

WEEKLY WEATHER AND CROP BULLETIN

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

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

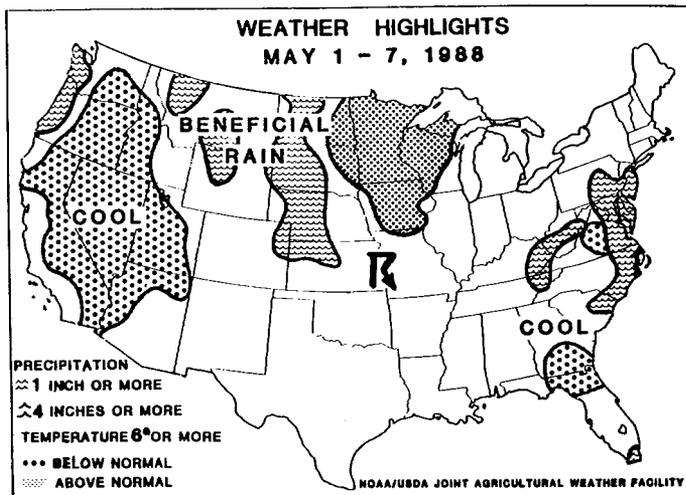
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May 10, 1988

National Weather Summary

May 1 - 7, 1988



HIGHLIGHTS: A major storm moved eastward out of the Rockies and onto the Great Plains Sunday and Monday, bringing wintry weather to Wyoming and Colorado and widespread beneficial rains to croplands in the northern and central Plains. As the storm progressed eastward during the remainder of the week, it produced soaking rains in much of the Mississippi Valley, the Ohio Valley, and the Middle Atlantic Region. On Thursday, a second major storm began to develop over the Great Basin, and this storm brought more rain to the northern Plains Friday and Saturday.

SUNDAY...A May Day storm dumped heavy snow over the northern and central Rockies. A line of thunderstorms produced locally heavy rain in northern and central Plains. High winds continued in the Southwest. Rain showers lingered along the northern Pacific coast and over Florida and New England. Fair weather dominated the remainder of the eastern half of the Nation.

MONDAY...The powerful, early-May storm moved across the Rockies, bringing blizzard conditions to Wyoming and Colorado and severe thunderstorms to the central and northern Plains. The thunderstorms spawned several tornadoes in Kansas. The severe weather reached the lower Mississippi Valley by late afternoon. Showers lingered over the Pacific Northwest and New England.

TUESDAY...The storm in the central Plains pushed eastward across the middle and lower Mississippi Valley and into the Ohio Valley. Rainy weather persisted in the Pacific Northwest.

WEDNESDAY...Beneficial rain spread through the Ohio and Tennessee Valleys to the mid-Atlantic coast as the storm system continued to track eastward. Showers were widely scattered throughout the Northwest.

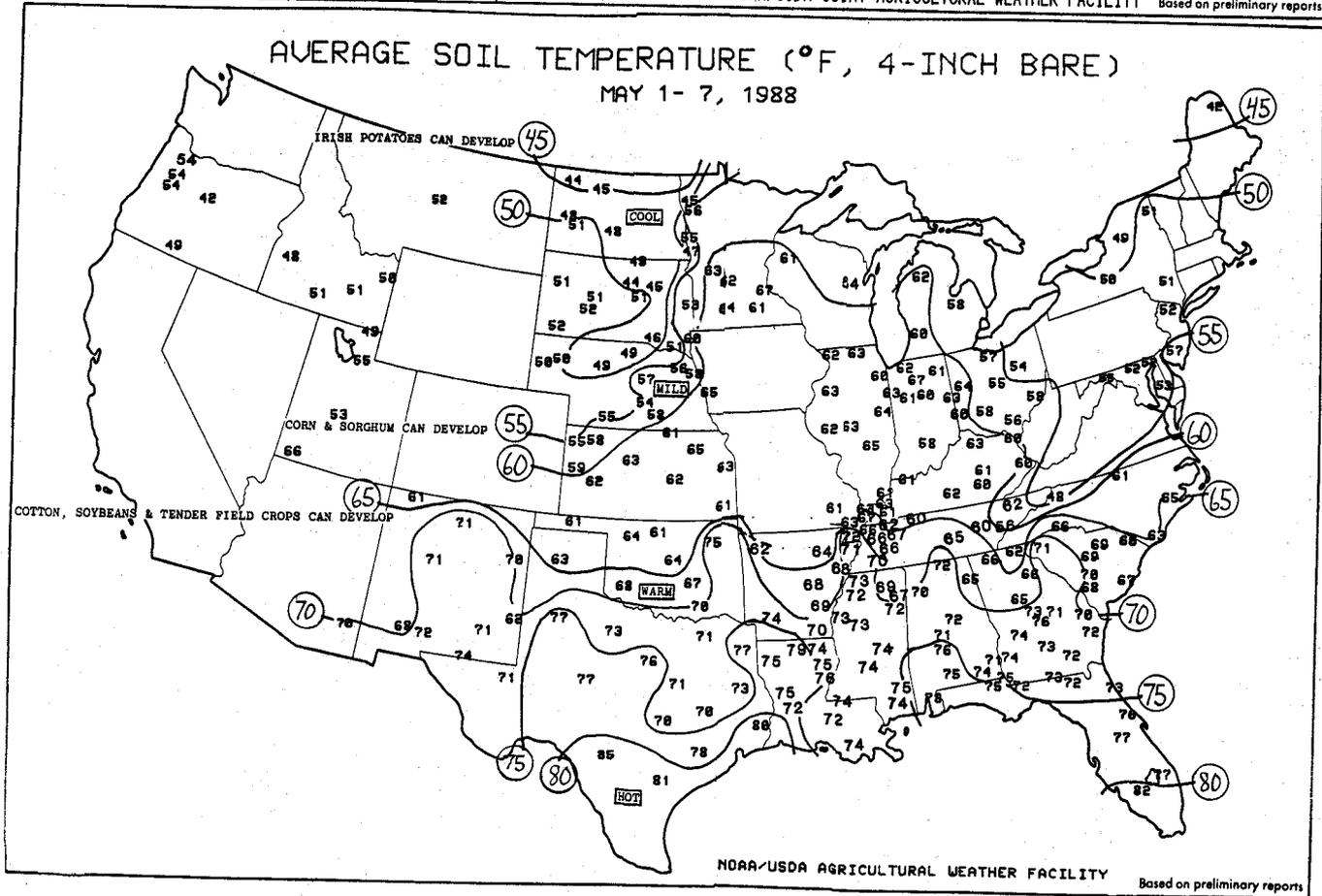
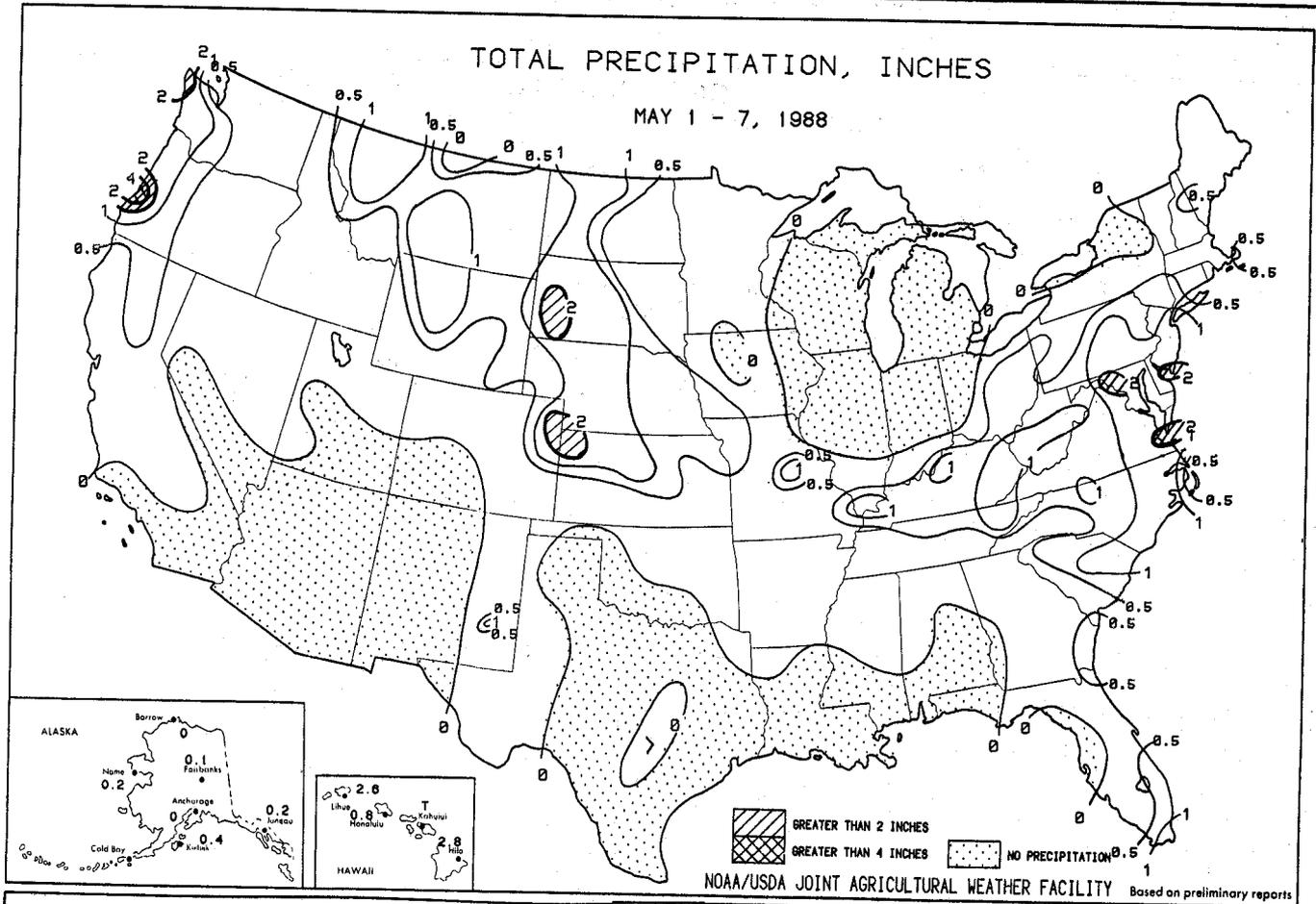
THURSDAY...Widespread beneficial rains fell throughout the Middle Atlantic States. Strong thunderstorms occurred over eastern North Carolina. Another storm system developed over the Great Basin and caused high winds in California and Arizona. Rain was scattered over the Western States. Much of the remainder of the Nation enjoyed pleasant spring weather.

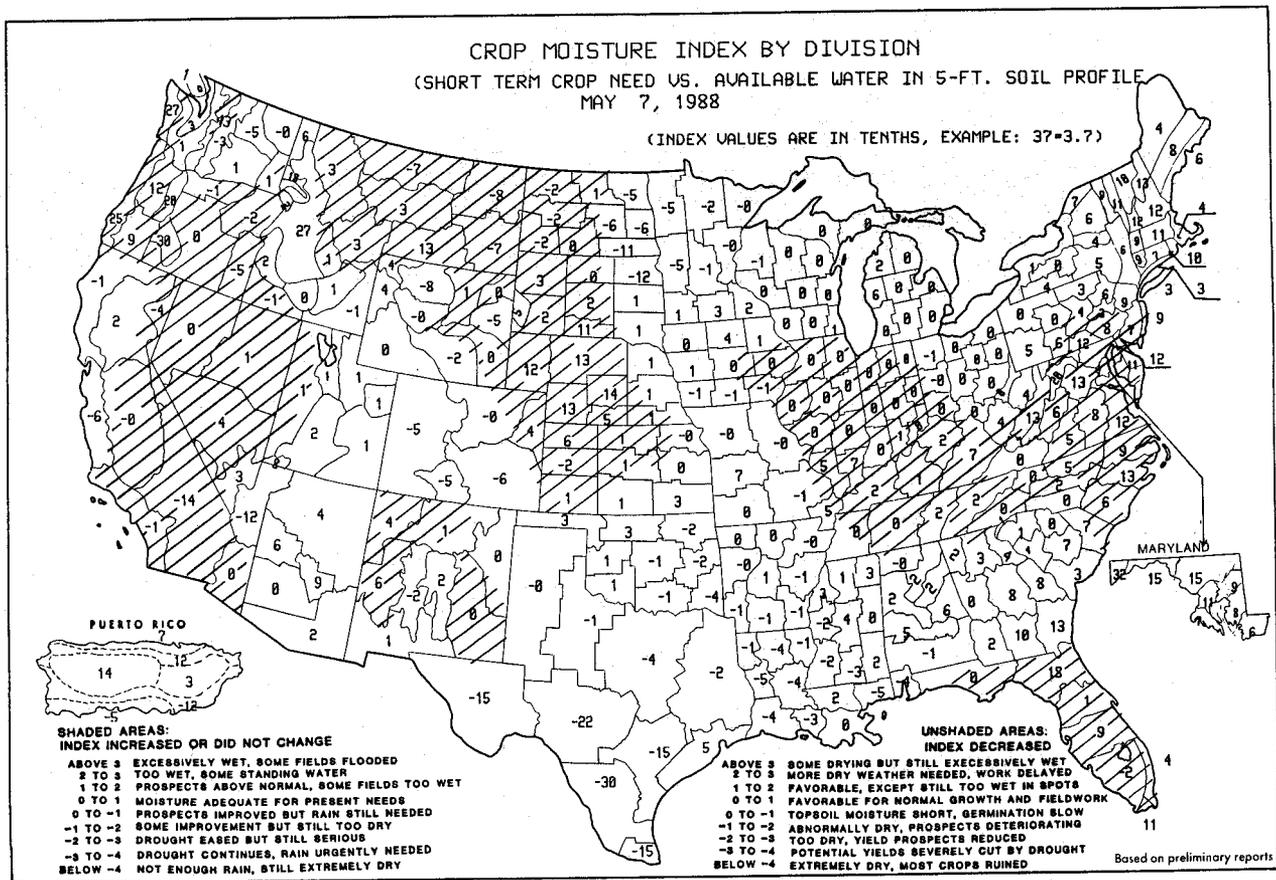
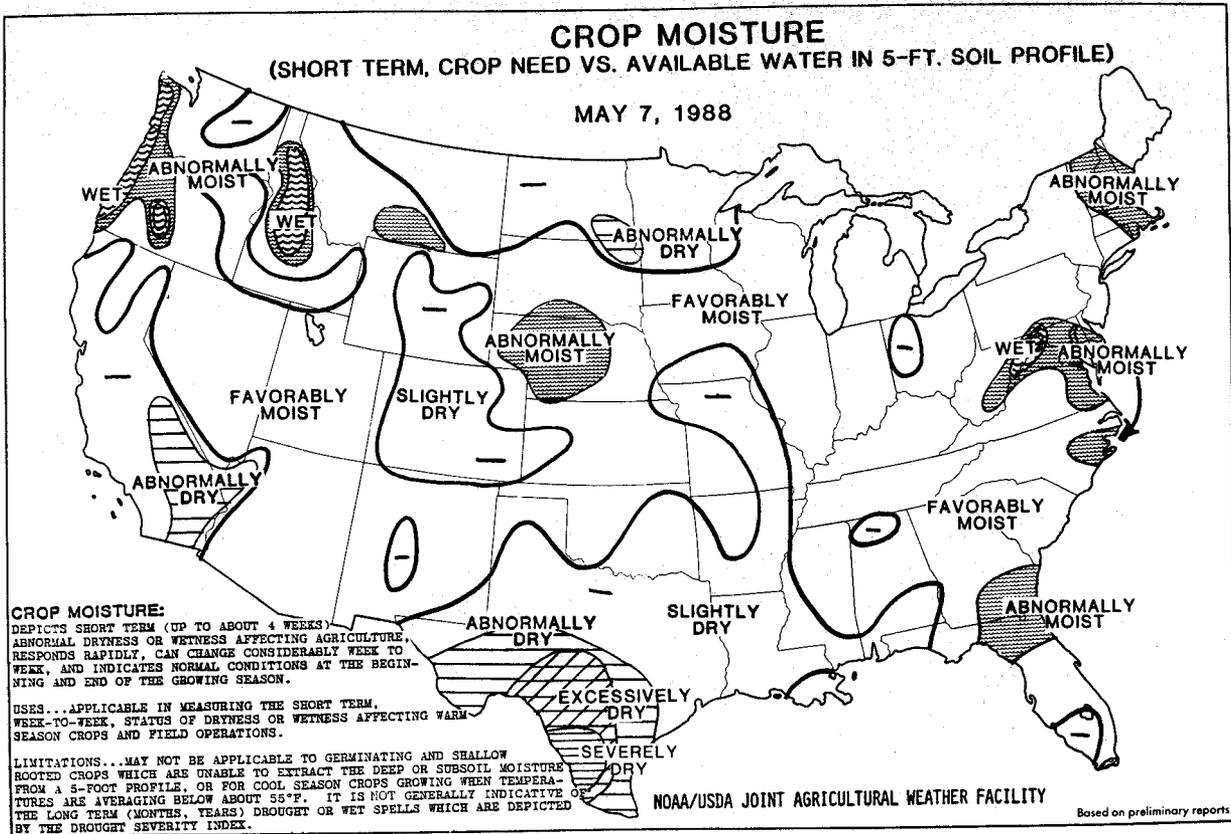
FRIDAY...Rains continued to soak the Northeast and the Middle Atlantic States. An intense storm started winding up in the Great Basin, causing showers and thunderstorms in the northern and central Plains. Rain was also widespread in the Pacific Northwest.

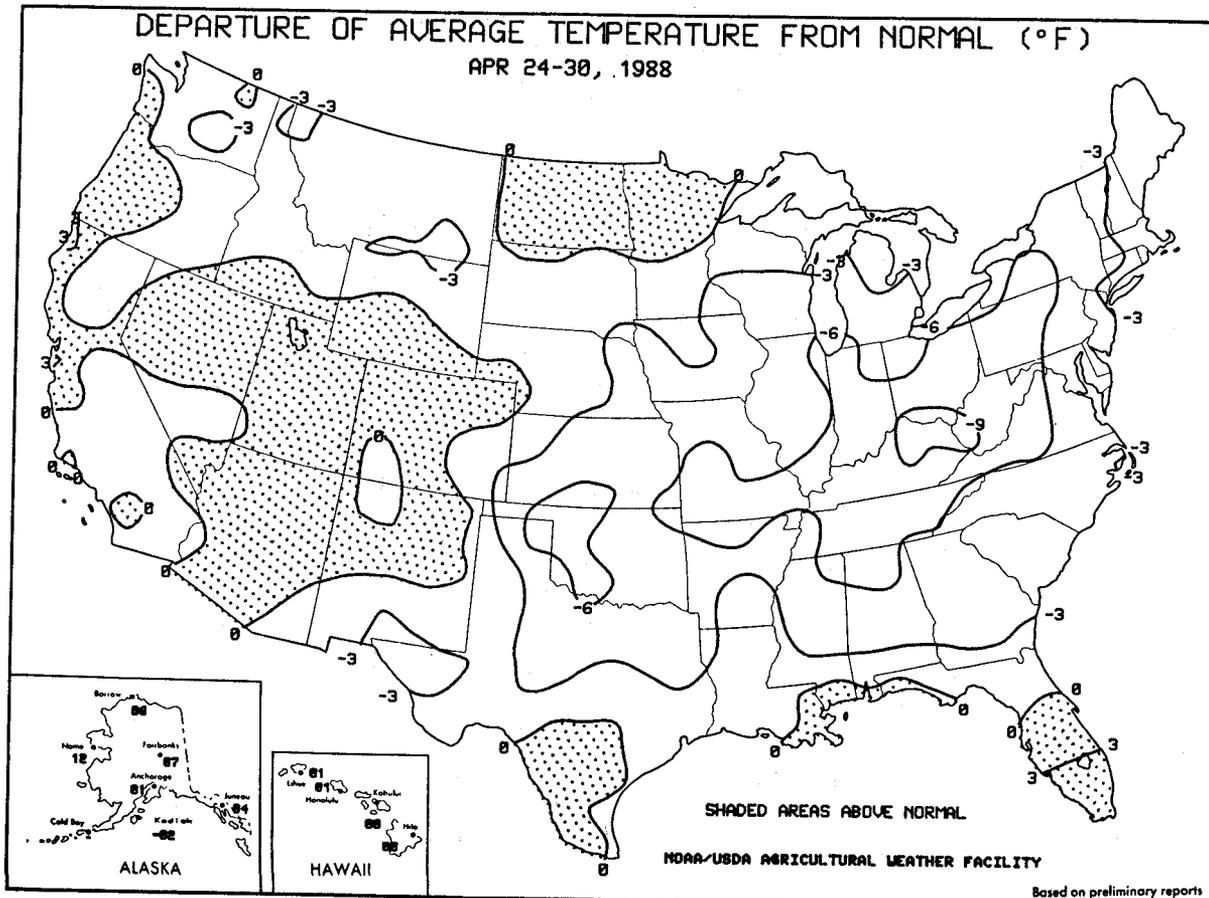
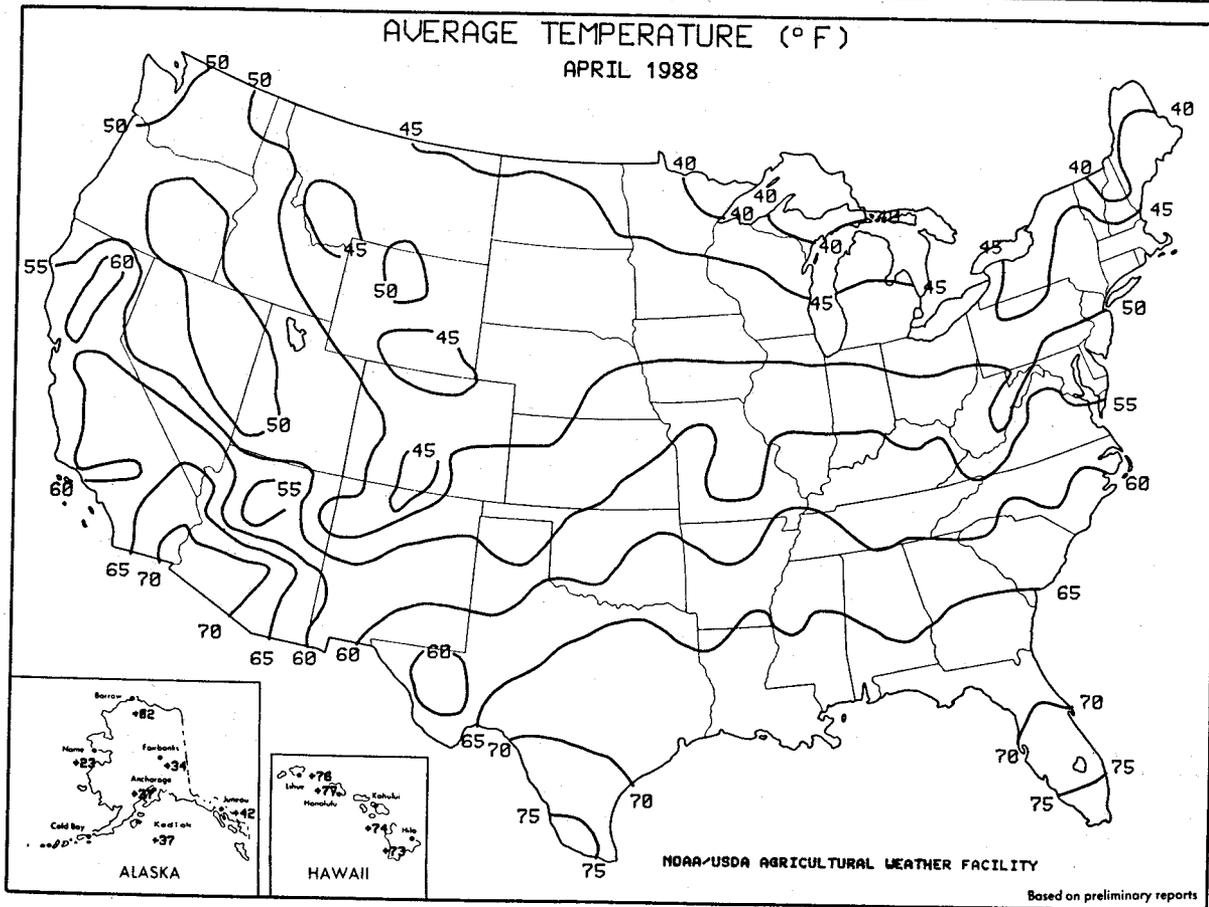
SATURDAY...Skies cleared along the Atlantic coast, as high pressure came to dominate the Nation's weather east of the Mississippi River. The storm in the West continued to intensify as it moved across Wyoming and Montana, producing widespread precipitation over the northern Rockies and the northern Plains.

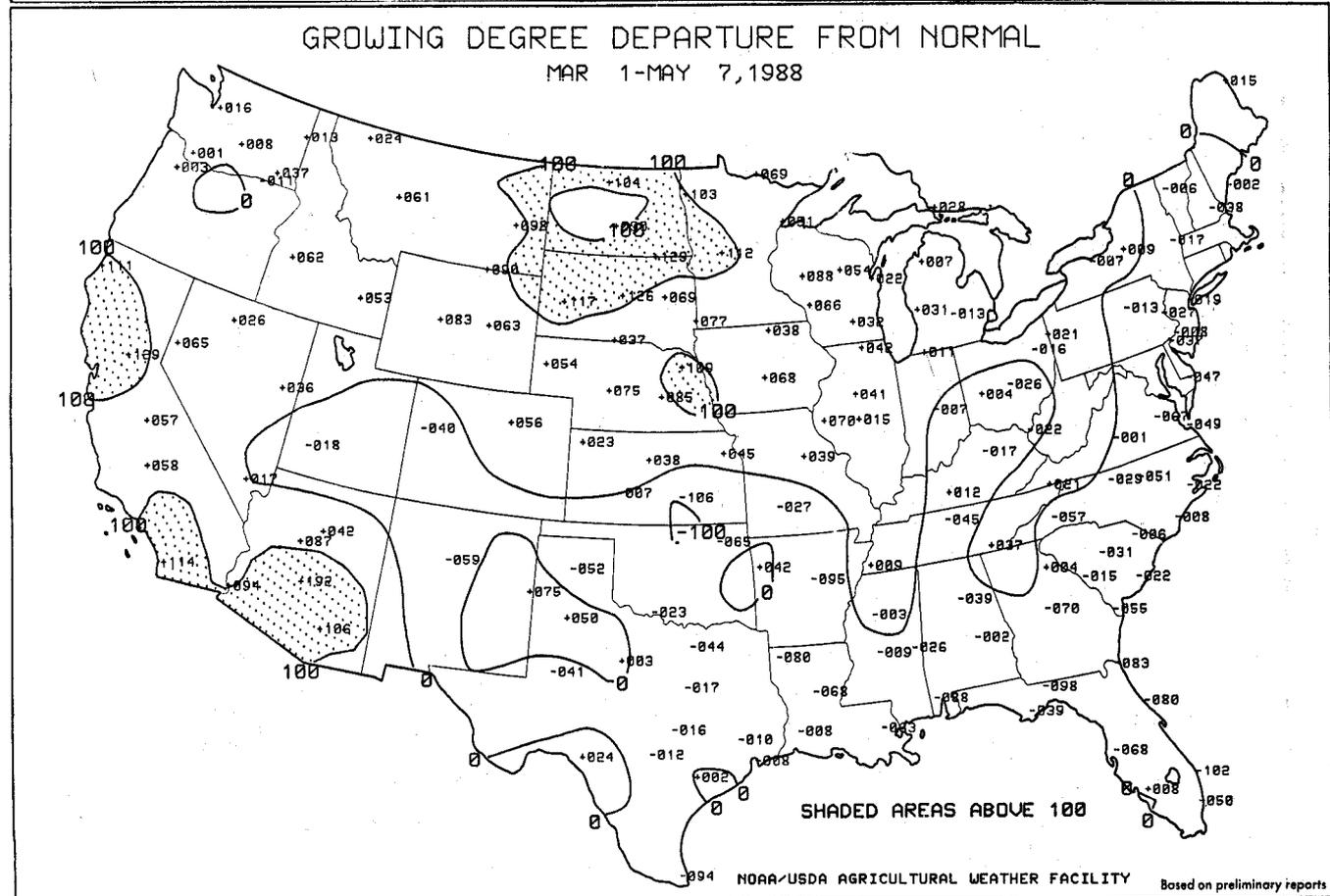
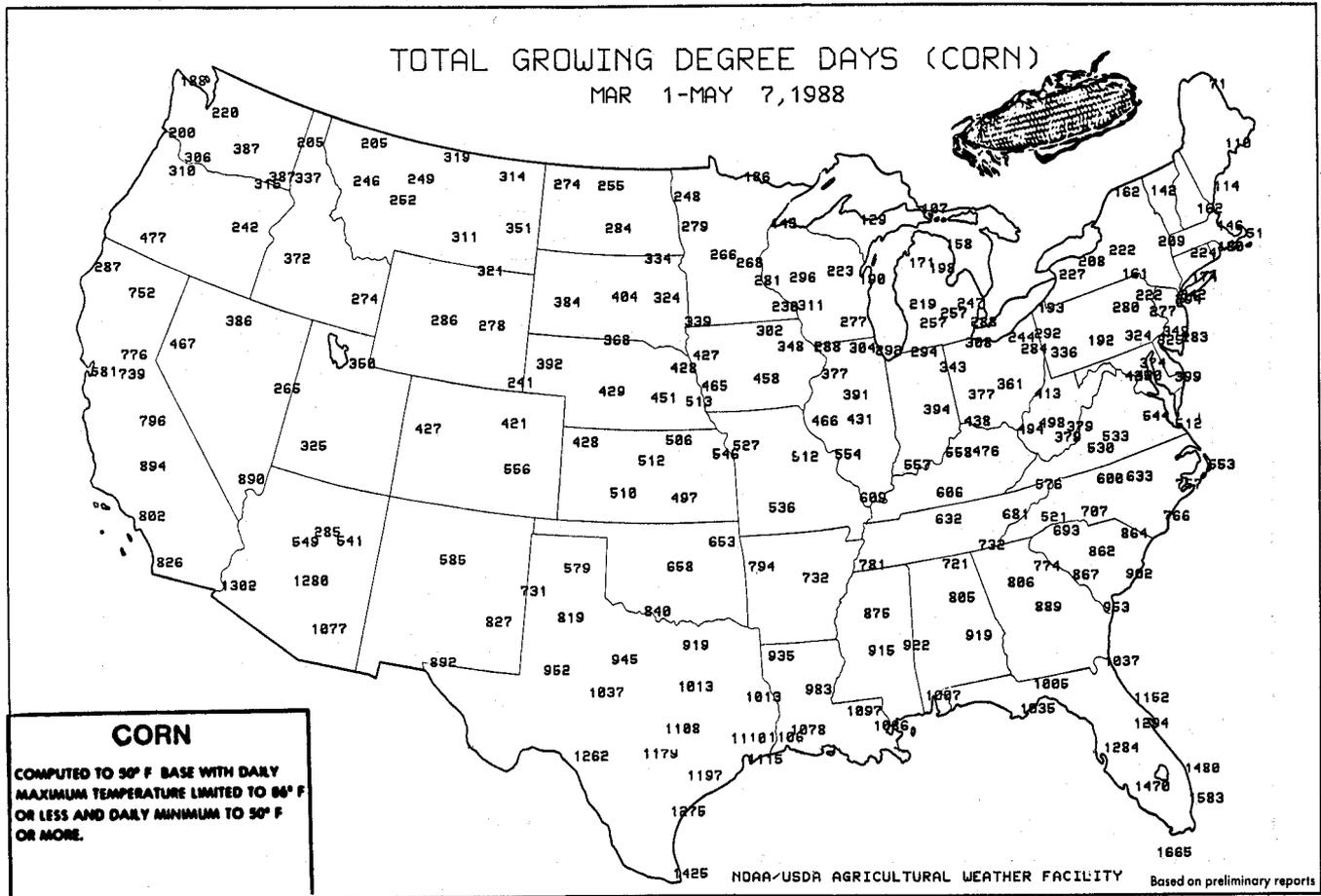
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National Weather Data for Selected Cities

Weather Data for the Week Ending May 7, 1988

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR 1	PCT. NORMAL SINCE MAR 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	79	46	84	39	63	-5	T	-1.1	T	6.2	49	13.8	61	95	29	0	0	0	0
MOBILE	82	54	86	50	68	-5	T	-1.2	T	12.0	92	22.9	101	87	30	0	0	0	0
MONTGOMERY	81	50	83	47	66	-4	T	-1.2	T	10.8	97	22.3	111	90	28	0	0	0	0
AK ANCHORAGE	51	35	55	28	43	1	T	-1.1	T	1.0	76	1.8	58	84	40	0	0	0	0
BARROW	17	6	23	2	11	-1	T	0	T	.1	35	.2	22	88	74	0	2	0	0
FAIRBANKS	55	36	59	28	45	3	T	-1.1	T	.4	51	.8	48	76	33	0	1	1	0
JUNEAU	57	38	64	35	48	4	T	-1.6	T	6.6	95	15.6	108	98	43	0	0	2	0
KODIAK	47	38	51	33	43	2	T	-1.4	T	15.5	178	32.7	166	96	74	0	0	6	0
NOME	42	31	49	27	36	6	T	-1.1	T	1.3	107	3.2	125	91	60	0	5	2	0
AZ PHOENIX	83	58	97	54	71	-3	T	0	T	1.3	119	2.4	101	30	10	3	0	0	0
PRESCOTT	64	34	74	26	49	-5	T	-1.1	T	2.6	107	4.4	76	51	15	0	4	0	0
TUCSON	83	49	93	40	66	-4	T	-1.0	T	1.5	146	2.4	99	30	9	3	0	0	0
YUMA	82	57	93	52	69	-6	T	0	T	.6	229	1.0	112	38	15	2	0	0	0
AR FORT SMITH	82	51	86	45	66	0	T	-1.0	T	1.1	116	14.4	106	90	29	0	0	1	0
LITTLE ROCK	79	56	84	52	67	0	T	-1.1	T	8.2	72	14.4	75	66	33	0	0	1	0
CA BAKERSFIELD	72	45	79	37	59	-9	T	0	T	1.8	109	2.9	80	79	25	0	0	1	0
EUREKA	58	47	64	42	52	1	T	-1.1	T	3.6	43	11.2	54	80	57	0	0	4	0
FRESNO	70	45	77	41	58	-7	T	-1.3	T	3.1	111	5.5	81	83	27	0	0	3	0
LOS ANGELES	66	52	77	49	59	-2	T	0	T	1.2	46	4.6	56	78	41	0	0	0	0
REDDING	65	44	74	36	55	-11	T	-1.9	T	4.7	58	12.1	53	82	35	0	0	4	1
SACRAMENTO	69	45	76	41	57	-6	T	-1.5	T	2.4	71	7.0	67	86	37	0	0	2	1
SAN DIEGO	67	54	74	51	61	-2	T	0	T	4.3	168	6.7	105	78	43	0	0	2	0
SAN FRANCISCO	61	48	63	44	55	-2	T	0	T	2.2	53	6.5	54	85	50	0	0	3	0
CO DENVER	68	37	82	28	53	-1	T	-1.3	T	2.2	60	3.2	66	77	22	0	2	2	0
GRAND JUNCTION	68	40	81	31	54	-4	T	-2.2	T	1.7	108	3.0	108	53	15	0	1	1	0
PUEBLO	72	39	84	30	56	-2	T	-2.2	T	1.8	88	2.7	107	74	20	0	1	1	0
CT BRIDGEPORT	61	47	75	43	54	-1	T	-1.3	T	4.3	51	10.6	72	83	54	0	0	2	0
HARTFORD	64	43	74	38	53	-3	T	-1.3	T	4.7	53	12.1	77	91	44	0	0	3	0
DC WASHINGTON	65	51	80	45	58	-5	T	-1.2	T	5.5	77	11.2	89	94	60	0	0	4	1
FL APALACHICOLA	79	58	83	51	68	-4	T	-1.6	T	8.9	113	20.3	134	91	44	0	0	1	0
DAYTONA BEACH	78	59	84	53	69	-4	T	0	T	6.9	119	13.9	123	89	44	0	0	1	1
JACKSONVILLE	78	52	84	49	65	-8	T	-1.3	T	6.7	92	19.1	137	93	35	0	0	1	1
KEY WEST	81	70	83	66	75	-4	T	2.6	T	4.9	149	10.2	144	84	57	0	0	2	1
MIAMI	83	66	88	61	75	-3	T	-1.0	T	3.2	49	5.7	54	84	47	0	0	1	1
ORLANDO	82	60	86	57	71	-5	T	-1.6	T	8.1	132	12.6	110	90	38	0	0	1	0
TALLAHASSEE	81	48	84	44	64	-7	T	-1.3	T	11.5	107	22.0	107	93	28	0	0	1	0
TAMPA	81	61	85	59	71	-4	T	-1.6	T	5.9	102	10.1	91	91	42	0	0	0	0
WEST PALM BEACH	82	64	87	57	73	-3	T	-1.6	T	9.8	139	16.2	130	88	43	0	0	2	0
GA ATLANTA	77	52	82	49	65	-2	T	-1.5	T	9.1	81	17.1	82	75	27	0	0	1	0
AUGUSTA	79	50	84	44	64	-4	T	-1.1	T	8.3	93	15.9	93	97	34	0	0	1	0
MACON	79	50	84	45	65	-5	T	-1.8	T	8.5	90	16.4	89	91	30	0	0	1	0
SAVANNAH	79	55	84	50	67	-4	T	-1.8	T	8.0	101	15.5	108	84	31	0	0	3	1
HI HILO	80	68	82	64	74	1	T	2.8	T	28.8	99	49.0	94	95	69	0	0	6	2
HONOLULU	84	71	86	69	77	1	T	0	T	2.0	39	6.4	54	92	63	0	0	6	0
KAHULUI	87	67	88	65	77	2	T	-1.1	T	2.3	60	11.0	100	87	50	0	0	1	0
LIHUE	81	71	83	67	76	1	T	1.3	T	5.6	66	17.1	92	96	72	0	0	5	2
ID BOISE	59	34	62	23	46	-8	T	-1.3	T	3.5	142	5.2	101	87	37	0	4	2	0
LEWISTON	58	40	64	34	49	-6	T	-1.1	T	2.2	91	3.4	70	74	39	0	0	2	0
POCATELLO	57	34	72	26	46	-5	T	-1.8	T	2.5	112	3.9	90	83	30	0	3	3	0
IL CHICAGO	72	41	84	37	57	1	T	-1.0	T	4.2	58	7.4	73	84	24	0	0	0	0
MOLINE	78	42	84	37	60	3	T	-1.0	T	3.7	48	6.5	61	71	18	0	0	0	0
EBORIA	78	46	84	40	62	4	T	-1.0	T	4.4	58	7.1	67	59	20	0	0	0	0
QUINCY	76	48	83	42	62	2	T	-1.0	T	2.7	33	4.3	39	64	25	0	0	0	0
ROCKFORD	76	43	84	37	59	4	T	-1.0	T	5.3	69	8.3	80	76	28	0	0	1	0
SPRINGFIELD	77	45	84	39	61	1	T	-1.0	T	4.0	50	7.5	67	70	22	0	0	0	0
IN EVANSVILLE	78	44	84	39	61	-1	T	-1.1	T	4.7	49	11.9	76	86	23	0	0	2	0
FORT WAYNE	74	43	83	41	59	3	T	-1.0	T	5.8	79	9.3	81	72	22	0	0	0	0
INDIANAPOLIS	74	44	81	39	59	0	T	-1.8	T	7.2	90	12.6	95	65	26	0	0	0	0
SOUTH BEND	72	40	82	31	56	1	T	-1.7	T	5.9	77	10.1	83	81	25	0	1	0	0
IA DES MOINES	79	52	84	45	66	8	T	-1.8	T	1.4	23	2.4	28	57	23	0	0	1	0
SIOUX CITY	75	50	82	43	63	5	T	-1.3	T	3.5	74	4.7	73	88	40	0	0	3	0
WATERLOO	79	46	83	38	62	7	T	-1.9	T	3.1	46	4.2	49	69	20	0	0	0	0
KS CONCORDIA	73	51	83	42	62	2	T	-1.6	T	2.1	42	3.4	53	88	43	0	0	0	0
DODGE CITY	71	45	82	35	58	-2	T	-1.3	T	3.9	99	5.0	100	90	41	0	0	2	0
GOODLAND	69	39	83	32	54	-1	T	-1.7	T	4.6	166	6.5	182	88	39	0	1	3	2
TOPEKA	76	53	83	46	65	4	T	-1.4	T	4.1	67	6.6	82	87	41	0	0	3	0
WICHITA	72	51	78	43	61	-1	T	-1.7	T	7.5	141	8.2	119	93	54	0	0	2	0
KY BOWLING GREEN	72	42	79	38	57	-6	T	-1.9	T	5.5	52	12.7	66	98	36	0	0	2	1
LEXINGTON	71	45	78	40	58	-3	T	-1.7	T	6.0	61	12.0	71	81	33	0	0	1	1
LOUISVILLE	74	47	81	43	61	-2	T	-1.2	T	7.6	78	15.2	92	85	30	0	0	2	1
LA ALEXANDRIA	81	53	84	46	67	-5	T	-1.3	T	11.7	100	16.8	80	86	32	0	0	0	0
BATON ROUGE	83	53	86	49	68	-5	T	-1.2	T	13.7	119	30.1	143	90	31	0	0	0	0
LAKE CHARLES	81	58	85	52	69	-3	T	-1.2	T	9.6	116	17.9	109	97	43	0	0	0	0
NEW ORLEANS	82	55	85	50	69	-4	T	-1.1	T	18.2	176	33.2	161	97	33	0	0	0	0

Based on 1951-80 normals

Weather Data for the Week Ending May 7, 1988

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	
SHREVEPORT	81	52	84	47	67	-4	T	-1.1	T	7.4	77	13.0	76	93	30	0	0	1	0	
ME CARIBOU	63	38	79	29	51	5	T	-1.6	T	3.2	57	8.6	85	78	31	0	1	0	0	
PORTLAND	62	41	70	39	51	2	T	.3	-1.5	.1	5.8	67	11.1	89	93	44	0	0	3	2
MD BALTIMORE	64	50	80	40	57	-3	1.7	1.0	1.0	6.5	84	13.0	94	91	55	0	0	0	4	1
SALISBURY	65	46	73	33	55	-5	1.7	1.2	1.6	10.2	127	18.3	123	98	59	0	0	0	4	2
MA BOSTON	60	46	73	41	53	-2	1.2	1.7	1.1	5.3	62	11.8	72	89	57	0	0	0	4	1
CHATHAM	53	44	65	40	48	-1	1.1	1.3	1.4	5.6	63	13.5	77	91	74	0	0	0	3	0
MI ALPENA	66	35	75	31	51	2	0	0	0	6.0	118	8.5	105	90	29	0	1	0	0	0
DETROIT	71	45	79	40	58	3	0	0	0	2.7	42	6.0	61	67	25	0	0	0	0	0
FLINT	70	37	75	35	54	1	0	0	0	4.1	71	6.9	78	85	28	0	0	0	0	0
GRAND RAPIDS	73	39	80	36	56	2	0	0	0	5.2	76	8.8	84	84	25	0	0	0	0	0
HOUGHTON LAKE	72	36	76	33	54	4	0	0	0	4.8	94	7.6	96	88	22	0	0	0	0	0
LANSING	70	37	75	33	53	1	0	0	0	5.5	95	8.1	92	87	28	0	0	0	0	0
MARQUETTE	69	34	76	27	52	6	0	0	0	5.1	70	10.1	89	80	24	0	2	0	0	0
MUSKEGON	72	40	76	35	56	4	0	0	0	5.8	92	10.3	100	78	22	0	0	0	0	0
SAULT ST. MARIE	70	37	76	31	53	7	0	0	0	5.1	101	9.1	102	77	23	0	1	0	0	0
MN ALEXANDRIA	78	51	79	46	65	14	1	1	1	2.9	71	4.1	73	59	21	0	0	0	2	0
DULUTH	70	41	79	34	55	9	1	1	1	3.3	72	4.2	63	64	25	0	0	0	1	0
INT'L FALLS	77	44	80	38	61	14	1	1	1	2.4	76	3.0	63	66	22	0	0	0	1	0
MINNEAPOLIS	79	52	82	47	66	12	1	1	1	3.1	71	4.8	79	57	18	0	0	0	1	0
ROCHESTER	76	46	80	40	61	9	1	1	1	4.0	79	5.4	81	66	23	0	0	0	0	1
MS GREENWOOD	81	52	85	43	67	-3	1.6	1.6	1.6	6.9	54	11.3	50	86	29	0	0	0	1	1
JACKSON	82	49	85	41	65	-5	0	0	0	12.8	103	19.0	87	98	31	0	0	0	0	0
MERIDIAN	81	47	85	40	64	-5	1.2	1.2	1.2	11.5	88	18.5	81	98	32	0	0	0	1	0
MO CAPE GIRARDEAU	77	48	81	40	62	1	1.3	1.2	1.7	6.5	61	11.8	71	92	29	0	0	0	2	2
COLUMBIA	76	51	81	47	64	2	1.0	1.0	1.0	7.1	85	10.9	91	77	32	0	0	0	3	1
KANSAS CITY	76	54	82	48	65	3	1.9	1.1	1.7	4.4	64	6.6	69	83	38	0	0	0	3	1
SAINT LOUIS	77	53	83	46	65	3	1.1	1.7	1.1	6.0	79	11.6	100	67	23	0	0	0	2	0
SPRINGFIELD	74	47	80	42	61	-1	1.2	1.7	1.2	9.8	116	13.4	109	88	37	0	0	0	3	0
MT BILLINGS	60	39	75	31	50	-2	1.4	1.9	1.9	3.9	111	5.0	97	66	31	0	2	3	3	1
GLASGOW	67	41	84	30	54	2	1.6	1.4	1.5	1.2	89	1.9	95	86	30	0	2	3	0	0
GREAT FALLS	60	35	73	29	48	-2	1.8	1.3	1.8	2.0	70	3.3	71	77	32	0	1	0	0	0
HAVRE	66	39	79	25	53	1	0	0	0	1.0	22	1.0	31	62	24	0	1	5	0	0
HELENA	58	37	72	31	48	-1	1.8	1.5	1.4	2.6	126	3.4	105	82	35	0	1	5	0	0
KALISPELL	57	37	64	30	47	-2	1.0	1.7	1.5	2.8	123	4.6	93	96	48	0	3	5	0	0
MILES CITY	65	41	77	36	53	0	1.2	1.3	1.1	1.6	23	1.0	26	77	26	0	0	2	0	1
MISSOULA	54	36	62	27	45	-5	1.3	1.0	1.6	3.0	142	4.4	100	92	48	0	2	5	1	0
NE GRAND ISLAND	69	47	80	40	58	1	1.6	1.2	1.6	3.1	62	4.6	72	92	49	0	0	1	1	0
LINCOLN	75	51	83	41	63	5	1.5	1.3	1.3	3.1	54	3.7	50	89	42	0	0	0	4	0
NORFOLK	72	49	81	39	61	4	1.7	1.4	1.4	3.2	72	4.4	77	89	42	0	0	3	0	0
NORTH PLATTE	68	39	78	30	54	-1	1.8	1.1	1.6	4.2	115	4.9	108	94	45	0	0	1	3	1
OMAHA	76	53	82	47	64	5	1.9	1.5	1.5	2.8	48	3.4	46	85	45	0	0	0	4	1
SCOTTSBLUFF	63	38	82	28	51	-3	1.7	1.2	1.4	4.1	138	5.0	131	85	40	0	1	2	0	0
VALENTINE	64	42	82	34	53	0	1.7	1.1	1.2	4.2	127	5.6	141	86	49	0	0	4	1	0
NV ELY	51	25	61	15	38	-9	1.2	1.0	1.1	2.2	104	3.5	100	87	36	0	6	3	0	0
LAS VEGAS	73	49	81	45	61	-8	1.2	1.1	1.1	1.8	119	1.7	106	38	12	0	0	0	0	0
RENO	58	34	67	26	46	-5	1.2	1.0	1.0	1.0	75	1.5	43	76	28	0	3	1	0	0
WINNEMUCCA	65	29	66	19	44	-8	1.2	1.0	1.2	1.8	114	3.2	103	81	24	0	5	2	0	0
NH CONCORD	68	40	77	32	52	1	1.2	1.1	1.1	4.3	64	8.5	71	95	34	0	1	3	0	0
NJ ATLANTIC CITY	61	44	76	38	53	-4	1.2	1.4	1.8	5.1	65	11.9	81	96	65	0	0	4	1	0
NM ALBUQUERQUE	74	45	81	39	60	-1	0	0	0	2.3	234	2.5	143	40	10	0	0	0	0	0
CLOVIS	75	51	87	43	63	1	1.1	1.3	1.1	1.2	70	1.7	65	54	19	0	0	0	1	0
ROSWELL	81	47	87	37	64	-2	1.3	1.1	1.3	1.6	170	3.3	187	60	17	0	0	0	4	0
NY ALBANY	66	40	73	33	53	-1	1.2	1.7	1.7	3.9	59	8.8	78	96	38	0	0	0	3	0
BINGHAMTON	60	42	69	37	51	0	1.2	1.5	1.1	4.6	68	9.9	86	88	45	0	0	0	3	0
BUFFALO	66	43	76	36	54	2	1.2	1.6	1.6	6.0	90	11.6	96	88	34	0	0	1	0	0
NEW YORK	62	49	74	45	55	-3	1.1	1.3	1.5	5.2	60	11.2	75	91	60	0	0	0	3	1
ROCHESTER	63	40	72	33	52	-1	1.1	1.7	1.7	4.0	70	6.9	66	92	41	0	0	0	1	0
SYRACUSE	66	41	74	35	54	0	1.1	1.7	1.7	4.5	64	8.2	66	89	40	0	0	0	2	0
NC ASHEVILLE	69	43	78	35	56	-5	1.3	1.6	1.3	5.1	55	9.6	62	86	35	0	0	2	0	0
CHARLOTTE	74	51	81	46	62	-3	1.2	1.6	1.6	5.8	65	10.3	62	87	36	0	0	0	2	0
GREENSBORO	70	49	80	45	60	-4	1.0	1.3	1.6	5.4	70	9.0	62	92	46	0	0	4	1	0
HATTERAS	67	54	74	49	60	-4	1.1	1.7	1.1	7.0	87	16.8	99	91	58	0	0	0	2	0
NEW BERN	73	51	79	44	62	-5	1.9	1.0	1.4	8.9	119	16.2	104	92	48	0	0	0	5	1
RALEIGH	70	48	80	45	59	-6	1.8	1.3	1.3	6.1	83	11.6	81	91	49	0	0	0	3	0
WILMINGTON	72	51	80	46	61	-7	1.5	1.7	1.3	9.1	116	16.5	110	98	51	0	0	0	3	1
ND BISMARCK	65	43	82	32	54	3	1.3	1.1	1.2	1.3	50	2.4	67	92	49	0	1	4	0	0
FARGO	77	48	83	36	62	11	1.3	1.2	1.3	1.3	41	3.2	76	75	26	0	0	0	1	0
GRAND FORKS	74	43	84	31	59	8	1.9	1.4	1.9	1.9	36	1.7	45	78	30	0	1	0	0	0
WILLISTON	63	41	80	28	52	1	1.9	1.6	1.5	1.7	76	2.7	85	91	42	0	1	4	0	0
OH AKRON-CANTON	65	43	74	37	54	-1	1.1	1.6	1.5	5.5	75	9.4	77	90	43	0	0	0	3	1
CINCINNATI	72	45	81	42	59	-2	1.1	1.8	1.5	7.3	88	15.0	105	69	27	0	0	0	0	0
CLEVELAND	62	41	69	34	51	-1	1.1	1.2	1.2	5.9	84	9.8	84	95	48	0	0	2	0	0
COLUMBUS	69	43	79	37	56	-2	1.7	1.2	1.7	5.5	73	11.9	95	88	40	0	0	0	2	1

Based on 1951-80 normals

Weather Data for the Week Ending May 7, 1988

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	70	42	80	37	56									67	28	0	0	1	0
TOLEDO	70	40	79	34	55									67	28	0	0	1	0
YOUNGSTOWN	65	42	74	37	54									85	28	0	0	0	0
OK OKLAHOMA CITY	75	54	80	47	65									88	42	0	0	3	0
TULSA	76	54	82	49	65									86	40	0	0	2	0
OR ASTORIA	56	41	64	35	48									84	38	0	0	1	0
BURNS	54	29	57	21	42									95	63	0	0	5	2
MEDFORD	59	40	64	34	49									83	29	0	0	4	0
PENDLETON	58	38	66	34	48									92	44	0	0	0	0
PORTLAND	57	43	66	38	50									82	41	0	0	1	0
SALEM	56	40	66	35	48									95	61	0	0	0	0
PA ALLENTOWN	63	47	79	42	55									95	64	0	0	5	0
ERIE	60	42	67	37	51									94	58	0	0	7	0
HARRISBURG	63	47	79	37	55									90	50	0	0	1	0
PHILADELPHIA	65	49	79	44	57									91	55	0	0	5	1
PITTSBURGH	65	45	76	34	55									91	58	0	0	4	0
SCRANTON	63	45	74	39	54									90	49	0	0	3	0
RI PROVIDENCE	60	45	73	41	53									89	49	0	0	2	1
SC CHARLESTON	77	54	82	50	66									92	53	0	0	2	0
COLUMBIA	78	51	84	41	65									94	38	0	0	2	1
FLORENCE	77	52	84	45	65									92	32	0	0	1	1
GREENVILLE	76	47	83	42	62									93	37	0	0	2	1
SD ABERDEEN	73	47	80	36	60									87	32	0	0	1	0
HURON	71	47	79	37	59									78	34	0	0	0	0
RAPID CITY	66	37	83	30	51									90	44	0	0	2	0
STOUX FALLS	73	48	79	39	61									92	36	0	1	4	1
TN CHATTANOOGA	77	46	83	40	61									85	35	0	0	2	0
KNOXVILLE	74	43	80	37	59									95	27	0	0	1	0
MEMPHIS	81	54	85	50	67									96	33	0	0	2	1
NASHVILLE	74	44	82	38	59									79	34	0	0	1	0
TX ABILENE	82	54	89	42	68									96	35	0	0	2	0
AMARILLO	74	45	86	35	59									73	24	0	0	0	0
AUSTIN	81	59	86	55	70									72	28	0	0	0	0
BEAUMONT	82	57	86	52	70									92	44	0	0	2	0
BROWNSVILLE	84	67	89	62	75									99	44	0	0	0	0
CORPUS CHRISTI	83	64	91	57	74									94	55	0	0	0	0
DEL RIO	87	65	91	58	76									95	52	1	0	0	0
EL PASO	83	49	90	35	66									64	26	1	0	1	0
FORT WORTH	79	56	85	52	67									91	11	1	0	0	0
GALVESTON	78	67	83	62	72									90	40	0	0	0	0
HOUSTON	82	57	87	53	70									87	53	0	0	0	0
LUBBOCK	82	51	90	42	67									92	42	0	0	0	0
MIDLAND	84	53	91	40	69									76	20	1	0	1	0
SAN ANGELO	84	54	92	42	69									72	20	2	0	2	0
SAN ANTONIO	83	60	87	54	72									74	25	1	0	0	0
VICTORIA	83	60	88	56	72									88	40	0	0	1	0
WACO	80	55	86	50	68									97	45	0	0	0	0
WICHITA FALLS	81	54	88	47	68									94	44	0	0	2	0
UT BLANDING	62	34	74	27	48									83	31	0	0	0	0
CEDAR CITY	56	30	68	21	43									58	20	0	3	0	0
SALT LAKE CITY	62	38	77	31	50									82	26	0	5	1	0
VT BURLINGTON	64	40	78	36	52									74	24	0	2	2	0
VA NORFOLK	65	48	70	41	57									84	36	0	0	1	0
RICHMOND	68	47	79	42	58									95	57	0	0	4	2
ROANOKE	67	45	81	36	56									96	54	0	0	3	1
WA QUILLAYUTE	56	37	62	33	47									92	49	0	0	3	0
SEATTLE-TACOMA	56	42	66	39	49									100	62	0	0	5	3
SPOKANE	57	36	64	28	47									98	59	0	0	4	0
YAKIMA	61	32	70	26	47									88	38	0	2	2	0
WV BECKLEY	63	43	73	35	53									90	36	0	3	2	0
CHARLESTON	68	44	78	36	56									87	45	0	0	3	0
HUNTINGTON	69	45	78	39	57									96	43	0	0	3	1
PARKERSBURG	65	44	78	36	55									92	36	0	0	3	1
WI GREEN BAY	71	41	73	35	56									91	48	0	0	2	0
LACROSSE	79	49	84	43	64									84	28	0	0	0	0
MADISON	74	39	80	35	56									68	19	0	0	0	0
MILWAUKEE	64	42	69	39	53									82	24	0	0	0	0
WAUSAU	76	43	80	35	59									80	35	0	0	0	0
WY CASPER	57	31	78	26	44									74	21	0	0	0	0
CHEYENNE	57	32	73	27	45									89	36	0	5	3	0
LANDER	58	34	74	29	46									94	37	0	4	3	0
SHERIDAN	59	34	81	28	47									75	31	0	3	2	2
PR SAN JUAN	92	74	93	73	83									93	39	0	3	3	1

Based on 1951-80 normals

April Weather and Crop Summary

Weather

HIGHLIGHTS: The western half of the Nation experienced mostly above-normal temperatures and above-normal precipitation. However, the Northern Plains were very dry. Above-normal precipitation in the Pacific Northwest and parts of the Southeast helped to alleviate the drought in those areas. The southern Plains and the Atlantic coastal regions had generally below-normal temperatures.

APRIL 1 - 2 . . . An intense storm, centered over the southern Plains, produced heavy snowfall in Colorado, New Mexico, western and northern Texas, western Kansas, and western Oklahoma; and heavy rainfall in the middle and lower Mississippi Valley and in the southern Plains. A cold front moving onshore in the Pacific Northwest produced rain, mountain snow, and strong winds in western Washington and western Oregon. Showers and thunderstorms were scattered throughout the upper and middle Mississippi Valley, Indiana, and lower Michigan.

APRIL 3 - 9 . . . Temperatures averaged above normal almost everywhere except the Pacific Northwest. Beneficial rains fell in eastern Washington, the Montana winter wheat region, and the central winter wheat belt of Kansas and Nebraska, but some areas remained too dry. Heaviest rains were reported in the Great Lakes region, the Ohio Valley, and the Middle Atlantic States.

APRIL 10 - 16 . . . Rains soaked the Southeast the first part of the week, while strong northeasterly winds caused flooding along the mid-Atlantic coast. Record-high temperatures in the Southwest gave way to cooler, showery conditions as a storm developed off the California coast and moved inland.

APRIL 17 - 23 . . . A storm moved across Oklahoma, Texas, and the deep South early in the week, bringing heavy rains and severe thunderstorms to the Gulf States and the Carolinas. Showery conditions prevailed west of the Rockies throughout the week. A storm developed on Thursday over the central Rockies and moved eastward, spreading snow across the central and northern Plains and the upper Mississippi Valley, while causing widespread thunderstorm activity from Nebraska to Michigan. By week's end, rain showers and thunderstorms had spread across most of the eastern third of the Nation.

APRIL 24 - 30 . . . Rain eased dryness in the Pacific Northwest, the western Corn Belt, southeastern Texas, the southern Atlantic coast region, and New England. Unseasonably cold weather persisted in the eastern Corn Belt. A late-season storm brought snow to the northern Plains early in the week.

Fieldwork

Rain, sometimes snow, and unseasonably cold temperatures interrupted seeding and land prepara-

tion in the central and southern Great Plains and Corn Belt during May. With the exception of snow, much of the same was true for the Delta and Southeast. Above-normal temperatures and dry weather dominated the northern Great Plains during most of the month as evidenced by the rapid seeding of spring small grains. Intermittent precipitation gave some relief, but for the most part, the lack of moisture hampered winter small grain growth and development.

Corn planting was limited to the southern half of the Nation at the beginning of April. By the second week of the month, planting moved as far north as Nebraska. Planting progressed normally until the last week of the month, when 21 percent of the acreage was seeded in the 17 major producing States. The month ended with 36 percent of the corn acreage planted compared with 43 percent in 1987 and 24 percent average.

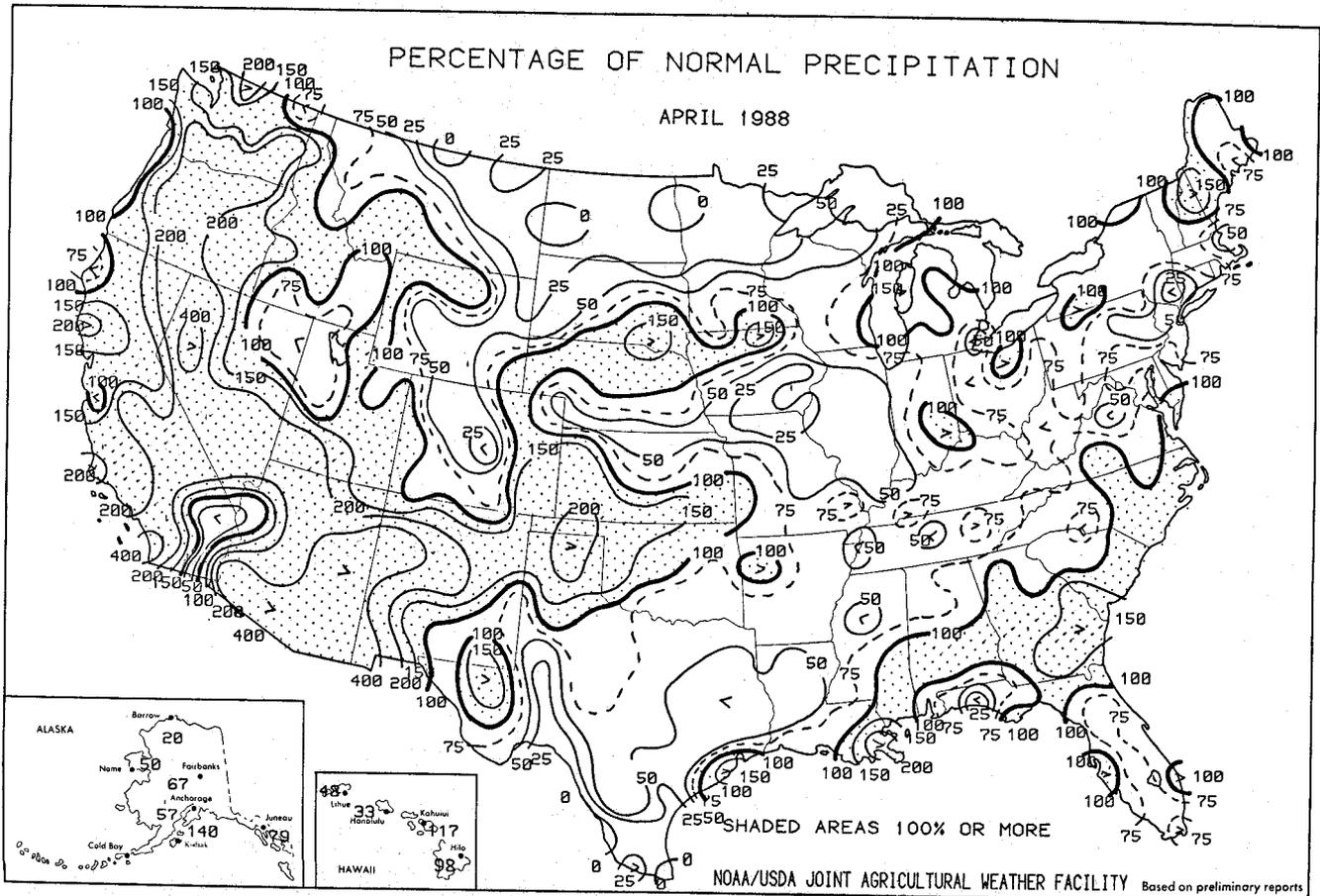
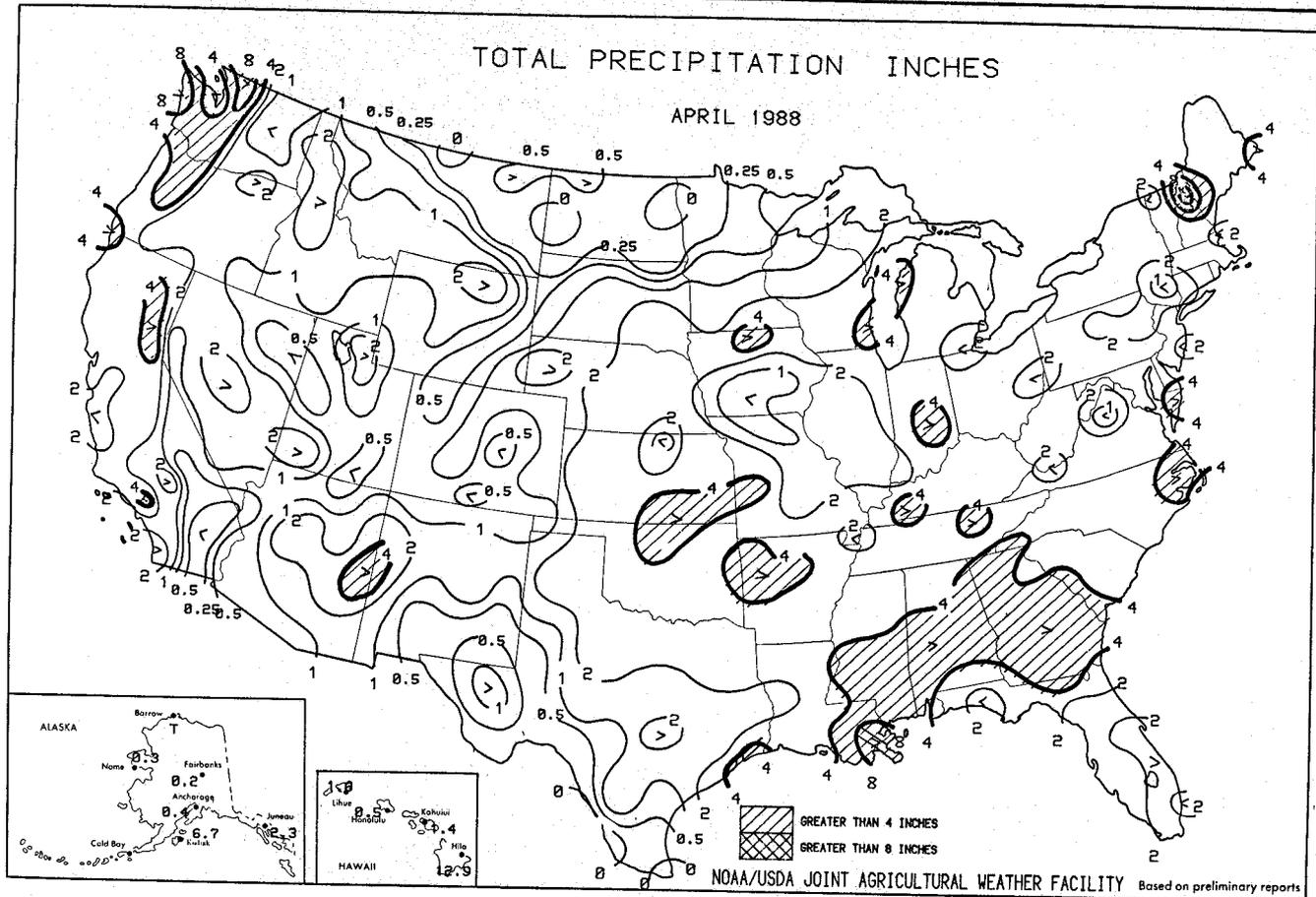
At month's end, cotton seeding was 33 percent finished, 3 points below 1987 but 2 points above normal. Planting lagged behind normal in the Delta and Southeast as a result of wetness and low soil temperatures. Planting lagged behind normal in 8 of the 14 major producing States and by as much as 25 points in North Carolina and 30 points in South Carolina. Rain, cool weather, and crusting soils caused some replanting in Arizona and California.

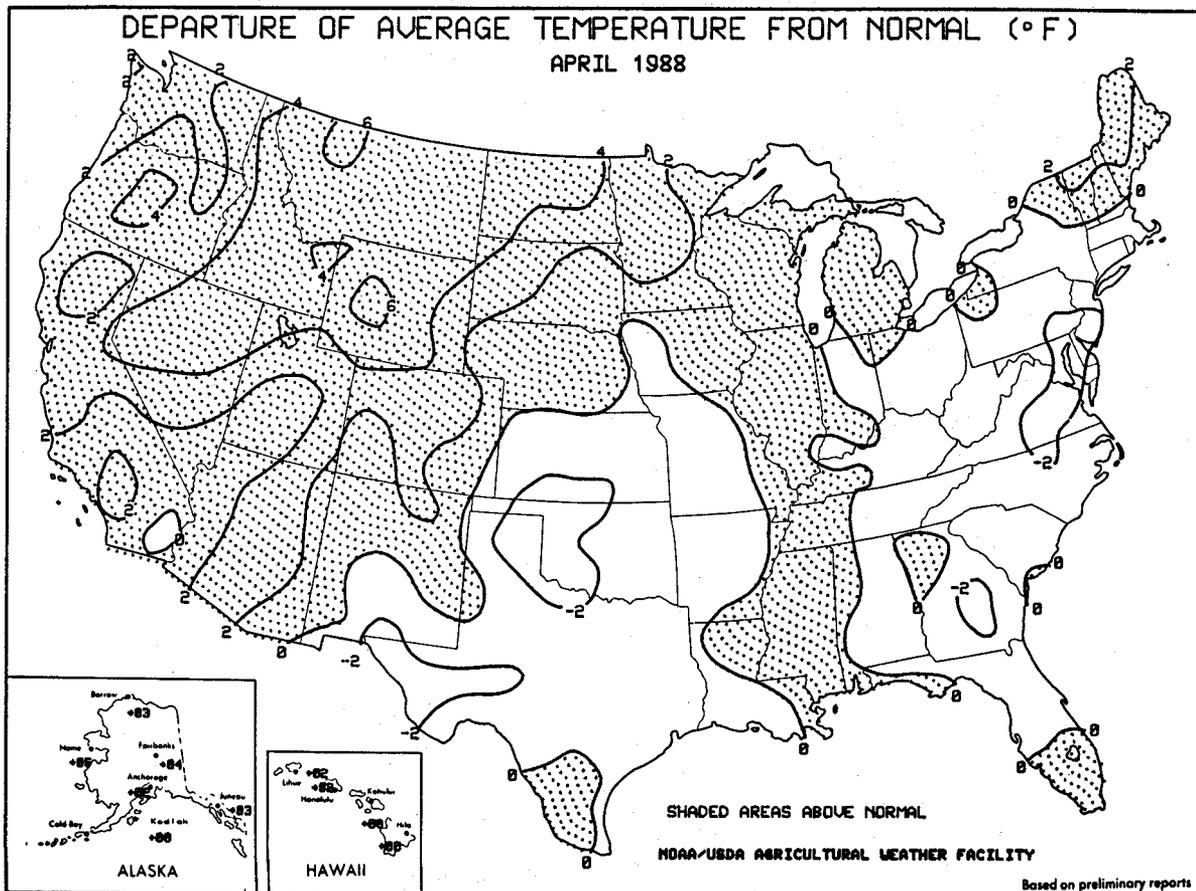
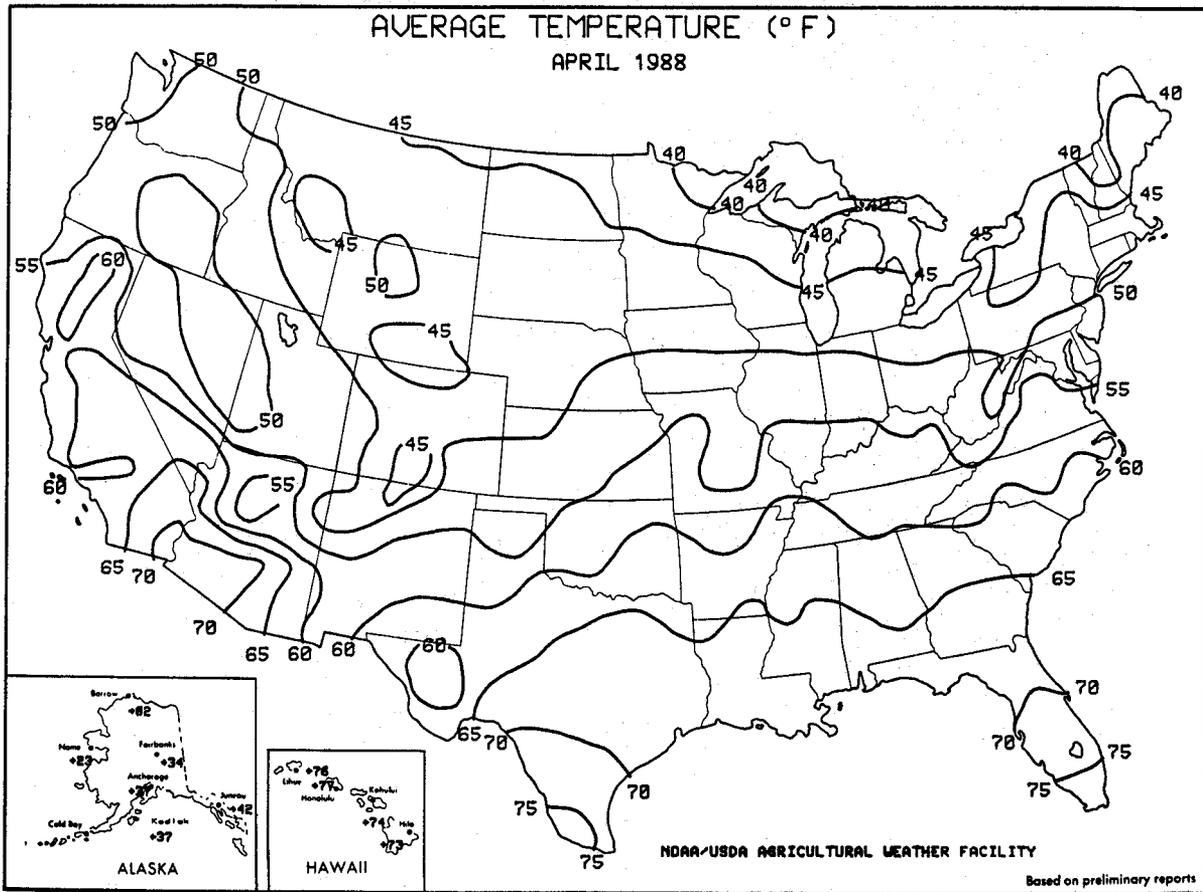
Sorghum seeding reached 19 percent completion by the beginning of May. Seeding was slightly behind normal. Planting was underway in all major producing States except Kansas and South Dakota.

Rice was 54 percent seeded and 20 percent emerged on May 1. Seeding was 5 points ahead of normal but emergence trailed 17 points behind the average. Rice planting lagged behind normal until the last week of the month.

Soybean planting was just getting underway as the month ended. Planting reached 2 percent completion just slightly ahead of normal.

Spring wheat planting advanced rapidly during the month. On April 17, 32 percent of the acreage was seeded, four times greater than normal. Seeding continued ahead of normal reaching 78 percent completion by month's end. Planting neared completion in South Dakota. Spring wheat emergence was 19 percent finished compared with 17 percent normally.





Temperature and Precipitation Data for April 1988

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	61	-2	3.2	-1.8	BATON ROUGE	68	0	4.7	-0.9	DAYTON	51	-1	2.0	-1.4
MOBILE	67	-1	4.2	-1.1	LAKE CHARLES	68	0	3.3	-0.5	TOLEDO	48	0	1.5	-1.6
MONTGOMERY	64	-1	5.6	1.3	NEW ORLEANS	68	0	9.3	4.8	YOUNGSTOWN	47	-1	2.4	-1.0
AK ANCHORAGE	37	2	0.4	-0.3	SHREVEPORT	65	0	3.5	-1.2	OK OKLAHOMA CITY	59	-1	3.2	0.3
BARROW	2	3	T	-0.2	ME CARIBOU	40	2	2.0	-0.6	TULSA	60	-1	3.2	-1.0
FAIRBANKS	34	3	0.2	-0.1	PORTLAND	43	1	3.7	-0.2	OR ASTORIA	49	1	4.0	-0.8
JUNEAU	42	3	2.4	-0.5	MD BALTIMORE	52	-2	2.5	-0.9	BURNS	45	2	1.2	0.5
KODIAK	37	0	6.7	3.0	MA BOSTON	47	-2	1.5	-2.2	MEDFORD	54	4	1.1	0.0
NOME	23	5	0.3	-0.3	MI ALPENA	45	0	2.1	-1.8	PENDLETON	52	2	2.5	1.5
AZ FLAGSTAFF	44	2	3.8	2.4	MI DETROIT	42	1	3.3	0.7	PORTLAND	52	2	4.6	2.3
PHOENIX	73	5	1.1	0.8	FLINT	48	1	1.5	-1.6	PA SALEM	51	3	3.6	1.2
PRESCOTT	53	3	2.3	1.5	GRAND RAPIDS	46	1	2.7	-0.4	ALLENTOWN	48	-2	1.4	-2.6
TUCSON	68	3	1.2	0.9	HOUGHTON LAKE	44	2	2.4	-0.2	ERIE	46	0	3.0	-0.6
WINSLOW	54	1	1.3	1.0	LANSING	46	1	4.0	1.1	HARRISBURG	50	-2	2.7	-0.5
YUMA	72	2	0.6	0.5	MARQUETTE	38	1	1.5	-2.2	PHILADELPHIA	51	-2	2.9	-0.5
AR FORT SMITH	61	0	5.6	1.4	MUSKOGON	46	0	3.8	0.7	PITTSBURGH	49	-1	2.0	-1.3
LITTLE ROCK	62	-1	3.9	-1.5	SAULT ST. MARIE	39	1	2.2	-0.2	SCRANTON	47	-2	2.7	-0.4
CA BAKERSFIELD	64	2	1.3	0.6	MN ALEXANDRIA	46	4	0.5	-1.7	RI PROVIDENCE	47	-1	3.1	-0.8
EUREKA	53	3	2.1	-0.8	DULUTH	40	2	0.4	-1.7	SC CHARLESTON	64	0	3.2	0.7
FRESNO	62	2	2.4	1.3	INT'L FALLS	40	1	0.3	-1.3	COLUMBIA	62	-1	3.0	-0.6
LOS ANGELES	61	2	1.1	0.2	MINNEAPOLIS	47	2	1.5	-0.5	FLORENCE	63	-1	3.6	0.7
REDDING	60	0	3.3	0.5	ROCHESTER	44	-1	2.4	-0.1	GREENVILLE	59	-2	3.4	-0.9
SACRAMENTO	61	3	1.6	0.3	ST. CLOUD	45	2	0.7	-1.6	SD ABERDEEN	45	0	0.1	-1.8
SAN DIEGO	63	2	3.7	2.9	MS GREENWOOD	64	0	2.5	-3.0	HURON	46	1	2.1	0.1
SAN FRANCISCO	58	3	2.0	0.5	JACKSON	65	0	5.4	-0.3	RAPID CITY	48	3	0.6	-1.3
STOCKTON	61	2	2.0	0.6	MO COLUMBIA	54	-1	2.0	-1.9	SIOUX FALLS	46	0	3.0	0.7
CO DENVER	50	3	0.7	-1.1	KANSAS CITY	54	-2	2.2	-1.2	TN BRISTAL	54	-2	2.7	-0.8
GRAND JUNCTION	53	2	1.0	0.3	SAINT LOUIS	57	1	1.2	-2.4	CHATTANOOGA	60	0	3.3	-1.3
PUEBLO	52	1	0.7	-0.3	SPRINGFIELD	55	-1	3.8	-0.3	KNOXVILLE	57	-3	2.3	-1.5
CT BRIDGEFORD	48	0	1.6	-2.1	MT BILLINGS	49	4	1.8	-0.1	MEMPHIS	63	0	2.9	-2.9
HARTFORD	47	-2	2.4	-1.7	GLASGOW	47	4	0.3	-0.4	NASHVILLE	57	-3	2.1	-2.4
DC WASHINGTON	54	-2	2.0	-0.9	GREAT FALLS	47	4	0.8	-0.7	TX ABILENE	64	-1	2.1	-0.3
FL APALACHICOLA	68	0	3.8	0.5	HAVRE	47	4	T	-1.2	AMARILLO	54	-2	2.2	1.2
DAYTONA BEACH	69	-1	1.7	-0.6	HELENA	47	5	1.3	0.3	AUSTIN	69	0	2.0	-1.1
PT. MEYERS	74	1	1.3	-0.2	KALISPELL	48	5	0.9	-0.1	BEAUMONT	68	-1	2.6	-1.6
JACKSONVILLE	68	-1	3.4	0.4	MILES CITY	49	4	0.1	-1.3	BROWNSVILLE	73	-1	0.0	-1.6
KEY WEST	77	-1	0.6	-0.9	MISSOULA	48	4	0.7	-0.3	CORPUS CHRISTI	71	-2	0.5	-1.3
MIAMI	76	1	1.8	-1.4	NE GRAND ISLAND	50	0	2.4	-0.2	DEL RIO	70	-1	0.1	-1.7
ORLANDO	72	0	2.0	-0.2	LINCOLN	51	0	2.4	-0.4	EL PASO	61	-2	0.2	0.1
TALLAHASSEE	66	-1	3.8	-0.3	NORFOLK	49	0	2.3	0.1	FORT WORTH	65	-1	2.2	-1.9
TAMPA	70	-1	1.8	0.0	NORTH PLATTE	48	1	2.0	0.2	GALVESTON	69	0	5.3	2.6
WEST PALM BEACH	75	1	3.7	0.5	OMAHA	52	0	1.9	-1.1	HOUSTON	68	-1	1.3	-2.5
GA ATLANTA	63	1	6.2	1.8	SCOTTSDRUFF	47	1	2.3	0.8	LUBBOCK	60	0	1.1	0.0
AUGUSTA	62	-1	5.0	1.7	VALENTINE	46	0	1.9	0.1	MIDLAND	63	-1	0.1	-0.7
MACON	64	-2	5.2	1.7	NV ELKO	47	4	0.5	-0.3	SAN ANGELO	65	-2	1.4	-0.4
SAVANNAH	66	0	5.1	1.9	ELY	45	4	1.6	0.7	SAN ANTONIO	69	-1	1.2	-1.5
HI HILO	73	0	12.9	-1.5	LAS VEGAS	64	1	0.8	0.6	VICTORIA	69	-2	1.1	-1.5
HONOLULU	77	2	0.5	-1.0	RENO	52	5	1.0	0.5	WACO	67	-1	1.3	-2.5
KAHULUI	74	0	1.4	0.3	WINNEMUCCA	50	4	1.6	0.8	WICHITA FALLS	61	-2	2.2	-0.8
LIHUE	76	2	1.6	-1.7	NH CONCORD	44	0	2.8	-0.3	UT BLANDING	50	3	0.8	0.1
ID BOISE	53	4	1.8	0.6	NJ ATLANTIC CITY	49	-2	1.8	-1.4	CEDAR CITY	48	1	3.5	2.5
LEWISTON	54	3	1.1	0.0	NM ALBUQUERQUE	55	0	1.4	1.0	MILFORD	49	3	1.6	0.6
POCATELLO	49	4	1.0	-0.2	NY ALBANY	60	0	0.3	-0.1	SALT LAKE CITY	52	3	1.8	-0.4
IL CAIRO	—	—	3.3	-1.1	VT BURLINGTON	44	2	1.9	-0.8	VA LYNCHBURG	56	0	3.7	0.8
CHICAGO	48	0	2.1	-1.8	NORFOLK	56	-2	3.5	0.7	RICHMOND	56	-2	2.6	-0.3
MOLINE	51	0	1.4	-2.6	ROSWELL	60	0	2.2	-0.7	ROANOKE	55	-1	3.4	0.3
PEORIA	51	0	1.6	-2.2	ALBANY	46	0	2.8	-0.3	WA QUILLAYUTE	48	2	10.9	3.6
QUINCY	53	0	1.1	-2.7	BINGHAMTON	43	-1	2.8	-0.7	SEATTLE-TACOMA	50	2	3.2	0.8
ROCKFORD	48	0	3.1	-1.1	BUFFALO	46	0	3.0	-0.1	SPOKANE	49	3	2.2	1.1
SPRINGFIELD	53	-1	1.3	-2.7	NEW YORK	51	-1	2.1	-1.7	WALLA WALLA	56	4	3.0	1.6
IN EVANSVILLE	56	-1	1.8	-2.3	ROCHESTER	45	-1	2.3	-0.3	YAKIMA	51	2	1.4	0.9
FORT WAYNE	50	0	2.7	-0.9	SYRACUSE	46	0	2.7	-0.6	WV BECKLEY	50	-1	2.7	-0.7
INDIANAPOLIS	52	-1	4.0	0.4	NC ASHEVILLE	54	-2	3.5	0.0	CHARLESTON	54	-2	2.2	-1.3
SOUTH BEND	48	-1	2.9	-1.1	CHARLOTTE	61	0	2.3	-1.0	ELKINS	48	-1	3.1	-0.6
IA DES MOINES	51	1	0.8	-2.5	GREENSBORO	57	-1	2.6	-0.6	HUNTINGTON	54	-2	3.1	-0.4
DUBUQUE	48	1	2.2	-2.0	HATTERAS	58	-1	3.7	0.8	PARKERSBURG	52	-2	2.1	-1.3
SIOUX CITY	49	-1	2.5	0.2	NEW BERN	61	0	3.8	0.6	GREEN BAY	44	0	2.5	-0.2
WATERLOO	48	1	1.7	-1.8	RALEIGH	58	-2	3.6	0.7	LACROSSE	48	1	2.0	-1.0
KS CONCORDIA	53	0	1.0	-1.3	WILMINGTON	62	-1	3.6	0.6	MADISON	46	0	2.7	-0.4
DODGE CITY	52	-2	3.1	1.3	ND BISMARCK	45	3	0.1	-1.4	MILWAUKEE	46	1	4.1	0.8
GOODLAND	49	0	2.0	0.8	FARGO	44	2	T	-1.9	WAUSAU	45	1	1.7	-1.1
TOPEKA	54	-1	2.9	-0.2	GRAND FORKS	44	4	0.0	-1.3	WY CASPER	46	4	0.7	-0.8
WICHITA	54	-2	4.5	2.0	WILLISTON	45	3	0.2	-1.1	CHEYENNE	44	3	1.9	0.6
KY BOWLING GREEN	57	-1	2.5	-1.7	OH AKRON-CANTON	48	-1	2.8	-0.4	LANDER	49	7	0.9	-1.3
JACKSON	56	3	3.0	-1.0	CINCINNATI	52	-1	3.9	0.4	SHERIDAN	47	4	2.1	0.1
LEXINGTON	54	-1	2.9	-1.1	CLEVELAND	47	-1	3.5	0.2	FR SAN JUAN	81	2	4.1	0.5
LOUISVILLE	57	0	3.5	-0.6	COLUMBUS	50	-1	2.2	-1.2					
LA ALEXANDRIA	67	0	2.1	-3.5										

Based on 1951-80 normals.

National Agricultural Summary

May 2 to 8, 1988

HIGHLIGHTS: Precipitation provided much needed moisture in Montana, western North Dakota, South Dakota, Nebraska, and northern Kansas wheat producing areas. Corn planting surged ahead of normal in the major producing areas. Inadequate moisture restricted seed germination, planting, and crop growth in some Corn Belt States. Soil moisture was becoming increasingly short throughout most of the eastern half of the Nation. Farmers were able to work 6 to 7 days in most areas but were restricted to less than 4 days in the central Atlantic Coast States.

Corn was 70 percent (%) seeded, jumping 34 percentage points from the previous week. Planting was 1 point slower than in 1987 but 25 points ahead of the 5-year average. Soybean planting gained 12 points and was 6 points above the 8% average. Seeding progressed rapidly in the Corn Belt. Cotton planting progressed normally at 46% completion. Heavy reseeding was underway in some areas of California. Sorghum seeding reached 24% completion, equaling the average. Rice was 73% seeded and 33% emerged. Spring wheat was 87% seeded and 47% emerged. Winter wheat heading lagged 9 points behind normal. Tobacco transplanting was underway in Kentucky.

SMALL GRAINS: Winter wheat was mostly good to fair except in the northern Great Plains where condition was mostly fair. Rain provided much needed moisture in the northern and central Great Plains. Heading was 19% finished compared with 32% in 1986 and 28% normally. Heading was behind normal in 7 of the 20 major producing States and had not begun in Colorado, Idaho, Michigan, Montana, Nebraska, Ohio, South Dakota, and Washington.

In Texas, small grain harvest progressed without much delay at Coastal Bend and in southern areas. Hot, dry weather caused fields to turn color in central areas. Dryland fields were under moisture stress. Oklahoma's wheat encountered weed, disease, and nitrogen shortage problems in major producing areas. Wheat entered the soft dough stage in southern areas of the State. Disease and insects continued posing problems for Kansas wheat growers. Heading was underway but lagged 15 points behind the 20% average. Russian wheat aphids increased in Nebraska's western Panhandle. Streak mosaic disease problems continued in the Panhandle and southwestern and east-central areas. Rain benefited wheat in some areas of South Dakota, but others remained very dry.

Cool temperatures slowed winter wheat growth in Washington. Small grain harvest was underway in Arizona.

Spring wheat seeding advanced 9 points to 87% completion. Planting was 4 points ahead of 1987 and 24 points above the average. Seeding was finished in South Dakota and neared completion in Minnesota. Moisture pushed spring wheat emergence 28 points ahead of the previous week and 18 points ahead of average.

CORN: Corn planting surged 34 points ahead of the previous week and was 25 points ahead of normal. The 70% completion was only 1 point slower than last year's rapid pace. Seeding neared completion in Georgia, Illinois, and Texas. In Iowa, seeding went from 30% finished the previous week to 80% this week. Minnesota corn producers planted 53% of their acreage in 1 week. Illinois gained 35 points, Indiana 47, Michigan 40, Ohio 38, and Wisconsin 34. Cooler nights slowed corn emergence in Texas. Dry weather slowed growth in the Blackland and central areas. Dry and cold soils slowed emergence in Ohio.

SOYBEANS: Soybeans were 21% planted in the 19 major producing States, 6 points above normal. Seeding ranged from none seeded in South Carolina to 26% finished in Ohio. Planting was near or above the 20% completion mark in most Corn Belt States. Planting progressed slightly ahead of normal in the central Great Plains and Delta.

COTTON: Cotton was 46% seeded, surpassing the average by 3 points, but trailed 1987 by 2 points. At least one-fifth of the acreage was planted in Alabama, Arkansas, Georgia, Louisiana, Mississippi, Missouri, North Carolina, South Carolina, and Tennessee. Most cotton fields were squaring in the Rio Grande Valley and southern Texas. Dryness caused some replanting in the Trans-Pecos area. California cotton producers reseeded as much as 40% of their acreage in some areas. Squaring was underway in western Arizona. Most fields were recovering from previous rains and cool weather.

SORGHUM: Sorghum seeding pulled even with 1987 and the average at 24% completion. Seeding was just beginning from Oklahoma through the central and northern Great Plains. In Mississippi, Arkansas, and Texas, nearly two-thirds of the acreage was planted in each State. Louisiana seeding jumped 33 points from the previous week to 68% completion but still lagged 1 point behind normal.

OTHER CROPS: Rice ended the week 73% seeded and 33% emerged. Seeding was 13 points above normal, but emergence was 7 points behind normal. Louisiana rice was 82% seeded, equaling the average. Cool weather slowed seeding and emergence in California.

Peanut planting lagged behind normal in the Southeast and Texas. North Carolina's seeding was 5% finished, compared with 34% normally. In Virginia, seeding was 28 points behind normal at 42% completion.

Flue-cured tobacco transplanting was finished in Georgia and neared completion in South Carolina. Virginia was off to a slow start with transplanting 11 points behind normal. Burley tobacco setting was underway in Kentucky.

FRUIT AND NUTS: Windy, dry conditions caused irrigation in Florida's citrus producing areas. Citrus trees continued dropping unwanted new crop fruit. Valencia orange harvest was active, but grapefruit movement slowed. Texas citrus producers applied insecticides in some groves. Irrigation was heavy to maintain adequate moisture. Rain caused early cherries to split in California's Lodi District. Cool temperatures delayed Bing cherry harvest. Gusty winds caused stone fruit droppage and scarring. Growers suspended thinning in some areas as a result of the fruit droppage. Table grape harvest began in the Coachella Valley.

VEGETABLES: Seasonal vegetable harvest neared completion in southern Florida but was active in central areas. Tomatoes, potatoes, sweet corn, celery, and cabbage were volume leaders. Melon harvest began in the Rio Grande Valley. Vegetables progressed well in most areas. In California, early melons were replanted and processing tomatoes bloomed in the Sacramento Valley. Vegetable harvest was active in most areas.

PASTURES AND LIVESTOCK: Pastures were mostly fair. Inadequate moisture hampered growth in most of the eastern half of the Nation. Livestock was mostly good.

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 averaged 0.50 in. or less north, near 1.00 in. isolated areas; none most areas south. Temperatures averaged 2 to 4° below normal.

Days suitable for fieldwork 6.3. Soil moisture 55% short, 45% adequate. Field activities continued normal pace; dry conditions slowed seed germination some areas. Acreage intended for spring planting 92% prepared, 90% 1987. Corn 95% planted, 94% 1987, 87% avg. Sorghum 28% planted, 22% 1987, 24% avg. Cotton 88% planted, 85% 1987, 65% avg. Peanuts 56% planted, 37% 1987, 49% avg. Soybeans 13% planted, 10% 1987, 8% avg. Wheat 90% headed, 88% 1987, 83% avg.; 30% turning color, 25% 1987, 22% avg.; 31% fair, 65% good, 4% excellent. First hay 16% harvested, 18% 1987, 14% avg. Livestock, pastures mostly good to fair. Primary activities: Land preparation, seeding spring crops; planting, harvesting vegetables; cutting, baling hay; fertilizing pastures; spraying fruit, pecan trees; harvesting small grain silage; building fish ponds, harvesting fish; thinning peaches; general care livestock, poultry.

ARIZONA: Strong cold front 1st. Snow showers north, central mountains. High pressure, clear skies, warming trend 2nd to 4th. Strong, cold low pressure system 5th; strong winds 25 to 55 mph. Cold, windy weather 7th; sunshine south, partly cloudy north. Average temperatures 3 to 9° below normal.

Cotton planting advanced 89% statewide; 4% below 1987, 6% below avg.; 30% squaring west. Crop fair to good; most fields recovered from previous rains, cool weather. Weed, insect infestations minimal to nonexistent. First cuttings alfalfa east. Some frost damage evident. Additional cuttings made elsewhere; crop fair to good. Statewide 98% small grains heading, 50% turning color, 1% harvested. Statewide crop fair to good. Artichoke harvest, shipping Parker area. Peaches, apricot harvest underway Parker. Table potato harvest west, peach shipments Red Mountain area. Chipper potato harvest begun Queen Creek area. Harvested other mixed vegetables Salt River Valley. Head lettuce harvest finishing within next week Aguila. Late spring freeze 2nd virtually destroyed apple crop eastern areas. Producers estimate 90% loss. Head lettuce harvest should begin in 2 weeks. Grapefruit shipments continued west. Valencia orange harvest, shipping continued central.

ARKANSAS: Cool, dry with light rain early. Temperature extremes 36°; 89°. Rainfall totals none to 0.89 in.

Days suitable for fieldwork 7.0. Soil moisture supplies 80% short, 20% adequate. Moisture needed for planting, germination to continue. Cotton 14% emerged, 30% 1987, 19% avg. Cotton 5% poor, 43% fair, 52% good. Sorghum 36% emerged, 44% 1987. Sorghum 2% poor, 37% fair, 61% good. Rice 8% poor, 25% fair, 67% good. Corn 98% planted, 91% 1987, 84% avg. Corn 31% fair, 61% good, 8% excellent. First hay cutting continued. Hay mostly good. Peach spraying, strawberry harvest continued. Fruit setting on tomatoes. Pastures supplying average feed. Livestock good, some problems from fleas, ticks, flies.

CALIFORNIA: State received some much needed rain, week cool. Temperatures average 2 to 8° below normal. Most northern areas locations about 70% of normal precipitation.

Activity increased, fields dried. Cotton seeding, reseeding active. Reseeding to 40% previous seeded some areas. Seeding rice full swing, cool slowed somewhat. Emergence slow, cool. Some reseed expected, cool, wind. Treated rice watergrass, shrimp, midges. Hay, green-chop, silage harvest small grains active. Rodent control seed alfalfa. Wind, rain caused some deciduous fruit crop damage. Some wine grape frost damage, foothill counties. Subnormal temperatures slowed crop development. Cherry crop hardest hit by rain. Early cherries showed splitting, Lodi District. Cool temperatures delayed Bing cherry harvest. Gusty winds caused some fruit droppage, scarring, stone fruits. Growers suspended some thinning, stone fruits. Control materials applied to prevent mildew, brown rot in vineyards and stone fruits. Coachella Valley table grape harvest began. Kiwifruit bloomed. Pear crop excellent. Almonds treated for peach twig borer. Heavy pistachio nut set. Artichoke harvest continued, good quality, Castroville; harvest active San Mateo. Asparagus cut Sacramento Valley, Delta, southern areas. Broccoli harvest continued Salinas, Santa Maria, Merced-Atwater, Westside. Cauliflower movement continued Salinas, Santa Maria. Carrot digging continued Riverside. Celery harvest active south coast. Lettuce supplies moderate, variable quality Salinas. Lettuce harvest active Firebaugh District. Early melon fields replanted Sacramento Valley due to excessive moisture. Sweetpotato planting continued Merced-Atwater. Strawberry volume decreased Salinas, Santa Maria harvest slow south coast. Fresh tomatoes planted Merced-Atwater. Early processing tomato plants bloomed Sacramento Valley. Livestock fair to good statewide. Range, pasture fair most areas, benefitting from storm. Few areas poor despite rain. Cattle movement slowed. Supplemental feeding continued some areas. Water supply low.

COLORADO: Windy conditions, snow, rain. Precipitation none to 2.58 in. Average temperatures 3° above to 4° below normal.

Days suitable for fieldwork 4.1. Soil moisture supplies 3% very short, 46% short, 48% adequate, 3% surplus. High winds caused plant stress, wind erosion. Winter wheat 45% jointed. Corn plantings neared midpoint. Oats 73% planted, 56% emerged. Sugarbeet planting complete. Summer potatoes 76% planted, 10% emerged. Livestock good. Calving 91%, lambing 88% complete. Stored feed supplies adequate. Ranges, pastures good.

FLORIDA: Weak cold front cleared State early week; light rain south 2nd. High pressure dominated remainder of period; no measurable rain. Temperatures statewide averaged below normal, ranging from slightly below normal south, up to 8° below normal north.

Soil moisture mostly short Panhandle, upper Peninsula; mostly adequate lower Peninsula. Cotton, peanut planting active. Land preparation soybeans, sorghum continued. Irrigation active tobacco. Blowing sand damaged some tobacco. Wheat good. Corn, sugarcane good growth. Rains 30th to 1st improved pastures; however, sunny days, strong winds dried topsoils rapidly, combined with cool nights to limit forage growth. Grazing poor to fair; few coastal areas good or better. Cattle fair to good, good weight gains in better grazing areas. Citrus groves windy, dry; irrigation all

areas. Trees continued dropping unwanted new crop fruit. Fruit good. Valencia harvest active. Grapefruit movement slowed. Honey tangerine harvest nearly completed. Vegetable areas cooler than normal. Very limited rainfall. Crops fair to good. Harvest many crops neared completion south, continued active central. Volume leaders: Tomatoes, potatoes, sweet corn, cucumbers, peppers, watermelon, celery, cabbage. Also good volume squash, snap beans, lettuce, carrots, eggplant, radishes. First zellwood corn pulled.

GEORGIA: Rainfall 0.05 in north, central; south less than 0.25 in., near 1.00 in. east central. Rain 1 day except 2 to 3 days extreme northwest. Temperatures 2 to 5° below normal. Minimum temperature mid 40s to low 50s, some 30s mountains. Maximum temperature low to mid 80s, upper 80s south.

Days suitable for fieldwork 5.4. Soil moisture 26% short, 70% adequate, 4% surplus. Corn 30% fair, 63% good, 7% excellent. Cool night slowed development. Cotton 1% very poor, 7% poor, 47% fair, 45% good. Sand blasting, cool nights hampered development, germination. Sorghum planting behind average, mostly good. Peanut planting very active; 56%, 39% 1987, 56% avg. Fair to mostly good. Soybeans fair to good. Tobacco mostly good, 100% transplanted. Watermelon fair to mostly good; progress average. Other small grains good. Peaches, apples good. Pastures mostly good. Livestock good.

HAWAII: Fair weather, limited agricultural progress. Leeward areas, overcast and warm early in week. Clear midweek; hot, humid. Windward areas, showers of light to moderate intensity halted field activities temporarily. Crops, benefitted from rains. Variable winds 5 to 20 mph. Temperatures high 60s to mid-80s. Rainfall none to 4.30 in.

Chinese cabbage production decreased. Seasonal shipments to mainland ended. Head cabbage harvesting steady, good quality. Head lettuce output lower, warm weather expected to reduce yield for remainder of year. Tomato production lower, fields past peak harvest. Ginger root planting interrupted by rain. Growth on next season's crop benefitted from rains. Watermelon harvesting very active, above year ago level. Banana production steady. Papaya production picked up.

IDAHO: Temperatures below normal. Precipitation below normal north, south central, near normal southwest. Southeast varied.

Days suitable for fieldwork 5.0. Soil moisture 35% short, 65% adequate. Irrigation water supplies fair, good. Spring wheat 87% seeded, 99% 1987, 76% avg.; 61% emergence. Spring wheat good; winter wheat good, 28% joint. Barley 82% seeded, 95% 1987, 60% avg.; 56% emerged. Oats 73% seeded, 94% 1987. Potatoes 50% planted, 71% 1987, 42% avg.; emergence minimal. Sugarbeet growers reseeding frozen fields. Sugarbeets thinned in warmer locations. Dry peas, lentils 58% seeded, neared completion. Corn 50% seeded, 68% 1987; emergence minimal. Some fruit trees damaged by frost. Livestock good.

ILLINOIS: Temperature highs averaged 3 to 8° above normal, lows averaged 2° below to 2° above normal. Precipitation averaged 0.25 to 1.00 in. far south, 0.40 to 0.80 in. elsewhere.

Days suitable for fieldwork 6.8. Soil moisture 84% short, 16% adequate. Oats 1% poor, 39% fair, 57% good, 3% excellent. Alfalfa 1st cut 5%, 5% 1987, 3% avg.; 1% poor, 18% fair, 74% good, 7% excellent. Pasture 4% poor, 39% fair, 54% good, 3% excellent; supplying livestock roughage requirement 72%, 80% 1987, 74% avg.

INDIANA: Temperatures 2 to 7° above normal. Lows low to mid 30s, highs above 80s. Precipitation below normal. Totals 0.10 to 0.50 in. Soil temperatures above normal.

Days suitable for fieldwork 6.8. Topsoil moisture 85% short, 15% adequate. Subsoil moisture 43% short, 56% adequate, 1% surplus. Spring cropland 96% tilled, 96% 1987, 87% avg. Wheat height 14 in., 15 in. 1987, 14 in. avg.; 75% jointed, 75% 1987, 68% avg. Oats 99% seeded, 99%, 1987, 89% avg. Oats height 5 in., 6 in. 1987, 5 in. avg. Pastures 2% very poor, 21% poor, 55% fair, 22% good. Favorable weather provided farmers excellent week for field activities. Soils dry most areas.

IOWA: Temperatures averaged 6 to 8° above normal. Rainfall averaged 0.50 to 1.00 in. east, less than 0.30 in. southwest, extreme northwest.

Days suitable for fieldwork 6.8. Topsoil moisture 86% short, 14% adequate; subsoil moisture 46% short, 54% adequate. Oats 2% very poor, 10% poor, 42% fair, 41% good, 5% excellent. Hay 2% very poor, 21% poor, 41% fair, 32% good, 4% excellent. Oats 88% emerged, 89% 1987, 65% avg. Corn 8% emerged, 25% 1987, 12% avg. Seedbed preparation 98%; fertilizer application 95%, 93% 1987, 82% avg. Livestock mostly good to excellent. Farmers supplementing hay for cattle because pastures very short. Pasture 7% very poor, 25% poor, 41% fair, 24% good, 3% excellent.

KANSAS: Temperatures averaged upper 50s northwest to mid 60s east. East 3 to 5° above normal, elsewhere within 1 to 2° of normal. Precipitation heaviest northwest, 1.00 to 2.00 in., isolated areas 3.00 in. north, central 0.50 to 1.50 in., elsewhere 0.25 to 0.50 in.

Days suitable for fieldwork 4.0. Topsoil moisture 24% short, 64% adequate, 12% surplus. Subsoil 22% short, 72% adequate, 6% surplus. Wheat 5% heading, 30% 1987, 25% avg. Wheat 90% jointing, 95% 1987, 85% avg. Russian wheat aphid light to moderate west. Wheat streak mosaic moderate to severe central, west, light elsewhere. Corn planting good progress, emergence slow. Sorghum, soybean planting started east and southern counties, progress normal. Alfalfa weevil widespread; damage light to severe. First cutting alfalfa hay underway southeast. Range, pastures good statewide, best condition noted southeast, worst northwest, west.

KENTUCKY: Mild afternoons, cool nights. Highs 70s to lower 80s. Nighttime lows averaged 40s. Rain 3rd, 4th. Average rainfall 0.50 to 1.00 in., heaviest 1.50 to 2.00 in. More showers, thundershowers developed 8th.

Days suitable for fieldwork 4.1. Soil moisture 6% very short, 62% short, 32% adequate. Land preparation, planting row crops, caring for tobacco beds primary activities. Emerged corn fair to good, 33% planted, emerged. Early tobacco setting underway. Plants in beds 3% poor, 35% fair, 57% good, 5% excellent. Plants 13% height greater 4 in., 37% 2 to 4 in. Fruits fair, some freeze damage. Wheat fair to mostly good, 40% headed. Pastures 2% very poor, 10% poor, 61% fair, 25% good, 2% excellent. Rain beneficial, more needed.

LOUISIANA: Temperature extremes 3 to 5° below normal. Temperature extremes 41°, 88°. Rainfall averaged none to 0.12 in. Limited to northern half.

Days suitable for fieldwork 6.4. Soil moisture 10% very short, 52% short, 38% adequate. Spring plowing 97%, 95% 1987, 93% avg. Corn fair; 98% planted, 97% 1987, 95% avg.; 93% emerged, 89% 1987, 90% avg. Cotton 34% emerged; sorghum 46% emerged; both well behind normal. Sweetpotatoes 18% planted, 14% 1987 25% avg. Winter wheat fair to

good; 99% headed, 97% 1987, 96% avg.; 48% turning color, 55% 1987, 55% avg. Hay 1st cutting 23%, 18% 1987, 19% avg. Livestock, sugarcane good. Vegetables, pastures fair to good. Harvesting strawberries, crawfish, vegetables. Wheat scab east central, southwest. Main activities: Spring plowing; fertilizing pastures; planting corn, cotton, rice, sorghum, sweetpotatoes, vegetables; cutting hay.

MARYLAND & DELAWARE: Maryland: Precipitation averaged 1.54 in. Average temperature 54°, normal 59°. General temperature extremes 33°; 70°. Mountain extremes 27°; 66°.

Days suitable for fieldwork 3.2. Topsoil moisture 70% adequate, 30% surplus. Subsoil moisture 20% short, 80% adequate. Acreage 80% prepared for planting, 80% avg. Corn 40% planted, 50% avg. Watermelons, cantaloupes 45% planted, 55% avg. Wheat, oats, barley, rye good. Barley 60% headed, 70% avg.

Delaware: Precipitation averaged 1.58 in. Average temperature 54°, normal 60°.

Days suitable for fieldwork 2.8. Topsoil moisture 70% adequate, 30% surplus. Subsoil moisture adequate. Acreage 70% prepared for planting, 80% avg. Corn 45% planted, 55% avg. Potatoes 100% planted, 95% avg. Wheat, barley, rye good.

MICHIGAN: Temperatures ranged 3 to 10° above normal. Temperature extremes 28°; 80°. Precipitation ranged none to 0.07 in. across State.

Days suitable for fieldwork 7.0. Soil moisture 50% short, 50% adequate. Corn 45% planted, 60% 1987, 30% avg. Oats 90% planted, 98% 1987, 75% avg. Potatoes 50% planted, 35% 1987, 30% avg. Soybeans 5% planted, 5% 1987, 2% avg. Wheat 1% very poor, 9% poor, 25% fair, 45% good, 20% excellent. Activities: Spring tillage, fertilizer application, corn, soybean, barley, oats, potatoes, sugarbeet planting. Warm weather helped fruit development. Asparagus harvest started. Tomato planting active.

MINNESOTA: Temperatures averaged 6 to 13° above normal. Temperature extremes 30°; 84°. Precipitation averaged 0.03 to 0.55 in. below normal northern third, western third; near normal to 0.12 in. above normal elsewhere. Greatest weekly total 2.62 in.

Days suitable for fieldwork 6.5. Topsoil moisture 50% very short, 33% short, 17% adequate. Spring wheat 98% planted, 98% 1987, 67% avg.; 54% emerged, 70% 1987, 30% avg. Oats 95% planted, 98% 1987, 74% avg.; 72% emerged, 81% 1987, 40% avg. Barley 97% planted, 97% 1987, 62% avg.; 46% emerged, 64% 1987, 26% avg. Corn 91% land prepared, 94% 1987, 56% avg.; 74% planted, 83% 1987, 36% avg.; 5% emerged, 20% 1987, 5% avg. Soybeans 53% land prepared, 67% 1987, 27% avg.; 17% planted, 27% 1987, 8% avg. Sunflowers 23% planted, 32% 1987, 8% avg. Flax 23% planted, 36% 1987, 13% avg. Sugarbeets 99% planted, 97% 1987, 64% avg. Potatoes 43% planted, 57% 1987, 26% avg. Dry edible beans 16% planted, 20% 1987, 7% avg. Green peas 79% planted, 79% 1987, 52% avg. Sweet corn 35% planted, 39% 1987, 16% avg. Spring wheat 5% very poor, 19% poor, 47% fair, 26% good, 3% excellent.

MISSISSIPPI: Cooler than normal with fair skies. Extremes 38°; 93°. Greatest weekly rainfall 0.52 in.

Days suitable for fieldwork 6.4, 3.8 1987, 4.4 avg. Soil moisture down; 10% very short, 60% short, 25% adequate, 5% surplus. Planting ahead of normal for all crops. Some emergence problems due to lack of moisture. Corn mostly good; 86%

planted, 90% 1987, 81% avg.; 71% emerged, 72% 1987, 64% avg. Wheat good; 94% heading, 96% 1987, 90% avg.; 1% mature, 5% avg. Sorghum 63% planted, 46% 1987, 41% avg.; 40% emerged, 28% 1987. Rice 83% planted, 76% 1987, 69% avg.; 38% emerged, 24% 1987, 42% avg. Cotton 69% planted, 63% 1987, 53% avg.; 25% emerged, 30% 1987, 28% avg. Soybeans 7% planted, 5% 1987, 5% avg. Hay 13% harvested, 9% 1987. Peaches 5% very poor, 5% poor, 40% fair, 45% good, 5% excellent. Watermelon, peanut, sweetpotato planting ahead of avg. Pasture, livestock fair to good.

MISSOURI: Temperatures 3 to 4° above normal northern, central sections; 3 to 4° below normal south. Precipitation 0.25 to 0.50 in., some localized heavier amounts.

Days suitable for fieldwork 5.7. Topsoil moisture 67% short, 33% adequate, driest north central, northeast. Tillage for spring crops 91%, 86% 1987, 74% avg. Alfalfa hay 1st cutting 3%, 5% 1987, 4% avg. Pasture, hay, crop growth slowed by moisture shortage. Pastures 7% very poor, 22% poor, 41% fair, 29% good, 1% excellent.

MONTANA: Major storm across State late week heavy rain central areas. South central received heaviest amounts 2.00 to 5.00 in. Parts of southwest, central, north central received 3.00 to 5.00 in. North central remained dry. West received 0.75 in.; northeast, southeast light to moderate amounts. Temperatures 2 to 4° below normal except extreme east where temperatures 3° above normal.

Days suitable for fieldwork 5.0. Topsoil moisture 52% short, 46% adequate, 2% surplus. Subsoil moisture 65% short, 33% adequate, 2% surplus. Barley 85% planted, 68% 1987, 69% avg. Barley 39% emerged. Oats 79% planted, 55% 1987, 59% avg. Sugarbeets 95% planted, 85% 1987, 73% avg. Cattle 40% moved to summer ranges, sheep 42% moved. Hay, range grass compared with normal, slow 60%, 36% avg., 4% above. Stockwater supplies 57% short, 43% adequate.

NEBRASKA: Mild, showers and thunder storms beginning and end. Rainfall ranged 0.33 to 3.00 in. Average temperatures 3° below normal to 6° above. Extremes 26°; 83°.

Days suitable for fieldwork 3.4. Topsoil moisture 20% short, 72% adequate, 8% surplus. Subsoil moisture 20% short, 79% adequate, 1% surplus. Winter wheat 55% jointed, 79% 1987, 45% avg. Streak mosaic problems continued in Panhandle, southwest, east central. Russian wheat aphid populations present, increased western Panhandle. Corn 9% emerged, 18% 1987, 10% avg. Emergence slowed by cool soil temperatures. Oats 98% seeded, 96% 1987, 88% avg. Rainfall improved condition, growth of winter wheat, alfalfa, pasture grasses. Alfalfa hay 22% fair, 68% good, 10% excellent. Wild hay fair to good. Pasture, range feeds adequate. Cattle, calves moved to pasture and doing well. No major livestock problems.

NEVADA: Low pressure system produced cool, windy weather, occasional showers. Average temperatures 5 to 10° below normal. Extremes 12°; 85°. Precipitation all areas, heaviest northeast.

Potato planting continued, emergence slow due low temperatures. Below normal temperatures not favorable growth small grains, alfalfa. Inclement weather hard on newborn calves, lambs.

NEW ENGLAND: Precipitation averaged trace northern Maine, northern Vermont; slightly over 1.00 in. western Connecticut, 0.25 to 0.50 in. remainder. Temperatures averaged 2 to 4° above normal north, 1 to 3° below normal south.

Days suitable for fieldwork 5.0. Soil moisture 75% adequate, 25% surplus. Grazing availability 31% short, 69% adequate. Fieldwork progress on schedule. Maine potatoes 5% planted, 5% 1987, 3% avg. Rhode Island potatoes 30% planted, 35% 1987, 50% avg. Connecticut River Valley potatoes 40% planted, 25% 1987, 30% avg. Oats 15% sown, 20% 1987, 10% avg. Field corn 15% planted, 10% 1987, 10% avg. Sweet corn 15% planted, 15% 1987, 15% avg.; 10% emerged, 15% 1987, 10% avg. Hay good. Fruit trees bud stage. Blueberries, strawberries in bud. Major farm activities: Plowing, fertilizing, liming, planting corn and potatoes, spraying fruit.

NEW JERSEY: Temperatures averaged much below normal. Extremes 32°; 80°. Rainfall averaged 0.86 in. north, 1.18 in. central, 1.31 in. south. Heaviest 24-hour total 1.00 in. on 5th, 6th. Estimated soil moisture percent field capacity averaged 98% north, 96% central, 94% south. Four inch soil temperatures averaged 52° north, 53° central, 54° south.

Warmer weather advanced crop growth. Soil moisture adequate to excessive. Soil preparation field crops, soybeans active. Sweet corn planting began. Hay growth improved, some cut. Leaf lettuce harvest increased. Asparagus harvest began. Irish potato growth increased. Peaches, strawberries in bud. Blueberry bloom continued; grape bloom began.

NEW MEXICO: Average temperatures near normal. Western areas dry; eastern portions received showers, thundershowers.

Days suitable for fieldwork 6.6. Soil moisture 64% short, 36% adequate. Barley 40% fair, 60% good. Wheat 28% poor, 43% fair, 29% good; 55% heading. Cotton 80% planted, some fields replanted because cooler than normal temperatures affected germination. Onions 40% fair, 60% good. Lettuce 100% fair; harvest well underway. Cattle 10% poor, 40% fair, 50% good. Sheep 38% fair, 62% good. Range 10% poor, 80% fair, 10% good.

NEW YORK: Temperatures averaged within few degrees of normal. Low 25° Raybrook, high 80° Massena. Precipitation well below normal except southeast areas, Catskills, lower Hudson Valley.

Days suitable for fieldwork 5.0. Soil moisture adequate. Fieldwork progressed rapidly. Oats 59% seeded, 52% 1987, 55% avg. Corn 10% seeded, 9% 1987, 13% avg. Hay growth continued slow.

NORTH CAROLINA: Temperatures averaged 3 to 6° below normal across State. Temperature extremes 32°; 83°. Precipitation 0.12 to 2.36 in.

Days suitable for fieldwork 4.8. Soil moisture 2% very short, 35% short, 56% adequate, 7% surplus. Oats 2% poor, 27% fair, 71% good. Barley 31% fair, 69% good. Rye 2% poor; 27% fair, 64% good, 7% excellent. Pasture 2% poor, 24% fair, 72% good, 2% excellent. Tobacco 49% transplanted, 39% 1987, 49% avg. Tobacco plantbeds 2% poor, 26% fair, 70% good, 2% excellent. Tobacco plant supply 18% short, 82% adequate. Peanuts 5% planted, 18% 1987, 34% avg. Irish potatoes 12% fair, 82% good, 6% excellent. Peaches 6% very poor, 6% poor, 17% fair, 71% good. Truck crops 9% poor, 27% fair, 64% good. Sorghum 35% planted, 15% 1987, 22% avg. Major farm activities: Planting corn, sorghum, cotton, peanuts; preparing land for spring planting; tending tobacco plantbeds; bedding land for tobacco transplanting; transplanting tobacco, peppers, truck crops; fertilizing, spraying nursery crops; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures averaged 10° above normal southwest to 10° above normal east central. Extremes 25° west central, northeast; 84°

northeast, southeast. Precipitation varied; 0.13 in. east central to 1.18 in. southwest.

Days suitable for fieldwork 5.7. Topsoil moisture below average; 13% very short, 61% short, 26% adequate. Subsoil moisture below average; 28% very short, 46% short, 26% adequate. Winter wheat 29% very poor to poor, 59% fair, 12% good; 17% jointing and beyond. Spring planting remained ahead of normal pace. Spring wheat 79% planted, 79% 1987, 54% avg.; durum 54%, 66% 1987, 40% avg.; barley 77%, 81% 1987, 52% avg.; oats 72%, 76% 1987, 51% avg.; corn 23%, 32% 1987, 14% avg.; flax 13%, 24% 1987, 13% avg.; soybeans 7%, 10% 1987, 5% avg.; potatoes 30%, 28% 1987, 18% avg.; sunflower 2%, 5% 1987, 2% avg.; dry edible beans 3%, 3% 1987, 2% avg.; sugarbeets 100%, 99% 1987, 71% avg. Extreme high winds caused soil erosion. Pastures very poor to poor.

OHIO: Average temperatures near normal. Extremes lower 30s to lower 80s. Precipitation 0.50 to 0.75 in. southeast; 0.25 in. or less elsewhere. Soil temperatures ranged upper 40s to upper 70s; average ranged mid 50s to lower 60s.

Days suitable for fieldwork 5.9. Soil moisture 51% short, 45% adequate, 4% surplus. Farm activities: Soil preparation, herbicide application, planting, harvesting forages. Crop emergence slow because of dry, cold soils; late week brought higher temperatures, some rain. Some soybean planting postponed waiting for better conditions. Small grains, grasslands fair to good. Some alfalfa southeast sprayed for weevil control. Cutworms feeding in tobacco plantbeds.

OKLAHOMA: Temperatures averaged 3° below normal Panhandle to 1° above normal east central. Precipitation averaged none western third to 0.20 in. northeast.

Days suitable for fieldwork 5.4. Topsoil moisture 25% short, 70% adequate, 5% surplus. Subsoil moisture 3% short, 97% adequate. Wheat 80% good, 20% excellent; 50% heading, 75% 1987, 55% avg. Entering soft dough south. Weeds, diseases, nitrogen shortage problems major producing areas. Sorghum 5% planted, 5% 1987, 10% avg. Cotton 20% planted, 5% 1987, 10% avg. Peanuts 5% planted, 10% 1987, 5% avg. Soybeans 10% planted, 20% 1987, 10% avg. Corn 90% planted, 90% 1987, 60% avg. Rain needed southeast for field preparation, planting. Pastures good. Cattle good; marketings average, prices up slightly from preceding week.

OREGON: Considerable moisture west 2.10 in. coast; 1.80 in. high plateau; 1.10 to 1.40 in. western valleys, north Cascades. Light rainfall east did little to relieve dry conditions. Central areas 0.10 in., extreme east 0.30 to 0.40 in. Temperatures below normal across State; 3 to 6° below normal west, 7 to 10° below normal east.

Soil moisture 21% short, 66% adequate, 13% surplus. Barley 97% planted, 96% 1987, 96% avg. Cool, rainy weather continued crop improvement west, less so east particularly southeast of Blue Mountains. Many locales across State fieldwork slowed by rain showers. Septoria sprays applied to winter wheat west. Grass seed, clover seed continued good. Peas good to excellent Umatilla County. Corn for silage planting continued Medford, field corn 67% planted Hermiston, early fields emerged Malheur County. Alfalfa irrigation began southeast; crop 6 to 7 in. tall Klamath Basin, harvest started Hermiston-Boardman area. Sugarbeet replanting after freeze continued Malheur County. Cool weather held back fruit, berry development. Stone fruit showed some brown rot due to rains west. Growers applied thinning sprays to apples Milton-Freewater. Inclement weather not beneficial for orchards still blooming higher elevations Hood River Valley; some spraying for scab control; some heating morning of 3rd.

Strawberries blooming southwest. Some hail damage to cranberries south coast; black vine weevil problem widespread. Processing vegetable plantings way behind schedule due to wet weather west; fields that are in had good growth spurt. Onions 75% sown west. Walla Walla sweet onion excellent Milton-Freewater. First sweet corn sowing Willamette Valley, sowing continued Medford. Potato planting completed Hermiston, continued Malheur, underway Klamath. Watermelons up, growing slowly Hermiston; some replanting. Asparagus quality excellent Umatilla County. Livestock mostly good. Western pastures mostly good. Southwestern rangeland drier than normal, rain helped but much drier than elsewhere in west. Eastern rangeland much improved except at lowest elevations. Concern for stockwater, particularly southeast of Blue Mountains.

PENNSYLVANIA: Cool, dry conditions continued to start week; rainfall end of week; clear, warm weather on weekend. Average temperature 53°, 1° above normal. Temperature extremes 28°, 79°. Average precipitation 0.77 in., 0.05 in. below normal.

Days suitable for fieldwork 4.0. Soil moisture 33% short, 60% adequate, 7% surplus. Plowing 78%, 77% 1987, 66% avg. Corn 24% planted, 28% 1987, 23% avg. Soybeans 4% planted, 19% 1987, 9% avg. Oats 85% planted, 84% 1987, 75% avg. Potatoes 62% planted, 64% 1987, 50% avg. Tobacco beds 100% planted, 98% 1987, 97% avg. Barley 80% pre-boot, 59% 1987, 69% avg.; 14% boot, 27% 1987, 19% avg.; 6% heading or headed, 14% 1987, 12% avg. Wheat 95% pre-boot, 82% 1987, 88% avg.; 5% boot, 18% 1987, 11% avg. 0% heading or headed, 0% 1987, 1% avg. Wheat 1% very poor, 7% poor, 29% fair, 49% good, 14% excellent. Oats 3% poor, 36% fair, 53% good, 8% excellent. Hay stands mostly fair to good. Feed from pastures mostly below average to average. Peaches 23% pre-pink, 4% 1987, 10% avg.; 16% pink, 12% 1987, 17% avg.; 61% full bloom or past, 84% 1987, 73% avg. Cherries 31% pre-pink, 2% 1987, 7% avg.; 12% pink, 9% 1987, 16% avg.; 57% full bloom or past, 89% 1987, 77% avg. Apples 34% pre-pink, 7% 1987, 22% avg.; 37% pink, 28% 1987, 23% avg.; 29% full bloom or past, 65% 1987, 55% avg. Activities: Planting corn, potatoes, oats, hay, soybeans; spring plowing; fence work; hauling manure; spreading fertilizer; machinery maintenance; caring for livestock.

PUERTO RICO: Island rainfall averaged 0.44 in., 0.97 in. below normal. Highest weekly total rainfall 2.61 in. Maunabo, 1.27 in. Juncos, 1.20 in. Arecibo Observatory. Highest 24-hour total 2.57 in. Maunabo. Total rainfall since January 1st 14.76 in., 10% above normal. San Juan WSFO mean temperature 83°, 3° above normal. rainfall 0.07 in., 1.09 in. below normal. Divisional temperature averaged 80 to 81° on coasts, 75 to 78° interior divisions. Mean station temperature ranged 66° Pico Del Este-Luquillo to 83° San Juan WSFO. Lowest minimum temperature 61° several locations. Highest maximum temperature 94° San Juan WSFO.

SOUTH CAROLINA: Rainfall averaged less than 0.50 in. northwest to 1.00 in. central, coast. Temperatures 2 to 4° below normal

Days suitable for fieldwork 5.2. Soil moisture 28% short, 72% adequate. Corn fair to good. Tobacco fair to good; 97% planted, 85% 1987, 87% avg. Cotto fair to good; 55% planted, 62% 1987, 75% avg. Peanuts fair to good; 43% planted, 41% 1987, 51% avg. Sorghum fair to good; 15% planted, 26% 1987, 20% avg. Watermelons fair to good; 85% planted, 90% 1987, 88% avg. Sweetpotatoes fair to good; 15% planted, 13% 1987, 15% avg. Tomatoes good; 95% planted, 100% 1987, 100% avg. Spring cukes fair to good; 78% planted,

91% 1987, 92% avg. Snap beans good; 70% planted, 66% 1987, 79% avg. Wheat good; 94% headed, 81% 1987, 86% avg.; 7% turning color, 8% 1987, 25% avg. Oats good; 91% headed, 85% 1987, 87% avg.; 10% turning color, 13% 1987, 25% avg. Peaches good.

SOUTH DAKOTA: Average temperatures 7° below to 10° above normal. Extremes 24°, 89°. Best week so far this spring for precipitation. Much of central, west 1.00 to 2.00 in.

Days suitable for fieldwork 4.6. Topsoil moisture mostly short to adequate; 14% critically short, 44% short, 38% adequate, 4% surplus. Some areas benefitted from rain, others still very dry. Spring, small grain planting complete, corn underway.

TENNESSEE: Widespread rain 3rd, 4th. High pressure rest week. Cold front 8th triggered thunder storms west, few widely scattered showers middle, southeast. Temperatures ranged 3° above normal west to 5° below normal middle, east. Most areas precipitation totals 0.50 to 0.75 in. below normal.

Days suitable for fieldwork 4.9. Soil moisture 6% very short, 56% short, 37% adequate, 1% surplus. Corn 71% planted, 76% 1987, 56% avg. Cotton 61% planted, 72% 1987, 43% avg. Sorghum 33% planted, 39% 1987, 30% avg. Soybeans 5% planted, 8% 1987, 5% avg. Good mixture of rain, sunshine for planting. Pastures continued to improve. Cattle mostly good.

TEXAS: Cold front moved slowly across State early week producing few light showers central. Temperatures cooler Panhandle, nights cool. Middle week dry, showers west. Scattered showers north central, central weekend as front moved eastward became nearly stationary. Rainfall below normal no rain Northern High Plains, Upper Coast, Lower Valley. Temperatures below normal High Plains, close to normal elsewhere.

Crops: Small grain harvest progressed without much delay south, Coastal Bend. Yields vary widely. Central fields turn color under hot, drying weather. Yield prospects fair Blacklands. Fields Plains heading. Insect problems decreased some fields. Dryland fields stressed for moisture, yield prospects declined Low Plains. Additional fields baled. Wheat 40% headed, 62% 1987, 65% avg. Corn planting winding down some areas High Plains. Some fields slow emergence because cooler nights. Most stands good. Dry weather Blacklands, central slowed growth; fields good overall, could use some rain. Producers cultivated fields. Fields Coastal Bend, Rio Grande Valley beginning to head. These areas would benefit from rain, fields becoming more stressed. Corn 93% planted, 94% 1987, 94% avg. Grain sorghum fields Upper Coast timely rainfall. Isolated hail damage Coastal Bend with some rainfall. Fields needed additional moisture. Growth fair to good Blacklands, central. Planting slowly getting underway in Plains. Sorghum 61% planted, 58% 1987, 65% avg. Cotton progressed south, Rio Grande Valley. Most fields squaring. Some spraying continued. Some replanting Trans-Pecos because dry conditions. Land preparation full swing Low Plains. Rain needed so many producers can begin planting. Planting increased slowly High Plains, cool nights held soil temperatures down. When warmer temperatures return, planting will increase. Cotton 22% planted, 24% 1987, 22% avg.; 1% squaring, none 1987, 2% avg. Rice producers began to flood many fields. Some herbicide, fertilizers applied. Progress good to this point. Rice 100% planted, 99% 1987, 93% avg.; 79% emerged, 81% 1987, 76% avg. Peanut planting increased few more areas. Producers Cross-Timbers irrigating, getting ready for planting. Soybean planting increased Upper Coast as weather permitted. Other field crops:

Oats 2% harvested, 6% 1987, 2% avg. Peanuts 8% planted, 9% 1987, 10% avg. Soybeans 12% planted, 26% 1987, 12% avg. Sunflowers 2% planted, 1% 1987, 9% avg.

Commercial Vegetables: Rio Grande Valley harvest onions, carrots, cucumbers continued. Light melon harvest begun, majority not start week or so. Grove care workers applied insecticides some citrus groves. Irrigation heavy. San Antonio-Winter Garden onion harvest increased. Yields good. Watermelons some wind damage. East progress good all vegetables. Few disease problems occurred. High Plains potatoes emerging. Onions good progress. Trans-Pecos thrips problem some onion fields. Winds damaged some melon vines. Cabbage good progress. Peaches left after freeze sizing well. Some thinning continued. Harvest peaking Valley. Pecans progressed well. Some areas remained dry. Treatment casebearers underway some areas.

Range and Pasture: Range, pasture grasses needed moisture many areas. Moisture Upper Coast, east improved conditions. Many additional small grain fields cut for hay. Producers cut other hay. Some fertilizing, spraying occurred. Livestock fair. Most cattle small grain pastures sold as forage decreases.

UTAH: Precipitation light to moderate over State. Maximum temperatures 4 to 5° below normal. Minimums normal in northern mountains to 4° below western division.

Days suitable for fieldwork 5.4. Soil moisture 23% short, 69% adequate, 8% surplus. Spring wheat 95% emerged, 89% 1987, 55% avg. Barley 93% emerged, 90% 1987, 64% avg. Oats 72% emerged, 77% 1987, 42% avg. Corn 52% planted, 60% 1987, 29% avg.; 36% emerged, 27% 1987, 8% avg. Potato seeding underway. Winter wheat height 7 in., 9 in. 1987, 8 in. avg. Alfalfa height 8 in., 9 in. 1987, 8 in. avg. Hay harvest underway Dixie. Fruit prospects fair for sweet cherries, mostly good other fruits. Ranges, pastures growing well after recent rains. Calf, lamb losses light to normal. Major farm activities: Land preparation, corn planting, weed control, irrigating.

VIRGINIA: Cool, temperatures 5 to 6° below normal, range 31 to 81°. Much needed rain statewide, range 0.35 to 3.09 in.

Days suitable for fieldwork 3.8. Topsoil moisture 16% short, 58% adequate, 26% surplus. Rain slowed planting activities, but improved outlook for small grains, hay, germinating corn. Corn 65% planted, 52% 1987, 68% avg. Soybeans 6% planted, 2% 1987, 10% avg. Peanuts 42% planted, 42% 1987, 70% avg. Cotton over 50% planted. Flue-cured tobacco 10% transplanted, 3% 1987, 21% avg. All planted crops, hay, pasture good to excellent. Hay somewhat short drier State areas. Hay harvest became more active. Rye cut for silage, hay. Sprayed wheat to control powdery mildew, overall not a major problem. First signs of cereal leaf beetle found. Livestock good, rotating on pasture. Sheep shearing ending some areas.

WASHINGTON: Cool, moist conditions prevailed with several disturbances crossed State. Temperatures west Cascades ranged near normal to 4° below normal. East ranged 10° above normal southeast to 10° below east central. Precipitation ranged none Pomeroy to over 1.00 in. Hoquiam, Bellingham, Olympia.

Cool temperatures, frost affected crops statewide. Heavy rains west; surplus soil moisture kept most farmers from fields. Scattered showers east, rains most areas insufficient to preclude fieldwork more than 1 day. Dry conditions allowed planting spring wheat, barley to run nearly to completion. Good progress also made in planting corn, potatoes. First cutting alfalfa hay underway Franklin County. Winter wheat 5% poor, 70% fair, 15% good, 10% excellent. Cool temperatures delayed growth, caused poor pollination conditions for fruit, berry orchards. Some frost damage Cowiche, Tieton areas Yakima County. Cold weather also caused widespread Fireblight infection on Bosc pears lower Yakima Valley. Post bloom chemical thinning began in most areas Chelan County. Asparagus harvest slowed somewhat by cold weather; quality excellent. Carrots being planted Cowlitz, Whatcom Counties. Early planted sweet corn emerged Grant County. Seeders from overwintered onions beginning to show Walla Walla County. Range, pasture mostly adequate west, short to adequate east, central. Apple trees past full bloom most areas of State.

WEST VIRGINIA: Average temperature 55°; 3° below normal. Extremes 89° Creston; 26° Greenbank. Average precipitation 1.27 in.

Days suitable for fieldwork 3.1. Soil moisture 48% short, 42% adequate, 10% surplus. Wheat, barley good to fair; oats, corn fair to good. Oats 85% planted, 64% emerged. Corn 26% planted, 2% emerged. Tobacco fair to good; 88% planted, 74% emerged. Apples, peaches fair to good. Feed supplies adequate to short. Cattle, sheep good to fair. Farm activities: General farm maintenance, plowing, lime and fertilizer application, planting corn and oats, gardening, livestock care.

WISCONSIN: Dry until weekend. Temperatures averaged 59°, 5° above normal. Extremes 26°; 85°. Precipitation 0.20 to 0.90 in., most 8th.

Days suitable for fieldwork 6.2. Soil moisture 54% short, 46% adequate. Spring plowing 82%, 77% 1987, 61% avg. Most farmers done. Oats 93% seeded, 90% 1987, 74% avg. Nearly done central, south. Corn 40% planted, 40% 1987, 25% avg. Very rapid progress aided by dry soils. Potato planting active north, about over central. Tobacco beds steamed, seeded. Apple trees blossoming south, showing leaves north.

WYOMING: Temperatures below normal. Precipitation above normal north central, extreme west.

Days suitable for fieldwork 5.0. Topsoil moisture 28% short, 72% adequate. Spring wheat 65% planted, 85% 1987, 75% avg.; 40% emerged, 50% 1987, 40% avg. Oats 65% planted, 70% 1987, 65% avg.; 25% emerged, 35% 1987, 35% avg. Barley 85% planted, 90% 1987, 80% avg.; 60% emerged, 65% 1987, 55% avg. Sugarbeets 95% planted, 95% 1987, 85% avg.; 35% emerged, 50% 1987, 35% avg. Corn 35% planted, 40% 1987, 40% avg.; small amount emerged, 5% 1987, 5% avg. Potatoes 15% planted, 35% 1987, 30% avg. Winter wheat fair to good. Livestock mostly good. Spring calves 95% born, 95% 1987, 90% avg. Death losses light to normal. Farm flock: Ewes lambed 90%, 95% 1987, 95% avg.; shorn 85%, 95% 1987, 90% avg. Range flock: Ewes lambed 60%, 70% 1987, 65% avg.; shorn 80%, 75% 1987, 70% avg. Death losses light to normal. Ranges, pastures fair to good.

Crop Progress

FOR WEEK ENDING MAY 8, 1988

WINTER WHEAT
% HEADED

	1988	1987	AVG.
ARK	92	95	NA
CALIF	95	96	89
COLO	0	0	0
GA	99	94	94
IDAHO	0	0	0
ILL	12	36	20
IND	2	3	3
KANS	5	20	20
MICH	0	0	0
MO	26	48	31
MONT	0	0	0
NEBR	0	0	0
N MEX	55	95	NA
N C	71	51	NA
OHIO	0	0	0
OKLA	50	75	55
OREG	1	7	2
S DAK	0	0	0
TEX	40	62	65
WASH	0	0	0

20 STATES 22 35 NA
EXCL. STATES WITH NA 19 32 28

THESE 20 STATES PRODUCED 91% OF THE 1987 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

COTTON
% PLANTED

	1988	1987	AVG.
ALA	88	85	65
ARIZ	89	93	95
ARK	60	64	45
CALIF	85	96	95
GA	41	32	48
LA	64	65	62
MISS	69	63	53
MO	65	76	38
N MEX	80	85	62
N C	38	43	53
OKLA	20	5	10
S C	55	62	75
TENN	61	72	43
TEX	22	24	22

14 STATES 46 48 43

THESE 14 STATES PRODUCED 100% OF THE 1987 COTTON CROP.

GRAIN SORGHUM
% PLANTED

	1988	1987	AVG.
ARK	66	72	53
ILL	11	14	7
KANS	3	5	3
LA	68	50	69
MISS	63	46	41
MO	24	24	15
NEBR	3	6	4
OKLA	5	5	10
S DAK	1	5	2
TENN	33	39	30
TEX	61	58	65

11 STATES 24 24 24
THESE 11 STATES PRODUCED 96% OF THE 1987 GRAIN SORGHUM CROP.

SPRING WHEAT
% PLANTED

	1988	1987	AVG.
IDAHO	87	99	76
MINN	98	98	67
MONT	86	64	69
N DAK	79	79	54
S DAK	100	98	77
5 STATES	87	83	63

THESE 5 STATES PRODUCED 95% OF THE 1987 SPRING WHEAT CROP.

SPRING WHEAT
% EMERGED

	1988	1987	AVG.
IDAHO	61	84	54
MINN	54	70	30
MONT	38	30	28
N DAK	35	34	20
S DAK	86	85	54
5 STATES	47	48	29

THESE 5 STATES PRODUCED 95% OF THE 1987 SPRING WHEAT CROP.

RICE
% PLANTED

	1988	1987	AVG.
ARK	71	86	56
CALIF	40	45	19
LA	82	83	82
MISS	83	76	69
TEX	100	99	93
5 STATES	73	79	60

THESE 5 STATES PRODUCED 97% OF THE 1987 RICE CROP.

CORN
% PLANTED

	1988	1987	AVG.
COLO	48	41	30
GA	97	96	95
ILL	95	85	57
IND	85	80	44
IOWA	80	87	51
KANS	60	65	40
KY	65	68	45
MICH	45	60	30
MINN	74	83	36
MO	86	76	53
NEBR	45	50	36
N C	87	71	80
OHIO	76	66	47
PA	24	28	23
S DAK	25	44	15
TEX	93	94	94
WIS	40	40	25

17 STATES 70 71 45
THESE 17 STATES PRODUCED 94% OF THE 1987 CORN CROP.

SOYBEANS
% PLANTED

	1988	1987	AVG.
ALA	13	10	8
ARK	6	6	5
GA	6	5	10
ILL	25	36	16
IND	23	29	10
IOWA	10	18	7
KANS	5	10	2
KY	7	9	5
LA	4	5	9
MICH	5	5	2
MINN	17	27	8
MISS	7	5	5
MO	13	15	9
NEBR	5	5	2
N C	2	1	6
OHIO	26	14	12
S C	0	0	0
S DAK	2	9	3
TENN	5	8	5

19 STATES 14 17 8

THESE 19 STATES PRODUCED 96% OF THE 1987 SOYBEANS CROP.

RICE
% EMERGED

	1988	1987	AVG.
ARK	19	46	31
CALIF	4	8	2
LA	61	73	72
MISS	38	24	42
TEX	69	81	76

5 STATES 32 47 40

THESE 5 STATES PRODUCED 97% OF THE 1987 RICE CROP.

Crop Condition

FOR WEEK ENDING MAY 8, 1988
WINTER WHEAT

STATE	VP	P	F	G	EX
ARK	0	0	14	63	23
CALIF	0	5	20	70	5
COLO	1	9	25	51	14
GA	0	0	11	77	12
IDAHO	0	1	21	59	19
ILL	0	0	14	76	10
IND	0	5	53	41	1
KANS	2	24	33	35	6
MICH	1	9	25	45	20
MO	0	4	44	49	3
MONT	1	10	35	44	10
NEBR	0	0	32	57	11
N MEX	0	28	43	29	0
N C	0	2	23	73	2
OHIO	0	8	30	51	11
OKLA	0	0	0	80	20
OREG	0	0	20	80	0
S DAK	1	20	41	35	3
TEX	3	18	39	34	6
WASH	0	5	70	15	10

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

International Weather and Crop Summary

May 1-7, 1988

HIGHLIGHTS:

WESTERN U.S.S.R. ... Winter grains are mostly jointing, with spring grains emerging to tillering in the south. Moisture conditions are mostly adequate for crop growth.

EUROPE ... Warm weather returns to most of the continent, favoring winter and early summer crops.

SOUTH ASIA ... Showers continue over most southern rice regions, increasing irrigation for planting.

NORTHWESTERN AFRICA ... Dry weather in Algeria and Tunisia favors crop maturation and early harvesting. Late-week rain slows crop maturation in Morocco.

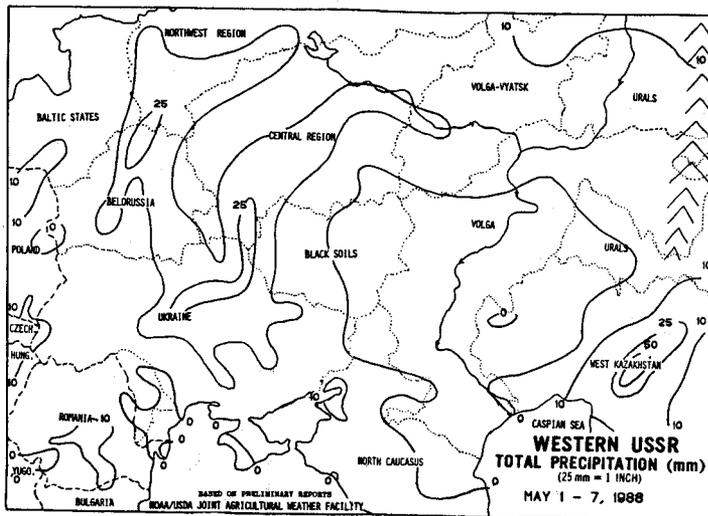
CANADA ... Much needed rain, heaviest in the southeastern Prairies, provides topsoil moisture for spring wheat planting.

EASTERN ASIA ... Widespread, heavy rain helps to relieve persistent dryness across winter grain areas.

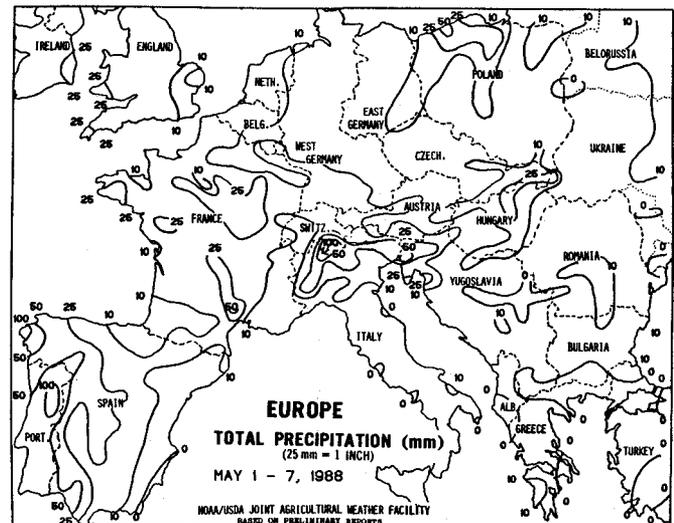
SOUTHEAST ASIA ... Widespread, locally heavy showers over Indochina increase moisture levels for grain planting. Drier weather continues over most Philippine grain regions.

SOUTH AMERICA ... Drier weather by midweek improves harvest conditions in south-central Brazil. Dry, cool weather favors Argentina's crop harvest.

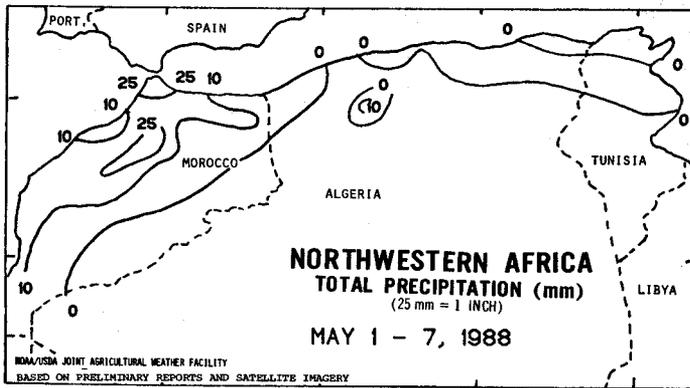
AUSTRALIA ... Rain continues to benefit pre-planting soil moisture levels in the west. Dry weather favors planting and harvest activities in the east.



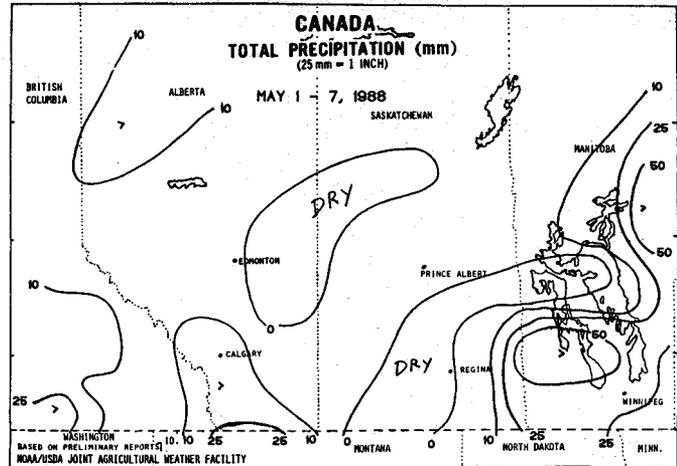
WESTERN U.S.S.R. ... Widespread rain fell over crop areas in central Belorussia, the north-central Ukraine, and parts of the Central Region with precipitation amounts ranging from 13 to 27mm. Mostly dry weather covered the eastern Black Soils Region, the Volga, and the northern tip of the North Caucasus. A warming trend occurred over the northern half of the region. As a result, average weekly temperatures ranged from 2 to 4 degrees C above normal. In contrast, average weekly temperatures over the eastern half of the Ukraine and the North Caucasus ranged from 1 to 3 degrees C below normal. Winter grains were mostly jointing, with spring grains emerging to tillering over the southern Ukraine and North Caucasus. Moisture for crop growth was adequate over much of the region. However, much below-normal precipitation since March 1 over the eastern half of the Black Soils' Region, the western Volga, and the northern North Caucasus has limited moisture for early crop growth, and rain is needed to prevent the development of crop stress.



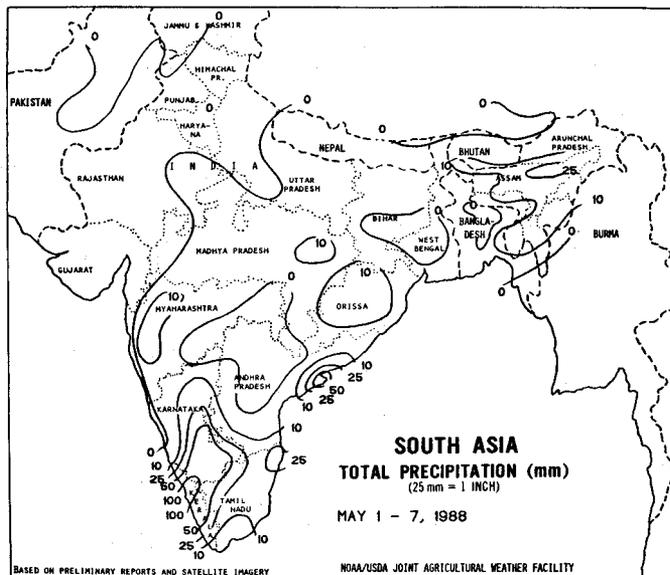
EUROPE ... Warm weather returned to Europe, with above-normal temperatures in all of the continent except the western Iberian Peninsula. Mean weekly temperatures were as much as 5 degrees C above normal in northeastern crop areas, following much colder than normal weather last week. The warm weather favored growth of winter grains and early summer crops. A slow moving frontal system brought widespread, moderate rain (generally 10-20mm) to western growing areas, causing some delays in corn planting in France. Mostly light rain (less than 10mm) covered northern and eastern Europe, keeping soil moisture at adequate levels for winter crops. In the south, light to moderate rain favored reproductive winter grains in Italy's Po Valley crop area, while mostly dry weather stretched from southeastern Spain to the western Balkans.



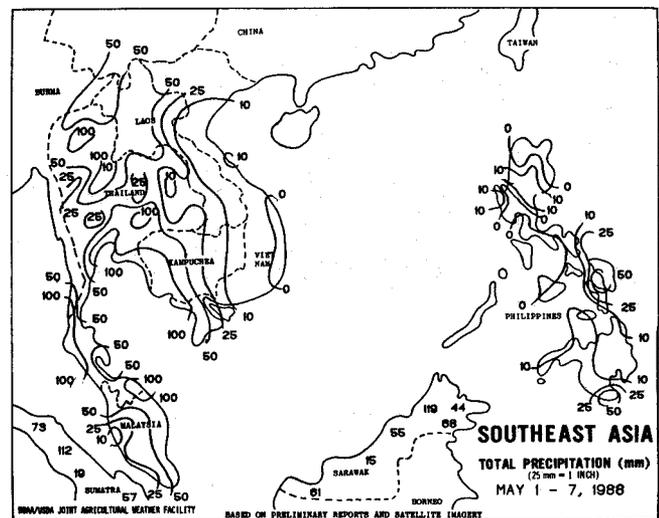
NORTHWESTERN AFRICA ... Unseasonable warm, dry weather covered winter grain areas in Algeria and Tunisia, favoring crop maturation and aiding early harvest activities. In Morocco, dry weather on May 1-5 favored winter grain maturation and helped early harvesting. However, the weather turned unseasonably cool and wet late in the week with 10-25mm of precipitation covering most grain areas.



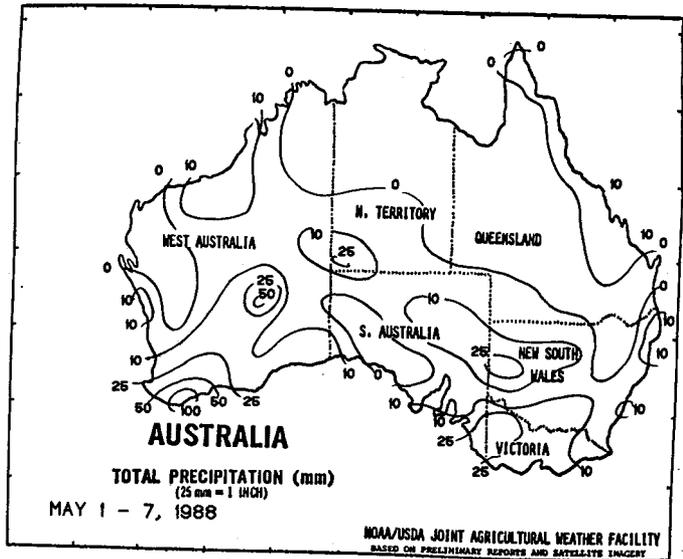
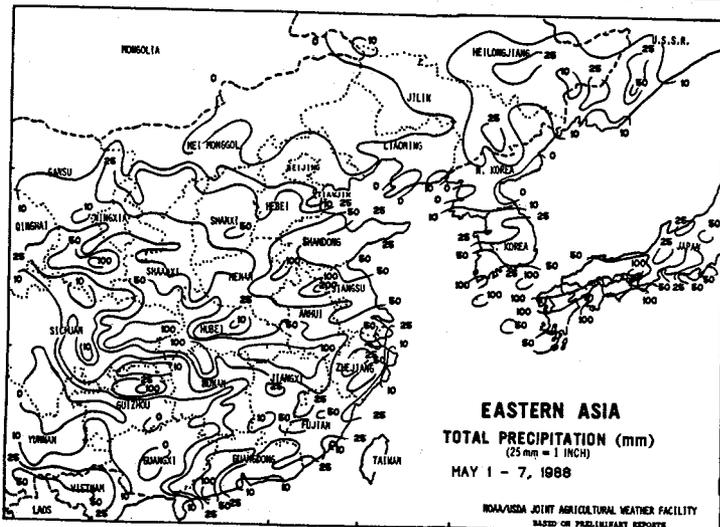
CANADA ... Much needed rain covered grain regions of the southern Prairies, improving conditions for spring wheat planting. Rainfall averaged less than 10mm in southern Alberta, but heavy showers (25-84mm) soaked fields in the east from southeastern Saskatchewan to Manitoba. Dry weather, however, persisted over central Saskatchewan and Alberta's northeastern grain regions, where planting delays caused by low topsoil moisture continued. Spring wheat planting usually lasts until the end of May.



SOUTH ASIA ... Variable rainfall (10-50mm or more) continued over most southern rice regions, increasing irrigation reserves for rice planting. Rice planting usually begins in May but is in full swing during June, coinciding with the normal onset of the southwest Monsoon. Following last week's beneficial rain, generally dry weather returned to eastern crop regions from eastern Uttar Pradesh through Bangladesh. Light rain (8-17mm) covered the eastern states. Dry weather in northern wheat regions favored harvesting.

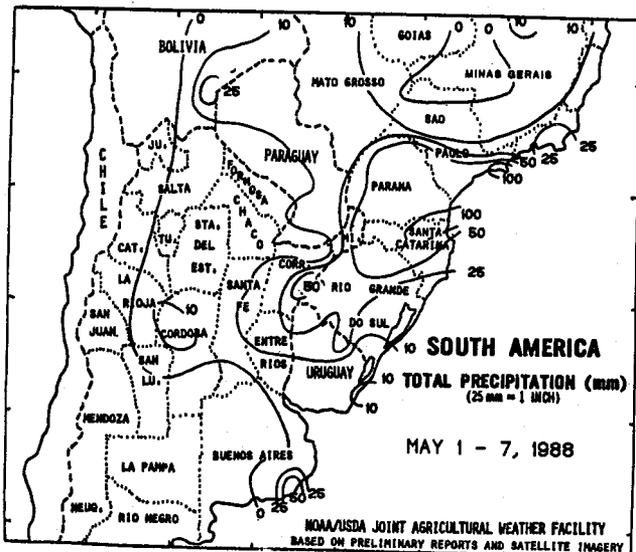


SOUTHEAST ASIA ... Widespread, moderate to heavy showers (25-100mm or more) covered rainfed grain regions of Indochina from southernmost Vietnam through central Thailand into northern Laos and northernmost Vietnam, maintaining favorable pre-planting soil conditions. Lighter rain (less than 25mm) fell elsewhere. Heavy rain (50-100mm or more) continued over much of the Malay Peninsula, likely causing flooding in some coastal regions. Scattered showers covered eastern Malaysia and much of western Indonesia, with heaviest rain (100mm or more) over most crop regions of Java. In the Philippines, rainfall averaged less than 10mm over most grain regions, but heavier rain (25-68mm) continued in the east-central islands.



EASTERN ASIA ... A weak frontal system stretching across northern China set off widespread, moderate to heavy rain (greater than 25mm) over Chinese, South Korean, and Japanese winter grain areas, helping to relieve persistent dryness and moisture stress in many areas. It was the heaviest rainfall in many sections of the Yellow River Valley since last fall. Severe thunderstorms associated with the front caused localized hail, wind, and flooding damage in northeastern Sichuan, western Henan, southern Shandong, northern Anhui, and Jiangsu. Widespread rain also fell across southern rice areas, causing some delays in single-season crop planting. In the far north, rain covered eastern sections of Liaoning and Jilin, and much of Heilongjiang, while other summer crop areas remained mostly dry. Weekly mean temperatures ranged from as much as 10 degrees C above normal in central and southern Chinese growing areas to 5 degrees C below normal in Manchuria.

AUSTRALIA ... Widespread, moderate to heavy rain continued over crop areas in Western Australia, further improving pre-planting soil moisture levels for winter grains. Rain also fell over growing areas in northern Victoria and New South Wales, helping to alleviate the effects of drier than normal weather over the past several weeks. Mostly dry weather favored wheat planting and summer crop harvesting in southern Queensland and northern New South Wales. In Queensland's coastal sugarcane areas, scattered, mostly light showers continued to benefit the vegetative crop. Rainfall over the region usually decreases during the month of May, with most areas normally receiving less than 15mm per week by month's end. Temperatures increased over most eastern and southern crop areas during the week, with weekly mean values as much as 6 degrees C above normal in central New South Wales. Temperatures in Western Australia were near normal.



SOUTH AMERICA ... In south-central Brazil, early-week rain produced 25-104mm over southern crop areas, including Rio Grande do Sul, Santa Catarina, and Parana. By midweek, drier weather improved field conditions, and harvesting may have resumed by week's end in Rio Grande do Sul. The soybean harvest is about 70 percent complete in Rio Grande do Sul, nearly finished in Parana, and about 95 percent complete in Mato Grosso do Sul where scattered showers prevailed. In Argentina, mostly dry weather favored harvesting throughout the region. Some substantial rain (10-20mm) fell in extreme eastern Santa Fe and Entre Rios but, elsewhere, scattered showers produced only light rain. Sunflower, corn, sorghum, and soybean harvesting are about 95, 75, 70, and 15 percent complete, respectively. Mostly dry weather also favored cotton harvesting in the north. Cool weather produced subfreezing nighttime temperatures over much of Buenos Aires and isolated areas of western Cordoba.

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

Subscriptions (202) 447-7917 . . Andrea Kuiper

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
Editor Sharon Lee
National Agricultural Statistics Service
Agricultural Statistician Clif James
World Agricultural Outlook Board
Agricultural Weather Analysts. Ray Motha,
Tom Puterbaugh, Mark Brusberg,
and Jeff Andresen

Heating Degree Days (Base 65° F.)

April 1988

ALA. Birmingham	111	MAINE, Caribou	761	OKLA. Okla. City	204
Mobile	33	Portland	641	Tulsa	297
Montgomery	70	MD. Baltimore	389	OREG. Astoria	476
ALASKA, Anchorage	830	MASS. Boston	541	Burns	593
Barrow	1905	Chatham	606	Medford	330
Fairbanks	354	MICH. Alpena	697	Pendleton	387
Nome	426	DETROIT	486	Portland	380
ARIZ. Flagstaff	626	Flint	547	Salem	411
Phoenix	46	Grand Rapids	532	PA. Allentown	486
Tucson	20	Houghton Lake	632	Erie	565
Winslow	330	Lansing	547	Parrisburg	445
Yuma	11	Marquette	787	Pittsburgh	404
ARK. Fort Smith	134	S. Ste. Marie	767	Scranton	562
Little Rock	121	MINN. Duluth	741	R.I. Providence	532
CALIF. Bakersfield	82	Internat'l Falls	756	S.C. Charleston	85
Eureka	358	Minneapolis	523	Columbia	114
Fresno	124	Rochester	620	Greenville	180
Los Angeles	158	St. Cloud	609	S. DAK. Aberdeen	584
Reading	133	MSS. Jackson	74	Huron	556
Stocking	133	Meridian	73	Rapid City	533
San Diego	85	Monticello	34	Sioux Falls	554
San Francisco	212	Neenah	341	THON, Hattanooga	164
San Jose	437	Kansas City	241	Knoxville	287
COLO. Denver	350	St. Louis	304	Memphis	292
Grand Junction	399	MONT. Billings	492	Nashville	303
Pueblo	499	Glascow	533	TEX. Abilene	103
CONN. Bridgeport	523	Great Falls	538	Amarillo	323
Hartford	317	Helena	524	Austin	34
D.C. Washington	27	Kalispell	516	Beaumont	29
FLA. Apalachicola	50	Kalispell	509	Brownsville	4
Jacksonville	50	Miles City	435	Corpus Christi	13
Jacksonville	0	Miami	435	Del Rio	12
Key West	0	NEBR. Grand Island	416	El Paso	121
Orlando	7	Lincoln	469	Galveston	70
W. Palm Beach	0	North	469	Garrett	37
Tallahassee	54	North Platte	490	Houston	168
Tampa	14	Omaha	401	Lubbock	100
GA. Atlanta	104	Valentine	570	Midland	95
Augusta	102	Las Vegas	603	San Angelo	31
Macon	84	Reno	408	San Antonio	38
Waynesboro	52	Winnemucca	574	Victoria	31
IDAHO, Boise	324	N.H. Concord	482	Waco	49
Idaho Falls	485	N.J. Atlantic City	290	Wichita Falls	138
Pocatello	485	N.MEX. Albuquerque	546	Utah, Milford	488
ILL. Cairo	503	N.Y. Albany	640	Utah, Panguitch	381
Chicago	427	Binghamton	571	VA. Burke City	382
Moline	409	Buffalo	560	VA. Lynchburg	267
Peoria	360	New York	421	Richmond	279
Rockford	514	Rochester	594	Roanoke	289
Springfield	284	Syracuse	571	WASH. Colville	542
IND. Evansville	363	N.C. Asheville	308	Quillayute	512
Fort Wayne	498	Charlotte	154	Seattle-Tacoma	433
South Bend	498	Greensboro	241	Spokane	477
IOWA, Des Moines	400	Hartford	228	Walla Walla	284
Dubuque	519	Wilmington	138	Yamhill-Beckley	413
Souix City	475	Fargo	609	Huntington	322
KANS. Concordia	355	Williston	585	Madison	625
Dodge City	382	OHIO, Akron-Canton	515	WIS. Green Bay	565
Goodland	487	Cincinnati	374	Milwaukee	571
Topeka	331	Cleveland	506	WTO. Casper	564
Wichita	330	Columbus	433	Cheyenne	611
WY. Laramie	248	Dayton	425	Lander	481
LA. Baton Rouge	25	Toledo	425	Sheridan	530
LA. Lake Charles	22	Youngtown	532		
New Orleans	23				
Shreveport	54				

Based on 1951-80 normals.

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