

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

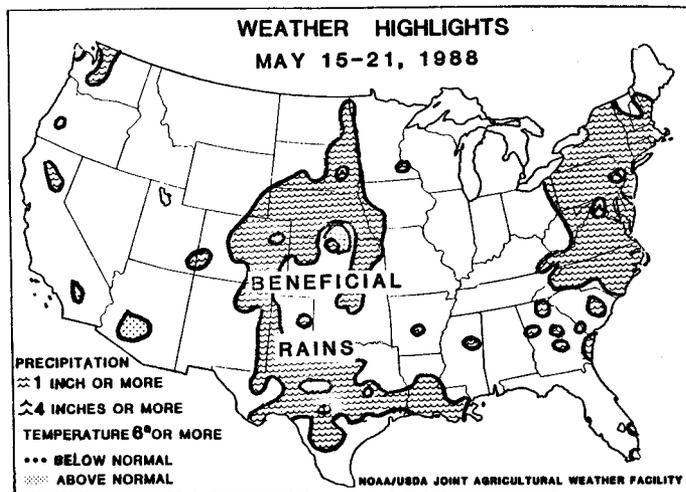
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May 24, 1988

National Weather Summary

May 15-21, 1988



HIGHLIGHTS: A slow-moving storm system brought abundant rains to much of the Great Plains and Mississippi Valley. A low-pressure system stalled over the east coast, causing local flooding in New York and the Middle Atlantic Coast States. Average temperatures ranged from near normal to somewhat above normal.

SUNDAY... Severe thunderstorms developed over the lower Great Lakes region. Thunderstorms were widespread over the Southeast, from the southern Appalachians to Mississippi. Hail accompanied thunderstorms in Oklahoma. Record-high temperatures for the date were reported in Colorado, Idaho, Nevada, Indiana, Arkansas, Tennessee, Texas, Kentucky, Florida, and Arizona.

MONDAY... Thunderstorm activity moved eastward to New York and Pennsylvania. Very high temperatures returned to the northern and central Rockies. Large hail fell in severe thunderstorms over Virginia, North Carolina, Tennessee, Georgia, and New York.

TUESDAY... Heavy rain from thunderstorms caused local flooding in Maryland and Pennsylvania. Severe thunderstorms produced damaging winds and hail over the Carolinas. Thunderstorms also developed in the West. Hail accompanied thunderstorms in western Kansas and western Nebraska. Thunderstorms also were scattered across New Mexico, Texas, Arizona, Colorado, Utah, and

Wyoming. Record-high temperatures for the date occurred along the central Gulf Coast.

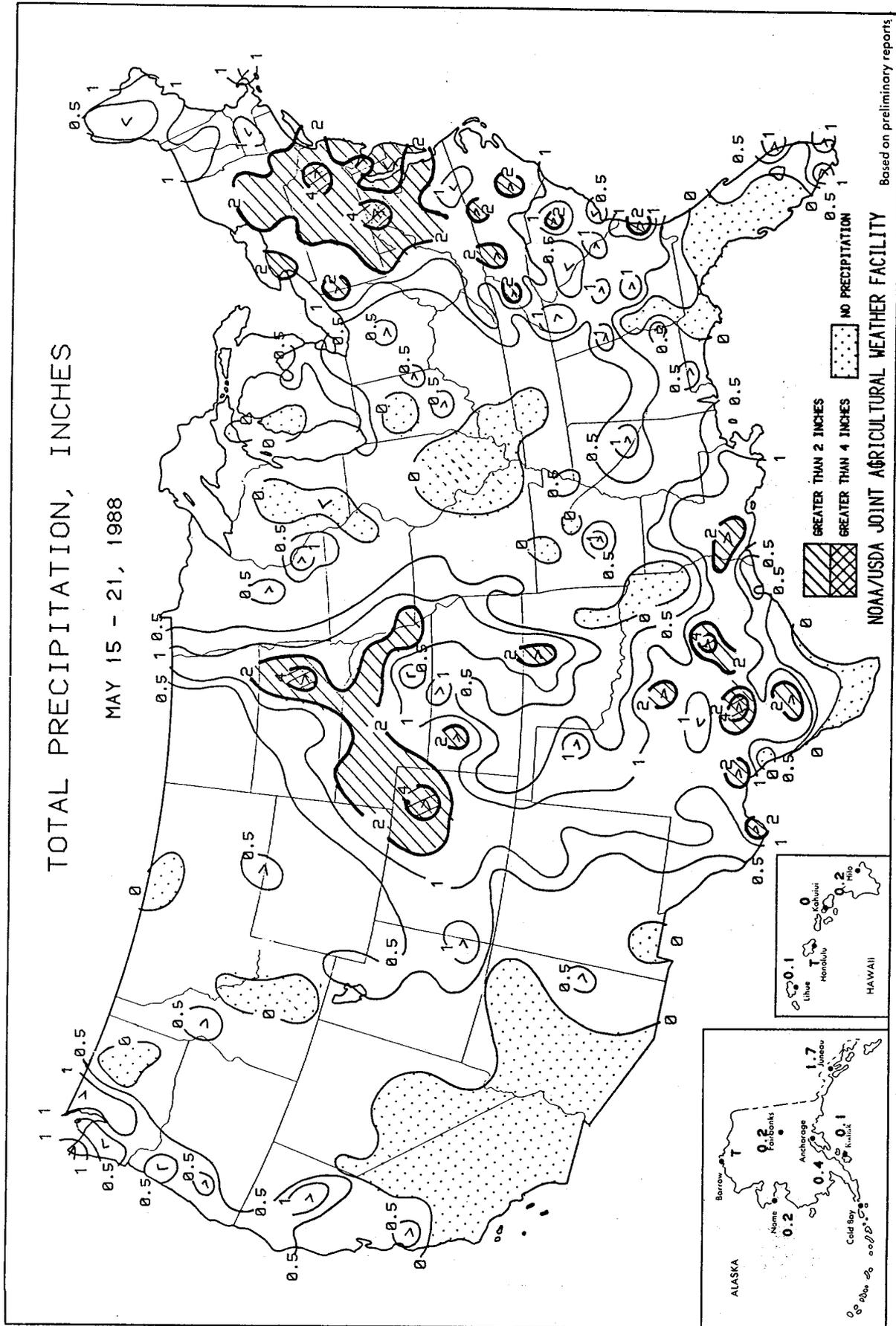
WEDNESDAY... Heavy rains caused local flooding in Pennsylvania and northern Delaware. Showers and occasional thunderstorms extended from New England across the lower Great Lakes, and south across the Virginias into North Carolina. Thunderstorms and rain showers also extended from western Minnesota across the northern half of the Plains, and from southeastern Wyoming to New Mexico and Texas.

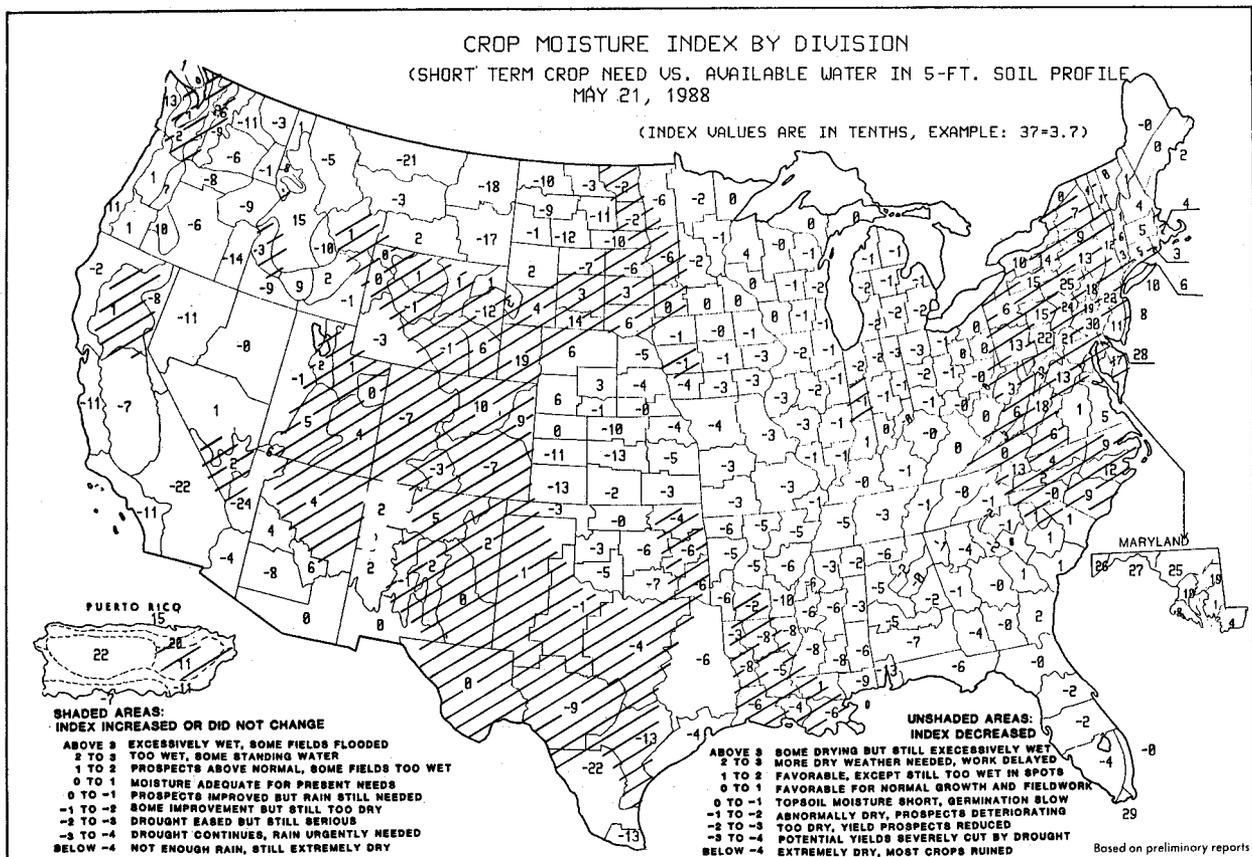
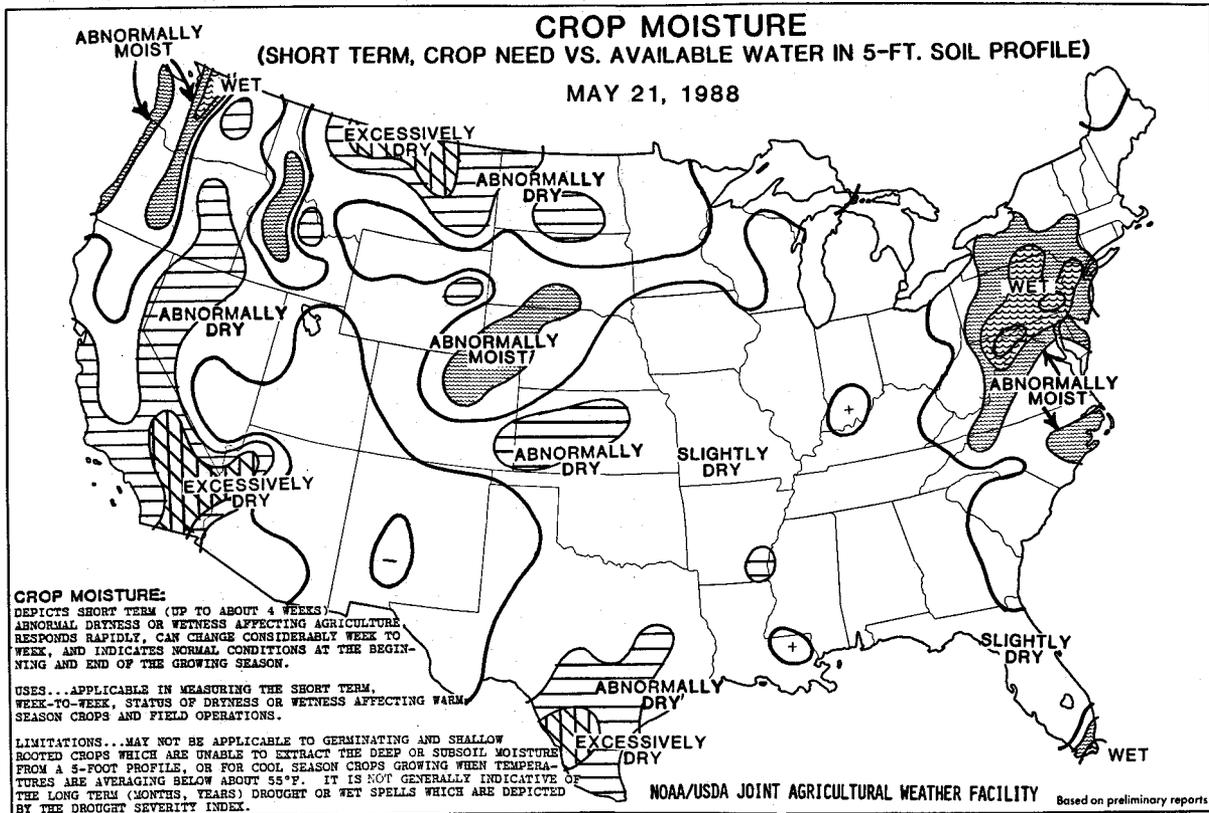
THURSDAY... Showers and thunderstorms were scattered across the middle and upper Mississippi Valley and the Great Plains. Areas of showers and thunderstorms extended from southern Maine to South Carolina, and from the lower Great Lakes to Virginia, as well as over Florida. Wet snow fell at higher elevations in Colorado.

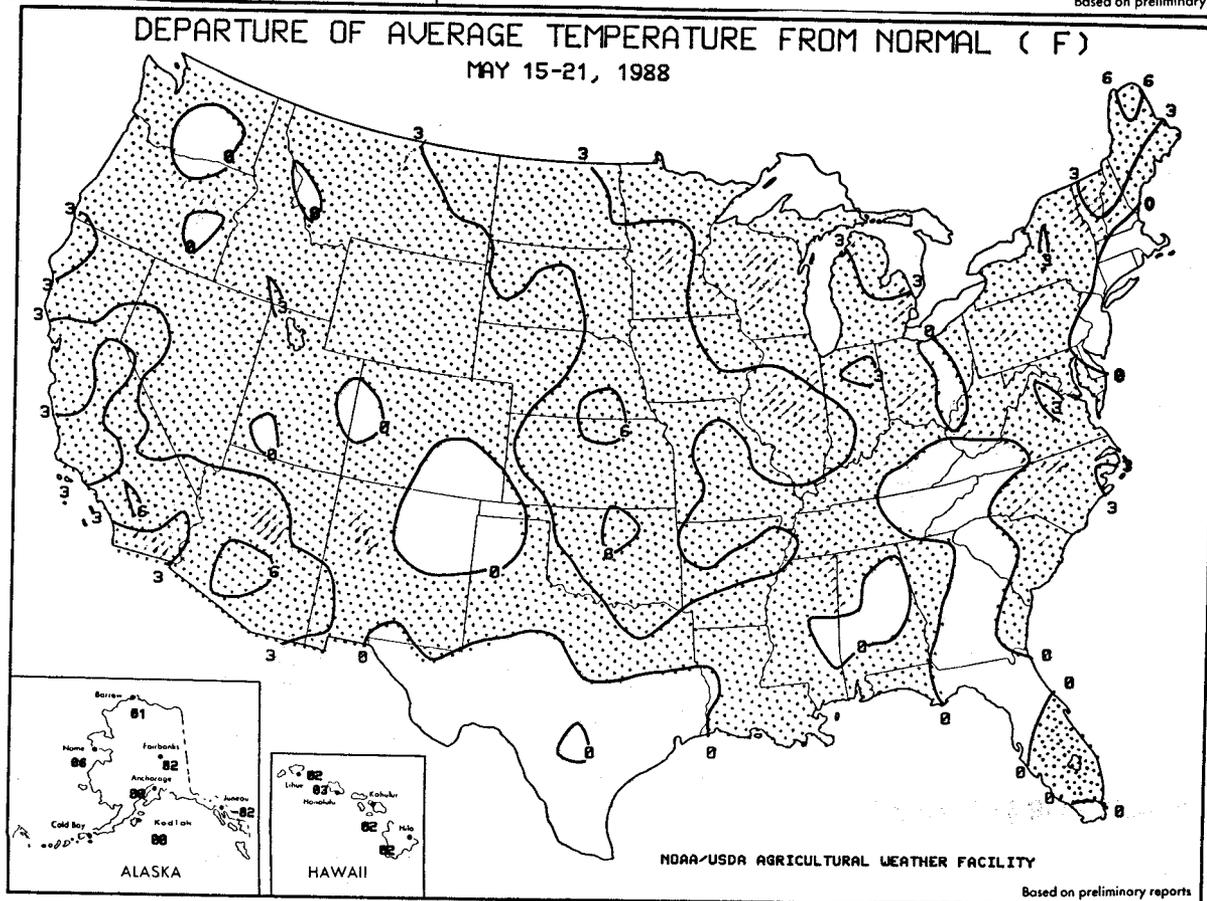
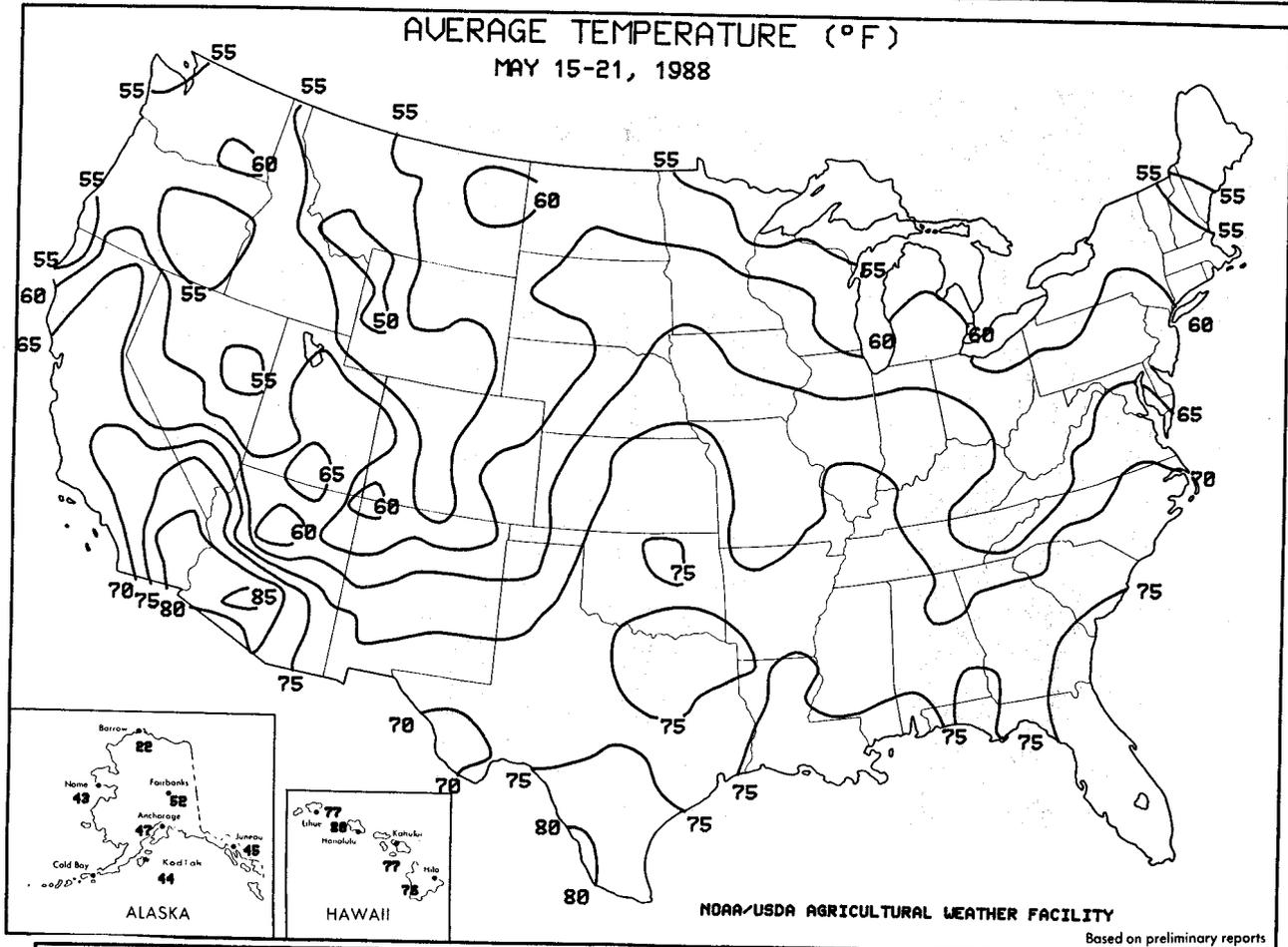
FRIDAY... As a storm system moved slowly across the Nation's midsection, areas of thunderstorm activity extended from Texas and New Mexico northward into Oklahoma, Kansas, Nebraska, the Dakotas, and Minnesota. In the East, local flooding occurred in New York and the Middle Atlantic States. Thunderstorms were scattered over Florida.

SATURDAY... A slow-moving storm system centered over Kansas produced scattered showers and thunderstorms in the central and southern Plains and in the Mississippi Valley. Another slow-moving storm in the East produced showers and thunderstorms from New York to Virginia. Unseasonably hot weather prevailed west of the Rockies.

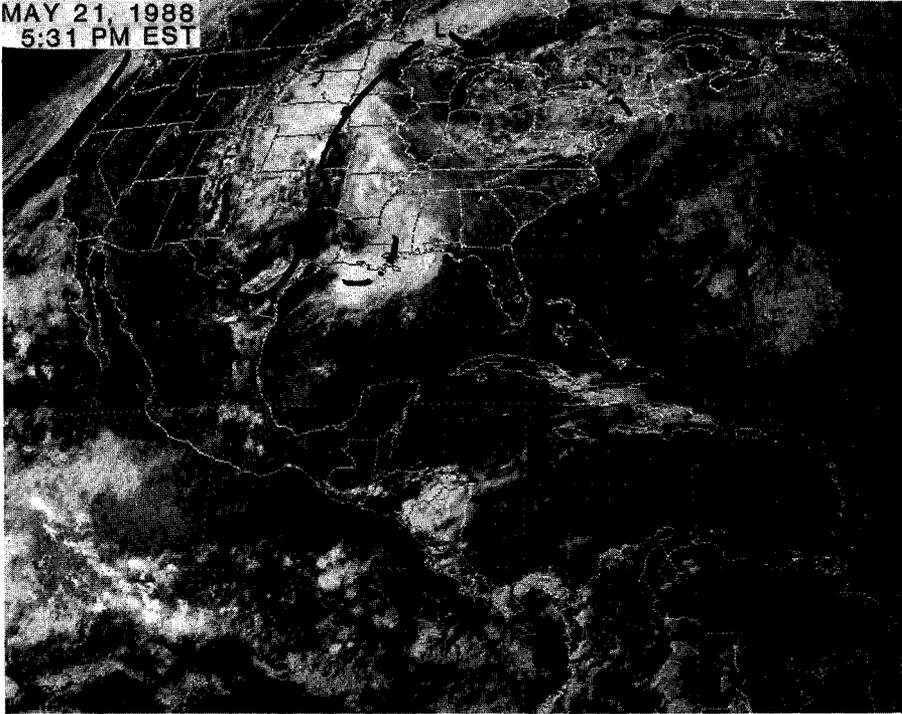
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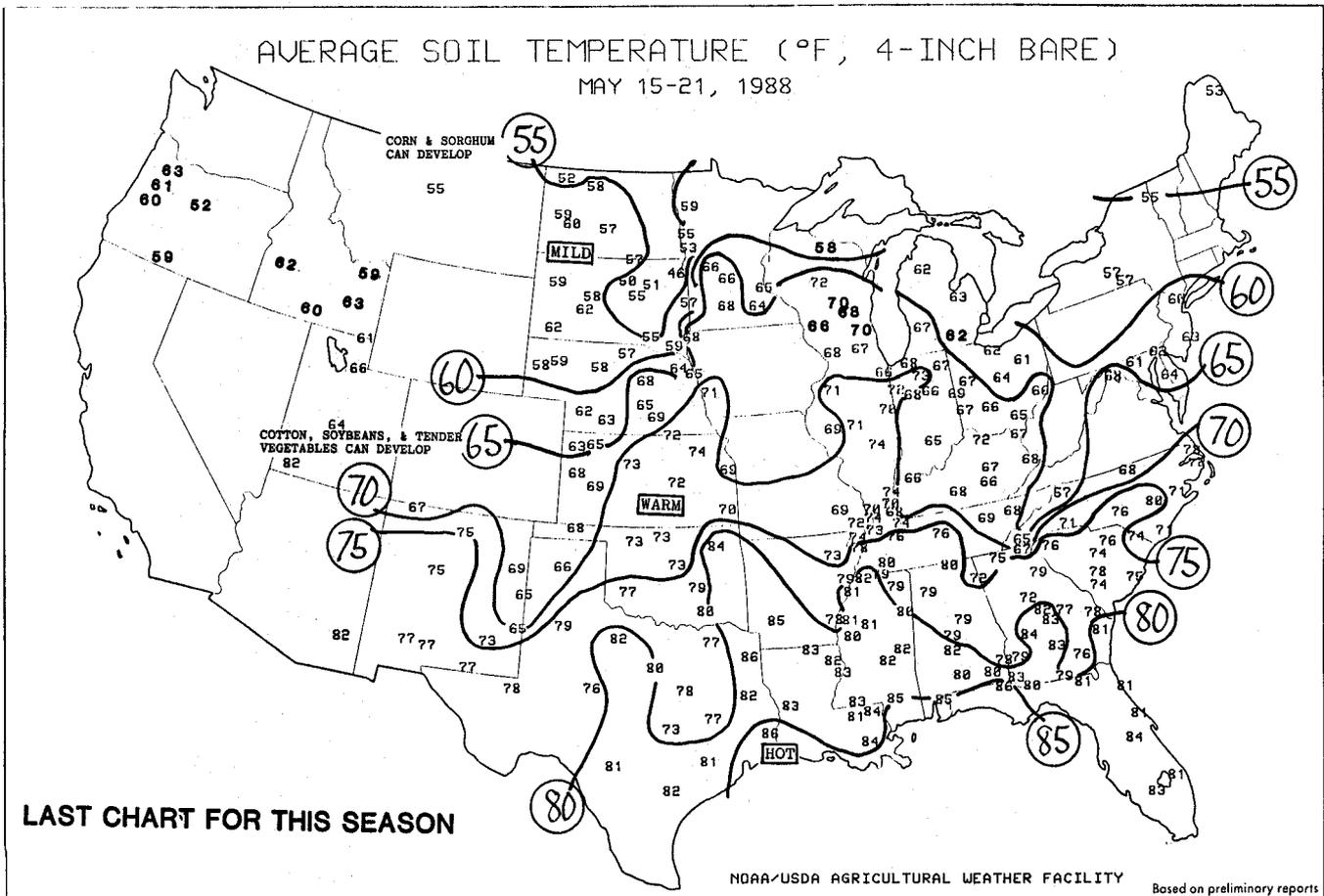


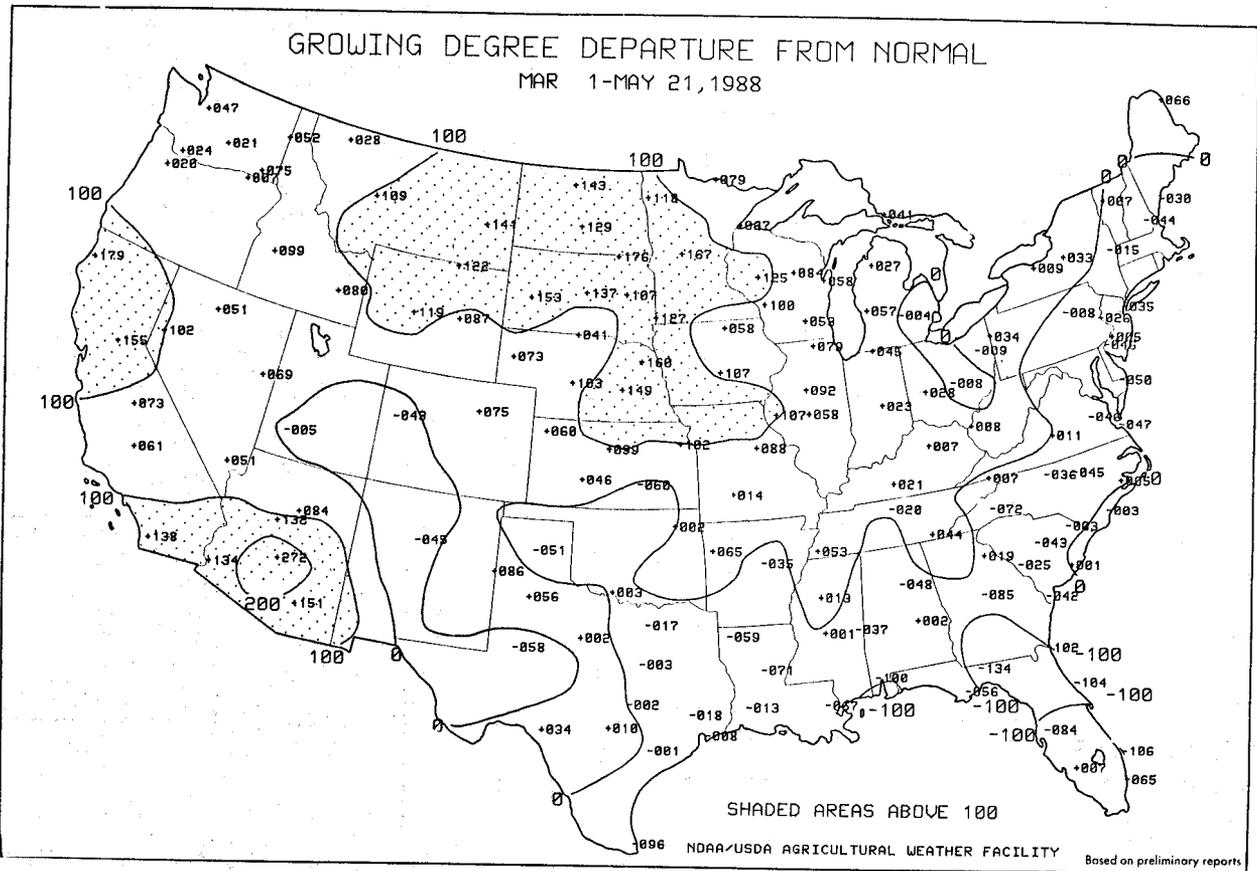
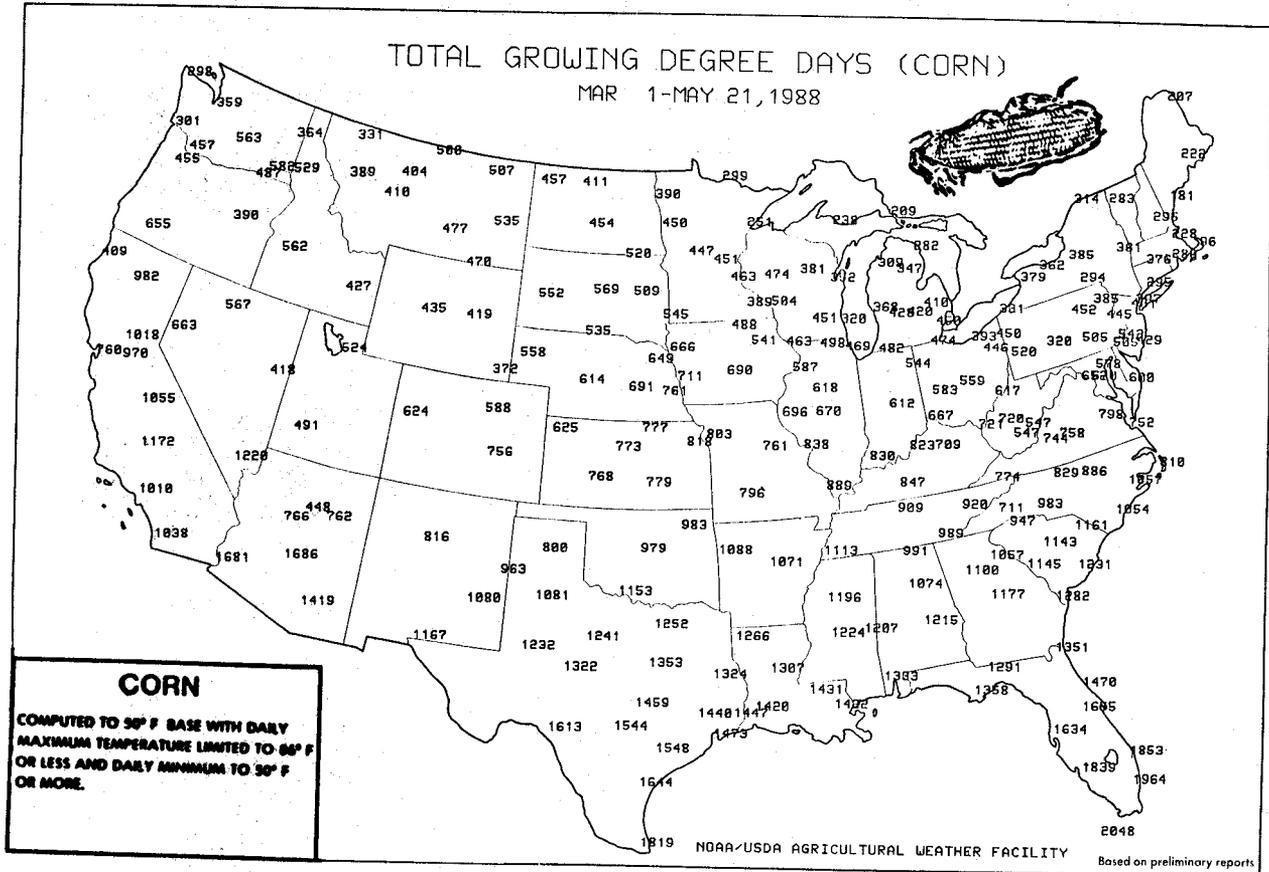
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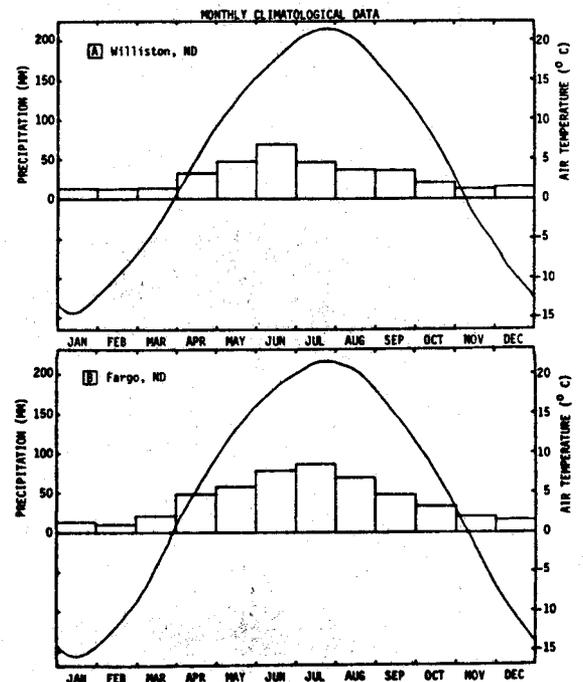
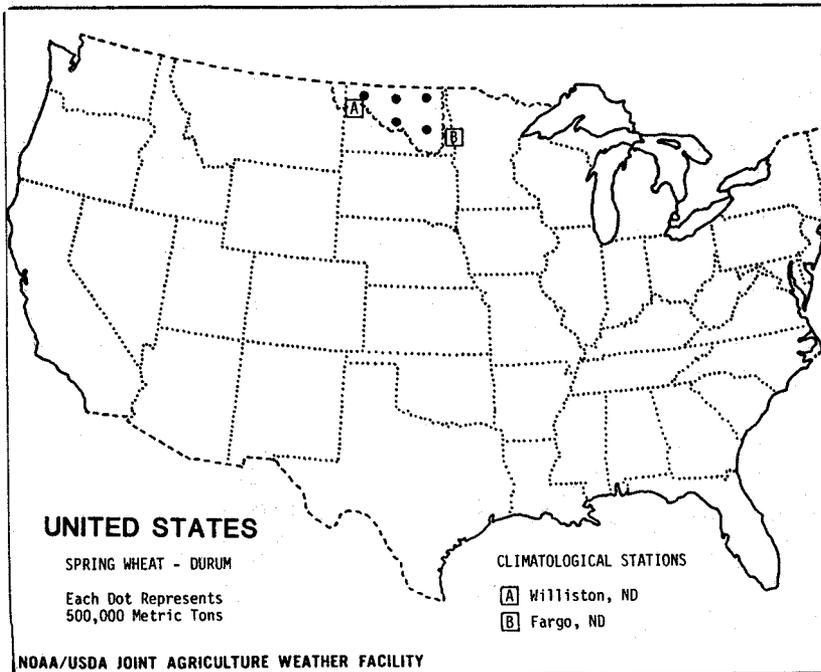
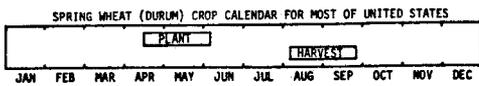
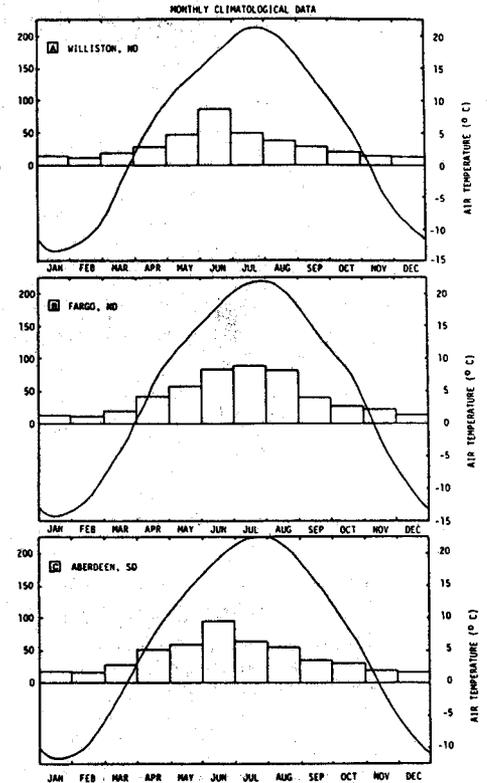
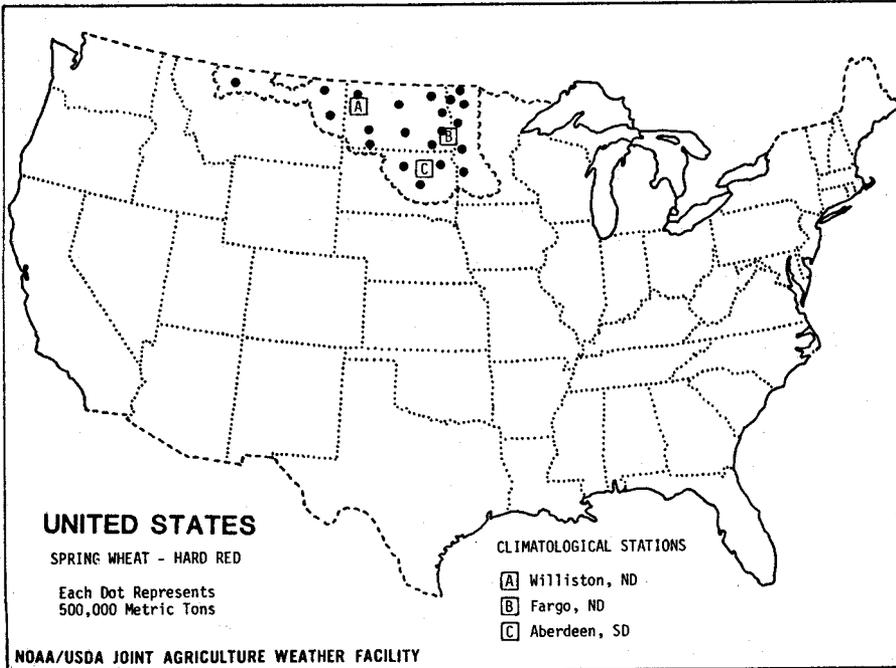
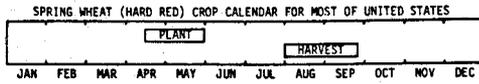
A STORM SYSTEM IS GRADUALLY MOVING THROUGH THE CENTRAL UNITED STATES, BRINGING BENEFICIAL RAIN. THUNDERSTORMS ARE OVER THE MISSISSIPPI VALLEY.

SCATTERED SHOWERS ARE OCCURRING OVER THE NORTHEAST.





SPRING WHEAT AREAS AND CLIMATIC PROFILES



National Weather Data for Selected Cities

Weather Data for the Week Ending May 21, 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	TEMPERA- TURE		PRECIPI- TATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	85	55	90	49	70	-1	.3	-1.0	T	6.6	45	14.2	57	96	35	1	0	1	0	
MOBILE	90	62	94	59	76	1	.4	-.8	T	12.4	80	23.3	93	94	32	3	0	2	1	
AK ANCHORAGE	88	58	92	53	73	0	.6	-.3	T	11.7	90	23.1	106	94	33	2	0	0	1	
BARROW	55	40	59	36	47	0	.4	.2	T	1.6	98	2.3	70	79	46	0	0	1	0	
FAIRBANKS	25	19	30	15	22	1	T	0	T	.2	35	.2	23	97	84	0	0	1	0	
JUNEAU	60	44	65	38	52	2	.2	.1	T	1.0	107	1.5	76	81	43	0	0	0	0	
KODIAK	50	40	54	37	45	-2	1.7	.9	T	9.2	108	18.2	114	98	69	0	0	4	0	
NOME	51	36	61	29	44	0	.1	-1.1	T	17.0	153	34.1	154	93	56	0	0	6	0	
AZ PHOENIX	51	36	56	29	43	6	.2	.1	T	2.1	144	4.0	143	84	54	0	0	2	0	
PRESCOTT	97	74	104	71	86	8	0	0	T	2.1	113	2.4	98	32	15	7	0	0	0	
TUCSON	79	49	85	42	64	6	T	0	T	2.6	97	4.4	73	47	15	0	0	0	0	
YUMA	95	66	103	59	81	6	T	0	T	1.5	139	2.5	98	39	12	7	0	0	0	
AR FORT SMITH	98	68	102	64	83	4	T	0	T	.6	229	1.0	112	59	15	7	0	0	0	
LITTLE ROCK	88	60	93	51	74	4	.3	-.8	T	11.0	97	14.7	93	91	35	5	0	2	0	
CA BAKERSFIELD	86	63	89	59	75	3	0	-1.2	T	8.2	60	14.4	67	61	40	0	0	0	0	
EUREKA	89	59	103	51	74	3	T	0	T	1.8	104	2.9	78	61	23	4	0	0	0	
FRESNO	65	51	73	46	58	6	.7	-.3	T	4.4	49	12.0	56	85	65	0	0	1	0	
LOS ANGELES	87	56	100	52	72	3	0	-1.1	T	3.1	106	5.5	80	80	24	4	0	0	0	
REDDING	71	58	76	56	65	2	0	0	T	1.2	45	4.6	56	91	58	0	0	0	0	
SACRAMENTO	85	54	99	49	70	0	1.1	.8	T	6.3	74	13.7	59	80	22	3	0	1	0	
SAN DIEGO	85	54	99	45	70	4	.2	.1	T	2.6	74	7.2	68	82	29	3	0	1	0	
SAN FRANCISCO	71	60	75	58	65	1	T	0	T	4.3	163	6.7	104	90	63	0	0	0	0	
CO DENVER	75	51	93	50	63	5	.1	0	T	2.3	53	6.6	54	88	40	1	0	1	0	
GRAND JUNCTION	70	46	90	40	58	0	3.7	3.2	T	1.7	61	128	7.1	119	83	42	1	0	3	
PUEBLO	75	49	89	39	62	-1	.9	.7	T	2.6	136	3.9	125	73	26	0	0	3	0	
CT BRIDGEFORD	76	48	92	43	62	0	1.1	.7	T	2.9	108	3.9	121	77	30	2	0	3	0	
HARTFORD	63	53	71	46	58	-1	1.3	.5	T	6.1	61	12.4	76	95	79	0	0	5	1	
DC WASHINGTON	69	52	76	40	61	0	1.0	.2	T	6.5	62	13.8	80	96	62	0	0	5	0	
FL APALACHICOLA	76	60	82	60	68	1	2.6	1.8	T	8.2	95	13.9	98	98	61	0	0	5	0	
DAYTONA BEACH	86	64	87	61	75	0	0	-.7	T	9.0	99	20.4	124	97	45	0	0	0	0	
JACKSONVILLE	87	63	91	58	75	-1	0	-.8	T	7.1	99	14.2	111	99	46	2	0	0	0	
KEY WEST	90	62	93	60	76	0	.3	-.7	T	3	7.1	19.5	124	96	34	5	0	1	0	
MIAMI	84	71	87	68	78	-3	2.6	1.8	T	8.9	187	14.2	166	95	66	0	0	2	1	
ORLANDO	88	71	91	68	79	1	.3	-1.3	T	3.7	40	6.2	46	95	51	2	0	3	0	
TALLAHASSEE	90	67	94	64	78	1	T	-.9	T	8.8	114	13.3	101	97	38	4	0	1	0	
TAMPA	92	57	93	53	74	0	T	-1.2	T	11.6	89	22.2	97	96	30	7	0	1	0	
WEST PALM BEACH	88	65	92	61	76	-1	0	-.8	T	5.9	81	10.1	81	96	43	1	0	0	0	
GA ATLANTA	87	71	89	66	79	0	1.9	.5	T	11.7	120	18.1	120	98	58	0	0	3	2	
AUGUSTA	84	60	89	56	72	2	.4	-.5	T	10.3	79	18.2	81	80	32	0	0	1	0	
MACON	87	55	90	52	71	-1	.1	-.7	T	9.2	87	16.8	89	98	38	1	0	2	0	
SAVANNAH	87	56	89	52	72	-2	.6	-.2	T	9.8	87	17.7	88	97	33	0	0	2	1	
HI HILO	89	64	93	60	76	2	1.7	.6	T	9.7	96	17.2	105	96	35	2	0	2	2	
HONOLULU	82	69	84	68	76	2	.2	-1.8	T	30.5	92	50.8	90	90	62	0	0	4	0	
KAHULUI	88	73	90	71	80	3	T	-.3	T	2.1	36	6.4	52	82	49	1	0	1	0	
LIHUE	85	69	88	64	77	2	.1	-.1	T	2.4	59	11.1	99	86	49	0	0	0	0	
ID BOISE	77	42	91	31	60	1	.1	-.2	T	6.2	63	17.6	89	89	69	0	0	2	0	
LEWISTON	82	42	91	31	60	1	.1	-.2	T	3.6	121	5.4	94	76	17	1	1	2	0	
POCATELLO	75	46	87	43	61	2	T	-.3	T	2.3	75	3.5	64	72	26	0	0	1	0	
IL CHICAGO	73	40	87	33	56	1	T	-.3	T	2.6	91	3.9	80	73	19	0	0	0	0	
MOLINE	72	48	80	40	60	0	.4	-.3	T	4.8	56	8.0	70	86	39	0	0	1	0	
PEORIA	79	50	89	42	65	2	T	-.9	T	5.0	52	7.8	62	86	27	0	0	1	0	
QUINCY	80	53	89	46	67	4	.1	-.8	T	5.0	52	7.8	62	77	30	0	0	1	0	
ROCKFORD	80	52	86	46	66	2	.2	-.8	T	3.6	36	5.2	40	88	35	0	0	1	0	
SPRINGFIELD	77	47	86	38	62	2	T	-.8	T	6.0	65	9.0	76	84	38	0	0	1	0	
IN EVANSVILLE	82	53	89	45	67	3	T	-.8	T	4.4	47	8.0	62	84	29	0	0	0	0	
FORT WAYNE	85	55	92	50	70	4	0	-1.0	T	5.2	44	12.4	70	88	27	2	0	0	0	
INDIANAPOLIS	78	52	88	47	66	2	0	-.8	T	6.3	70	9.8	75	83	38	1	0	1	0	
SOUTH BEND	79	52	88	47	66	2	0	-.8	T	7.6	78	13.0	87	89	37	0	0	0	0	
IA DES MOINES	76	50	87	44	63	3	.1	-.6	T	6.2	69	10.4	77	90	43	0	0	1	0	
SIOUX CITY	80	54	88	44	67	4	.1	-.8	T	2.1	26	3.1	30	74	29	0	0	1	0	
WATERLOO	83	55	92	42	69	6	1.5	.7	T	5.0	80	6.2	78	79	36	2	0	3	2	
KS CONCORDIA	77	49	87	37	63	3	.1	-.9	T	4.7	55	5.8	56	84	34	0	0	1	0	
DODGE CITY	85	58	94	50	71	7	.8	-.1	T	3.0	44	4.4	53	74	32	1	0	2	1	
GOODLAND	81	57	91	49	69	4	.1	-.7	T	4.0	73	5.1	78	84	38	1	0	3	0	
TOPEKA	75	52	92	45	63	4	1.2	.5	T	5.8	141	7.7	157	87	44	1	0	5	0	
WICHITA	84	56	90	47	70	5	1.5	.6	T	6.1	76	8.6	86	87	39	1	0	4	1	
KY BOWLING GREEN	83	60	89	55	71	5	.8	-.2	T	8.3	117	9.0	104	90	46	0	0	3	1	
LEXINGTON	81	53	88	48	67	0	.1	-.8	T	6.1	49	13.3	63	94	35	0	0	1	0	
LOUISVILLE	76	55	85	50	66	1	.2	-.7	T	7.4	63	13.4	72	91	49	0	0	1	0	
LA ALEXANDRIA	81	58	88	54	69	3	.3	-.7	T	8.9	76	16.5	90	94	41	0	0	1	0	
BATON ROUGE	88	63	91	60	75	0	1.3	.1	T	13.0	92	18.0	77	85	39	3	0	1	1	
LAKS CHARLES	89	65	93	60	77	2	.8	-.3	T	14.5	106	30.9	132	86	39	6	0	1	1	
NEW ORLEANS	88	64	94	62	76	1	2.5	1.2	T	12.3	113	20.6	109	97	43	3	0	1	1	
	89	65	92	62	77	2	.7	-.4	T	18.9	150	33.9	148	96	42	5	0	1	1	

Based on 1951-80 normals

Weather Data for the Week Ending May 21, 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 °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	89	62	92	59	75	1	T	-1.1	T	7.4	63	13.0	67	87	37	3	0	0	0
ME CARIBOU	70	47	78	28	58	7	T	-1.4	T	4.1	59	9.5	83	92	56	0	1	1	0
PORTLAND	60	47	70	36	53	0	1.6	.9	.9	8.1	80	13.4	77	99	78	0	0	3	1
MD BALTIMORE	72	58	77	56	65	1	1.3	.9	.9	8.1	87	14.6	95	96	67	0	0	1	1
SALISBURY	74	57	80	52	65	1	1.3	.5	.8	11.7	123	19.8	121	100	70	0	0	5	1
MA BOSTON	60	50	70	47	55	-5	1.4	.6	1.1	7.1	70	13.6	75	98	82	0	0	6	1
CHATHAM	57	47	63	42	52	-1	1.0	.2	.5	7.1	67	14.9	78	99	92	0	0	6	0
MI ALPENA	69	44	82	35	57	4	.1	-.5	.1	6.9	110	9.5	101	94	47	0	0	1	0
DETROIT	73	51	88	46	62	3	.4	-.2	.3	3.5	46	6.8	61	92	48	0	0	4	0
FLINT	73	49	83	40	61	3	.2	-.4	.2	4.4	63	7.2	72	90	49	0	0	1	0
GRAND RAPIDS	74	50	79	42	62	3	.4	-.3	.4	6.2	76	9.7	83	92	47	0	0	1	0
HOUGHTON LAKE	73	48	78	37	61	6	T	-.6	T	5.1	81	7.9	87	81	40	0	0	1	0
LANSING	73	48	82	42	61	3	.5	-.1	.3	6.1	90	8.7	89	93	48	0	0	3	0
MARQUETTE	68	36	78	26	52	1	.1	-.8	.1	5.7	62	10.6	81	86	32	0	3	2	0
MUSKOGON	71	49	77	41	60	2	.1	-.1	.1	6.2	84	10.8	94	87	43	0	0	1	0
SAULT ST. MARIE	70	41	77	31	56	5	.3	-.5	.2	6.4	102	10.5	103	91	35	0	1	2	0
MN ALEXANDRIA	73	49	87	39	61	4	.2	-.5	.1	3.5	65	4.7	68	84	39	0	0	4	0
DULUTH	65	39	81	26	52	1	.1	-.6	.1	6.0	100	6.9	86	87	37	0	2	1	0
INT'L FALLS	67	43	83	30	55	2	.1	-.5	.1	2.8	66	3.4	58	85	46	0	2	2	0
MINNEAPOLIS	74	50	85	37	62	3	.4	-.4	.4	4.4	76	6.1	81	84	38	0	0	1	0
ROCHESTER	72	45	82	32	59	1	.5	-.3	.5	6.2	93	7.5	93	90	43	0	1	1	1
MS GREENWOOD	88	60	92	53	74	1	.9	-.2	.9	8.0	53	12.4	49	86	31	2	0	1	1
JACKSON	89	59	91	52	74	1	.1	-1.0	.1	12.9	87	19.0	79	97	34	4	0	1	0
MERIDIAN	88	55	90	50	72	-1	-.2	-.7	.2	12.1	81	19.1	77	99	34	2	0	2	0
MO CAPE GIRARDEAU	85	57	89	51	71	-1	-.1	-.1	.0	6.9	54	12.2	65	85	32	0	0	0	0
COLUMBIA	80	54	85	44	67	1	.5	-.6	.4	7.9	76	11.7	83	88	41	0	0	2	0
KANSAS CITY	83	59	88	47	71	4	.6	-.4	.3	5.5	61	7.6	66	78	40	0	0	3	0
SAINT LOUIS	84	59	90	52	71	5	0	-.8	0	6.5	71	12.1	92	78	29	1	0	0	0
SPRINGFIELD	81	56	85	45	68	3	.2	-.7	.2	10.3	99	13.8	97	86	41	0	0	2	0
MT BILLINGS	72	45	91	39	59	3	.3	-.2	.3	4.3	94	5.5	88	74	26	1	0	2	0
GLASGOW	76	47	88	39	61	5	.1	-.3	.1	1.5	73	2.2	81	67	18	0	0	1	0
GREAT FALLS	71	39	92	34	55	1	T	-.6	T	2.1	52	3.3	57	68	22	1	0	1	0
HAVRE	73	41	94	37	57	1	0	-.4	0	.5	16	1.0	25	56	18	1	0	0	0
HELENA	72	39	91	32	56	2	.1	-.4	.1	2.7	95	3.5	87	72	22	1	1	1	0
KALISPELL	67	39	83	30	53	1	T	-.4	T	2.9	97	4.7	83	86	32	0	1	1	0
MILES CITY	74	45	87	39	60	2	.1	-.5	.1	.8	23	1.2	25	67	22	0	0	1	0
MISSOULA	70	35	85	30	52	-1	.3	-.1	.3	3.4	117	4.7	92	90	29	0	2	1	0
NE GRAND ISLAND	82	55	94	42	69	6	.2	-.6	.2	3.3	50	4.8	60	78	32	2	0	2	0
LINCOLN	84	55	93	44	69	6	1.2	.3	.7	4.3	59	4.9	54	81	36	1	0	3	2
NORFOLK	80	53	91	44	67	5	3.3	2.5	2.2	6.7	108	7.9	105	82	39	1	0	3	2
NORTH PLATTE	74	49	91	41	61	2	1.7	.9	.7	5.9	114	6.6	109	91	49	1	0	4	2
OMAHA	81	58	90	47	70	5	1.3	.3	1.1	4.2	54	4.8	51	75	52	1	0	3	1
SCOTTSBLUFF	72	44	92	40	58	0	3.4	2.8	2.3	7.5	180	8.4	167	87	40	2	0	5	2
VALENTINE	71	47	91	35	59	0	2.0	1.3	1.3	6.2	133	7.7	143	81	43	1	0	2	2
NV ELY	71	35	82	26	53	2	.1	-.2	.1	2.2	87	3.6	90	76	21	0	3	1	0
LAS VEGAS	91	63	100	58	77	3	0	0	0	.8	103	1.7	100	30	9	4	0	0	0
RENO	78	43	88	37	60	5	T	-.2	T	1.0	60	1.5	39	65	14	0	0	0	0
WINNEMUCCA	76	37	89	29	57	1	.1	-.1	.1	1.9	97	3.3	95	74	18	0	2	1	0
NH CONCORD	67	49	76	34	58	2	.6	-.1	.3	5.7	72	9.9	75	99	65	0	0	5	0
NJ ATLANTIC CITY	67	54	75	43	60	-1	1.3	.6	.8	6.6	71	13.4	83	100	77	0	0	4	1
NM ALBUQUERQUE	78	54	91	45	66	0	.5	.4	.2	2.8	231	3.0	152	75	24	2	0	5	0
CLOVIS	79	56	95	51	68	1	1.5	1.0	.8	2.7	100	3.2	89	74	32	1	0	3	1
ROSWELL	83	57	98	47	70	0	.5	.3	.4	2.1	166	3.8	183	76	28	3	0	3	0
NY ALBANY	69	51	77	36	60	1	1.6	.8	.8	5.9	73	10.9	85	97	65	0	0	5	1
BINGHAMTON	67	51	74	41	59	2	2.8	2.1	2.2	7.8	96	13.2	101	93	66	0	0	5	1
BUFFALO	68	51	82	44	60	3	2.0	1.4	.8	8.5	107	14.2	106	98	61	0	0	4	2
NEW YORK	68	56	74	49	62	-1	2.2	1.4	1.4	7.7	76	13.8	84	99	75	0	0	3	2
ROCHESTER	68	50	85	38	59	1	1.5	1.0	.5	5.7	83	8.6	74	98	65	0	0	6	1
SYRACUSE	70	50	81	35	60	2	2.6	1.9	1.0	7.5	89	11.2	81	97	46	0	0	5	2
NC ASHEVILLE	77	48	83	45	62	-2	.6	-.3	.3	5.7	52	10.3	59	98	39	0	0	4	0
CHARLOTTE	83	58	89	55	71	2	1.3	.5	.8	7.3	70	11.9	65	91	40	0	0	2	1
GREENSBORO	79	54	85	48	67	-1	1.3	.5	.8	7.6	83	11.2	69	98	50	0	0	3	1
HATTERAS	79	63	82	61	71	3	1.1	.1	.6	8.2	83	18.0	96	100	62	0	0	4	1
NEW BERN	84	63	89	58	73	3	1.7	.7	.9	11.3	119	18.6	106	95	49	0	0	3	2
RALEIGH	82	56	88	52	69	2	2.2	1.3	1.3	8.3	92	13.9	86	99	46	0	0	4	2
WILMINGTON	84	61	91	58	73	1	1.7	.7	1.7	11.0	113	18.4	109	100	52	1	0	1	1
ND BISMARCK	73	47	82	32	60	4	.1	-.4	.1	1.5	41	2.6	56	80	30	0	1	1	0
FARGO	70	49	92	34	60	3	.9	.4	.4	2.7	64	4.5	88	89	46	1	0	4	0
GRAND FORKS	69	46	95	30	58	2	.9	.4	.6	2.1	62	2.9	63	91	47	1	1	3	1
WILLISTON	76	46	87	41	61	5	T	-.4	T	2.0	68	3.1	77	78	23	0	0	1	0
OH AKRON-CANTON	70	50	83	46	60	0	.7	-.2	.2	6.8	75	10.6	77	100	62	0	0	4	0
CINCINNATI	77	55	88	50	66	2	.1	-.8	.1	7.9	78	15.6	97	89	41	0	0	1	0
CLEVELAND	68	49	86	43	59	-1	.5	-.2	.3	7.0	82	10.9	82	97	64	0	0	4	0
COLUMBUS	75	51	89	48	63	1	.6	-.2	.5	6.4	70	12.8	91	97	50	0	0	3	1

Based on 1951-80 normals

Weather Data for the Week Ending May 21, 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	76	52	89	48	64	1	T												
TOLEDO	73	49	90	44	61	1	T	-1.8	T	5.6	62	10.8	79	91	43	0	0	1	0
YOUNGSTOWN	70	48	84	38	59	1	T	-1.3	T	3.7	49	6.2	55	96	51	0	0	2	0
OK OKLAHOMA CITY	86	64	90	58	75	6	T	2.2	1.5	1.3	83	11.1	80	97	60	0	0	4	0
TULSA	86	64	90	58	75	6	T	.4	-1.9	.4	11.5	132	119	84	38	1	0	1	2
OR ASTORIA	63	47	79	40	55	3	T	.4	-1.8	.3	10.1	93	12.2	88	83	37	0	0	0
BURNS	71	36	84	28	53	0	T	.6	0	.4	14.9	107	25.0	77	94	62	0	0	0
MEDFORD	78	44	94	37	61	3	T	.1	-1.2	.1	1.9	89	3.2	67	75	20	0	1	1
PENDLETON	72	46	85	42	59	0	T	.1	-1.1	.1	3.7	134	5.7	101	79	31	0	0	0
PORTLAND	70	47	87	46	59	1	T	.6	-1.1	.4	9.5	131	15.6	90	94	46	0	0	0
SALEM	71	43	89	37	57	1	T	.4	-1.1	.3	8.8	111	16.4	83	94	46	0	0	0
PA ALLENTOWN	68	56	74	48	62	2	T	4.7	3.9	2.7	10.6	104	16.6	100	99	74	0	0	0
ERIE	66	49	85	41	58	1	T	1.2	.5	.6	7.3	86	11.3	87	97	68	0	0	0
HARRISBURG	68	57	74	53	63	0	T	2.3	1.5	1.5	9.5	104	15.0	100	97	73	0	0	0
PHILADELPHIA	71	56	77	48	64	0	T	1.5	.8	.9	7.7	82	14.5	94	98	70	0	0	0
PITTSBURGH	73	52	84	45	63	2	T	1.2	.4	.7	6.7	72	11.6	80	99	58	0	0	0
SCRANTON	69	54	75	44	62	2	T	2.8	2.1	2.0	8.3	107	12.0	99	95	61	0	0	0
RI PROVIDENCE	64	50	73	41	57	-1	T	1.1	.3	.4	8.7	82	16.7	90	99	72	0	0	0
SC CHARLESTON	88	65	90	64	76	3	T	.6	-1.5	.6	6.6	68	11.8	72	99	40	1	0	0
COLUMBIA	88	55	93	51	72	-1	T	.4	-1.5	.4	6.2	55	12.3	62	96	32	2	0	0
FLORENCE	86	59	92	54	73	1	T	.5	-1.3	.2	8.5	92	12.5	77	97	39	1	0	0
GREENVILLE	84	55	88	49	69	0	T	1.1	.2	1.1	8.8	68	14.5	67	93	36	0	0	0
SD ABERDEEN	73	49	88	34	61	3	T	2.2	1.6	1.0	3.0	66	3.7	64	87	40	0	0	0
HURON	73	51	88	35	62	4	T	4.0	3.4	2.3	7.1	142	8.0	130	88	53	0	0	0
RAPID CITY	73	46	93	41	60	3	T	.8	.2	.5	4.3	91	4.8	83	79	37	1	0	0
SIOUX FALLS	77	52	87	38	64	5	T	1.1	.4	.5	4.9	80	6.7	89	88	40	0	0	0
TN CHATTANOOGA	84	55	88	50	69	1	T	-1	-1	-1	5.9	43	14.9	63	98	33	0	0	0
KNOXVILLE	81	52	86	47	67	-1	T	.2	-1.6	.2	6.7	57	13.9	67	97	39	0	0	0
MEMPHIS	87	63	91	58	75	3	T	.7	-1.4	.7	8.5	58	16.2	68	74	30	2	0	0
NASHVILLE	84	56	90	50	70	1	T	-1.0	-1.0	T	5.1	39	10.8	50	86	33	1	0	0
TX ABILENE	83	62	92	53	73	-1	T	1.9	1.2	1.2	4.9	85	5.3	69	86	40	3	0	0
AMARILLO	77	54	88	46	66	-1	T	.8	.2	.7	4.7	126	5.0	105	88	38	0	0	0
AUSTIN	86	64	89	60	75	-1	T	1.5	.6	1.2	7.1	92	7.7	65	95	42	0	0	0
BEAUMONT	87	63	93	60	75	-1	T	.4	-1.8	.4	8.8	83	17.1	90	100	48	2	0	0
BROWNSVILLE	87	70	90	67	78	-1	T	-1.5	0	0	1.7	48	7.2	115	93	57	1	0	0
CORPUS CHRISTI	86	67	88	63	76	-2	T	.8	-1.8	T	2.2	46	4.2	53	96	53	0	0	0
DEL RIO	86	65	94	60	76	-2	T	.2	-1.3	.1	.8	20	1.0	19	75	36	2	0	0
EL PASO	88	57	98	48	73	-1	T	.1	-1.1	.1	.5	77	1.4	99	60	16	3	0	0
FORT WORTH	88	64	92	62	76	2	T	.9	-1.1	.9	5.2	54	7.3	55	88	35	3	0	0
GALVESTON	81	69	82	66	75	-1	T	.7	-1.1	.7	10.4	149	14.3	115	86	58	0	0	0
HOUSTON	87	60	91	57	74	-2	T	1.3	.2	1.3	7.4	77	10.0	60	95	41	2	0	0
LUBBOCK	84	58	98	49	71	1	T	.6	0	.6	2.9	79	3.5	77	89	35	3	0	0
MIDLAND	88	59	102	51	73	0	T	1.1	.6	1.0	2.6	96	3.1	83	85	28	3	0	0
SAN ANGELO	84	60	92	53	72	-2	T	.9	.3	.5	4.9	116	5.4	93	83	41	1	0	0
SAN ANTONIO	88	67	91	63	77	1	T	.3	-1.5	.2	2.4	37	3.7	37	88	37	1	0	0
VICTORIA	85	65	88	60	75	-2	T	.3	-1.8	.3	3.8	54	6.6	59	96	50	0	0	0
WACO	88	63	92	60	76	1	T	.6	-1.5	.4	5.0	55	7.1	55	96	40	3	0	0
WICHITA FALLS	88	62	95	56	75	3	T	-1.0	-1.0	T	7.6	97	9.4	96	87	31	4	0	0
UT BLANDING	73	46	86	40	59	2	T	1.1	.9	.6	1.9	100	4.4	105	74	36	0	0	0
CEDAR CITY	71	41	82	33	56	-1	T	.5	.3	.3	5.1	191	6.7	162	81	28	0	0	0
SALT LAKE CITY	74	49	89	42	61	2	T	1.0	.7	.7	4.1	83	5.3	69	76	23	0	0	0
VA BURLINGTON	66	50	76	36	58	1	T	.7	0	.3	4.6	67	7.0	66	96	63	0	0	0
NORFOLK	76	61	81	58	68	1	T	1.8	1.0	.8	9.8	107	15.7	96	99	67	0	0	0
RICHMOND	81	59	87	53	70	3	T	3.2	2.4	1.4	9.0	102	14.6	95	99	54	0	0	0
ROANOKE	77	55	85	51	66	0	T	1.9	1.1	1.0	7.3	80	10.2	67	100	52	0	0	0
WA QUILLAYUTE	63	44	81	34	53	2	T	1.3	.2	.6	30.2	133	47.8	96	97	55	0	0	0
SEATTLE-TACOMA	67	48	85	46	57	1	T	.9	.5	.8	8.7	125	13.5	78	95	52	0	0	0
SPOKANE	70	42	81	38	56	1	T	.1	-1.2	.1	4.1	122	6.2	83	84	27	0	0	0
YAKIMA	73	38	84	31	55	-3	T	-1	-1	T	1.8	127	2.4	69	88	28	0	1	0
WV BECKLEY	69	53	80	50	61	0	T	.6	-1.3	.2	7.2	74	11.1	67	94	57	0	0	0
CHARLESTON	74	56	87	52	65	0	T	.5	-1.4	.4	6.7	67	10.8	65	94	53	0	0	0
HUNTINGTON	74	56	85	54	65	0	T	.3	-1.6	.3	7.8	76	12.2	74	94	54	0	0	0
PARKERSBURG	73	53	86	49	63	-1	T	.4	-1.4	.2	6.8	74	9.6	65	97	58	0	0	0
WI GREEN BAY	72	44	82	37	58	2	T	.7	-1.7	T	3.7	55	6.2	69	82	31	0	0	0
LACROSSE	78	48	88	36	63	2	T	.5	-1.3	.5	5.3	72	6.4	70	84	30	0	0	0
MADISON	75	43	84	33	59	1	T	.8	-1.8	T	4.8	64	7.1	73	88	36	0	0	0
MILWAUKEE	68	47	81	41	57	2	T	.1	-1.5	.1	5.9	77	10.4	98	83	47	0	0	0
WAUSAU	74	43	82	33	59	2	T	.2	-1.9	T	4.7	64	5.1	55	83	27	0	0	0
WY CASPER	68	40	86	34	54	0	T	.2	-1.3	.1	2.6	65	3.7	73	85	33	0	0	0
CHEYENNE	65	42	84	36	54	1	T	2.5	1.9	1.1	5.9	154	7.1	153	89	46	0	0	0
LANDER	69	43	86	37	56	3	T	.6	0	.4	4.2	81	4.7	73	73	27	0	0	0
SHERIDAN	69	42	87	38	56	3	T	.2	-1.3	.2	3.8	80	5.3	84	92	40	0	0	0
PR SAN JUAN	89	75	91	72	82	2	T	.5	-1.9	.3	7.0	70	13.1	87	91	71	2	0	0

Based on 1951-80 normals

National Agricultural Summary

May 16 to 22, 1988

HIGHLIGHTS: Rain provided needed moisture in the central and northern Great Plains but did very little to improve crop condition. Dryness hampered seeding and caused reseeding in the Corn Belt, Delta, and Southeast. Soil moisture remained short throughout most of the eastern half of the Nation. Farmers were able to work 5 to 6 days in most areas of the Nation.

Corn seeding was virtually finished at 95 percent (%) completion. Seeding was 14 percentage points above the 5-year average. Corn reached the dough stage in Texas. Soybeans were 62% seeded, jumping 23 points above the previous week. Cotton planting at 71% completion was just slightly ahead of normal. Cotton began setting bolls in Texas. Sorghum was 46% seeded, compared with 48% and 37% normally. Winter wheat was 62% headed, 4 points above normal. Inadequate moisture plagued development in the northern and central Great Plains. Spring wheat seeding was virtually finished. Peach harvest was underway in the Southeast and Texas. Livestock was mostly good.

SMALL GRAINS: Winter wheat was mostly good to fair in the Corn Belt, Southeast, and West Coast States. Rain provided needed moisture, but crop condition remained fair in the central and northern Great Plains. The dry weather continued plaguing growth and development and began forcing pre-maturity in some areas. Wheat heading climbed 20 points ahead of the previous week to 62% completion. This compares with 70% headed in 1987 and 58% normally. Heading had begun in all major producing States except Montana.

Small grain harvest increased as warmer temperatures matured fields in central and southern Texas. Late-week rain temporarily delayed harvest. In Oklahoma, wheat showed moisture stress. Root rot and mosaic diseases invaded fields in southwestern Oklahoma. In Kansas, dry weather and widespread wheat streak mosaic caused moisture stress in most areas. Russian wheat aphids in the Panhandle and wheat streak mosaic disease in most areas concerned Nebraska's wheat growers. Early, small grain harvest began in California. Small grain harvest continued spreading across the Southeast and Delta.

Spring wheat was 83% emerged, 4 points behind 1987, but 18 points above normal. The crop was mostly fair to good. Spring wheat reached the jointing stage in Minnesota.

CORN: Corn planting was 95% finished, 1 point slower than last year but 14 points above average. Seeding was finished in Iowa and North Carolina and was at least 90% finished except in Pennsylvania and South Dakota. Dry weather and poor germination caused some replanting in Illinois and Nebraska. Corn planting progressed well and emergence was good in Kansas. Early planted corn reached the dough stage in Texas.

SOYBEANS: In the 19 major producing States, soybeans were 62% planted. Planting surpassed the rapid pace in 1987 by 3 points and was 26 points ahead of average. Iowa's seeding progress more than doubled the average at 85% completion. Producers seeded one-fifth or more of the acreage in 1 week in Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Missouri, Nebraska, and South Dakota. Dryness hampered planting in the Delta and Southeast, with seeding lagging behind normal

in Georgia, Louisiana, Mississippi, and South Carolina.

COTTON: Cotton seeding was 71% finished, slightly ahead of 1987 and average. Seeding increased 11 points from the previous week. Moisture pushed Oklahoma's seeding 20 points ahead of the previous week and the 20% average. Planting jumped 20 points ahead of the previous week but lagged 5 points behind normal in North Carolina. Planting was virtually finished in California, Arizona, Arkansas, Missouri, and South Carolina. Cotton was squaring in Texas and Arizona, and began setting bolls in Texas. Strong winds damaged established stands in western Arizona. Reseeding was active in California and Arkansas.

SORGHUM: Sorghum was 46% seeded, 19 points above average. Planting trailed slightly behind 1987. Planting was up 13 points from the previous week. Dryness halted planting in Oklahoma, which fell 10 points behind the 20% average. In Illinois, planting leaped 30 points ahead of the previous week and was 53 points above the 27% average. Sorghum was heading in the Rio Grande Valley, Coastal Bend, and along the Upper Coast in Texas. Early seeded fields turned color.

OTHER CROPS: Rice planting increased 10 points to 94% completion. Planting was virtually finished in the Delta. Emergence was 72% finished, slightly ahead of normal. Producers continued flushing to achieve emergence in the Delta.

Peanut planting climbed ahead of normal throughout most of the Southeast. Planting was still 19 points behind normal in North Carolina and 15 points below average in Virginia.

Burley tobacco was 22% transplanted in Kentucky. Flue-cured transplanting neared completion in North Carolina but was 9 points behind normal in Virginia.

FRUIT AND NUTS: The lack of surface moisture forced heavy irrigation in Florida's citrus producing areas. New crop fruit progressed well. Valencia harvest was active, but grapefruit picking was slow.

Heat heavily damaged California's Thompson seedless grape crop. Coachella Valley table grape harvest continued. Stone fruits were picked, and thinning and brown rot spraying were underway in later varieties. Heavy export demand accelerated valencia orange harvest. Summer grapefruit moved from the Coachella Valley, and lemon harvest continued along the south coast.

Peach harvest was underway in Alabama, Georgia, and South Carolina. Early variety peaches were picked in east Texas.

VEGETABLES: Irrigation was active in Florida's vegetable producing areas. Spring vegetable harvest neared completion in southern Florida but gained in central areas. Planting and harvesting progressed without delay in east Texas, but dry weather caused some problems. Onion, carrot, and cabbage harvests declined seasonally in the Rio Grande Valley. California vegetable harvest consisted mostly of asparagus, broccoli, cauliflower, celery, lettuce, and strawberries.

LIVESTOCK AND PASTURES: Pastures showed signs of inadequate moisture in most areas. Growth was limited and condition was mostly fair. 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 mostly 0.33 to 1.00 in. north; none to under 0.25 in. central, south; over 1.00 in. isolated areas. Temperatures averaged 1 to 2° below normal northeast, 1 to 2° above normal elsewhere.

Days suitable for fieldwork 6.6. Soil moisture 93% short, 7% adequate. Extremely dry most areas; restricted field activities, stressed spring planted crops. Corn 99% planted, 97% 1987, 97% avg.; 11% silked, 10% 1987, 5% avg.; 21% poor, 43% fair, 36% good. Sorghum 49% planted, 43% 1987, 43% avg. Cotton 97% planted, 95% 1987, 92% avg.; 11% poor, 67% fair, 22% good. Peanuts 88% planted, 78% 1987, 80% avg.; 75% fair, 25% good. Soybeans 34% planted, 32% 1987, 28% avg. Wheat 70% turning color, 62% 1987, 63% avg.; 25% harvested, 9% 1987, 8% avg.; 2% very poor, 8% poor, 34% fair, 54% good, 2% excellent. First hay crop 50% harvested, 41% 1987, 28% avg. Peach harvest underway Chilton County. Primary activities: Planting soybeans, sorghum, peanuts; cultivating row crops, applying herbicides; cutting, baling hay; harvesting peaches, commercial vegetables; controlling weeds, fertilizing pastures; spraying fruit, nut trees; building fish ponds, harvesting catfish; general care of livestock, poultry.

ALASKA: Variable weather throughout Railbelt. Lows ranged normal to 6° warmer than normal. Highs ranged 2° cooler than normal to 2° warmer than normal. Seasonal precipitation totals ranged 0.27 in. below normal in Matanuska Valley to 1.00 in. above normal in Tanana Valley.

Days suitable for fieldwork 5.0. Topsoil moisture supplies 6% short, 79% adequate, 15% surplus. Subsoil moisture 2% short, 87% adequate, 11% surplus. Fieldwork progress on schedule compared to week ahead of normal, 1987. Barley, oats for grain 70% seeded. Commercial potatoes 60% planted, 75% 1987. Hardy vegetables excellent progress. Livestock good.

ARIZONA: Very warm, dry weather. Isolated rain showers White Mountains, southeast 15th. Scattered showers, thunderstorms east 18th, 19th. Dry, sunny conditions prevailed 20th. Sunny skies, low humidity, rising temperatures 21st. Rainfall scattered; ranged traces to 0.25 in. Average temperatures 1 to 8° above normal.

Cotton fair to good; 98% planted statewide; 2 points below 1987, 1 point below average. Favorable growing conditions prevailed west; 40% squaring. Strong winds northwest damaged established stands. Spraying for boll weevils occurred central. Replanting west, southeast. Alfalfa harvest increased west; 3rd cutting. Statewide crop good to excellent; light to moderate weed, disease, insect infestations. Small grains mostly good; 100% headed, 80% turning color, 3% harvested. Rapid maturity west. Barley 30% harvested central. Irrigation continued other areas. Corn progressed, irrigation most fields. Table potato harvest continued west. Artichokes, few peaches, apricots harvested Parker-Poston area. Dry onion harvest continued Salt River Valley, Maricopa, central areas. Red potato harvest, shipping continued. Carrots, greens also harvested. Chipper potatoes, few red potatoes harvested, shipped Queen Creek area. Chipper potatoes harvested south central. Head lettuce harvest underway east. Grape harvest expected to start west, central. Watermelon harvest to begin

west. Valencia orange, grapefruit harvest continued central, west.

ARKANSAS: Scattered showers end of week, otherwise very dry. Warm days, cool nights with temperatures averaging near normal. Temperature extremes 43°; 95°. Rainfall totals none to 1.57 in.

Days suitable for fieldwork 7.0. Soil moisture supplies 100% short. Planting progress slow. Irrigation used to aid germination, activate herbicides. Cotton 74% emerged, 86% 1987, 72% avg.; 30% poor, 52% fair, 4% excellent. Some cotton fields replanted. Some rice fields flushed 2 to 3 times for satisfactory stands. Soybeans 13% emerged, 20% 1987, 11% avg.; 28% poor, 67% fair, 5% good. Sorghum 68% emerged, 79% 1987; 5% poor, 91% fair, 4% good. Greenbugs noted in some cotton fields. Wheat turning brown prematurely due to very dry conditions; yield potential could be damaged. Hay yields below average. Pastures below average. Livestock fair.

CALIFORNIA: Warm with rain midweek, 2 to 3° above normal. Small amounts rain north King City to Lake Tahoe line.

Showers interrupted field activities late. Cotton seeding, reseeding active, near complete. Rice seeding full swing. High winds pulled seedlings deeper water some fields. Controls applied watergrass, shrimp, insects. Early grain harvest began. Small grain harvest, hay, silage, green-chop active. Thin, weed active new crop sugarbeets. Overwintered beet harvest continued. Dry bean planting active. Alfalfa harvest normal. Warm temperatures accelerated growth, maturity. Apples sprayed for codling moths. Apricot, Bing cherry harvests continued. Varied split damage to Bing cherries from rains. Coachella Valley table grape harvest continued, heavy damage to Thompson seedless crop from previous heat. Stone fruits picked. Thinning, brown rot spraying underway in later varieties. Summer grapefruit movement active Coachella Valley. Lemon harvest continued south coast. Valencia orange harvest accelerated, heavy export movement. Almond, pistachio nut sets heavy. Artichoke supplies heavy, good quality Castroville. Asparagus cut Delta. Broccoli, cauliflower supplies moderate to heavy, good quality Salinas, Santa Maria. Celery harvested south, central coast. Lettuce supplies heavy, variable quality Salinas. Westside melon plants grew slowly, cool weather. Green onions harvested Westside. Sweetpotatoes planted Merced-Atwater. Strawberry supplies moderate, variable quality Salinas, Santa Maria; harvest somewhat active south coast Modesto-Turlock, Sacramento Valley. Fresh tomatoes planted Merced-Atwater, Delta. Processing tomatoes set fruit Sacramento Valley, Westside. Livestock fair to good. Ranges, pasture fair, deteriorating with warmer weather. Cattle movement slowed. Little supplemental feeding. Water continued low.

COLORADO: Rain statewide late week. Precipitation 0.36 to 3.67 in. Average temperature 1 to 8° above normal.

Days suitable for fieldwork 4.6. Soil moisture supplies 8% very short, 35% short, 41% adequate, 16% surplus. Crop conditions improved as result of showers across State. Winter wheat 78% jointed. Small grain plantings neared completion. Dry beans 5% planted. Sorghum 19% planted, 3% emerged. Livestock good. Ranges, pastures fair to good.

FLORIDA: Dry spell continued. Low humidities, warm afternoons, cool nights. Rainfall limited to few showers, thunderstorms mainly near Atlantic Coast, central interior. Very warm weekend Peninsula. Few rain amounts 1.00 to 2.00 in. or more lower east coast.

Soil moisture mostly short except few areas central area, adequate. Planting cotton, peanut stopped due to dry soil. Irrigation active. Wheat, oat harvest underway. Wheat yields very good. Haymaking started. Sugarcane made good progress. Soil moisture shortage, cool nights reduced grazing supply. Pastures poor to fair Panhandle through most of Peninsula; good to excellent extreme south. Cattle fair to good. Not much rain, lot of irrigation, surface moisture generally dry. New crop fruit progressed well. Valencia harvest active. Grapefruit picking slowed, honey tangerine harvest neared completion. Vegetable areas dry. Irrigation active. Temperatures; daytime, warm; nighttime, mild. Harvest spring crops neared complete south, very active central. Volume leaders: Potatoes, tomatoes, watermelons, sweet corn, cucumbers, peppers, celery. Also good volume cabbage, squash, snap beans, carrots, radishes, eggplant. Belle glade sweet corn harvest at peak.

GEORGIA: Temperatures 1 to 3° above normal. Lows 40° mountains low, mid 50s elsewhere. Highs 90° 3 to 4 days south. Extreme lows 90s south; highs mid, upper 80s north. Rain 1 or 2 days, amounts under 0.50 in., over 1.00 in. mostly east.

Days suitable for fieldwork 6.1. Soil moisture 11% very short, 51% short, 37% adequate, 1% surplus. Corn 35% fair, 56% good, 9% excellent. Cotton good. Sorghum grain fair to mostly good. Peanuts 88% planted, 86% 1987, 87% avg.; 22% fair, 76% good, 2% excellent. Soybean planting active; fair to mostly good. Tobacco fair to good. Watermelon planting neared completion. Wheat 4% harvested, 6% 1987, 11% avg. Apples fair to good. Harvesting peaches. Pastures, hay fair to good. Livestock good.

HAWAII: Variable weather. Record high temperatures leeward areas. Windward areas favorable weather. Sunny skies, cooler temperatures, light to moderate rainfall. Variable winds 5 to 20 mph. Rainfall none to 1.90 in.

Days suitable for fieldwork 7.0. Chinese cabbage production steady. Head cabbage output neared last week, good quality. Head lettuce harvesting light. Watermelon production heavy, expected to continue through rest of month. Papaya production moderate. Ginger root harvest nearly complete. Irrigation heavy. Pesticide spraying increased.

IDAHO: Temperatures near normal, precipitation below normal.

Days suitable for fieldwork 6.0. Soil moisture 6% very short, 43% short, 51% adequate. Irrigation water supplies fair, good. Potatoes 88% planted, 92% 1987, 66% avg.; 10% emergence. Winter wheat good, 22% boot. Spring wheat good. Barley 81% emerged. Oats 77% emerged. Sugarbeet thinning, reseeding damaged fields continued. Corn 85% planted, 46% emerged. Dry bean planting underway. Dry pea, lentil seeding wrapping up. Dry peas 70% emerged, 77% avg. Lentils 65% emerged. Livestock good with movement to summer pastures increasing.

ILLINOIS: Temperature averaged none to 2° above normal. Precipitation averaged less than 0.10 in. north to 1.00 in. or more few central, south spots.

Days suitable for fieldwork 6.8. Soil moisture 98% short, 2% adequate. Corn height 5 in., 6 in. 1987, 3 in. avg.; most advanced 8 in., 11 in. 1987, 6 in. avg.; full stand 88%, 89% 1987; 2% replanted. Soybeans 7% poor, 47% fair, 45% good, 1% excellent.

Wheat 35% filled, 40% 1987, 23% avg. Oats 7% headed, 9% 1987, 6% avg.; 3% poor, 46% fair, 48% good, 3% excellent. Alfalfa 1st crop cut 42%, 36% 1987, 21% avg.; 1% very poor, 1% poor, 28% fair, 66% good, 4% excellent. Red clover cut 35%, 34% 1987, 14% avg.; 40% fair, 57% good, 3% excellent. Pasture 11% poor, 65% fair, 23% good, 1% excellent.

INDIANA: Temperatures 3 to 8° above normal. Lows mid 50s to low 50s, highs mid 70s to low 80s. Precipitation below normal. Totals 0.25 in. north, 0.50 to 1.50 in. elsewhere. Soil temperatures above normal.

Days suitable for fieldwork 6.9. Topsoil moisture 97% short, 3% adequate. Subsoil moisture 83% short, 17% adequate. Corn fair; 80% emerged, 87% 1987, 60% avg. Soybeans 36% emerged, 60% 1987, 27% avg. Oats height 7 in., 11 in. 1987, 9 in. avg. Alfalfa hay 32% cut once, 30% 1987, 16% avg. All other hay 17% cut, 15% 1987, 9% avg. Tobacco plants 9% set, 12% 1987, 7% avg. Pastures 8% very poor, 48% poor, 40% fair, 4% good. Dry conditions continued. Plant growth slow.

IOWA: Temperatures 2 to 6° above normal; extremes 31° to 93°. Rainfall 0.30 to 1.90 in. west, central; none to 0.10 east.

Days suitable for fieldwork 6.9. Topsoil moisture 95% short, 5% adequate; subsoil moisture 58% short, 42% adequate. Oats 1% very poor, 17% poor, 33% fair, 45% good, 4% excellent. Winter wheat mostly poor to fair. Hay 5% very poor, 24% poor, 37% fair, 31% good, 3% excellent. First crop alfalfa 5% harvested, 7% 1987, 4% avg. Corn 90% emerged, 90% 1987, 58% avg. Soybeans 25% emerged, 32% 1987, 13% avg. Livestock mostly good to excellent. Movement of cattle to market. Pastures very short; 17% very poor, 30% poor, 37% fair, 15% good, 1% excellent.

KANSAS: Temperatures averaged low 60s northwest, mid 60s elsewhere, 2° above normal southwest to 6° above normal north central. Precipitation generally light to moderate bands. North 0.50 in., east 0.25 to 0.75 in., northeast 0.50 in. Elsewhere light to none.

Days suitable for fieldwork 6.5. Topsoil moisture 91% short, 8% adequate, 1% surplus. Subsoil 56% short, 42% adequate, 2% surplus. Wheat 90% heading, 95% 1987, 65% avg. Wheat 100% jointing, 100% 1987, 97% avg. Dry weather, widespread wheat streak mosaic caused stress most areas. Corn planting good progress, emergence generally good; 95% planted, 95% 1987, 75% avg. Sorghum 25% planted, 30% 1987, 10% avg. Pre-plant field preparation rapid progress but moisture needed for adequate germination. Soybean 30% planted, 35% 1987, 10% avg. Alfalfa hay 1st cutting 50%, moisture stress, alfalfa weevil reduce prospects normal crop. Range, pasture continued to deteriorate but forage adequate.

KENTUCKY: Week began with clouds, lingering showers over east; sunny warm conditions persisted west. As week progressed, northern winds kept temperatures mild over central and east, afternoon highs remained in 80s over west. End of week, warm southerly winds caused temperatures climb into 80s, few afternoon highs in low 90s. Afternoon, evening showers, thunderstorms, spotty; varied from none up to 0.75 in. evening 22nd.

Days suitable for fieldwork 5.7. Soil moisture 25% very short, 70% short, 5% adequate. Corn planting continued to progress, 75% emerged. Soybean planting progressed considerably, 20% emerged. Burley, dark tobacco setting active. Burley 22%, dark 26% set. Tobacco set 1% very poor, 5% poor, 38% fair, 55% good, 1% excellent. Wheat 95% headed and beyond. Wheat fair to good. Pastures, hay poor to mostly fair.

LOUISIANA: Temperature 1 to 2° above normal. Temperature extremes 52°; 96°. Rainfall averaged 0.27 to 1.72 in.

Days suitable for fieldwork 6.8. Soil moisture 83% very short, 17% short. Spring plowing 100%, 99% 1987, 97% avg. Corn fair; 1% silked, 2% 1987, 7% avg. Cotton 71% emerged; sorghum 64% emerged; soybeans 18% emerged, all below normal. Winter wheat fair to good; 95% turning color, 94% 1987, 89% avg.; 23% harvested, 16% 1987, 19% avg. Hay 1st cutting 50%, 40% 1987, 42% avg. Sweetpotatoes fair; 25% planted, 34% 1987, 46% avg. Peaches fair to good; 2% harvested, 5% 1987, 2% avg. Sugarcane good. Livestock, pecans fair to good. Vegetables, pastures fair. Main activities: Fertilizing pastures; harvesting hay, vegetables, wheat; planting cotton, rice, sorghum, soybeans, sweetpotatoes. Dry weather delaying planting, caused stress to emerged crops, pastures.

MARYLAND & DELAWARE: **Maryland:** Precipitation averaged 2.58 in. Average temperature 66°, normal 64°. Temperature extremes 45°; 86°.

Days suitable for fieldwork 2.2. Topsoil moisture 30% adequate, 70% surplus. Subsoil moisture 80% adequate, 20% surplus. Acreage 90% prepared for planting, 95% avg. Corn 70% planted, 80% avg. Soybeans 15% planted, 15% avg. Tobacco 20% transplanted, 20% avg. Tomatoes 60% planted, 75% avg. Wheat, oats, barley, rye good. Barley, rye 99% headed, 99% avg.

Delaware: Precipitation averaged 1.79 in. Average temperature 63°, normal 64°.

Days suitable for fieldwork 2.6. Topsoil moisture 60% adequate, 40% surplus. Subsoil moisture 80% adequate, 20% surplus. Acreage 85% prepared for planting, 95% avg. Corn 85% planted, 85% avg. Soybeans 10% planted, 15% avg. Watermelons, cantaloups 25% planted, 65% avg. Wheat, barley fair to good. Barley, rye 100% headed, 98% avg. Rye good.

MICHIGAN: Temperatures 3 to 5° above normal. Temperature extremes 27°; 88°. Precipitation none to 0.56 in. across State.

Days suitable for fieldwork 6.5. Soil moisture 90% short, 10% adequate. Corn 90% planted, 95% 1987, 80% avg.; 45% planted; 1% very poor, 3% poor, 24% fair, 55% good, 17% excellent. Soybeans 55% planted, 50% 1987, 25% avg. Wheat 5% headed, 3% 1987, 3% avg.; 1% very poor, 7% poor, 28% fair, 48% good, 16% excellent. Major activities: Corn, soybean, potato planting, herbicide application. Fruit in full bloom or beyond. Vegetable planting, development slightly behind.

MINNESOTA: Temperatures averaged 1 to 6° above normal. Temperature extremes 26°; 92°. Precipitation averaged 0.13 to 0.90 in. Greatest weekly total 1.82 in.

Days suitable for fieldwork 6.0. Topsoil moisture 33% very short, 42% short, 25% adequate. Spring wheat 95% emerged, 96% 1987, 69% avg.; 3% jointing, 9% 1987, 2% avg. Oats 98% emerged, 96% 1987, 78% avg.; 8% jointing, 10% 1987, 3% avg. Barley 95% emerged, 95% 1987, 64% avg.; 1% jointing, 8% 1987, 2% avg. Corn 96% planted, 98% 1987, 77% avg.; 70% emerged, 82% 1987, 36% avg. Soybeans 78% planted, 75% 1987, 39% avg.; 19% emerged, 32% 1987, 9% avg. Sunflowers 72% planted, 79% 1987, 38% avg. Flax 62% planted, 82% 1987 43% avg. Potatoes 84% planted, 89% 1987, 60% avg. Dry edible beans 66% planted, 73% 1987, 36% avg. Sweet corn 65% planted, 71% 1987, 50% avg. Spring wheat 4% very poor, 10% poor, 51% fair, 32% good, 3% excellent. Field corn 3% very poor, 6% poor, 53% fair, 36% good, 2% excellent.

MISSISSIPPI: Temperatures higher than normal. Extremes 47°; 95°. Rainfall below normal.

Greatest weekly rainfall 1.17 in. Delta counties average 0.91 in. below normal.

Days suitable for fieldwork 6.5, 4.7 1987, 4.2 avg. Soil moisture improved to 20% very short, 40% short, 40% adequate. Corn fair; 92% emerged, 94% 1987, 81% avg. Wheat fair to good; 31% mature, 15% 1987, 22% avg.; harvest just begun. Sorghum fair to good; 80% planted, 76% 1987, 64% avg. Cotton fair to poor; 90% planted, 91% 1987, 92% avg. Rice fair to poor; 83% emerged, 86% 1987, 75% avg. Soybeans 22% planted, 23% 1987, 25% avg. Peaches fair to good; harvest just begun. Hay 24% harvested, 25% 1987, 21% avg. Sweetpotato, peanut, watermelon planting ahead of average. Pasture poor to fair; livestock fair to good. Activities: Irrigating, cultivating, applying chemicals, haying, waiting for rain.

MISSOURI: Temperatures averaged 4° above normal except near normal extreme southeast. Precipitation 0.50 to 1.50 in., heaviest south.

Days suitable for fieldwork 6.6. Topsoil moisture 70% short, 30% adequate. Corn 2% very poor, 24% poor, 60% fair, 14% good. Cotton 17% poor, 17% fair, 49% good, 17% excellent. Alfalfa hay 1st cutting 56%, 54% 1987, 29% avg. Other hay 23% harvested, 24% 1987. Hay, pasture growth well below normal. Pastures 22% very poor, 45% poor, 32% fair, 1% good.

MONTANA: Mild week, near normal temperatures west and southwest, 2 to 6° above normal over plains. Precipitation generally light.

Days suitable for fieldwork 6.3. Topsoil, subsoil moisture 57% short, 42% adequate, 1% surplus. Crop condition all cereals decreased slightly. Barley 4% very poor, 16% poor, 39% fair, 29% good, 12% excellent. Oats 3% very poor, 12% poor, 37% fair, 39% good 10% excellent. About 60% cattle, sheep moved to summer ranges. Grasshopper threat developed.

NEBRASKA: Week began warm ended cool. Beneficial precipitation end of week 2.00 in. east to 4.00 northwest. Average temperatures ranged near normal west, 5° above normal east. Extremes 32°; 94°.

Days suitable for fieldwork 4.5. Topsoil moisture 75% short, 20% adequate, 5% surplus. Subsoil moisture 37% short, 60% adequate, 3% surplus. Russian wheat aphids in Panhandle, wheat streak mosaic over most areas still concern. Corn 65% emerged, 74% 1987, 45% avg. Some replanting of early planted fields having poor emergence. Soybeans 15% emerged, 27% 1987, 11% avg. Bean leaf beetles present some early planted fields. Sorghum 10% emerged, 22% 1987, 9% avg. Alfalfa hay 7% poor, 58% fair, 35% good. Alfalfa 1st cutting 9%, 21% 1987, 9% avg. Alfalfa weevils present over most of State; some spraying, early harvesting for control. Wild hay fair to good. Pasture, range feeds short to adequate. Pasture grass growth slow, rain should improve. Weather conditions favorable for livestock.

NEVADA: Except for weak low pressure system that scattered light showers many areas midweek, dry high pressure predominated remainder beginning, end. Temperatures averaged 2 to 6° above normal. Extremes 22°; 103°.

Planting 1988 potato crop completed. Emergence slow due relatively late planting, mostly below normal temperatures since 1st plantings. Alfalfa, spring crops also showing slow growth.

NEW ENGLAND: Precipitation averaged less than 0.25 in. northern Maine and Vermont, 0.25 to 1.00 in. remainder north, 1.00 to 2.00 in. south. Extreme amount West Thompson, Connecticut 2.60 in. Temperatures averaged mid 50s Maine, upper 50s to low 60s remainder. Temperatures normal south, few degrees above normal north.

Days suitable for fieldwork 4.5. Soil moisture 23% short, 59% adequate, 18% surplus. Grazing availability 6% short, 83% adequate, 11% surplus. Maine potatoes 75% planted, 49% 1987, 44% avg. Rhode Island potatoes fair; 99% planted, 84% 1987, 86% avg.; 25% emerged, 15% 1987, 35% avg. Connecticut River Valley potatoes fair to good; 80% planted, 75% 1987, 80% avg.; 60% emerged, 45% 1987, 50% avg. Maine oats 85% sown, 65% 1987, 50% avg.; 5% emerged, 5% 1987, 5% avg. Field corn fair to good; 45% planted, 45% 1987, 45% avg.; 15% emerged, 15% 1987, 15% avg. Sweet corn fair to good; 50% planted, 50% 1987, 45% avg.; 30% emerged, 30% 1987, 30% avg. Outdoor tobacco good; 75% transplanted. Hay good to excellent north, good south. Fruit trees bud to early bloom Vermont, full bloom remainder. Strawberries early to full bloom south, bud to early bloom north. Cranberries bud to early bloom. Major farm activities: Fruit spraying, planting, plowing, fertilizing, fencing, turning cattle out to pasture.

NEW JERSEY: Temperatures averaged slightly below normal. Extremes 49°; 83°. Rainfall averaged 2.94 in. north, 2.40 in. central, 1.42 in. south. Heaviest 24-hour total 1.90 in. on 19th, 20th. Estimated soil moisture percent field capacity averaged 97% north, 94% central, 84% south. Four inch soil temperatures averaged 61° north, central; 62° south.

Wet weather slowed fieldwork. Soil moisture excessive many areas. Harvest of early vegetables, greens active. Fruit continued to make good early size. Very early planted corn up. Planting of field corn, soybeans interrupted by wet conditions. Fall sown grains in head. Most fields good condition. Pasture growth very good.

NEW MEXICO: Continued dry west; showers, thundershowers north central, east. Temperatures near normal throughout week.

Days suitable for fieldwork 6.3. Soil moisture 73% short, 27% adequate. Barley 33% fair, 67% good. Wheat 28% poor, 62% fair, 10% good; 98% heading. Cotton 90 planted. Onions 40% fair, 60% good. Lettuce 50% fair, 50% good; harvest continued. Cattle 70% fair, 30% good. Sheep 57% fair, 43% good. Range 10% poor, 70% fair, 20% good.

NEW YORK: Cool, moist air mass covered State much of week. Average precipitation exceeded 1.00 in. Greatest amount 2.20 in. west. Temperatures 39° Messena to 85° Rochester.

Days suitable for fieldwork 3.6. Soil moisture adequate to surplus. Corn 45% planted, 64% 1987, 44% avg. Oats 70% seeded, 88% 1987, 68% avg. Pastures, hay fair to mostly good. Winter grains mostly good. Weather early week excellent for apple pollination Hudson Valley. Rain Lake Ontario area hampered pollination. Orange County onions in flag to 2 leaf stage. Planting processing snap beans, tomato underway.

NORTH CAROLINA: Temperatures averaged 3° below normal west, 2 to 3° above normal east. Temperature extremes 34°; 95°. Precipitation 0.16 to 3.69 in. across State.

Days suitable for fieldwork 4.5. Soil moisture 1% very short, 16% short, 63% adequate, 20% surplus. Oats 3% poor, 12% fair, 76% good, 9% excellent. Barley 10% fair, 82% good, 8% excellent. Rye 2% poor, 10% fair, 77% good, 11% excellent. Pasture 3% poor, 18% fair, 72% good, 7% excellent. Flue-cured tobacco 91% transplanted, 79% 1987, 85% avg. Tobacco plantbeds 2% poor, 18% fair, 78% good, 2% excellent. Tobacco plant supply 3% short, 87% adequate, 10% surplus. Tobacco in fields 1% very poor, 2% poor, 20% fair, 72% good, 5% excellent. Burley 18% transplanted, 21% 1987, 18% avg. Peanuts 62% planted, 81% 1987, 81% avg.

Sweetpotatoes 24% planted, 18% 1987, 24% avg. Irish potatoes 11% fair, 63% good, 26% excellent. Peaches 3% poor, 9% fair, 77% good, 11% excellent. Truck crops 4% poor, 14% fair, 75% good, 7% excellent. Sorghum 50% planted, 41% 1987, 41% avg. Corn 5% poor, 25% fair, 67% good, 3% excellent. Cotton 11% poor, 31% fair, 58% good. Major farm activities: Planting corn, sorghum, cotton, soybeans, peanuts; transplanting tobacco, sweetpotatoes; tending tobacco plantbeds; bedding land for tobacco transplanting; cutting hay; picking strawberries; fertilizing, spraying nursery crops; cultivating tobacco, truck crops, corn; tending livestock; general farm maintenance. Some locally heavy rains, hail damaged various crops but no serious statewide damage.

NORTH DAKOTA: Temperatures averaged 4 to 7° above normal. Extremes 26° north central; 92° east central. Precipitation heaviest east, scattered showers, thunderstorms elsewhere.

Days suitable for fieldwork 6.1. Soil moisture supplies below normal. Topsoil 29% very short, 52% short, 19% adequate. Subsoil 35% very short, 42% short, 23% adequate. Spring planting ahead of normal pace. Spring wheat 95% planted, 98% 1987, 87% avg.; durum 88%, 96% 1987, 79% avg.; oats 94%, 98% 1987, 86% avg.; barley 95%, 99% 1987, 89% avg.; corn 65%, 70% 1987, 54% avg.; flax 47%, 55% 1987, 45% avg.; soybeans 47%, 47% 1987, 44% avg.; potatoes 82%, 88% 1987, 66% avg.; sunflowers 30%, 33% 1987, 22% avg.; dry edible beans 35%, 40% 1987, 31% avg. Winter wheat 40% emerged through stooling, 54% jointing, 6% boot and beyond. Spring wheat 73% emerged, 3% jointing and beyond, durum 60%, 1%; oats 72%, 4%; barley 73%, 3%. Sugarbeets to be replanted, 43%. Pastures 23% very poor 46% poor, 25% fair, 6% good. Wheat streak mosaic prevalent in winter wheat in western counties.

OHIO: Average temperatures near normal. Average highs below normal, average lows above normal. Extremes low 50s to low 70s. Precipitation 0.10 in. northwest to 0.50 to 0.75 southwest, east.

Days suitable for fieldwork 5.6. Soil moisture 62% short, 35% adequate, 3% surplus. Dry soils slowed germination, emergence west areas. Rains east caused haying problems. Herbicides not working well; too dry. Corn, soybeans, wheat, grasslands fair to good. Alfalfa weevils becoming problem in hay; early harvest used to control infestation.

OKLAHOMA: Temperatures averaged 2° below normal Panhandle to 6° above normal northeast. Precipitation averaged 0.10 in. central to 1.06 in. northeast.

Days suitable for fieldwork 6.6. Topsoil moisture 85% short, 15% adequate. Subsoil moisture 30% short, 70% adequate. Lowest moisture level since last summer. Wheat 7% fair, 93% good; 95% heading, 97% 1987, 95% avg.; 40% soft dough, 45% 1987, 35% avg. Stress from lack of topsoil moisture may reduce yields if rain not received soon. Root rot, take-all diseases invading fields southwest. Sorghum 10% planted, 10% 1987, 20% avg. Cotton 40% planted, 15% 1987, 20% avg. Peanuts 35% planted, 50% 1987, 25% avg. Soybeans 25% planted, 45% 1987, 25% avg. Corn 100% planted, 99% 1987, 80% avg. Row crop activity increased. Most days per week of fieldwork this year. Rain needed for germination of row crops. Some producers await rain before planting. Pastures deteriorated, good to fair condition. Cattle good; marketings, prices slightly higher than preceding week.

OREGON: West temperatures near normal Willamette Valley, 3 to 5° above normal north coast. East of Cascades mostly near normal. Precipitation near normal northwest, several eastern areas; elsewhere rainfall light. Precipitation at coast 0.50 in. to

over 1.00 in. Willamette Valley 0.10 to 0.60 in., southwest 0.30 in., northeast up to 0.50 in. Elsewhere east of Cascades 0.10 in. or less.

Soil moisture 17% short, 73% adequate, 10% surplus. Most Willamette Valley grain fields quite good, some began to head out. Barley nearly all headed, wheat started to head Columbia Basin. Grass seed fields fair to good; rust fungicide sprays applied west. Warmer weather brought good hay growth over most of State. First hay cutting full swing Hermiston-Boardman; just beginning southwest. Crimson clover full bloom Willamette Valley. Cherries sizing nicely with cool weather The Dalles District. Strawberries, raspberries full bloom Willamette Valley; 1st bloom began on boysenberries, marionberries. Recent rains caused some peach disease problems northwest, good crop Douglas County. Scab, mildew sprays applied to apples, pears Willamette Valley. Codling moth cover sprays applied to apples Milton-Freewater District. Bloom sprays applied to hazelnuts west. Douglas County prune set lighter than last year. Cranberry fields started to bloom south coast, frost protection required on 17th; cold retarded insect pest emergence. Rain again slowed, delayed vegetable sowing west; processor scheduling seriously affected. Between storms growers seeded snap beans, beets, sweet corn, squash. Green peas closed canapes; broccoli thinned. At Milton-Freewater asparagus harvest continued with good quality, yields; melon planting completed; early onions began to bulb; early potatoes closed rows; late potatoes emerged, were cultivated. At Hermiston-Boardman green peas bloomed; planted summer squash for processing. Potato planting began central area. Livestock good to excellent. Western pastures mostly good. Excellent pasture growth north coast. Eastern ranges poor to good. Lower elevations drying up. Moisture improved higher elevations materially; with continued rain, warmth highest elevation ranges should remain good.

PENNSYLVANIA: Mild, very wet week. Rain 5 or more days for most stations. Average temperature 61^o, 4^o above normal. Temperature extremes 41^o; 86^o. Average precipitation 2.56 in., 1.74 in. above normal.

Days suitable for fieldwork 2.0. Soil moisture 3% short, 26% adequate, 71% surplus. Plowing 89%, 91% 1987, 86% avg. Corn 56% planted, 70% 1987, 62% avg. Soybeans 16% planted, 33% 1987, 25% avg. Oats 97% planted, 97% 1987, 94% avg. Potatoes 81% planted, 82% 1987, 80% avg. Barley 24% pre-boot, 24% 1987, 23% avg.; 25% boot, 14% 1987, 28% avg.; 51% heading or headed, 62% 1987, 49% avg. Wheat 34% pre-boot, 42% 1987, 43% avg.; 52% boot, 34% 1987, 36% avg.; 14% heading or headed, 24% 1987, 21% avg. Wheat 4% poor, 20% fair, 59% good, 17% excellent. Oats 1% very poor, 3% poor, 22% fair, 61% good, 13% excellent. Hay stands mostly good to fair. Feed from pastures mostly average to below average. Peaches 98% full bloom or past, 100% 1987, 97% avg. Cherries 97% full bloom or past, 99% 1987, 98% avg. Apples 1% pre-pink, 1% 1987, 4% avg.; 5% pink, 5% 1987, 6% avg.; 94% full bloom or past, 94% 1987, 90% avg. Activities: Inside work, paper work, records keeping; machinery maintenance; planting corn, potatoes, oats, hay, soybeans; spring plowing; fence work; hauling manure; spreading fertilizer; caring for livestock.

PUERTO RICO: Island rainfall averaged 1.10 in., 0.45 in. below normal. Highest weekly total rainfall 5.04 in Pico Del Este-Luquillo, 4.08 in. San Sebastian, 3.55 in. Canovanas. Highest 24-hour total 2.70 in. San Sebastian. Total rainfall since January 1st 18.61 in., 13% above normal. San Juan WSFO mean temperature 82^o, 2^o above normal. Total rainfall 0.91 in., 0.42 in. below normal. Divisional temperature averaged 79 to 81^o on

coasts, 73 to 76^o interior divisions. Mean station temperature 64^o Cerro Maravilla to 83^o San Juan City. Lowest minimum temperature 55^o Adjuntas. Highest maximum temperature 98^o San Juan City.

SOUTH CAROLINA: Thunderstorms, showers early week. Strong winds, hail. Temperatures averaged slightly above normal.

Days suitable for fieldwork 5.7. Soil moisture 8% very short, 51% short, 41% adequate. Corn fair to good. Tobacco fair to good. Cotton fair to good; 93% planted, 93% 1987, 93% avg. Peanuts good; 84% planted, 82% 1987, 81% avg. Sorghum fair to good; 33% planted, 43% 1987, 38% avg. Watermelons good; 88% planted, 96% 1987, 97% avg. Sweetpotatoes good; 27% planted, 19% 1987, 30% avg. Tomatoes good. Spring cukes good; 88% planted, 94% 1987, 95% avg. Snap beans good; 78% planted, 92% 1987, 91% avg. Wheat good; 100% headed; 56% turning color, 56% 1987, 70% avg.; 9% ripe, 7% 1987, 26% avg.; 8% harvested. Oats good; 100% headed; 57% turning color, 57% 1987, 67% avg.; 14% ripe, 8% 1987, 32% avg.; 6% harvested. Peaches good.

SOUTH DAKOTA: Average temperatures mostly 1 to 4^o above normal. Extremes 29; 96^o. Badly needed rainfall wide spread over State although northwest, north central received less than 0.25 in.

Days suitable for fieldwork 5.3. Topsoil moisture 24% critically short, 38% short, 34% adequate, 4% surplus.

TENNESSEE: Weak cold front moved through State early week, but brought little rain. Showers west half of State 20th through 22nd. Temperatures near normal most of State; below normal plateau. Ranged 7^o above normal west to 2^o below normal plateau. Rainfall 1.40 in. Memphis to no rain parts of east.

Days suitable for fieldwork 5.9. Soil moisture 41% very short, 49% short, 10% adequate. Corn 93% planted, 92% 1987, 77% avg. Cotton 96% planted, 96% 1987, 83% avg. Sorghum 68% planted, 68% 1987, 58% avg. Soybeans 22% planted, 32% 1987, 20% avg. Cattle good. Pastures fair. Planting, fertilizing, irrigating, baling hay main activities.

TEXAS: Weak cold front triggered thunderstorms central parts Trans-Pecos early week, high pressure most State dry. Midweek moist Gulf air flow into west, upper air disturbance interacted with moisture produce thunderstorms west spread into Rolling Plains, Hill Country. Thunderstorms north, central, southeast. Rainfall above normal High Plains, Trans-Pecos, Edwards Plateau, below normal elsewhere. Temperatures close to normal north central, east, below normal rest of State.

Crops: Small grain harvest increased warmer temperatures helped mature fields central, south. Harvest temporarily delayed by rain late week. Harvest neared Blacklands, Cross-Timbers, Low Plains. Custom harvesters started move into these areas. Rainfall High Plains help dryland fields. Irrigation steady. Fields heading, some early fields blooming. Dry weather, aphids slightly reduced yield prospects. Wheat 3% harvested, 1% 1987, 5% avg. Corn planting continued wind down High Plains. Growth increased with warmer temperatures. Most stands look good. Some wilting dry areas Blacklands, central. Fields doughing south, Rio Grande Valley, latest rain beneficial. Fields Upper Coast dough stage. Corn 15% silked, 6% 1987, 19% avg.; 2% doughing, none 1987, 2% avg. Grain sorghum planting increased Plains with added moisture. Warmer temperatures promoted good emergence. Rain Blacklands, central help, some fields beginning to wilt. Fields heading Coastal Bend, Rio Grande Valley, Upper Coast. Early fields turning color. Sorghum 11% headed, 5% 1987, 15% avg. Cotton planting increased Plains with warmer

weather, increased soil moisture. Rain delayed planting some areas. Producers Blacklands spraying insecticides, cultivating fields. Some fields Coastal Bend, Rio Grande Valley setting bolls, many others squaring. Planting continued Trans-Pecos. Cotton 10% squaring, 4% 1987, 5% avg.; 1% setting bolls, none 1987, none avg. Rice producers flooding fields, some 2nd time. Weed control continued. Progress good. Peanut producers Cross-Timbers began planting activities with latest moisture. Most land preparations completed. Stands, growth good Plains. South fields benefited scattered rain. Soybean planting Upper Coast increased slightly with recent moisture. Most stands good. Land preparations mostly completed Plains. Other field crops: Oats 13% harvested, 9% 1987, 11% avg. Peanuts 20% planted, 22% 1987, 23% avg. Soybeans 35% planted, 32% 1987, 24% avg. Sunflowers 7% planted, 7% 1987, 22% avg.

Commercial Vegetables: Rio Grande Valley onion harvest winding down. Melon harvest increased good yields. Harvest carrots, cabbage declined seasonally. San Antonio-Winter Garden carrot, beet harvest continued. Melons normal progress. East dry weather caused some problems. Planting, harvesting progressed without delay. High Plains onions, potatoes good progress. Some thrips onion fields. Trans-Pecos irrigation steady. Spraying thrips onions continued. Cantaloups emerging. Harvest Presidio continued. Some early variety peaches picked east. Other areas good sizes remaining peaches.

Range and Pasture: Hill Country south ranges received much needed boost from rain, although many remained short. Producers grazing many small grain fields. Hay cutting increased. Livestock conditions holding steady. Producers busy treating, culling herds. Prices good.

UTAH: Precipitation light southwest, heavy southeast, moderate elsewhere. Temperatures 2 to 6° above normal.

Days suitable for fieldwork 5.4. Soil moisture 14% short, 86% adequate. Winter wheat 55% booting, 58% 1987, 28% avg.; 20% headed, 21% 1987, 17% avg. Spring wheat 20% jointed, 28% 1987, 7% avg. Barley 22% jointed, 28% 1987, 16% avg. Oats 22% jointed, 33% 1987, 7% avg. Corn 77% planted, 84% 1987, 61% avg.; 44% emerged, 68% 1987, 32% avg. Winter wheat height 11 in., 16 in. 1987, 11 in. avg. Alfalfa height 12 in., 17 in. 1987, 12 in. avg. Corn height 3 in., 5 in. 1987, none avg. First cutting alfalfa 2%, 10% 1987, 3% avg. Cattle moved to summer ranges 30%, 19% 1987, none avg. Sheep moved to summer ranges 32%, 36% 1987, none avg. Livestock good. Major farm activities: Irrigating, weed spraying, planting corn, moving livestock, maintenance hay equipment.

VIRGINIA: Persistent, slow moving upper level disturbance caused warm, humid conditions, daily shower, thunderstorm activity. Temperatures 3 to 4° above normal, reaching upper 80s. Precipitation above normal, over 2.50 in. northern areas.

Days suitable for fieldwork 3.1. Topsoil moisture 9% short, 58% adequate, 33% surplus. Rain slowed fieldwork, boosted crop conditions. Corn 84% planted, 77% 1987, 86% avg. Soybeans 24% planted, 21% 1987, 30% avg. Peanuts 84% planted, 100% 1987, 99% avg. Flue-cured tobacco 57% transplanted, 38% 1987, 66% avg. Burley tobacco 32% transplanted, 17% 1987, 17% avg. All crops, fruit good to excellent. Hay good, some delays harvesting due to rain. Some lodging in barley due to heavy rain, wind. Cereal leaf beetle control active in wheat. End period hail caused extensive damage to newly transplanted tomatoes in major growing area.

WASHINGTON: Coastal weather disturbances caused scattered showers west of Cascades. Rain shadow effect prevented rains from reaching central, eastern area. Temperatures cool most areas early week, generally warming up around weekend.

Days suitable for fieldwork 7 east, 2 to 3 west. Soil moisture 75% short, 25% adequate. Crop progress continued rapidly, cereal crops developed well. Winter wheat 8% headed, 16% 1987, 10% avg. Winter wheat 5% poor, 40% fair, 40% good, 15% excellent. Winter wheat, barley heading most advanced Grant, Franklin Counties. First cutting alfalfa hay full swing Columbia Basin, later areas just getting underway. Crop conditions most areas improved after previous week's rain, cool temperatures. Fruit drop high some locations Chelan County due to cold problem weather, poor pollination. Apple thinning, application of cover sprays major activities most fruit producing areas. Blueberry bloom period almost over King, Pierce Counties. Strawberries past full bloom most areas western area. Raspberries coming into bloom. Early season vegetables good. Asparagus harvest continued, quality excellent. Planting sweet corn mostly completed except Adams County. Range, pasture 40% short, 60% adequate. Hay, other roughage feed supplies mostly adequate.

WEST VIRGINIA: Average temperature 63°. Extremes 92° Creston; 43° Greenbank. Average precipitation 1.35 in.; 0.20 to 0.61 in. below northwest, southwest; 0.25 to 2.80 in. above elsewhere. Most precipitation Martinsburg 5.45 in.

Days suitable for fieldwork 2.9. Soil moisture 28% short, 48% adequate, 24% surplus. Oats good to fair; 98% planted, 88% emerged. Wheat, barley good to fair. Wheat 76% jointed, 25% headed. Barley 73% jointed, 33% headed. Corn fair to good; 65% planted, 21% emerged. Tobacco fair to good; 98% emerged, 22% set. Apples fair to good. Peaches good to fair. Hail damage in some orchards. Feed supplies short to adequate. Cattle, sheep good to fair. Farm activities: General farm maintenance, planting corn, harvesting hay, gardening.

WISCONSIN: Temperatures normal, averaged 59°. Extremes 21°; 92°. Precipitation none to 0.30 in. Dry, rain needed.

Days suitable for fieldwork 6.7. Soil moisture 73% short, 27% adequate. Crops 3% poor, 27% fair, 65% good, 5% excellent. Corn 92% planted, 89% 1987, 71% avg. Most emerged south, central. Soybeans 55% planted, 40% 1987, 29% avg. Oats, alfalfa generally good, but rain needed. Peas, potatoes good. Some frost damage apples northwest.

WYOMING: Temperatures 2 to 5° above normal most areas. Southeast, south central above normal precipitation; dryer than normal elsewhere.

Days suitable for fieldwork 5.0. Topsoil moisture 31% short, 58% adequate, 11% surplus. Subsoil moisture 36% short, 56% adequate, 8% surplus. Spring wheat 95% planted, most 1987, 90% avg.; 75% emerged, 85% 1987, 75% avg. Oats 85% planted, 90% 1987, 85% avg.; 60% emerged, 70% 1987, 60% avg. Barley 90% planted, most 1987, 90% avg.; 80% emerged, 90% 1987, 75% avg. Sugarbeets 70% emerged, 90% 1987, 75% avg.; some replanting. Corn 70% planted, 75% 1987, 75% avg.; 15% emerged, 40% 1987, 35% avg. Potatoes 30% planted, 65% 1987, 60% avg. Dry beans 5% planted, 30% 1987, 20% avg. Winter wheat fair to good. Livestock mostly good. Most spring calves born. Lambing, shearing continued. Calf, lamb losses light to normal. Ranges, pastures fair to good.

Crop Progress 1/
FOR WEEK ENDING MAY 22, 1988

CORN % PLANTED			
	1988	1987	AVG.
COLO	92	77	78
GA	99	99	99
ILL	99	98	87
IND	99	99	81
IOWA	100	100	90
KANS	95	95	75
KY	92	90	70
MICH	90	95	80
MINN	96	98	77
MO	97	98	79
NEBR	94	96	83
N C	100	94	95
OHIO	95	96	77
PA	56	70	62
S DAK	87	90	57
TEX	99	100	99
WIS	92	89	71
17 STATES	95	96	81

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

COTTON % PLANTED			
	1988	1987	AVG.
ALA	97	95	92
ARIZ	98	100	99
ARK	95	96	92
CALIF	98	100	99
GA	77	81	82
LA	85	88	88
MISS	90	91	92
MO	99	99	86
N MEX	90	88	80
N C	80	74	85
OKLA	40	15	20
S C	93	93	93
TENN	96	96	83
TEX	49	46	46
14 STATES	71	69	68

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

SOYBEANS % PLANTED			
	1988	1987	AVG.
ALA	34	32	28
ARK	24	34	21
GA	32	33	34
ILL	88	80	52
IND	78	79	42
IOWA	85	71	41
KANS	30	35	10
KY	40	32	18
LA	18	28	37
MICH	55	50	25
MINN	78	75	39
MISS	22	23	25
MO	56	53	27
NEBR	55	56	33
N C	27	19	26
OHIO	77	74	46
S C	22	24	23
S DAK	52	63	26
TENN	22	32	20
19 STATES	62	59	36

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

WINTER WHEAT % HEADED			
	1988	1987	AVG.
ARK	100	99	NA
CALIF	98	98	98
COLO	12	9	13
GA	100	100	100
IDAHO	2	8	4
ILL	90	93	66
IND	50	57	46
KANS	90	95	65
MICH	5	3	3
MO	97	93	71
MONT	0	0	0
NEBR	35	58	29
N MEX	98	100	NA
N C	92	89	NA
OHIO	24	36	34
OKLA	95	97	95
OREG	22	64	22
S DAK	3	23	11
TEX	74	94	90
WASH	8	16	10
20 STATES	64	72	NA
EXCL. STATES WITH NA	62	70	58

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

NA - NOT AVAILABLE.

RICE % PLANTED			
	1988	1987	AVG.
ARK	95	97	84
CALIF	80	90	68
LA	95	94	93
MISS	100	96	91
TEX	100	100	100
5 STATES	94	96	86

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

RICE % EMERGED			
	1988	1987	AVG.
ARK	68	86	66
CALIF	45	70	40
LA	82	89	88
MISS	83	86	75
TEX	100	98	93
5 STATES	72	85	70

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

Crop Condition

FOR WEEK ENDING MAY 22, 1988

SPRING WHEAT						
STATE	VP	P	F	G	EX	
IDAHO	0	3	27	55	15	
MINN	4	10	51	32	3	
MONT	5	20	42	27	6	
N DAK	2	11	52	35	0	
S DAK	4	25	43	26	2	

RICE						
STATE	VP	P	F	G	EX	
ARK	0	22	58	20	0	
CALIF	0	5	15	70	10	
LA	0	1	36	63	0	
MISS	0	40	45	15	0	

WINTER WHEAT						
STATE	VP	P	F	G	EX	
ARK	0	22	41	28	9	
CALIF	0	5	20	70	5	
COLO	1	8	25	55	11	
GA	0	0	6	82	12	
IDAHO	0	4	23	54	19	
ILL	0	6	25	63	6	
IND	1	10	72	16	1	
KANS	9	36	38	9	8	
MICH	1	7	28	48	16	
MO	2	19	58	20	1	
MONT	10	17	27	30	16	
NEBR	0	13	55	32	0	
N MEX	0	28	62	10	0	
N C	0	1	11	75	13	
OHIO	1	12	36	40	11	
OKLA	0	0	7	93	0	
OREG	0	0	23	66	11	
S DAK	5	17	44	33	1	
TEX	2	20	39	36	3	
WASH	0	5	40	40	15	

1/ AVERAGES IN THESE SUMMARIES ARE FOR THE YEARS 1983 TO 1987.

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

	GRAIN SORGHUM % PLANTED		
	1988	1987	AVG.
ARK	86	91	80
ILL	80	62	27
KANS	25	30	10
LA	78	77	87
MISS	80	76	64
MO	65	60	41
NEBR	45	50	32
OKLA	10	10	20
S DAK	15	26	14
TENN	68	68	58
TEX	69	66	71
11 STATES	46	48	37

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

	SPRING WHEAT % PLANTED		
	1988	1987	AVG.
IDAHO	98	100	89
MINN	100	100	93
MONT	97	95	90
N DAK	95	98	87
S DAK	100	100	96
5 STATES	97	98	90

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

	SPRING WHEAT % EMERGED		
	1988	1987	AVG.
IDAHO	87	100	71
MINN	95	96	69
MONT	75	79	60
N DAK	76	81	58
S DAK	99	100	88
5 STATES	83	87	65

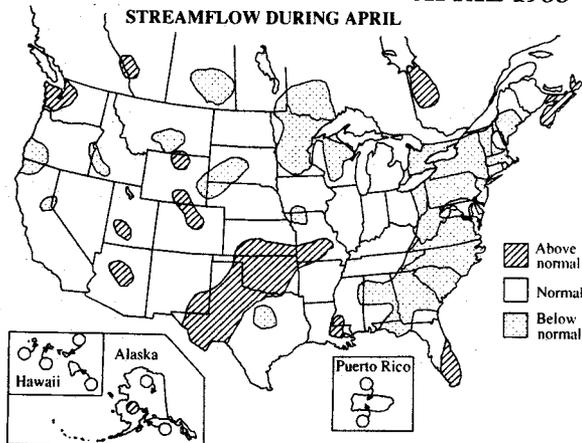
THESE 5 STATES PRODUCED 95%
OF THE 1987 SPRING WHEAT CROP.

National Water Conditions

UNITED STATES
Department of the Interior
Geological Survey

CANADA
Department of the Environment
Water Resources Branch

APRIL 1988



Streamflow was in the normal to above-normal range at 63 percent of the index stations in southern Canada, the United States, and Puerto Rico, the second lowest percentage of stations with flow in the normal to above-normal range for April in the last 6 years. Mean April elevations at the four master gages on the Great Lakes (provisional National Ocean Service data) were lower than those for April 1987. The combined flow of the three largest rivers in the lower 48 States (Mississippi, St. Lawrence, and Columbia) was 8 percent below median during April, after increasing by 26 percent from March to April.

International Weather and Crop Summary

May 15-21, 1988

HIGHLIGHTS:

UNITED STATES ... Rain provides needed moisture in the central and northern Great Plains but improves crop condition very little. Dryness hampers seeding and causes reseeding in the Corn Belt, Delta, and Southeast.

USSR ... In Western USSR, moisture continues adequate to abundant for crop growth in most areas. In the New Lands, spring wheat planting begins under mostly favorable weather conditions.

EUROPE ... Widespread rain benefits winter grains across most growing areas.

SOUTH ASIA ... Beneficial rain continues over eastern rice regions, but showers diminished over the southern tip.

CANADA ... Dry weather persists over most grain regions of Alberta and western Saskatchewan, where moisture is limited for spring wheat germination. Drier weather in the southeastern Prairies promotes planting.

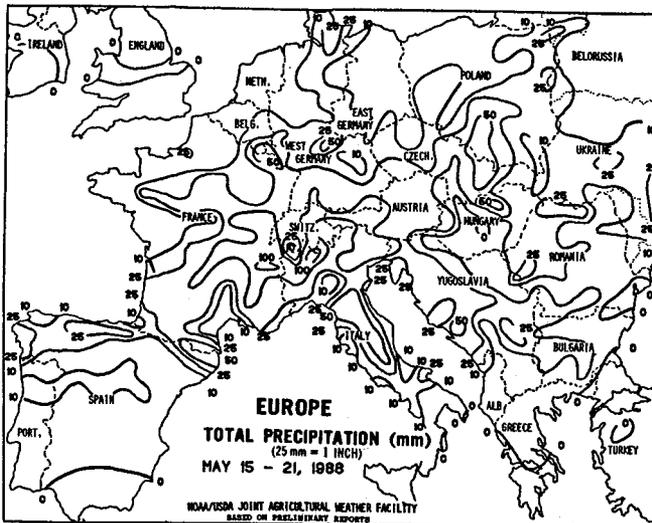
EASTERN ASIA ... Rain favors crops across most growing areas. Very heavy rain likely causes flooding in sections of east-central China.

SOUTHEAST ASIA ... Widespread showers continue across Indochina, maintaining generally favorable planting conditions.

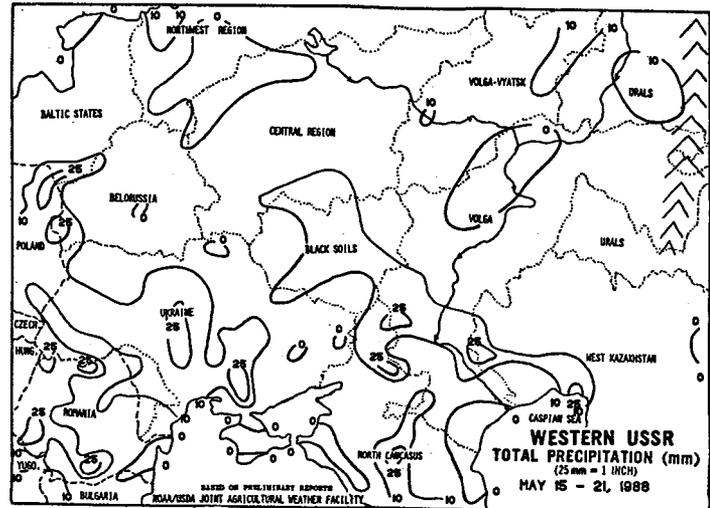
SOUTH AMERICA ... In south-central Brazil, persistent thunderstorms soak Parana's wheat areas, while dryness in the south favors fieldwork. Argentina's summer crop harvest progresses with only light showers over most crop areas.

AUSTRALIA ... Widespread rain favors winter grains across southern crop areas. Mostly dry weather allows harvest progress in summer crop areas.

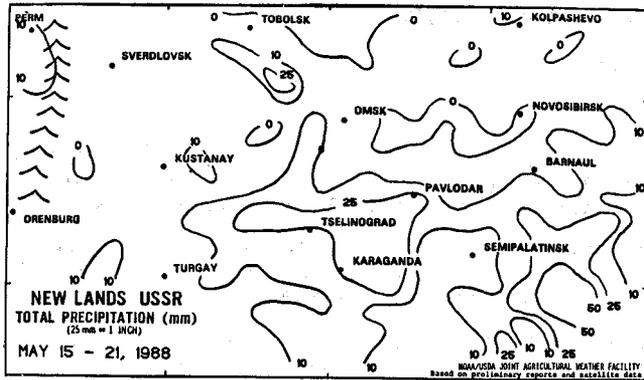
MEXICO ... Mostly dry weather prevails throughout the country.



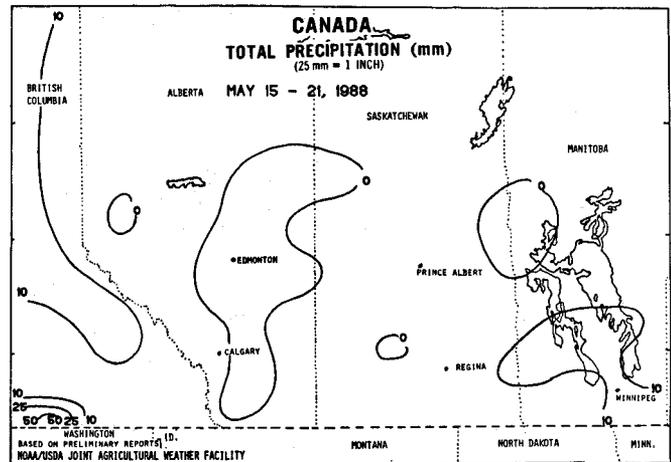
EUROPE ... A frontal system brought moderate to heavy rain (greater than 25mm) to France, West Germany, southern Poland, Czechoslovakia, and Austria. Lighter rain fell across the remainder of northern and eastern Europe, with some crop areas becoming too dry after several consecutive weeks of below-normal rainfall. The rain benefited winter grains but caused delays in late summer crop planting. In the south, widespread rain favored filling winter grains across northern Spain, northern Italy, and much of the Balkans, while extreme southern crop areas remained mostly dry. Average weekly temperatures were near normal across most of Europe except for the east, where they were slightly above normal.



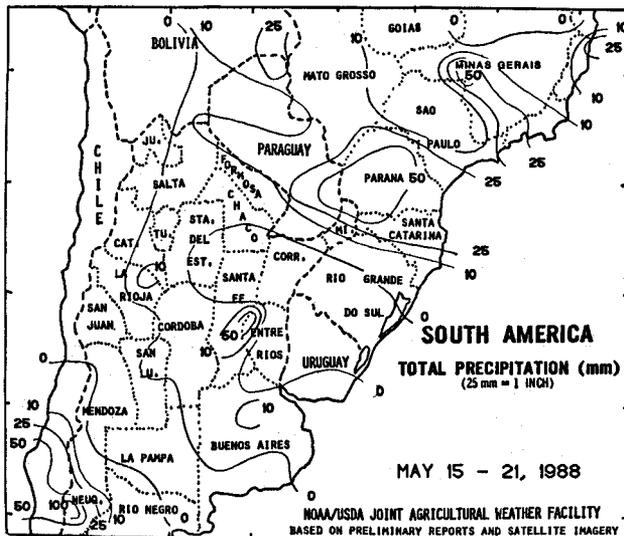
USSR ... In Western USSR, winter grains were jointing over much of the region, and some were entering the highly moisture sensitive reproductive phase of development in southern crop areas of the North Caucasus. Crop progress for spring grains ranged from tillering to jointing over the southern half of the region and emerging to tillering in the north. Sugarbeet and sunflower planting was virtually complete. Widespread light showers (10-25mm) benefited crops in western and southern Ukraine, the central Black Soils Region, the central and northern North Caucasus, and the lower Volga. Precipitation was generally less than 10mm over the remainder of the region. Moisture was generally adequate to abundant for crop growth, but rain was needed in the extreme northwestern Black Soils Region and the southern Volga Vyatsk where moisture was becoming limited. Average weekly temperatures were 1-3 degrees C above normal in the west and 1-3 degrees C below normal in the east.



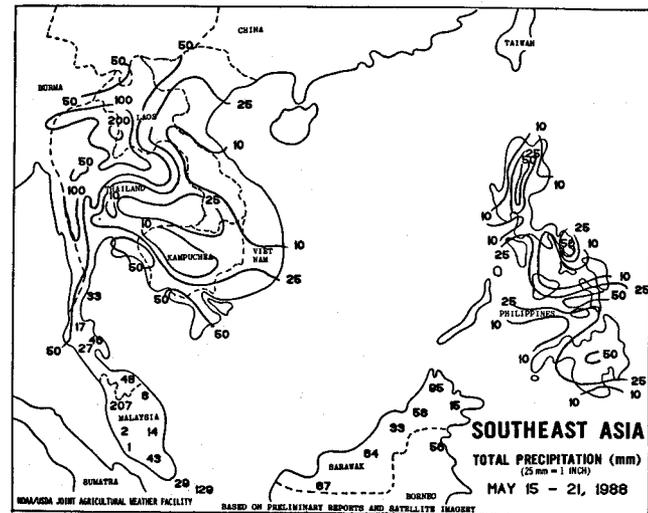
In the New Lands, spring wheat planting began over the region. Planting normally begins in the south and progresses northward. Beneficial showers (10-30mm), over southern spring wheat areas in Kazakhstan and eastern crop areas in West Siberia, provided abundant topsoil moisture for crop emergence but may have caused planting delays. Precipitation was generally less than 10mm over the remainder of the region, allowing spring fieldwork to progress with minimal delays. Topsoil moisture for crop emergence was adequate to abundant in most areas, except in the western Urals and around Novosibirsk, where continued dryness has reduced topsoil moisture.



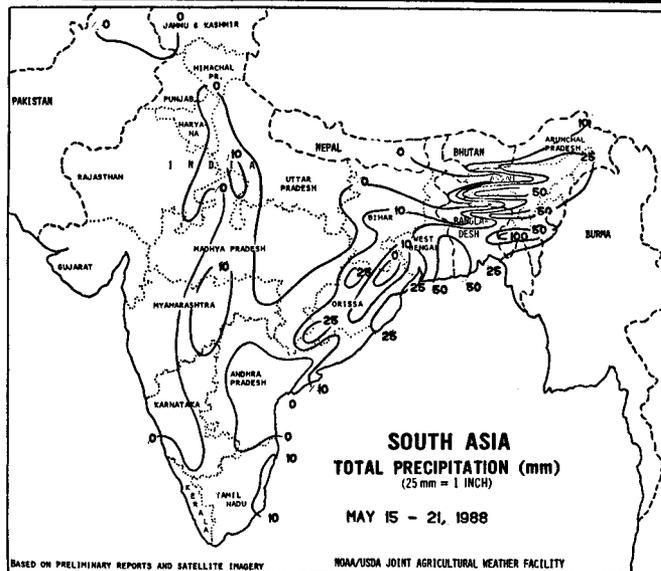
CANADA ... Dry weather persisted over most grain regions of Alberta with minimal rain (less than 3mm) continuing over the western half of Saskatchewan. Topsoil moisture is low throughout the western half of the grain belt, and rain will be needed to ensure proper spring wheat germination. Light to moderate rain (3-17mm) continued in the southeastern Prairies from Regina, Saskatchewan eastward, improving topsoil moisture. Periodic dry weather in the southeast favored planting.



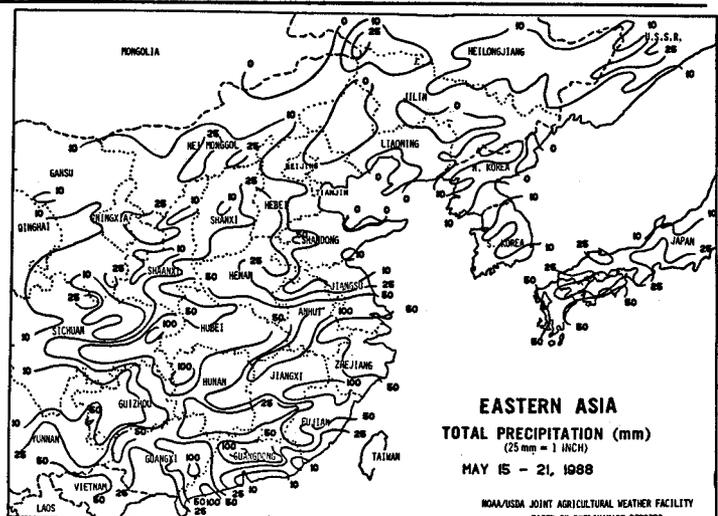
SOUTH AMERICA ... In south-central Brazil, persistent showers and thunderstorms covered Parana and Santa Catarina, producing 25-74mm of weekly rainfall. This wet area extended into southeastern Paraguay, where, further north, showers diminished in intensity from Mato Grosso do Sul to southern Minas Gerais. Frequent rain has soaked Parana's wheat area in recent weeks, hampering crop establishment and delaying late cotton harvesting. Dry weather in Rio Grande do Sul favored late soybean harvesting and wheat planting. In Argentina, mostly light showers (1-13mm) caused minimal, if any, delays in summer crop harvests and early wheat planting. Corn, sorghum, sunflower, and cotton harvesting is advancing into late stages while soybeans are over 25 percent harvested. With the emphasis beginning to shift toward the wheat season, planting moisture will be needed to ensure proper establishment.



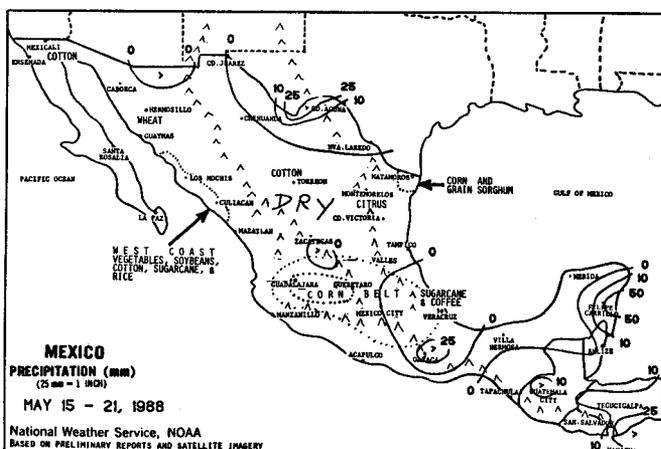
SOUTHEAST ASIA ... Widespread showers continued across Indochina, maintaining adequate to abundant moisture reserves for grain planting. Heaviest rainfall (75-255mm) was concentrated over northern Thailand, and northern Laos, but isolated pockets of heavy rain occurred near Bangkok. The heavy rainfall reached portions of northeastern Thailand flooded by last week's inundating rain. Light to moderate rain (12-40mm) covered most corn regions of central Thailand, where early planting is underway. Moderate to heavy rain (25-50mm or more) fell elsewhere, including most crop regions of peninsular Thailand, but a pocket of light rain (2-12mm) returned to Vietnam's central coast and reached into southern Laos and western Kampuchea. In the Philippines, variable rainfall (10-67mm) covered the islands, with heaviest rain over east-central regions. Grain planting is normally underway in most regions, but planting moisture is becoming limited in northern Luzan.



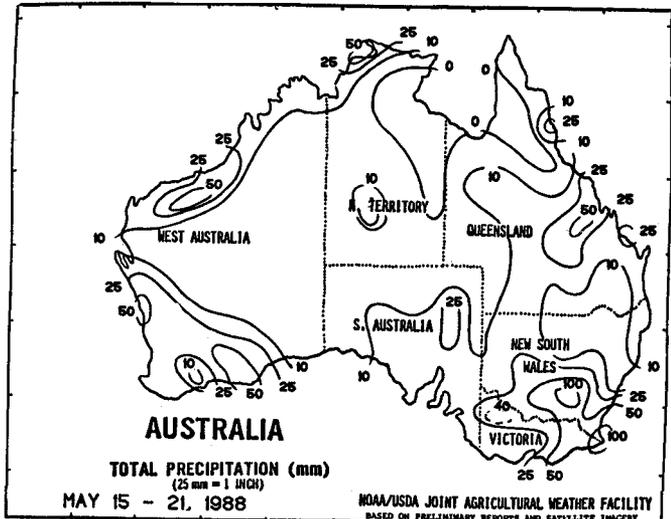
SOUTH ASIA ... Light rain (2-15mm) persisted over India's southern tip, but beneficial rain (10-50mm or more) fell from northern Andhra Pradesh and southern Bihar eastward, increasing moisture reserves for summer crop planting. Dry pockets persisted over northern Bangladesh but increased from the previous week over the southern half of the country, where weekly rainfall ranged from 10 to 92mm. A band of light to moderate rain (1-22mm) cut through central India, but dry weather persisted elsewhere. Temperatures were high in central and northwestern India, reaching the mid 40's C, but cooler in coastal areas, reaching only the mid 30's C in most areas.



EASTERN ASIA ... Heavy rain (greater than 25mm) fell over much of the Yangtze River Valley, favoring filling winter grains but delaying single-crop rice planting. Very heavy rain (more than 100mm) caused flooding in sections of Hunan, northern Jiangxi, Fujian, and Anhui. Widespread rain also fell over western and northern growing areas, favoring winter grains. Light rain (less than 10mm) caused minor planting delays across eastern Manchuria, while other northeastern summer crop areas remained mostly dry. In the south, widespread rain favored early double-crop rice, which is vegetative to reproductive. Above-normal weekly average temperatures induced rapid crop growth and development across all but extreme northwestern growing areas, where temperatures were near normal.

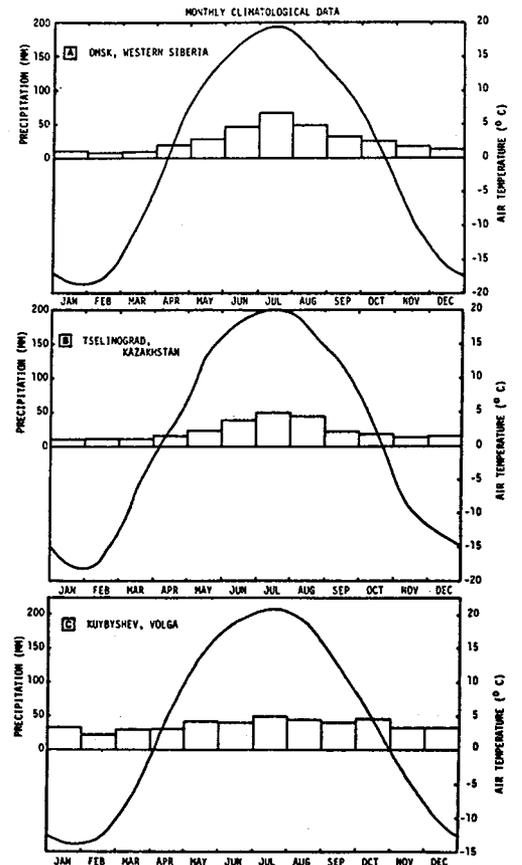
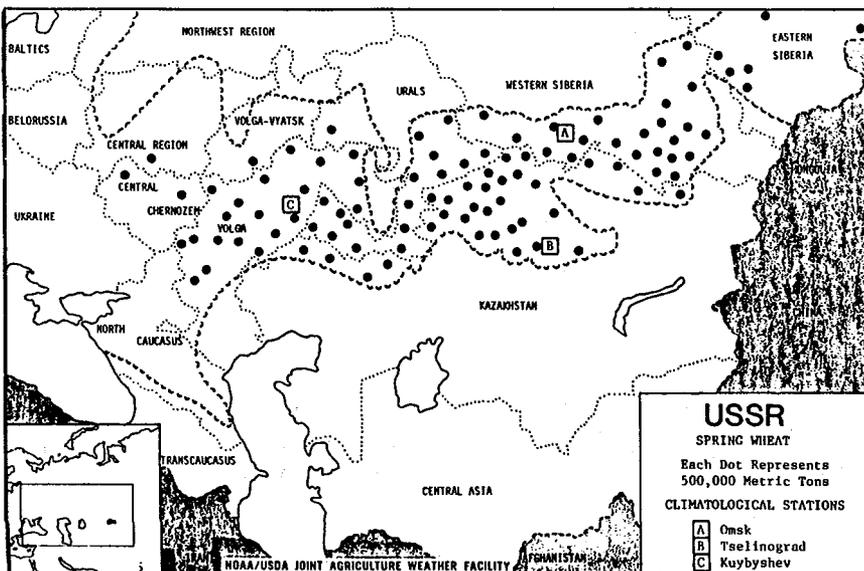
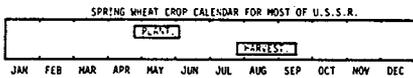
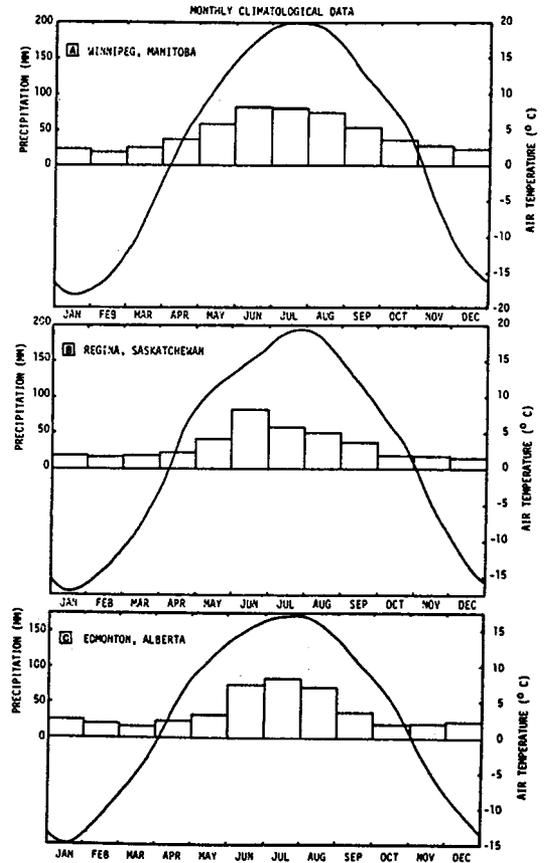
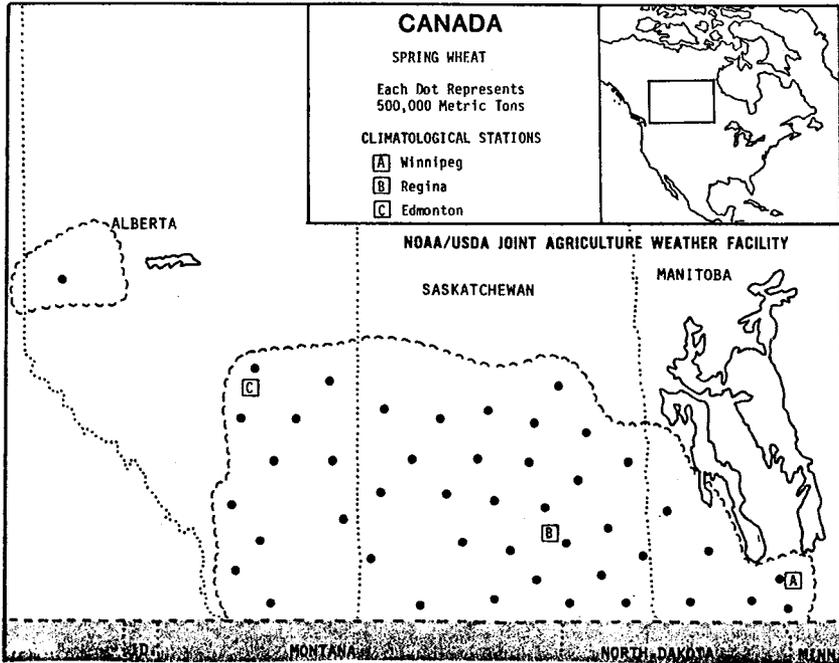
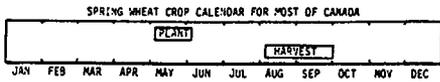


MEXICO ... Mostly dry weather prevailed throughout the country. Light showers fell in the extreme north and in the eastern third of the Southern Plateau corn belt. Weekly rainfall amounted to only 7mm or less in these areas, except for an isolated heavier amount (35mm) in Oaxaca along the southern fringe of the corn belt. Dryness in the northwest favored wheat harvesting, but moisture reserves are low for summer crops throughout northern and western crop areas. Weekly temperatures generally averaged near normal.



AUSTRALIA ... A pair of low pressure centers moving south of Australia, and moisture from the remnants of a tropical cyclone, combined to bring widespread rain (generally greater than 15mm) to most southern winter grain areas. The rain benefited newly emerging wheat and barley and helped to relieve pre-planting dryness in some areas of Western and South Australia. Very heavy rainfall (greater than 100mm) in southeastern New South Wales and eastern Victoria may have caused localized flooding. In northern New South Wales and southern Queensland, mostly dry weather favored progress in summer crop harvest and fall planting, while moderate to heavy rain in central Queensland led to harvest delays. Average temperatures for the week were normal to above normal over all crop areas.

CANADIAN AND USSR SPRING WHEAT AREAS



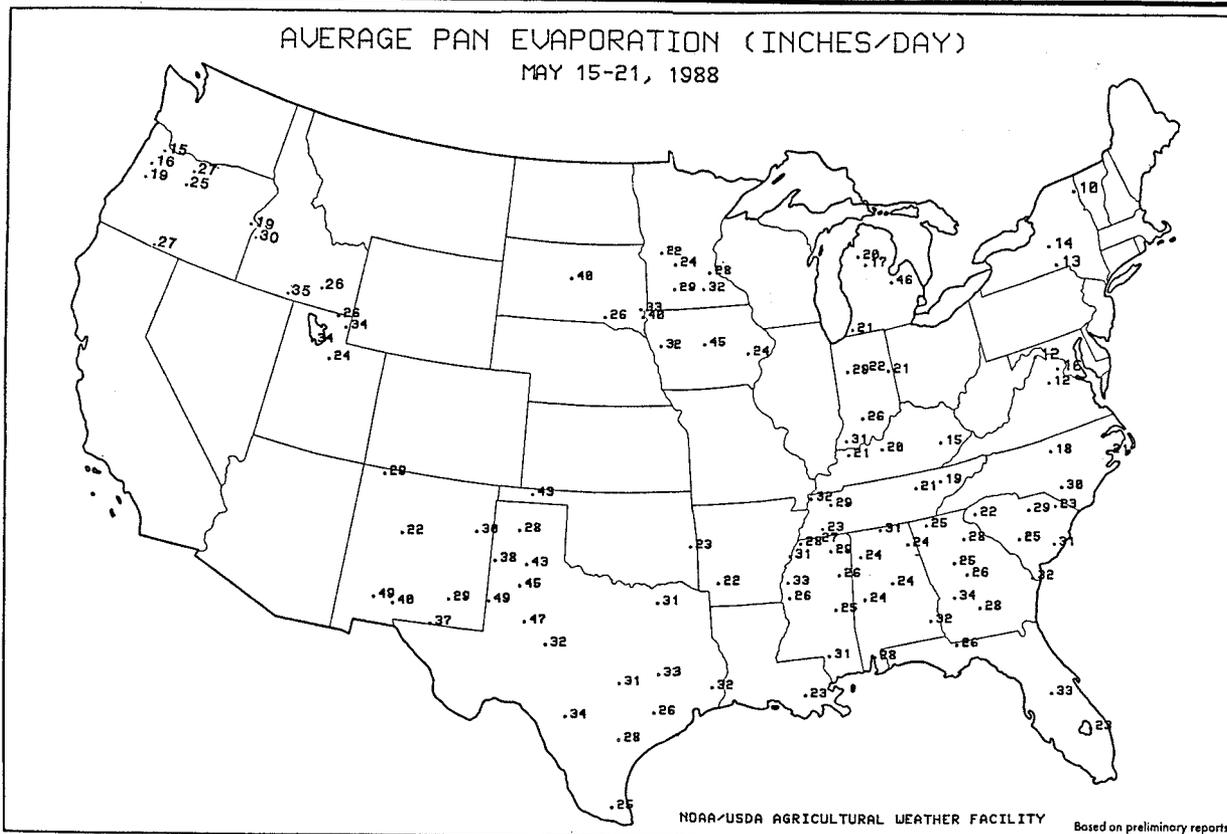
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