY	52	30	67	22	41	4	T	-.8	T	T	3	6.9	92	77	36	0	5	2	0
CHARLESTON	57	33	72	25	45	4	T	-.8	T	T	2	6.6	89	81	32	0	2	1	0
HUNTINGTON	58	34	72	27	46	5	.4	-.5	.4	.4	41	6.2	90	81	37	0	2	1	0
PARKERSBURG	55	32	72	26	44	5	.1	-.7	.1	.1	7	3.1	50	84	36	0	3	2	0
WI GREEN BAY	46	28	69	21	37	13	.5	.2	.5	.5	150	1.4	56	95	54	0	6	1	1
LA CROSSE	51	28	74	15	39	13	.2	-.1	.2	.2	72	1.6	76	88	50	0	6	1	0
MADISON	50	28	70	22	39	12	.2	-.1	.2	.2	65	1.5	60	93	46	0	6	1	0
MILWAUKEE	50	30	72	22	40	12	.1	-.3	.1	.1	26	2.6	76	87	44	0	6	1	0
WAUSAU	46	25	66	15	36	14	.2	-.2	.2	.2	44	.8	36	89	50	0	6	1	0
WY CASPER	50	30	62	19	40	11	0	-.2	0	0	0	2.9	242	66	40	0	3	0	0
CHEYENNE	56	29	65	22	43	13	0	-.2	0	0	0	1.0	100	68	23	0	5	0	0
LANDER	47	20	59	1	33	4	0	-.2	0	0	0	2.6	200	80	42	0	7	0	0
SHERIDAN	62	30	73	19	46	17	0	-.2	0	0	0	1.2	71	85	34	0	4	0	0
PR SAN JUAN	85	70	88	69	77	1	.3	-.1	.3	.3	68	2.7	49	92	74	0	0	0	0

Based on 1951-80 normals.

Heating Degree Day Summary Table

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

LAST DATE OF DATA COLLECTION PERIOD IS 3-7-1987
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM CUM CUM, CUM CUM CUM CUM, CUM CUM CUM CUM. Rows list various cities and their corresponding heating degree day data.

February Weather and Crop Summary

WEATHER SUMMARY

HIGHLIGHTS: Average temperatures continued well above normal in the central and northern Great Plains, and the warmer than normal area expanded to include the area from the Rocky Mountains to the Appalachians, except for the Northeast. Temperatures were near or slightly cooler than normal along the east coast and over the western Plateau region. Some cold outbreaks did occur in the northern Plains and Great Lakes region, but were of short duration. Precipitation was generally favorable in most of the Nation. Notable dry areas were from the middle and upper Mississippi Valley to the Mid-Atlantic States and the Northeast, the northern High Plains and the Northwest, and parts of the Southwest and central Intermountain region of the West. Unusually cold air flowed into the Southwest during the latter part of the month and brought freezing temperatures to some of the southern valleys of California and Arizona.

FIRST WEEK...A Pacific storm triggered moderate to heavy rain along the Northwest coast and heavy snow in the Cascades and central Sierras. Warming weather melted snow at lower elevations and exacerbated flood conditions in the coastal area and in parts of the Intermountain region. A mixture of sleet and snow fell from the Texas Panhandle to southern Iowa, but just ahead of this area, showers and thunderstorms dumped moderate to heavy rain from central and southern Texas into southeastern Kansas. The unsettled area moved eastward across the South and triggered heavy showers. Unseasonably mild weather prevailed over all of the Nation.

SECOND WEEK...Pacific storms battered the west coast with heavy rain and strong wind. Extensive flooding occurred along the central coast of California. Winter storms brought snow, high wind, and bitter cold to the Northeast. At the end of the week, severe thunderstorms moved across the southern Plains, and middle and lower Mississippi Valley, while heavy snow blanketed the central Rockies.

THIRD WEEK...A near-stationary, low pressure system in the Southwest spawned a series of storms that moved eastward and dropped snow from Arizona and Utah to the Western portion of the central and southern Great Plains. Rainshowers covered the South, and rain or freezing rain spread northward to southern Missouri and the Ohio Valley. Heavy snow fell in the lower Appalachians and the Piedmont of North Carolina and southwestern Virginia. As the week ended, snow spread into the Midwest and northward through the Appalachians. Cold air flowed continuously into the Southwest, and, after midweek, some frost reached into parts of southern California.

FOURTH WEEK...An intense storm developed in the western Plateau and spread heavy mountain snow through the West with rain at lower elevations. Small hail accompanied thunderstorms in southwestern California, and cold air spread into the southern California and Arizona valleys. A strong flow of warm, moist air from the Gulf of Mexico spread over all of the East, preceding the storm as it moved out of the West. Rain was heavy from the central and southern Plains to the east coast from Georgia to the Mid-Atlantic region. The precipitation began as snow in the lower Appalachians and Piedmont from North Carolina and Southwestern Virginia but changed to rain as the air warmed.

CROP PRODUCTION HIGHLIGHTS

CITRUS production is forecast at 11.9 million tons, 10 percent higher than last season.

ORANGE production is forecast at 191 million boxes, 3 percent less than February 1 but 8 percent above the 1985-86 season.

GRAPEFRUIT production, excluding the California "Other Areas" crop, is forecast at 56.9 million boxes, down 1 percent from February 1 but 7 percent higher than last season.

LEMON production, at 24.7 million boxes, is up 3 percent from February 1 and 35 percent higher than last season's utilized production.

WINTER POTATO production is forecast at 2.79 million cwt, down 7 percent from last year but 4 percent above 1985.

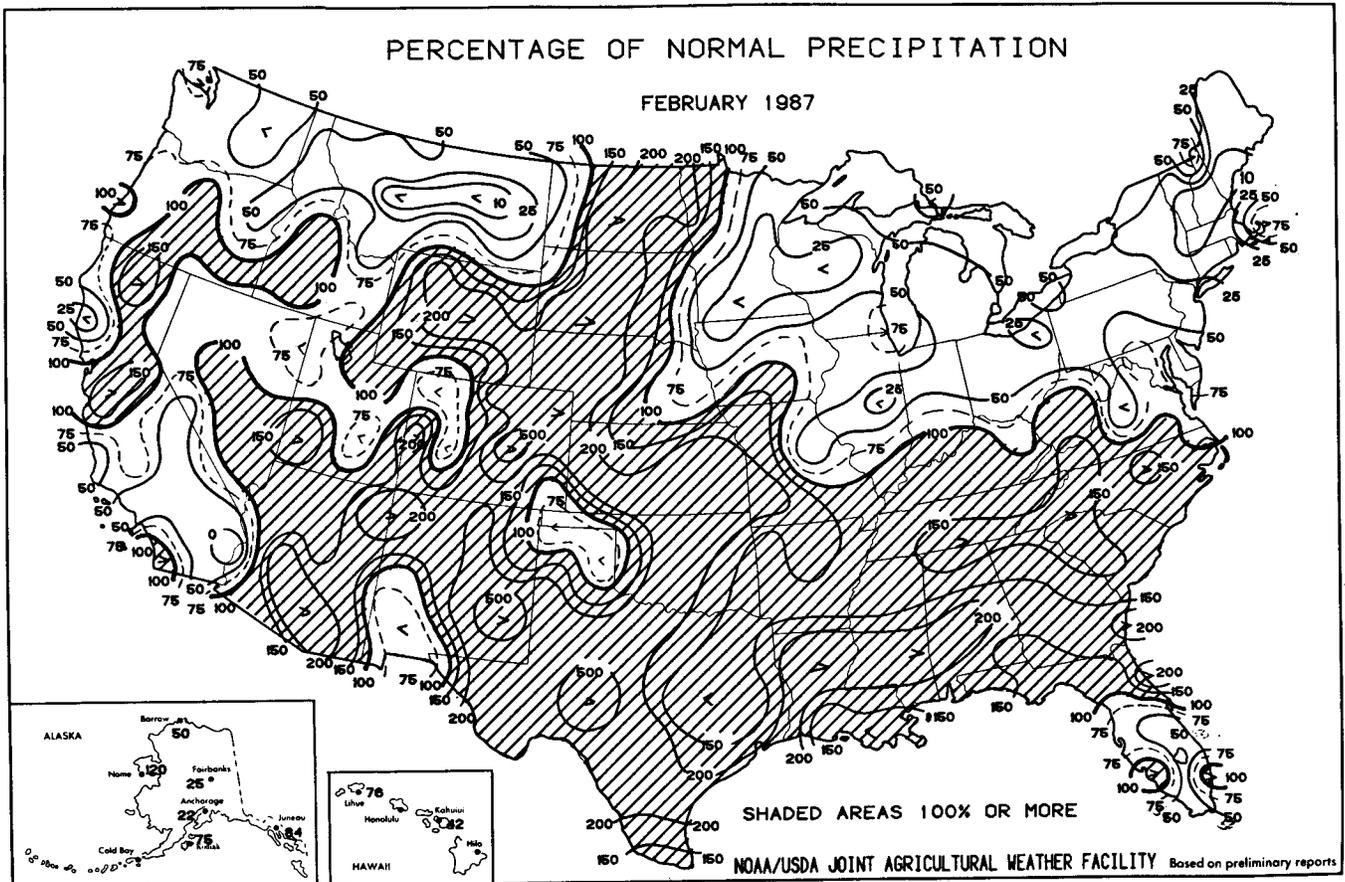
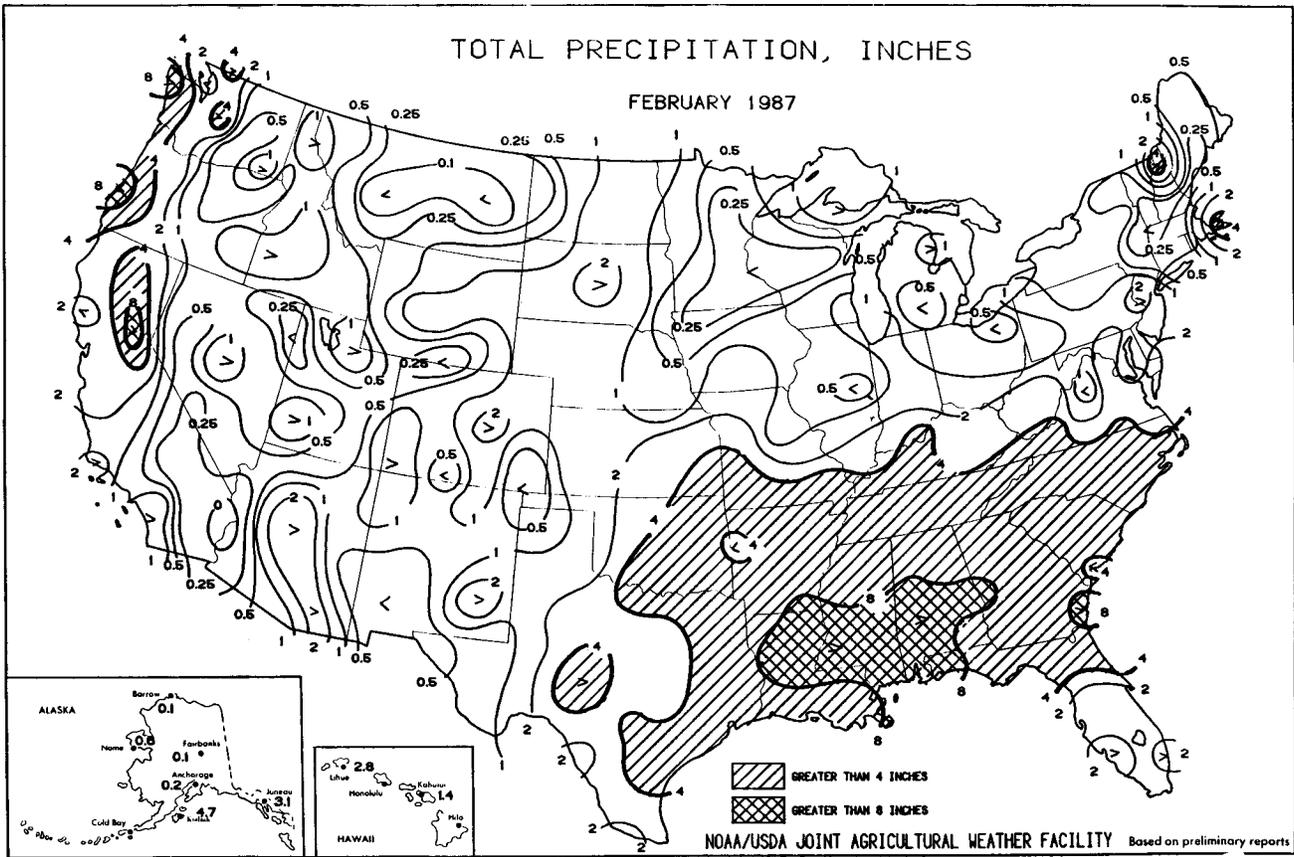
SPRING POTATO plantings are expected to total 79.3 thousand acres, up 2 percent from last year but 14 percent below two years ago.

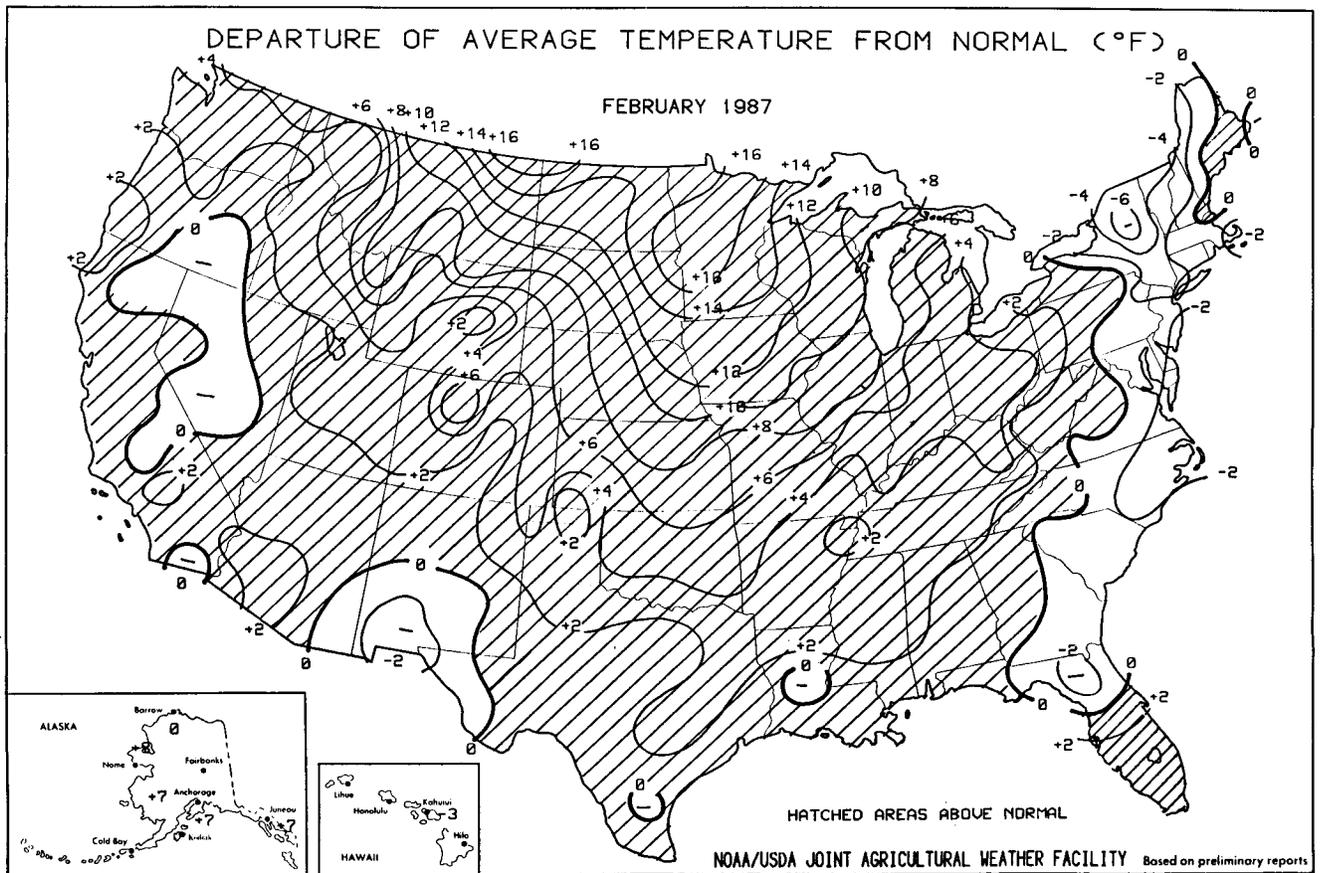
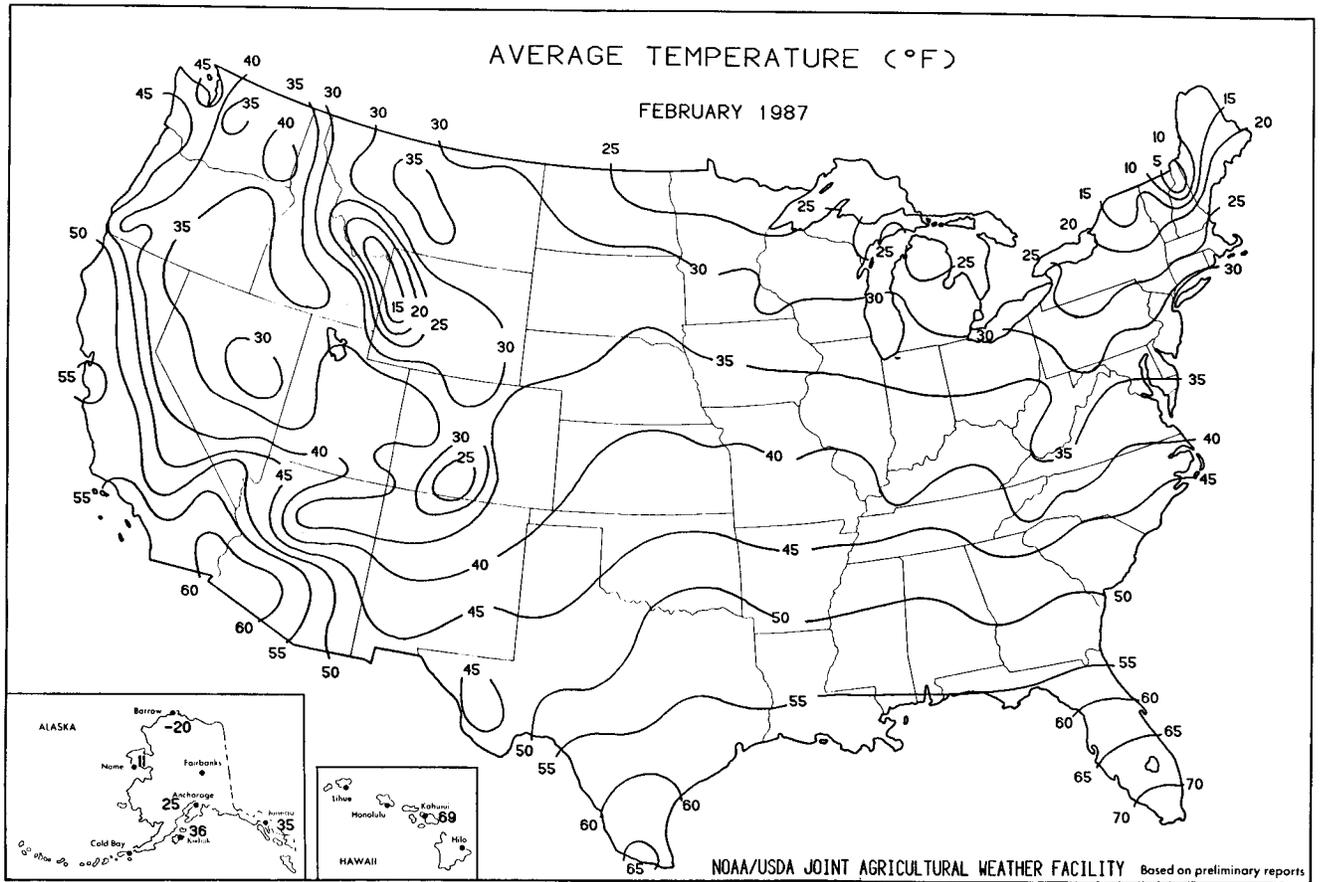
WINTER WHEAT

Winter wheat was mostly good to fair during February. Snow cover was mostly nonexistent in the northern Rockies, central and northern Great Plains and the southern Corn Belt. However, there was adequate snow protection at critical times when temperatures dipped below freezing. Above-normal temperatures were instrumental in keeping winter damage at a minimum, especially in the central and northern Plains, the southern Corn Belt, and the Rocky Mountain States. The warm temperatures encouraged growth but low soil moisture limited growth in the central and northern Great Plains. Early in the month, wheat showed signs of greening in Kansas and jointing in Texas. By midmonth, wheat was greening as far north as Montana. Oklahoma's wheat reached the jointing stage near the end of February. In the Southwest, inadequate moisture slowed wheat growth during the first half of the month.

FIELDWORK

Harvest of the 1986 cotton crop dragged into February. Wetness impeded harvest during most of the month in Oklahoma and Texas. Harvest neared completion in both States as the month drew to a close. Land preparation for spring planting progressed rapidly in the Southwest during the first half of February. In Arizona, cotton planting was underway the third week of February. Wetness hampered field activity in the Southeast during most of the month. The last week of February, land preparation moved into the central Plains and as far north as Iowa. Plowing was underway in southern Utah. By the end of the month, corn planting was underway in Arizona, Alabama, and Texas. Sorghum planting reached 2 percent completion in Texas. Fruit tree pruning was active throughout the Nation during February. In California and Texas, peach trees bloomed around midmonth. Texas peach trees reached the bloom stage about two weeks earlier than normal.





Temperature and Precipitation Data for FEBRUARY 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	47	1	6.1	1.3	LA ALEXANDRIA	54	-1	10.2	4.7	COLUMBUS	35	5	0.6	-1.6
AL MOBILE	54	0	8.6	3.7	LA BATON ROUGE	56	2	7.9	3.0	DAYTON	34	4	1.0	-1.1
AL MONTGOMERY	50	0	9.2	4.7	LA LAKE CHARLES	55	1	5.8	1.9	TOLEDO	30	4	0.5	-1.3
AK ANCHORAGE	26	8	0.3	-0.6	LA NEW ORLEANS	56	2	7.4	2.1	YOUNGSTOWN	29	3	0.6	-1.7
AK BARROW	-20	0	0.1	-0.1	ME SHREVEPORT	52	2	7.8	4.3	OK OKLAHOMA CITY	46	5	4.1	2.8
AK FAIRBANKS	2	7	0.1	-0.3	ME CARIBOU	13	0	0.3	-1.8	TULSA	45	4	4.7	3.1
AK JUNEAU	35	7	3.1	-0.6	ME PORTLAND	23	0	T	-3.5	OR ASTORIA	46	3	5.1	-2.7
AK KODIAK	36	7	4.7	-1.6	MD BALTIMORE	34	-1	2.2	-0.8	BURNS	33	-1	1.0	0.0
AK NOME	11	7	0.6	0.0	MD SALISBURY	34	-3	1.7	-1.6	MEDFORD	44	2	2.2	0.1
AZ FLAGSTAFF	31	0	2.5	0.5	MA BOSTON	29	-2	0.7	-3.0	PENDLETON	39	0	0.7	-0.5
AZ PHOENIX	60	4	2.1	1.5	MA CHATHAM	29	-2	4.1	-0.1	PORTLAND	45	2	2.6	-1.3
AZ PRESCOTT	40	1	2.4	0.8	MI ALPENA	22	4	0.9	-0.5	SALEM	44	2	3.5	-1.0
AZ TUCSON	54	0	1.6	1.0	MI DETROIT	30	4	0.5	-1.2	PA ALLENTOWN	29	0	1.1	-2.0
AZ WINSLOW	39	1	0.9	0.4	MI FLINT	29	5	0.4	-1.0	ERIE	27	2	1.1	-1.1
AZ YUMA	61	1	0.3	0.1	MI GRAND RAPIDS	30	6	0.4	-1.2	HARRISBURG	32	0	1.6	-1.1
AR FORT SMITH	47	4	3.5	0.9	MI HOUGHTON LAKE	24	6	0.6	-0.7	PHILADELPHIA	32	-1	1.2	-1.6
AR LITTLE ROCK	47	3	6.7	3.0	MI LANSING	29	5	0.3	-1.2	PITTSBURGH	32	4	0.7	-1.7
CA BAKERSFIELD	52	-1	0.9	-0.2	MI MARQUETTE	23	8	1.5	-0.3	SCRANTON	25	-2	0.7	-1.3
CA EUREKA	52	3	3.4	-1.8	MI MUSKOGON	30	6	0.7	-0.9	RI PROVIDENCE	28	-1	0.3	-3.4
CA FRESNO	53	2	1.4	-0.5	MI SAULT STE. MARI	22	8	0.8	-0.9	SC CHARLESTON	49	-1	4.6	1.3
CA LOS ANGELES	58	1	0.6	-1.9	MN ALEXANDRIA	29	17	0.6	-0.1	COLUMBIA	46	-1	5.4	1.4
CA REDDING	49	-2	5.0	1.7	MN DULUTH	24	12	0.3	-0.6	FLORENCE	45	-2	4.3	1.5
CA SACRAMENTO	51	1	3.1	0.3	MN INT'L FALLS	23	16	0.4	-0.3	GREENVILLE	43	-1	7.3	3.0
CA SAN DIEGO	58	0	1.6	0.1	MN MINNEAPOLIS	32	14	0.1	-0.7	SD ABERDEEN	31	15	1.1	0.5
CA SAN FRANCISCO	53	2	3.5	0.3	MN ROCHESTER	29	12	0.2	-0.5	HURON	33	15	1.2	0.4
CA STOCKTON	51	1	3.3	1.3	MN ST. CLOUD	29	15	0.1	-0.7	RAPID CITY	33	7	1.7	1.1
CO DENVER	36	3	1.2	0.5	MS GREENWOOD	50	3	6.3	1.8	SIoux FALLS	33	14	0.3	-0.7
CO GRAND JUNCTION	37	3	1.2	0.7	MS JACKSON	51	2	10.3	5.8	TN CHATTANOOGA	45	3	7.2	2.5
CO PUEBLO	37	2	1.4	1.1	MS MERIDIAN	51	2	11.3	6.8	KNOXVILLE	42	1	4.6	0.5
CT BRIDGEPORT	30	-1	0.5	-2.6	MO COLUMBIA	40	7	0.9	-1.0	MEMPHIS	47	4	5.8	1.5
CT HARTFORD	27	-1	0.5	-2.7	MO KANSAS CITY	39	7	2.2	1.0	NASHVILLE	43	3	4.8	0.8
DC WASHINGTON	37	-1	2.1	-0.5	MO SAINT LOUIS	40	6	1.4	-0.7	TX ABILENE	49	2	3.6	2.6
FL APALACHICOLA	56	1	4.2	0.5	MO SPRINGFIELD	41	5	5.3	3.1	AMARILLO	42	2	0.8	0.3
FL DAYTONA BEACH	60	1	6.6	3.5	MT BILLINGS	35	7	0.4	-0.3	AUSTIN	55	2	2.9	0.4
FL FT. MYERS	68	4	2.9	0.8	MT GLASGOW	31	15	0.1	-0.3	BEAUMONT	57	2	7.7	4.0
FL JACKSONVILLE	54	-1	6.5	3.0	MT GREAT FALLS	36	10	0.2	-0.5	BROWNSVILLE	64	1	2.3	0.7
FL KEY WEST	72	2	0.6	-1.4	MT HAVRE	31	11	0.2	-0.2	CORPUS CHRISTI	60	1	6.0	4.5
FL MIAMI	71	3	2.6	0.6	MT HELENA	32	6	T	-0.4	DEL RIO	55	1	3.5	2.6
FL ORLANDO	63	1	1.7	-1.1	MT KALISPELL	28	2	0.6	-0.5	EL PASO	46	-2	0.2	-0.2
FL TALLAHASSEE	53	-1	6.2	1.2	MT MILES CITY	33	11	0.1	-0.5	FORT WORTH	51	2	3.7	1.7
FL TAMPA	63	2	1.5	-1.5	MT MISSOULA	31	3	0.3	-0.5	GALVESTON	57	2	4.8	2.4
FL WEST PALM BEACH	69	3	1.2	-1.4	NE GRAND ISLAND	36	9	0.7	-0.1	HOUSTON	56	2	4.3	1.0
GA ATLANTA	46	1	6.1	1.7	NE LINCOLN	37	11	0.5	-0.5	LUBBOCK	45	2	1.5	0.9
GA AUGUSTA	47	0	7.2	3.2	NE NORFOLK	36	12	0.8	0.0	MIDLAND	47	0	2.0	1.4
GA MACON	49	-1	7.0	2.5	NE NORTH PLATTE	36	9	1.6	1.0	SAN ANGELO	50	0	4.4	3.6
GA SAVANNAH	50	-1	4.4	1.2	NE OMAHA	37	12	0.7	-0.3	SAN ANTONIO	56	2	4.8	2.9
HI HILO	71	0	4.7	-8.7	NE SCOTT'S BLUFF	34	4	1.9	1.5	VICTORIA	57	1	4.2	2.0
HI HONOLULU	71	-2	0.8	-1.9	NE VALENTINE	33	9	1.3	0.8	WACO	52	1	2.7	0.6
HI KAHULUI	69	-2	1.4	-1.9	NV ELKO	31	0	0.7	-0.1	WICHITA FALLS	49	3	4.2	3.2
HI LIHUE	69	-2	2.8	-0.9	NV ELY	30	1	0.6	-0.1	BLANDING	35	2	1.3	0.4
ID BOISE	38	2	1.2	0.2	NV LAS VEGAS	51	1	0.4	0.0	CEDAR CITY	35	0	1.3	0.5
ID LEWISTON	41	2	0.4	-0.5	NV RENO	39	1	0.8	-0.2	MILFORD	34	2	1.3	0.6
ID POCATELLO	34	4	0.7	-0.2	NV WINNEMUCCA	35	-1	0.5	-0.2	SALT LAKE CITY	36	2	1.4	0.1
IL CAIRO	42	3	4.2	0.8	NH CONCORD	22	0	T	-2.4	VT BURLINGTON	15	-3	0.5	-1.2
IL CHICAGO	34	8	1.0	-0.3	NJ ATLANTIC CITY	31	-2	1.5	-1.8	VA NORFOLK	38	-3	3.1	-0.2
IL MOLINE	34	9	0.9	-0.4	NM ALBUQUERQUE	39	0	0.6	0.2	RICHMOND	37	-2	2.6	-0.6
IL PEORIA	36	9	0.8	-0.6	NM CLOVIS	43	2	1.5	1.0	ROANOKE	37	-1	4.5	1.3
IL QUINCY	38	9	0.7	-0.8	NY ROSWELL	45	-1	2.0	1.7	WA COLVILLE	36	5	0.7	-0.8
IL ROCKFORD	32	9	0.8	-0.4	NY ALBANY	21	-2	0.3	-2.0	QUILLAYUTE	45	3	8.3	-3.8
IL SPRINGFIELD	37	7	0.7	-1.1	NY BINGHAMTON	23	1	0.7	-1.6	SEATTLE-TACOMA	46	3	2.1	-2.2
IN EVANSVILLE	39	4	3.5	0.5	NY BUFFALO	25	0	0.9	-1.5	SPOKANE	35	3	0.8	-0.8
IN FORT WAYNE	31	5	0.5	-1.4	NY NEW YORK	33	0	0.8	-2.3	WALLA WALLA	41	0	1.1	-0.3
IN INDIANAPOLIS	35	5	1.3	-1.2	NY ROCHESTER	23	-1	0.6	-1.7	YAKIMA	38	2	0.3	-0.5
IN SOUTH BEND	31	4	1.3	-0.7	NY SYRACUSE	22	-2	0.7	-2.0	WV BECKLEY	33	1	3.6	0.4
IA DES MOINES	36	11	1.4	0.3	NC ASHEVILLE	39	0	6.2	2.6	CHARLESTON	37	2	3.4	0.3
IA DUBUQUE	32	11	0.8	-0.5	NC CHARLOTTE	43	0	5.3	1.5	ELKINS	32	2	3.0	0.2
IA SIOUX CITY	35	12	0.4	-0.5	NC GREENSBORO	39	-1	4.7	1.4	HUNTINGTON	37	2	3.3	0.5
IA WATERLOO	32	12	0.9	-0.1	NC HATTERAS	44	-1	4.4	0.3	PARKERSBURG	36	3	1.6	-1.3
KS CONCORDIA	40	9	1.0	0.1	NC HATTERAS	44	-2	4.1	0.2	WI GREEN BAY	28	10	0.4	-0.7
KS DODGE CITY	40	5	1.4	0.8	NC NEW BERN	40	-1	5.6	2.1	LA CROSSE	31	12	0.3	-0.6
KS GOODLAND	38	6	1.0	0.6	NC RALEIGH	44	-1	5.6	2.1	MADISON	30	10	0.6	-0.4
KS TOPEKA	40	8	2.7	1.7	NC WILMINGTON	45	-2	4.4	1.0	MILWAUKEE	32	9	1.2	-0.1
KS WICHITA	42	7	3.3	2.5	ND BISMARCK	28	14	1.7	1.2	WAUSAU	27	11	0.1	-0.9
KY BOWLING GREEN	40	3	5.2	1.2	ND FARGO	28	17	0.9	0.4	WY CASPER	28	1	1.4	0.9
KY JACKSON	39	6	3.5	-0.2	ND GRAND FORKS	24	15	1.0	0.5	CHEYENNE	32	2	0.9	0.5
KY LEXINGTON	38	3	3.6	0.4	ND WILLISTON	29	15	0.2	-0.3	LANDER	28	3	1.8	1.2
KY LOUISVILLE	39	3	4.4	1.2	OH AKRON-CANTON	31	4	0.3	-1.9	SHERIDAN	34	8	0.7	0.0
					OH CINCINNATI	37	5	1.6	-1.1	PR SAN JUAN	77	1	1.2	-0.8
					OH CLEVELAND	30	3	0.5	-1.7					

Heating Degree Days (Base 65° F.)

February 1987

ALA. Birmingham . . .	485	MAINE, Caribou. . .	1465	OKLA. Okla. City . .	528
Mobile	311	Portland	1172	Tulsa	544
Montgomery	410	MD. Baltimore . . .	853	OREG. Astoria . . .	517
ALASKA, Anchorage .	1105	MASS. Boston . . .	997	Burns	900
Barrow	2388	Chatham	993	Medford	579
Fairbanks	1776	MICH. Alpena . . .	1188	Pendleton	717
Nome	1519	Detroit	984	Portland	550
ARIZ. Flagstaff . . .	942	Flint	1010	Salem	586
Phoenix	172	Grand Rapids . . .	978	PA. Allentown . . .	997
Tucson	299	Houghton Lake . . .	1159	Erie	1048
Winslow	639	Lansing	1005	Harrisburg	907
Yuma	130	Marquette	1171	Philadelphia	904
ARK. Fort Smith . . .	506	S. Ste. Marie . . .	1195	Pittsburgh	904
Little Rock	498	MINN. Duluth . . .	1153	Scranton	1111
CALIF. Bakersfield.	362	Internatl Falls . .	1158	R.I. Providence . . .	1014
Eureka	372	Minneapolis	929	S.C. Charleston . . .	446
Fresno	338	Rochester	993	Columbia	532
Los Angeles	189	St. Cloud	1002	Greenville	610
Red Bluff	434	MISS. Jackson . . .	378	S. DAK. Aberdeen . .	961
Stockton	380	Meridian	385	Huron	881
San Diego	197	MO. Columbia . . .	699	Rapid City	907
San Francisco	320	Kansas City	712	Sioux Falls	896
COLO. Denver	804	St. Louis	691	TENN. Chattanooga . .	562
Grand Junction . . .	785	Springfield	651	Knoxville	631
Pueblo	768	MONT. Billings . . .	829	Memphis	490
CONN. Bridgeport . .	975	Glasgow	948	Nashville	608
Hartford	1065	Great Falls	803	TEX. Abilene	429
D.C. Washington . . .	777	Havre	948	Amarillo	634
FLA. Apalachicola . .	246	Helena	923	Austin	266
Ft. Myers	---	Kalispell	1022	Beaumont	241
Jacksonville	292	Miles City	894	Brownsville	79
Key West	24	Missoula	956	Corpus Christi	156
Miami	15	NEBR. Grand Island.	793	Del Rio	252
Orlando	97	Lincoln	773	El Paso	521
W. Palm Beach	22	Norfolk	817	Fort Worth	387
Tallahassee	324	North Platte	810	Galveston	198
Tampa	88	Omaha	765	Houston	246
GA. Atlanta	534	Valentine	893	Lubbock	555
Augusta	491	NEV. Ely	985	Midland	484
Macon	451	Las Vegas	375	San Angelo	418
Savannah	401	Reno	737	San Antonio	254
IDAHO, Boise	761	Winnemucca	849	Victoria	207
Lewiston	680	N.H. Concord	1199	Waco	360
Pocatello	680	N.J. Atlantic City . .	947	Wichita Falls	452
ILL. Cairo	641	N. MEX. Albuquerque	717	UTAH, Milford	872
Chicago	866	N.Y. Albany	1207	Salt Lake City	803
Moline	851	Binghamton	1168	VT. Burlington	1397
Peoria	814	Buffalo	1115	VA. Lynchburg	782
Rockford	905	New York	886	Norfolk	730
Springfield	788	Rochester	1153	Richmond	777
IND. Evansville . . .	735	Syracuse	1206	Roanoke	782
Fort Wayne	937	N.C. Asheville	725	WASH. Colville	816
Indianapolis	820	Charlotte	614	Quillayute	572
South Bend	950	Greensboro	724	Seattle-Tacoma	522
IOWA, Des Moines . .	813	Hatteras	575	Spokane	831
Dubuque	922	Raleigh	681	Walla Walla	680
Souix City	840	Wilmingon	542	Yakima	761
KANS. Concordia . . .	692	N. DAK. Bismarck . .	1023	W. VA. Beckley	878
Dodge City	685	Fargo	1047	Charleston	770
Goodland	762	Williston	997	Huntington	765
Topeka	688	OHIO. Akron-Canton.	945	WIS. Green Bay	1033
Wichita	631	Cincinnati	766	Madison	963
KY. Lexington	749	Cleveland	958	Milwaukee	917
Louisville	706	Columbus	838	WYO. Casper	1018
LA. Baton Rouge . . .	280	Dayton	858	Cheyenne	927
Lake Charles	266	Toledo	922	Lander	1026
New Orleans	242	Youngstown	999	Sheridan	871
Shreveport	366				

National Agricultural Summary

March 2 to 8, 1987

HIGHLIGHTS: Warm temperatures and moisture accelerated small grain growth but left most fields in the northern major producing areas unprotected from possible below-freezing temperatures. Corn planting spread across the Southeast. Seeding was underway in Alabama, Georgia, Louisiana, Mississippi, and Texas. Sorghum was seeded in Texas. Spring plowing moved as far north as Minnesota and Montana and gained momentum in the central Great Plains and Corn Belt. Cotton seeding continued in western Arizona and moved into Texas. A few acres of 1986 crop cotton remain to be harvested in Oklahoma and Texas. Soil moisture was mostly adequate through the Nation. Rain helped subdue dryness in the West Coast States. Livestock was mostly good.

SMALL GRAINS: Warm temperatures and adequate moisture promoted small grain growth in most areas of the Nation. Small grains and winter wheat were mostly good to fair, except in the Southeast where conditions were fair to good. Snow cover was mostly nonexistent, except in the northern Corn Belt, western Nebraska, and parts of the northern Great Plains. Crop development ranged from greening in Montana to jointing in Texas and heading in Arizona. Topdressing was active in most areas of the Nation.

In Texas, sunny weather greatly improved small grain growth in the major producing areas. Rust was prominent in the Blacklands but was causing minor problems in central areas. Weed control measures were taken in the Blacklands and central Texas. Wheat and oats progressed well in Arkansas. Wheat was good to fair in Oklahoma, and 5 percent (%) of the acreage reached the jointing stage. Warm weather and moisture accelerated growth. Drier weather is needed for fertilizer and herbicide applications. Kansas wheat continued breaking dormancy, and growth was generally good. Insect and disease problems were light to moderate. Oats and barley were 25% seeded. In western Nebraska, snow cover protected winter wheat from wind and falling temperatures and provided additional moisture. Winter grains were mostly good in South Dakota. Seventy-six percent of Montana's wheat acreage was greening while the rest remained dormant. Oats seeding progressed well in Missouri. Wet fields slowed small grain planting in Colorado. Washington's winter wheat was greening-up. Rain benefited small grain development in California. Forty-five percent of Arizona's wheat and barley acreage reached the jointing stage, compared with 50% normally. Irrigation and fertilization continued and some acreage began heading in western areas of the State.

OTHER CROPS: Cotton harvest and planting occurred simultaneously in Texas. One percent of the 1987 crop was planted, while little of the 1986 crop acreage remains to be harvested. Wetness hampered cotton harvest in Oklahoma. About 3% of the 1986 crop acreage was still standing. Pre-irrigation of cotton land continued in California. Cotton planting was underway in western Arizona. Land preparation was very active; including listing, bed shaping, pre-irrigation, herbicide, and nematocide applications.

Corn planting began spreading across the South, stretching from Texas to Georgia. In Texas, planting reached 5% completion, 10 percentage points behind normal. Early planted corn was emerging. Seeding was just getting underway in Louisiana and Mississippi. Alabama and Georgia farmers planted corn as the weather permitted. Sorghum seeding advanced to 4% completion in Texas, compared with 22% last year and 9% normally. The warm weather enticed farmer into fields as far north as Montana and Minnesota. Land preparation gained momentum in the central Plains and Corn Belt but did not reach full speed.

Tobacco plants were fair to good in Florida and poor to fair in Georgia. Farmers were seeding and preparing tobacco plantbeds in North Carolina and Virginia. Burley tobacco bed preparation was underway in Kentucky.

FRUIT AND NUTS: Fruit trees progressed well in Arkansas. Caneberry training, spraying, and fertilization continued in Oregon. Fruit trees were in good condition following a mild winter. Peaches continued blooming in Texas. Producers were concerned that insufficient cold weather may affect fruit set.

Florida's citrus groves were in good condition. Adequate moisture limited irrigation. New growth showed, and bloom buds formed. Early orange harvest slowed, but grapefruit movement was very active. Tangelo harvest was almost complete, but temple orange harvest continued. Caretakers were busy hedging, fertilizing, and cultivating. Light demand slowed valencia orange harvest in Texas. Grapefruit harvest continued. In California, valencia orange harvest began. Avocado and other citrus harvests continued. Early almond petals fell and leaves broke through buds. Stonefruit bloomed, and pollination continued. Male kiwi buds swelled. Valencia oranges, lemons, and grapefruit were picked in Arizona.

VEGETABLES: A few peas were planted in Ohio. Florida's vegetables suffered foliage burn and minor damage from strong, gusty winds. Planting progressed favorably, except in the northern watermelon producing area. Harvest was active with tomatoes, cabbage, celery, potatoes, carrots, and lettuce volume leaders. Strawberry harvest gained momentum. Cabbage and carrot harvests increased in the Rio Grande Valley. Melon planting increased, and some early planted seeds were emerged. Wet ground slowed vegetable planting in eastern Texas. Cantaloupe planting was underway in the Trans-Pecos area. Spring lettuce and potatoes progressed well in Arizona. Lettuce, cauliflower, broccoli, asparagus, artichokes, and mixed vegetables were shipped. Asparagus, broccoli, artichokes, carrots, cauliflower, celery, and lettuce were harvested in California. Spring broccoli planting showed good growth in the San Joaquin Valley. Heavy rainfall damaged maturing lettuce in the Huron District. Spring lettuce and cauliflower harvests should begin soon.

PASTURES AND LIVESTOCK: Pastures were mostly good. Pastures were greening and furnishing adequate grazing in the central Plains. Livestock was mostly good. The warm weather was ideal for lambing, farrowing, and calving.

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 2.00 in. north, near coast; 0.33 to 1.00 in. elsewhere. Temperatures averaged 2 to 4° above normal north; near normal south.

Soil moisture adequate to surplus. Livestock good. Land preparation, planting corn when weather permits.

ARIZONA: Mostly sunny skies, warming trend through 5th. Afternoon temperatures upper 50s high country, 60s at 5,000 ft., 80s lower deserts. Cloudiness increased 6th. Weak disturbance crossed State 7th. Main activity morning thunderstorms from west of Phoenix to Prescott, Flagstaff; 1 in. snow pellets Flagstaff. Moisture varied from traces to 0.02 in.; no rain or just sprinkles extreme south, extreme west. Maximum temperatures 7th 4 to 10° lower than 5th. Averages for week 2° below normal to 8° above.

Wheat, barley jointing 45%, 55% 1986, 50% avg. Acreage heading, west. Irrigation, fertilization continued. Cotton planting underway, west. Land preparation very active, included listing, bed shaping, pre-irrigation, herbicide and nematicide application. Alfalfa hay cutting moved ahead, west. Curing conditions much improved. Crop mostly good to excellent. Insecticide, herbicide controls applied. Green-chopping, sheeping off continued. Corn cropland preparation advanced; planting moved ahead, west. Lettuce, cauliflower, broccoli, asparagus, artichokes, mixed vegetables shipped. Spring vegetable, melon planting advanced. Spring lettuce, potatoes progressing well, good condition. Valencia oranges, lemons, grapefruit picked; harvest of other oranges, tangerines virtually completed.

ARKANSAS: Warm dry week. Temperatures above normal. Only rainfall isolated light showers across south. Temperature extremes 24°; 78°. Rainfall none to 0.79 in.

Soil moisture adequate. Very little land preparation activity. Fertilizer applications on pastures continued. Pastures, livestock good and improving. Pastures making good progress with moisture, warm weather. Wheat, oats making good growth. Fruit making good progress.

CALIFORNIA: Week began with well developed trough. Strong, southerly flow developed. Above average temperatures to nearly all State. First rain northern end of State 3rd. Front moved on shore 5th, 6th, rain over entire State.

Additional rain benefited small grain development. Conditions excellent most areas. Weed control active. Ground preparation continued for spring planting, weather permitting. Pre-irrigation of cotton, corn land continued. Few San Joaquin Valley alfalfa fields green-chopped. Safflower being planted. Sugarbeets good. Stonefruit bloomed. Pollination continued. Male kiwi buds swelled. Early almond petal fall, leaf out observed. Avocado, citrus harvests continued. Valencia orange harvest began. Artichokes moderate, variable quality, Salinas. Asparagus harvest continued improve volume, good quality, desert. Light harvesting, Los Angeles-Orange County; packing increased Westside. Broccoli fairly heavy Salinas; moderate Santa Maria; good quality. Harvest San Joaquin Valley, active; spring plantings showed good growth. Season virtually over; Imperial, Coachella Valley; harvest almost finished, Palo Verde Valley. Carrot packing

steady, good quality, desert. Digging active, Westside. Cauliflower moderate, Salinas; fairly light, Santa Maria; good quality. Harvest light, Imperial Valley, variable quality; very light, next 2 weeks. Harvesting spring crop Westside begin soon. Celery harvest active Oxnard, Los Angeles-Orange County, Chula Vista. Lettuce packing; Palo Verde Valley, Blythe, increased volume, good quality; supplies continued decrease Imperial Valley, variable quality. Light harvesting, south coast. Heavy rainfall Huron District, damaged maturing plants. Spring harvest Westside, begin end of March. Spring onion fields Westside, progressing well. Fall potato packing, Tulalake-Butte Valley continued. Heavy winds eroded potato beds, Modoc County. Growers re-doing beds. Winter potato digging active; Kern, Riverside, good market conditions. Acreage spring harvest, planted quickly. Planting tomatoes processing, fresh market continued statewide. Few hundred acres Kerman District replanted due to recent freeze. Range, pastures continued improvement with rains received most districts. Range feed water supplies remained short. Supplemental feeding continued heavy most areas. Calving, lambing tapering off northern districts.

COLORADO: Temperatures 3 to 6° above normal. Precipitation very light. Amounts mostly traces to 0.10 in. Up to 10 in. snow few locations.

Livestock, winter wheat good. Limited amount of fieldwork, planting of small grains but progress slowed by wet field conditions. Calving, lambing underway.

FLORIDA: Cool air morning of 3rd dropped temperatures temporarily into upper 30s northern areas. Cold front became stationary southern area evening of 3rd. Heavy rains up to 5.00 in. some east coastal areas. Rainfall 1.00 to 3.00 in. or more over Peninsula. Cloudiness, scattered light rain continued statewide through 8th.

Soil moisture adequate central, south; surplus north, Panhandle. Land preparation, planting delayed by wet fields. Tobacco beds fair to good; small grains making good progress. Sugarcane harvest active. Permanent pasture central, south greening up. Cattle, calves remained fair to good. Citrus groves very good, warm temperatures, adequate moisture, limited irrigation, bloom buds formed, new growth showed. Early orange harvest slowed. Grapefruit movement very active. Tangelo harvest almost complete. Temple harvest continued. Caretakers active hedging, fertilizing, cultivating. Weather generally mild over vegetable producing areas. Foliage burn, minor damage from strong, gusty winds. Planting progressed favorably except northern watermelon areas. Harvest active. Volume leaders: Tomatoes, cabbage, celery, potatoes, carrots, lettuce. Also available, good supplies: Squash, snap beans, radishes, sweet corn, cucumbers, escarole, eggplant, cauliflower. Strawberry harvest gaining.

GEORGIA: Temperatures averaged 2 to 4° above normal north, normal south. Highest temperatures upper 60s north to mid 70s south. Coldest temperatures 20s mountains, 30s elsewhere. State received 0.50 to 1.50 in. rain over weekend.

Soil moisture adequate north, surplus elsewhere. Main activities land preparation as conditions allowed, tobacco bed preparation, small grain topdressing, corn planting. Small grains poor to

good; pastures poor to good, mostly fair; cattle poor to good. Tobacco plants poor to fair, hogs good.

HAWAII: Wet, windy conditions during first half of week slowed farm activity, caused some minor crop losses. Skies cleared by midweek. Overall, crops made fair to good progress. Temperatures averaged degree or 2 above normal most of week. Variable winds north, northeasterly 15 to 30 mph. Temperatures ranged mid 60s to low 80s. Rainfall ranged none to 9.10 in.

Days suitable for fieldwork 7.0. Banana production to remain steady. Papaya production on seasonal decline. Production heavy for Chinese cabbage, light to moderate for other vegetables.

IDAHO: Temperatures 5 to 12° above normal statewide. Cloudy skies. Precipitation sparse southeast, northern Panhandle drenched above normal.

Minimal farm activity consists of feeding livestock, cattle marketing, preparing machinery, some disking. Livestock good, calving, lambing underway. Hay, roughage supplies adequate to surplus.

ILLINOIS: Temperatures averaged 8 to 15° above normal north, 6 to 12° above normal south.

Winter wheat fair to good. Livestock mostly good.

INDIANA: Warm, dry week. Temperature lows upper 20s to upper 30s, highs upper 50s to low 60s. Precipitation under 0.25 in. except up to 0.50 in. northeast. No frost layers remained.

Soils drying. Field activities: Plowing, spreading fertilizer and manure, topdressing wheat, seeding clover, grass seed, soil testing, clearing fence rows. Other activities: Preparing machinery, hauling grain, attending meetings, caring for livestock, usual chores.

IOWA: Warm, dry week. Temperatures averaged 12° east to 18° above normal west. Precipitation little or none except in eastern counties 0.10 to 0.20 in. rain or snow early week. Snow cover over north, central, south central start of week, soon melted. Temperatures rose to record daily levels over most of State 7th with readings in 70s. Temperatures ranged from 11° Spencer 2nd, 76° Sioux City 7th.

Farm activity consists of shop work, taxes, livestock management. Some farmers taking advantage of mild, dry weather for early spring tillage, fertilizer application. Corn piled on ground 36% none, 54% limited quantities, 8% moderate, 2% extensive. Cattle losses 77% below average, 22% normal, 1% above. Hog losses 68% below average, 31% average, 1% above average.

KANSAS: Precipitation none west to over 1.50 in. east. Temperatures averaged 51 to 54°, 16 to 18° above normal.

Days suitable for fieldwork 2.5. Soil moisture 6% short, 67% adequate, 27% surplus. Wheat 2% very poor, 11% fair, 45% good, 42% excellent. Wheat generally good growth, breaking dormancy. Insect, disease problems light to moderate. Oats, barley 25% planted. Range, pasture good; furnishing adequate grazing. Livestock moving from wheat pasture to feedlots, no problems lambing and calving.

KENTUCKY: Unseasonably warm with little or no measurable precipitation. Daytime highs mostly in 60s, nighttime lows in 30s. High temperatures averaged 5 to 15° above normal with lows as much as 5° above normal.

Some field activity such as disking, plowing, grass seeding, etc. Tobacco bed preparation continued. Wheat greening.

LOUISIANA: Temperature normal to 2° below normal. Temperature extremes 33°; 76°. Rainfall averaged 0.10 to 1.30 in.

Days suitable for fieldwork 1.8. Soil moisture 33% adequate, 67% surplus. Spring plowing 4% complete, 34% 1986, 18% avg. Corn planting started, 17% 1986, 7% avg. Main activities: Topdressing pastures and wheat, water leveling rice fields, caring for livestock.

MARYLAND & DELAWARE: Maryland: Average temperature 42°, normal 39°; lowest temperature 11°, highest temperature 74°. Precipitation averaged 0.85 in.

Main farm activity caring for livestock.

Delaware: Average temperature 41°, normal 40°. Precipitation averaged 0.56 in.

Main farm activity caring for livestock.

MICHIGAN: Temperatures ranged 8 to 14° above normal. Temperature extremes -1°; 72°. Precipitation ranged from 0.24 to 0.88 in. across State.

Snow cover continued northern upper Peninsula. Snow cover gone lower Peninsula, southern upper Peninsula. Winter wheat susceptible to cold temperatures. Activities: Spreading manure, cutting wood, pruning fruit trees, general farm maintenance and equipment repair, marketing grain, potatoes, livestock. Livestock remained good. Lambing, calving, farrowing continued. Feed supplies remained adequate.

MINNESOTA: Temperatures averaged 10 to 19° above normal for State. Temperature extremes -8°; 80°. Precipitation averaged 0.09 to 0.33 in. below normal, snowfall averaged trace or less for State. Snow depth weekend averaged 1 to 3 in. northern third; trace or less elsewhere.

Temperatures continued higher toward weekend, breaking records. Few farmers south plowed. Livestock good to excellent.

MISSISSIPPI: Temperatures near normal; extremes 26°; 75°. Dry week until low pressure system brought rain on 7th. Rainfall for week averaged 0.10 in. northeast 1.50 in. coastal. Greatest weekly amount 1.88 in.

Days suitable for fieldwork 2.0, 6.4 1986, 2.9 avg. Soil moisture surplus. Corn 1% planted, 5% 1986. Wheat 12% jointing, 22% 1986; fair to good.

MISSOURI: Temperatures 12° above normal except southeast 5° above normal. Rain week ago caused some flooding southwest, central areas.

Farmers active with fieldwork. Good progress with tillage, oat seeding, fertilizing.

MONTANA: High temperature records broken across State. Ten degrees above normal west, 23° above normal north central and northeast. Mountain precipitation up to 0.80 in., rest of State dry.

Topsoil moisture 41% short, 55% adequate, 4% surplus. Subsoil moisture 13% short, 83% adequate, 4% surplus. Winter wheat 6% poor, 74% fair, 20% good; still dormant 24%, greening 76%. Field tillage 30% just started, 3% well underway. Calving 33% complete. Lambing 25%. Grazing 93% open, 7% difficult.

NEBRASKA: Week warm, dry but temperatures fell as much as 40° last day. Averages ranged from 5° above normal Panhandle to 21° above normal east. Light snow covered Panhandle during week. Temperature extremes 12°; 80°.

Snow cover west beneficial to winter wheat, aiding topsoil moisture as well as protection from wind, falling temperatures. Calving progressing well. Feed supplies adequate to surplus.

NEVADA: Week began mild with increasing high clouds, winds. Winds blew much harder midweek bringing expected precipitation west spreading east, south. Due to warm system, snow level only at higher elevations. Temperatures continued above normal remainder of period except south central cooled by showers, clouds.

Scattered showers, high winds delayed fieldwork most areas. Mild temperatures easy on newborn calves, lambs.

NEW ENGLAND: Precipitation averaged 0.50 to 0.75 in. western Vermont, northern Maine, 0.75 to 1.00 in. Maine, New Hampshire, remainder Vermont, remainder Maine, 1.00 to 1.25 in. central and western Massachusetts, northwestern Connecticut, Rhode Island, 1.25 to 1.50 in. eastern Massachusetts, central and coastal Connecticut. Temperatures averaged 2 to 4° above normal south, normal north.

Major farm activities: Tending livestock, moving crops from storage, machinery repair.

NEW JERSEY: Temperatures above normal; averaged 39° north, 42° south, 44° coastal. Extremes 12°; 78°. Precipitation below normal; averaged 0.03 in. north, 0.06 in. south, 0.03 in. coastal. Heaviest 24-hour total 0.13 in. on 3rd, 4th. Heaviest 24-hour snowfall 1 in. on 3rd, 4th. No snow on ground.

Near record warmth weekend, temperatures helped dry excess soil moisture. Farmers caring for livestock, tending to winter chores.

NEW MEXICO: Daytime temperatures ranged from low 60s north to mid 70s south. Nighttime temperatures much warmer with plus 2° low reported for week. Weak weather disturbance brought rain, snow to northern areas. Precipitation none most localities to 0.34 in. northwestern corner.

Days suitable for fieldwork 6.0 most areas. Soil moisture 8% short, 54% adequate, 38% surplus. Alfalfa 25% poor, 62% good, 13% excellent; greening and showing growth south, dormant north. Barley 10% fair, 80% good, 10% excellent. Irrigated wheat 10% fair, 80% good, 10% excellent. Dryland wheat 25% fair, 65% good, 10% excellent; many fields greening and showing growth, some Russian wheat aphids reported but infestations light at present. Cattle 17% fair, 83% good. Sheep 20% fair, 80% good. Ranges 8% poor, 33% fair, 5% good, 8% excellent.

NEW YORK: Week began wet, cool but temperatures moderated and weather dried as week progressed. Average readings near or bit above normal. Precipitation slightly higher than normal. Precipitation ranged from 0.25 to 0.75 in. most places. New York City reported 1.70 in.

Producers busy doing daily milking, routine farm chores.

NORTH CAROLINA: Temperatures 1 to 2° above normal across State. Temperature extremes 22°; 74°. Precipitation ranged from none to 3.22 in. across State.

Days suitable for fieldwork 2.6. Soil moisture 42% adequate, 58% surplus. Small grains mostly fair to good. Pasture 8% very poor, 18% poor, 56% fair, 18% good. Tobacco plantbeds 55% fair, 45% good. Hay, roughage supplies 34% short, 63% adequate, 3% surplus. Feed grain supplies 24% short, 70% adequate, 6% surplus. Major farm activities: Seeding, preparing tobacco plantbeds; topdressing small grains, pastures; tending livestock; maintaining equipment; preparing land; planting spring Irish potatoes, cabbage; pruning fruit trees; transplanting Christmas trees; cutting firewood; spreading lime; general farm maintenance.

NORTH DAKOTA: Spring made brief visit. Many high temperature records set. Extremes low -13° central 1st, high 73° southwest 5th. Precipitation less than 0.05 in. southwest to 0.20 in. northeast.

Record-breaking temperatures found calving, lambing full swing. Temperatures returned to near normal weekend. Feed supplies adequate.

OHIO: Warm, dry. Temperatures 3 to 12° above normal. Average maximums low to upper 50s. Average minimums upper 20s to mid 30s. Precipitation mostly less than 0.10 in.

Soil surface dry. No frost in soil. Soil temperatures mid 40s to low 50s after unseasonably warm weekend on 7th, 8th. Tillage operations begun. Some peas planted for fresh market.

OKLAHOMA: Temperatures averaged 7° above normal south central to 11° above normal Panhandle, northeast. Only Panhandle reported rainfall with 0.03 in.

Days suitable for fieldwork 1.7. Topsoil moisture 30% adequate, 70% surplus. Subsoil moisture 100% adequate. Wheat 25% fair, 75% good; 5% jointing, 10% 1986, 5% avg. Warm weather, adequate moisture accelerated growth. Drier conditions needed for fertilizer applications, weed control. No appreciable insect activity. Cotton 97% harvested, 100% 1986, 100% avg. Wet cotton, soybean, sorghum fields remained unharvested. Pastures 1% poor, 40% fair, 59% good. Forage supplies adequate. Cattle 10% fair, 88% good, 2% excellent. Spring calving continued with no major problems.

OREGON: Temperatures well above normal across State. Range from 3 to 7° above normal west, mostly 8 to 9° above normal but up to 14° above normal east. Rainfall up to 8.50 in. north coast range, 2.50 to 4.00 in. along coast, 1.00 to 2.00 in. Willamette Valley, less than 0.50 in. other western locations. East of Cascades up to 1.50 in. precipitation central areas, 0.40 to 0.80 in. northeast, 0.25 in. or less other areas of east.

Soil moisture adequate to surplus west, short to adequate east. Fall grain crops growing most areas. Nitrogen fertilizer going on western grain, grass seed fields, also some weed control. Caneberry training, fertilizer spraying continued. Fruit trees good, following mild winter. Livestock, range, pasture mostly good. Supplemental feed requirements low due to mild weather.

PENNSYLVANIA: Little precipitation, warm temperatures at end of week. Average temperature 37°, 5° above normal. Temperature extremes 8°; 72°. Average precipitation 0.32 in., 0.40 in. below normal.

Activities: Grading potatoes; hauling manure; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 0.48 in., 0.06 in. below normal. Highest weekly total 2.74 in. Highest 24-hour total 1.35 in. Temperature averaged about 75° on coasts, 69 to 72° interior divisions. Mean station temperature ranged from 61 to 78°. Extremes 52°; 91°. San Juan mean temperature 77°, 0.40 in. above normal. Rainfall 0.30 in., 0.19 in. below normal.

SOUTH CAROLINA: Temperatures averaged 1 to 2° above normal. Clear weather allowed soils to dry out early week; cloudy, rainy conditions moved in over weekend, moderate amounts of rainfall.

Major farm activities: Final topdressing small grains, pastures; land preparation limited areas; tending livestock; general farm maintenance. Tobacco beds, small grains generally good.

SOUTH DAKOTA: Average temperatures 10 to 20° above normal; central temperatures ranged 3° below normal to 5° above. Extremes -6°; 83°. Precipitation light.

Winter grains good. Livestock good, grazing open fields, supplemental feeding where needed. Main agricultural activities; tending livestock, attending farm meetings, planning spring planting. Field preparation began.

TENNESSEE: Temperatures averaged near normal east, 10° above normal west. Averaged 55° Memphis, 46° Bristol. Extremes 27°, 75°. Precipitation ranged from trace to 0.50 in. south, east; none remainder State.

Farm chores, topdressing wheat, limited cropland tillage main activities.

TEXAS: High pressure over central Nation left State very warm, dry throughout week. Few showers east. Strong cold front arrived Panhandle, drastically changing weather High Plains. Temperatures above normal, precipitation below normal. Only exception to above normal temperatures Coastal Bend, Rio Grande Valley cool nights kept temperatures below normal.

Crops: Cotton harvest nearly completed Low Plains. Cotton 99% harvested, 100% 1985, 100% avg.; 1% planted, 1% 1986. Small grains received warmer, sunny weather needed after several weeks wet conditions. Growth greatly improved major producing areas. Some producers sprayed for weeds. Rust problems prominent Blacklands. Many fields jointing. Forage growth oat fields good. Growth wheat, oats excellent central areas, minor rust problems. Some herbicides applied. Many cattle moved off grain crop fields. Corn, grain sorghum planting resumed south, Coastal Bend, Rio Grande Valley as soil conditions dried. Early planted fields emerging. Planting underway some areas Blacklands, central. Most other areas received open weather allowed producers to continue land preparation. Corn 5% planted, 37% 1986, 15% avg. Sorghum 4% planted, 22% 1986, 9% avg.

Commercial Vegetables: Rio Grande Valley cabbage, carrot harvest increased. Harvest onions begin next week. Melon planting increased, some fields already emerged. Harvest valencia oranges slow because light demand. Grapefruit harvest continued. San Antonio-Winter Garden cabbage, carrot harvest continued. Watermelon planting increased. Trans-Pecos cantaloup planting underway. Thrips control onions occurred. East planting slowed by wet ground from rain previous week. Peaches continued bloom. Some spraying occurred. Lack of chilling hours concern for fruit set.

Range and Pasture: Range conditions improved last week with good weather. Growth, greening increased. Good forage availability; livestock remained good. Feeding decreased slightly.

Movement off small grain pastures continued. Lambing continued many areas with good crop. Livestock markets, prices steady.

UTAH: Precipitation light Uinta Basin, southeast, none elsewhere. Temperature 3 to 7° above normal north, 1° below to normal south. Snow cover none to light.

Livestock feed adequate to surplus. Livestock generally good to excellent. Primary tillage, seeding crop acres, chemical weed control south. Major farm activities: Livestock care, hauling manure, fertilizer application, machinery repair, farm records, marketing.

VIRGINIA: Wetter, warmer than normal. Lows 20s and 30s, highs 70s. Temperatures averaged 3 to 4° above normal. Precipitation averaged 1.00 in. or more all areas.

Days suitable for fieldwork 2.0. Topsoil moisture 58% adequate, 42% surplus. Overseeded pastures. Topdressed small grains. Pastures, alfalfa, small grains good to excellent. Flue-cured tobacco planted seeding over one third complete. Burley tobacco seeding began. Plantbeds good to excellent. Pruned fruit trees, bushes. Livestock care, supplemental feeding major activities. Some plowing, many meetings. Farmers secured seed, equipment needs.

WASHINGTON: Heavy rains west, scattered showers east. Precipitation ranged from 0.02 to 7.80 in. Temperatures ranged from 4 to 11° above average. Temperature extremes 18°; 73°.

High rainfall west caused extreme wet field conditions, some flooding. Mild temperatures east allowed some early field activity. Fertilizers, herbicides being applied. Orchardists busy pruning, some dormant spraying being done. Winter wheat greening up, looks good. Hay, roughage feed for livestock good supply. Lambing season winding down.

WEST VIRGINIA: Average temperature 42°, 3 to 6° above normal. Extremes 13° Terra Alta; 78° Creston. Precipitation averaged 0.06 in.; 0.65 to 0.89 in. below normal.

Soil moisture 8% short, 84% adequate, 8% surplus. Feed supplies 14% very short, 18% short, 68% adequate.

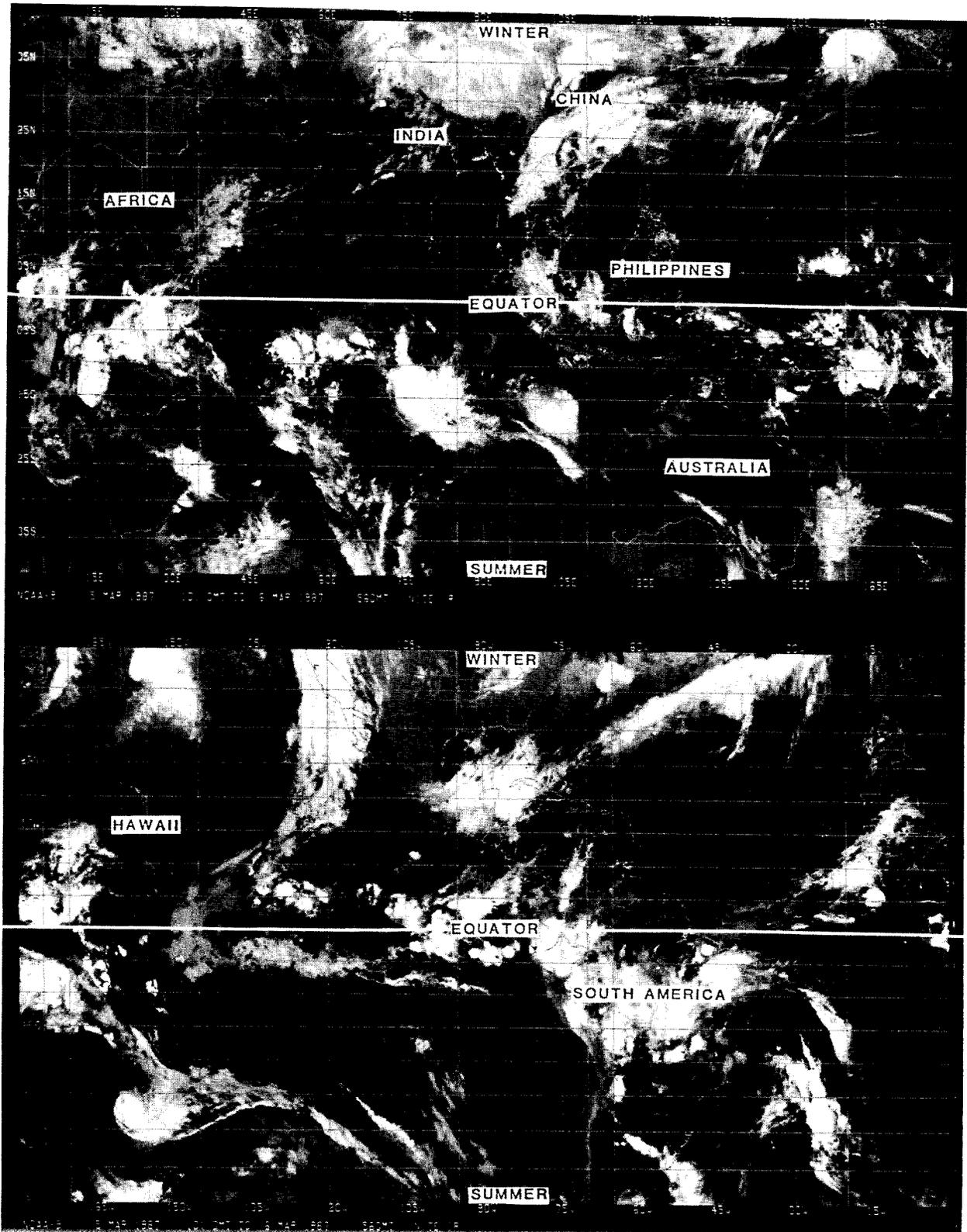
WISCONSIN: Temperatures above normal, averaged 38°; low 7°; high 75°. Record highs 7th, 8th. Precipitation none.

Soils good spring condition.

WYOMING: Temperatures well above normal. Very dry with no measurable precipitation. Winter wheat fair to good. Livestock mostly good. Lambing, calving, shearing continued. Supplemental feeding continued.

Global Weather Satellite Image

MARCH 5, 1987



International Weather and Crop Summary

March 1-7, 1987

HIGHLIGHTS:

UNITED STATES ... Warm temperatures and moisture accelerates small grain growth but leaves most fields unprotected from possible below-freezing temperatures in the northern major producing areas. Corn planting spreads across the Southeast and spring plowing moves as far north as Minnesota and Montana.

WESTERN U.S.S.R. ... Moderating temperatures and heavy snow in the south follow an early-week cold wave over the region.

EUROPE ... Unseasonable cold spreads west and south, dropping temperatures to below normal.

SOUTH ASIA ... Showers benefit immature wheat in northern Pakistan, but dry weather covers most of India.

EASTERN ASIA ... Significant rain benefits winter wheat in southern areas of the North China Plain. Insufficient showers cover early-rice areas.

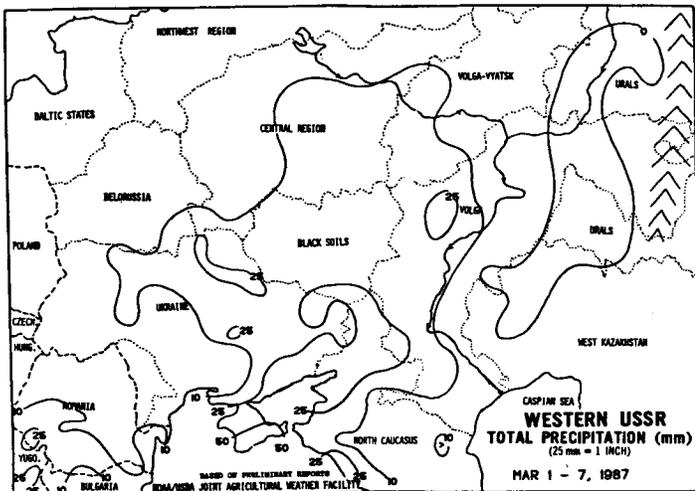
SOUTHEAST ASIA ... Widespread tropical showers cover much of the region, with unseasonable to above-average rainfall.

SOUTH AMERICA ... Rain continues to delay early crop harvests in Argentina. Favorable soybean weather continues in south-central Brazil.

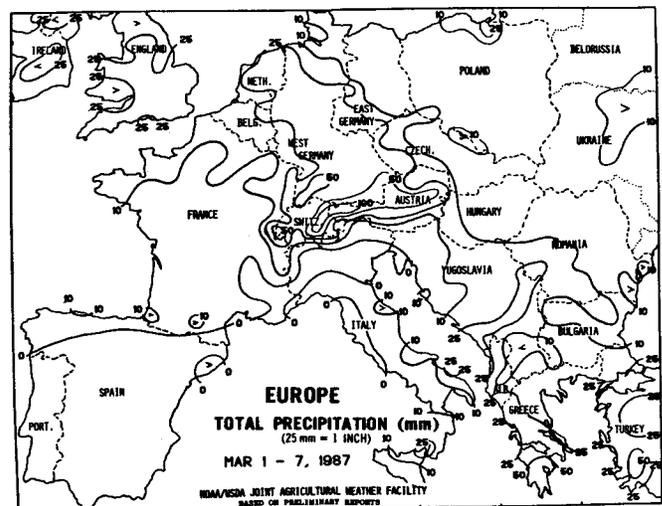
AUSTRALIA ... Substantial rain benefits immature summer crops in eastern Australia.

SOUTH AFRICA ... Beneficial showers and mild weather favors corn in the northeast Maize Triangle, but only light rain and hot weather continues in the far west and south.

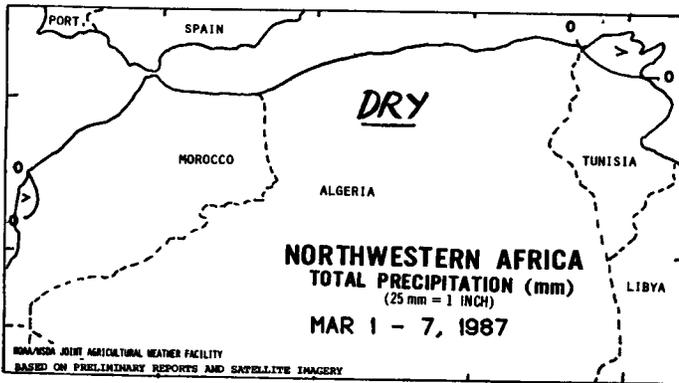
NORTHWESTERN AFRICA ... Dry weather stresses Moroccan winter grains in the jointing stage.



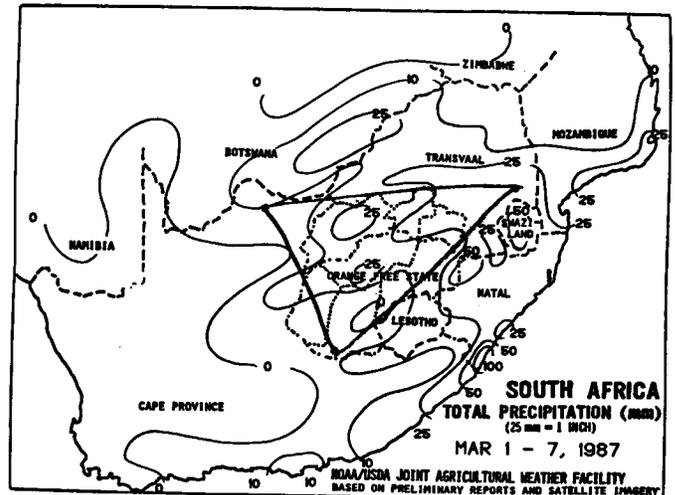
WESTERN U.S.S.R. ... A cold wave covered most winter grain areas, except the North Caucasus, where a gradual warming trend occurred. Coldest weather (minimum temperatures ranging from -25 to -30 degrees C) covered winter grains in the Baltic States, Belorussia, the Central Region, the extreme northern Ukraine, and the western Black Soils Region. Minimum temperatures over much of the Ukraine ranged from -15 to -20 degrees C. A deep snow cover provided some protection in most areas, except in the extreme west and south where snow cover was limited. By week's end, temperatures moderated over the region. In addition, heavy snow covered winter grains in the eastern half of the Ukraine and the western North Caucasus.



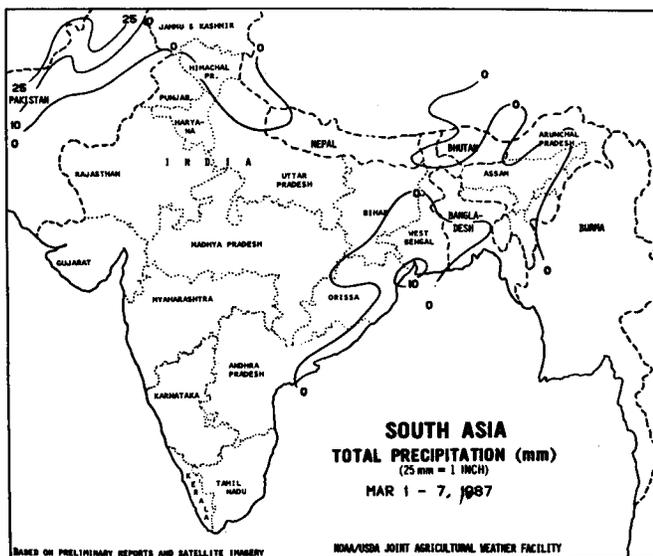
EUROPE ... Bitter cold spread westward, dropping temperatures to well below normal. Midweek minimum temperatures in Poland, East Germany, Czechoslovakia, and Hungary ranged from -15 to -20 degrees C. An adequate snow cover in East Germany provided some protection from extreme cold. Snow cover was limited in Poland, eastern Czechoslovakia, and Hungary. The cold air pushed southward, dropping minimum temperatures to -1 to -5 degrees C in Mediterranean areas of Greece and Italy. In addition, rain changed to wet snow in eastern Greece. Further west, a steady decline in temperatures accompanied light showers over winter grains in England and France. Europe's cold wave did not reach as far west as Spain, where the weather was mostly dry.



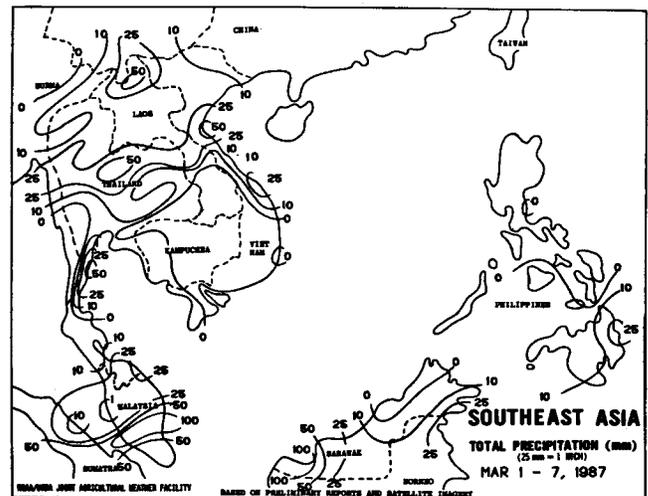
NORTHWESTERN AFRICA ... Dry weather covered winter grains in Morocco, Algeria, and Tunisia. Soil moisture in Algeria and Tunisia was likely adequate to meet the moisture demands of the crop, currently in the jointing stage. However, soil moisture was limited in Morocco, especially in southern areas, increasing the likelihood for crop stress. Winter grains over the region usually advance through the highly moisture sensitive reproductive phase in late March and early April, and timely rains will be needed in Morocco to boost yield prospects.



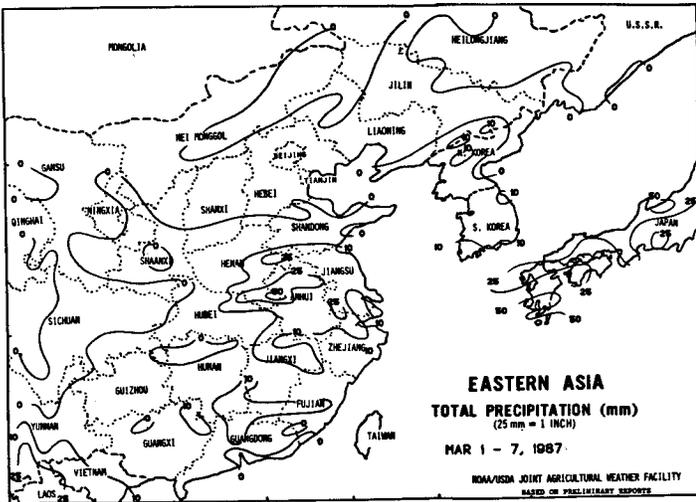
SOUTH AFRICA ... Showers occurred throughout the Maize Triangle, but the heaviest rainfall (25 to over 50mm) concentrated over eastern Orange Free State, southern Transvaal, and Natal. The moisture benefited grain-filling corn. Rainfall generally averaged 10 to 25mm in north-central portions of the Orange Free State, with less than 10mm in the far west and south. Hot weather returned to the western Maize Triangle as maximum temperatures reached 35 degrees C. Moisture remained limited for grain filling in the west. Shower activity also diminished in northern Transvaal, where amounts averaged less than 10mm for the week.



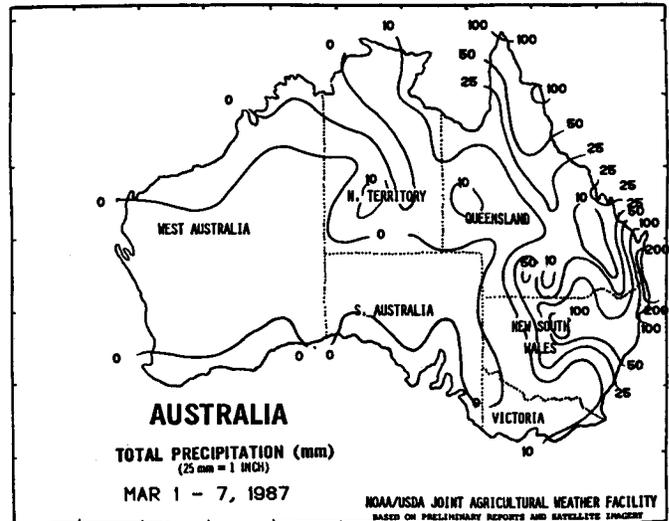
SOUTH ASIA ... Showers continued over northern Pakistan's winter wheat areas, producing 10 to 40mm of weekly rainfall. Dry weather covered nearly all of India's grain areas. Winter wheat, most of which is irrigated, is grain-filling to maturing throughout South Asia. The heavily irrigated summer rice in southeast India continued to progress normally through the vegetative stage of development. Light showers (1 to 13mm) occurred along India's east coast extending into Bangladesh.



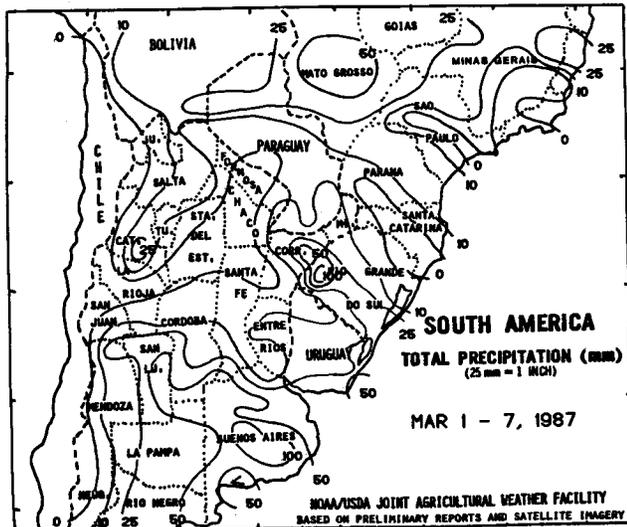
SOUTHEAST ASIA ... Widespread showers produced unseasonable high rainfall amounts (10 to 65mm) over much of Thailand, northern Laos, and northern Vietnam. Dry weather prevailed over Kampuchea, southern Laos, and southern Vietnam. Dry weather also prevailed over most of the Philippines, except for mostly light showers over eastern Mindanao. Locally heavy rain (50 to 170mm) covered central portions of peninsular Malaysia, while widespread tropical showers produced highly variable rainfall over the remainder of Malaysia and Indonesia.



EASTERN ASIA ... Significant precipitation (around 25mm) in eastern Henan, Anhui, and Jiangsu covered winter grains in the early vegetative stage. Mostly dry weather continued to cover dormant winter grains in Shanxi, Hebei, and Shandong. Insufficient showers (around 10mm) occurred over early-rice areas in southern China, and most areas had to rely on irrigation for planting. Elsewhere, light showers covered dormant winter grains in Korea, while wet weather (25 to 50mm) occurred throughout agricultural areas in Japan.



AUSTRALIA ... Moderate to heavy showers (25 to over 50mm) covered summer crop areas of New South Wales, providing beneficial moisture for immature cotton and grains, mostly in the filling period. Mostly light showers (less than 5 to 20mm) occurred in southeastern Queensland, but inundative rain (100 to 200mm) spread along the coast near Brisbane. Weekly temperatures averaged near to slightly below normal, as cooler weather covered the area by midweek. Early-week high temperatures reached 35 to 37 degrees C. Significant showers (20 to over 100mm) brought beneficial moisture to sugarcane areas of east coastal Queensland. Tropical showers were confined mostly to northern Queensland, while the remainder of north-coastal Australia was mostly dry.



SOUTH AMERICA ... Showers and thunderstorms continued over Argentina's summer crop areas, producing 50 to 100mm over much of Buenos Aires, and 20 to 65mm over southern portions of Cordoba and Santa Fe. The rain kept fields too wet for summer crop harvesting in its early stages but provided additional moisture for development of immature soybeans. Drier weather was welcomed in extreme northern Argentina and southern Paraguay, where heavy rains persisted in late February. Weekly temperatures continued to average several degrees above normal throughout the region. In south-central Brazil, isolated heavy showers produced 40 to 100mm in southwestern Rio Grande do Sul and Mato Grosso do Sul. Rainfall generally averaged less than 25mm over most other soybean areas. Further north, heavier showers (25 to 40mm) covered southern Goias. Weather conditions remained favorable for soybeans, mostly setting to filling pods.

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U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor (Acting) Lyle Denny
Meteorologists Tom Heddinghaus,
Ray McInturff, Jim Williams, Wes Byrd, and
Randall Taylor

Subscriptions (202) 447-7917

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
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