

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

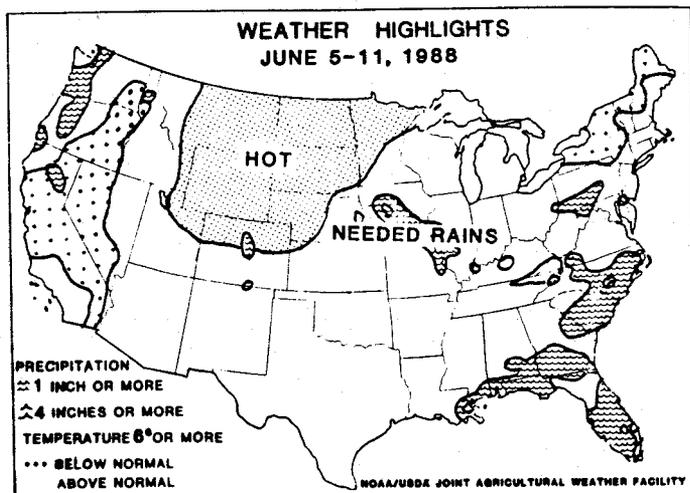
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June 14, 1988

National Weather Summary

June 5 - 11, 1988



HIGHLIGHTS: Hot, dry weather persisted across the northern Plains. Portions of the western Corn Belt received substantial rain during the middle of the week, but the remainder had only light or no rain. Dryness covered the Great Plains and extended into parts of the Southeast. Temperatures remained below normal in the West and cool weather dominated the East at week's end.

SUNDAY...Very hot weather with gusty south winds continued across the northern Plains. Scattered showers were over New England and along the Gulf of Mexico and across Florida. Dry weather prevailed over the remainder of the eastern half of the Nation.

MONDAY...A stagnate weather pattern kept the north-central United States hot, the Northwest cool and damp, scattered showers in the Southeast, the Northeast cool, and fair and warm weather elsewhere across the Nation.

TUESDAY...The weather pattern changed little with warm weather over most of the Nation and the Northeast and Far West remaining cool. Snow fell in the higher elevations of northern California and scattered showers and thunderstorms were in the Northwest, Northeast, central Plains, and along the eastern Gulf coast.

WEDNESDAY...A frontal system that extended from the mid-Atlantic coast to south-central Canada worked its way slowly southward bringing in cooler air and relief from the heat. Thunderstorms developed south of the system from Virginia to the upper and middle Mississippi Valley. Parts of Iowa, Missouri, and Illinois received abundant rain. Wide-spread rain continued in the extreme Southeast. Showers lingered over coastal Oregon and northern California.

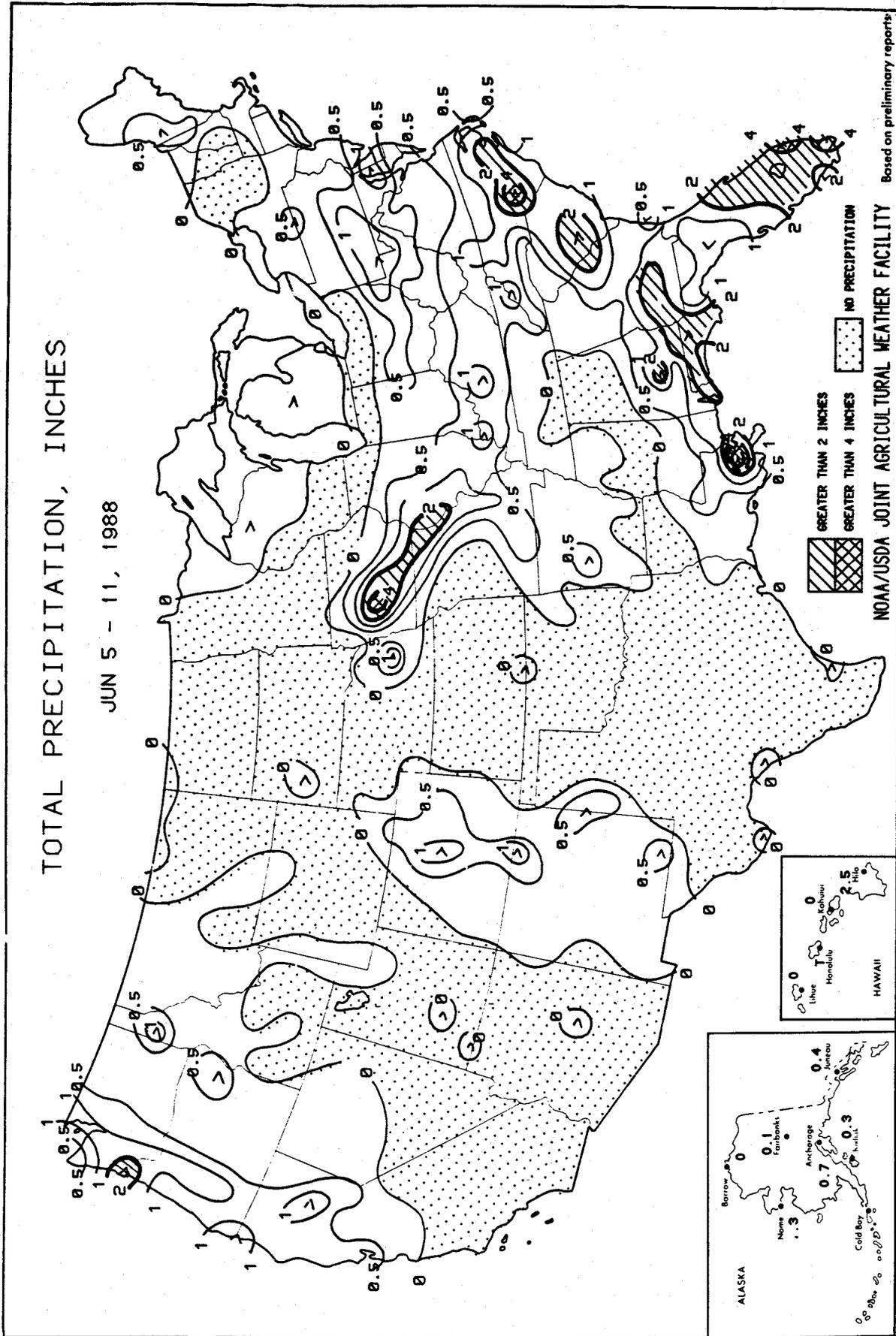
THURSDAY...The frontal system moved to the Southeast bringing needed rain to the Ohio and Tennessee Valleys and mid-Atlantic States. Thunderstorms spread across the deep South and central High Plains. A large mass of high pressure brought much cooler air into the central United States.

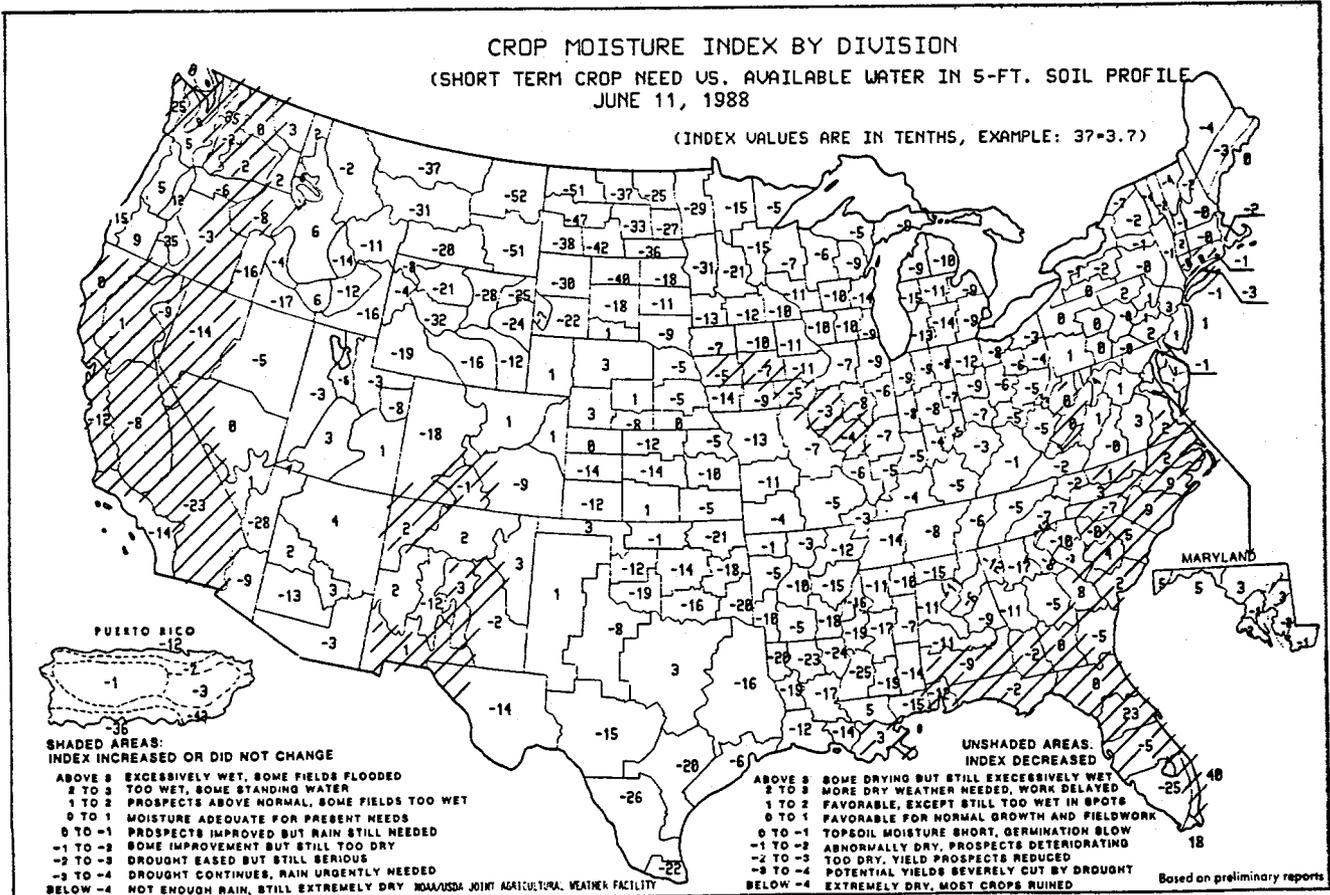
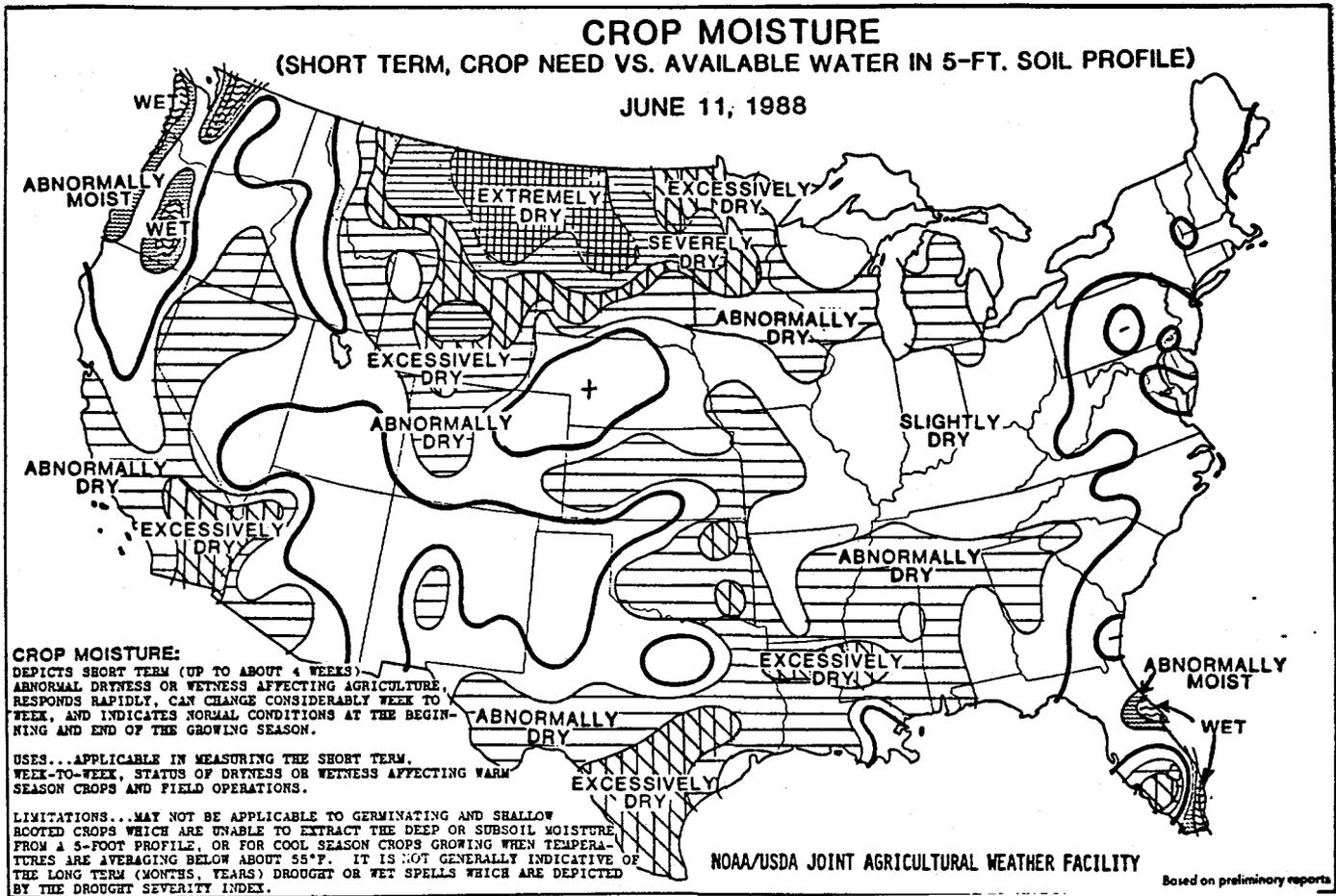
FRIDAY...The large high pressure system, responsible for record-low temperatures, pushed most of the moisture in the eastern half of the Nation out to sea. Much of the country was dry. Showers were scattered in the Northwest, central and southern Rockies, and along the Gulf coast.

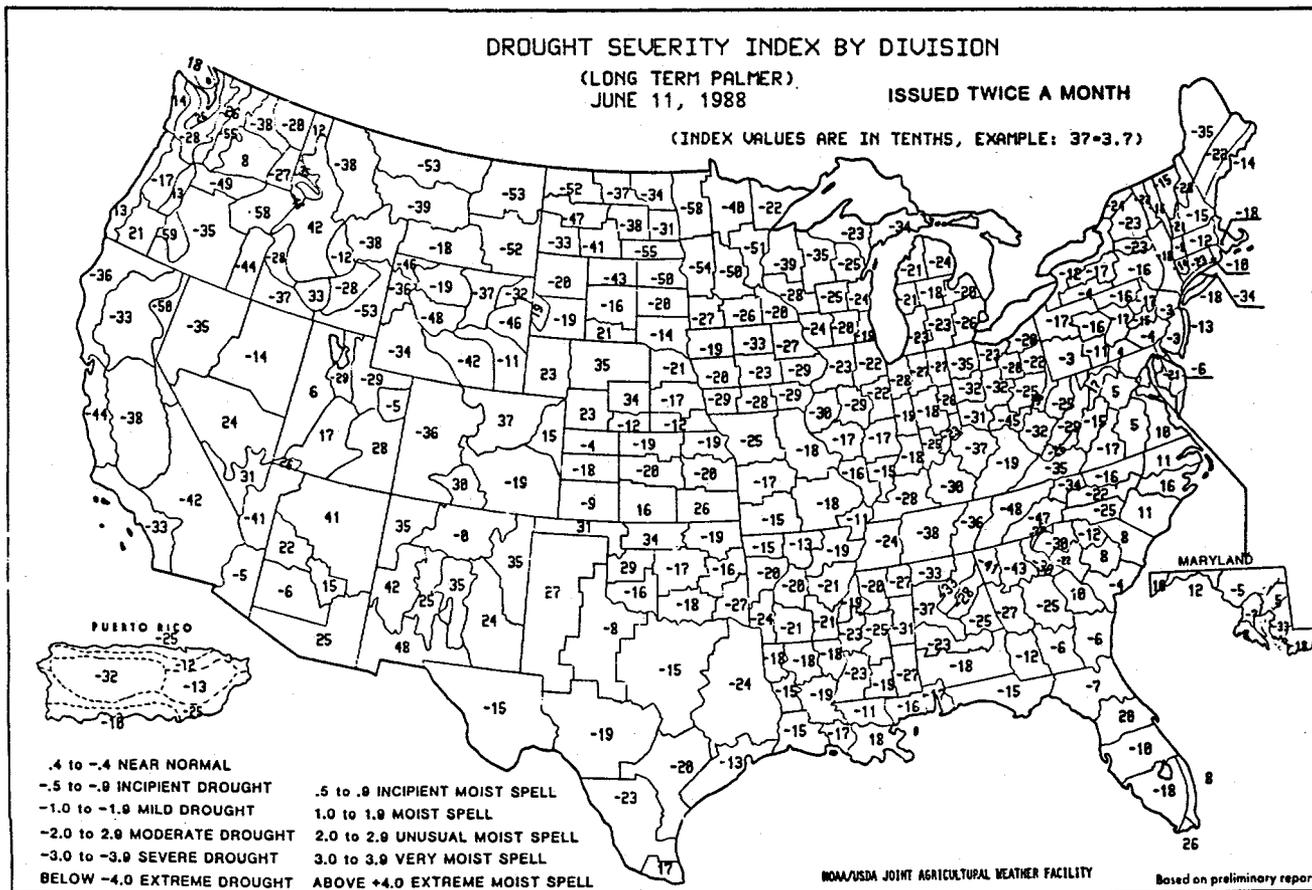
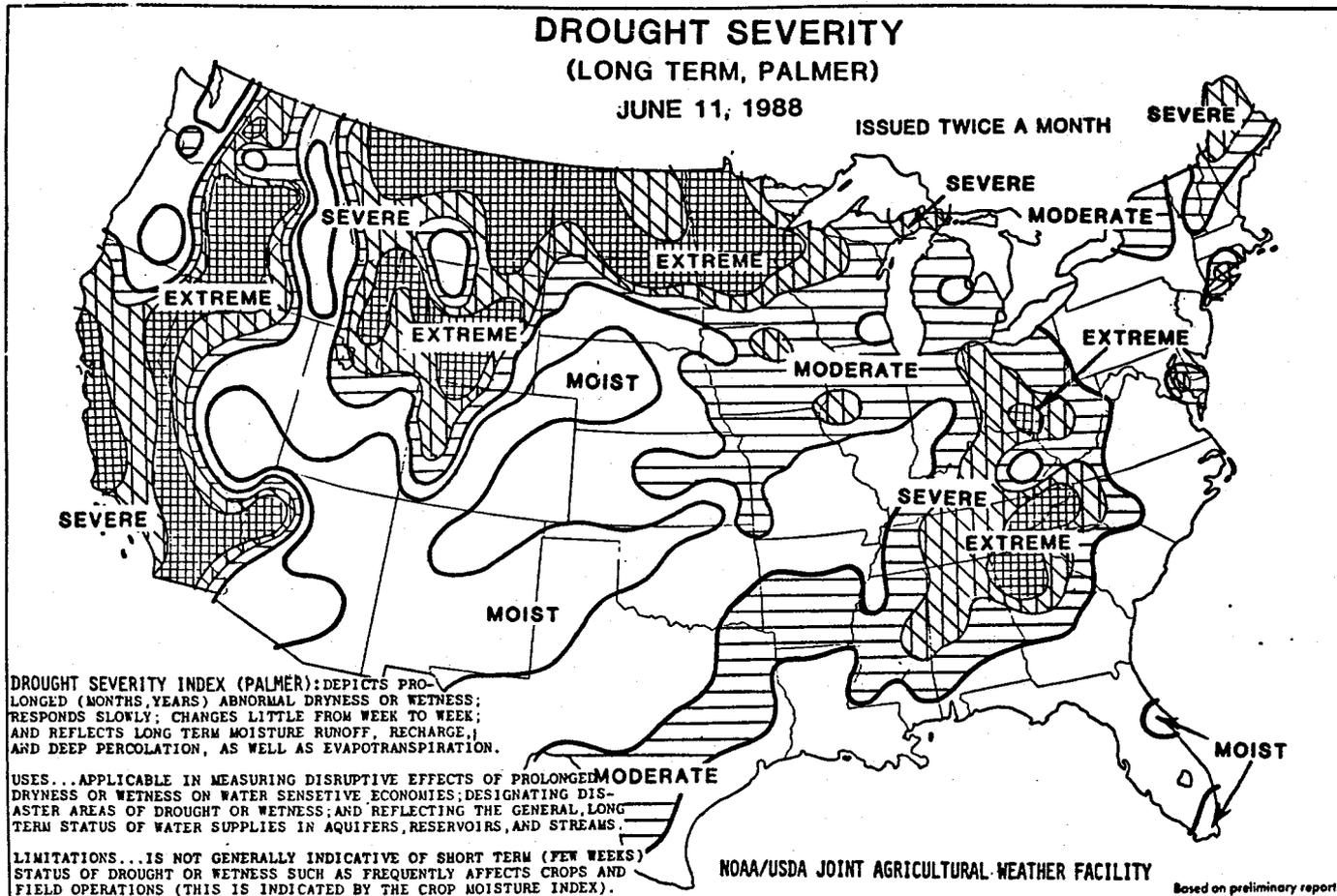
SATURDAY...Much of the Nation continued to be very dry. Thunderstorms became widespread in the afternoon over the Rockies.

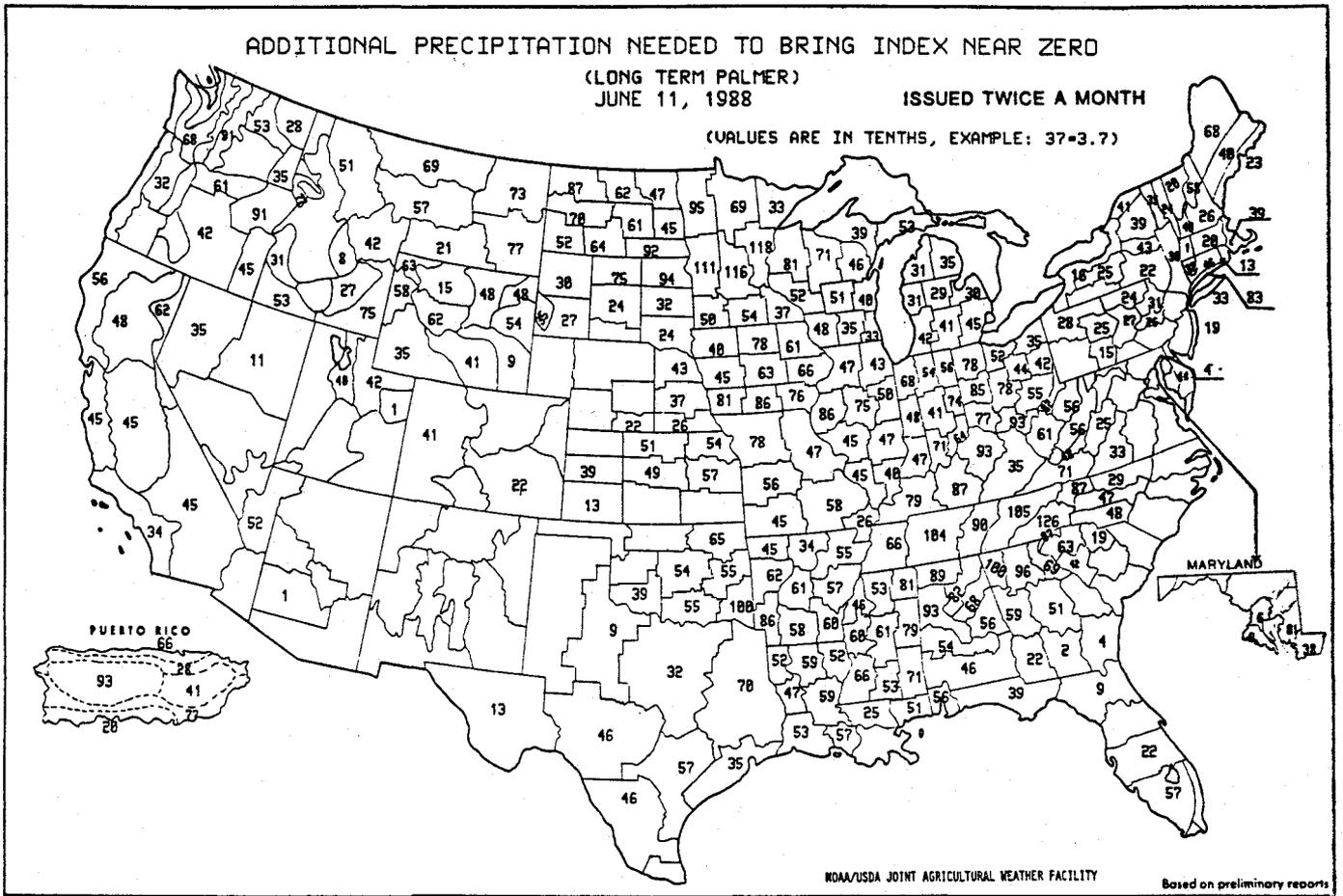
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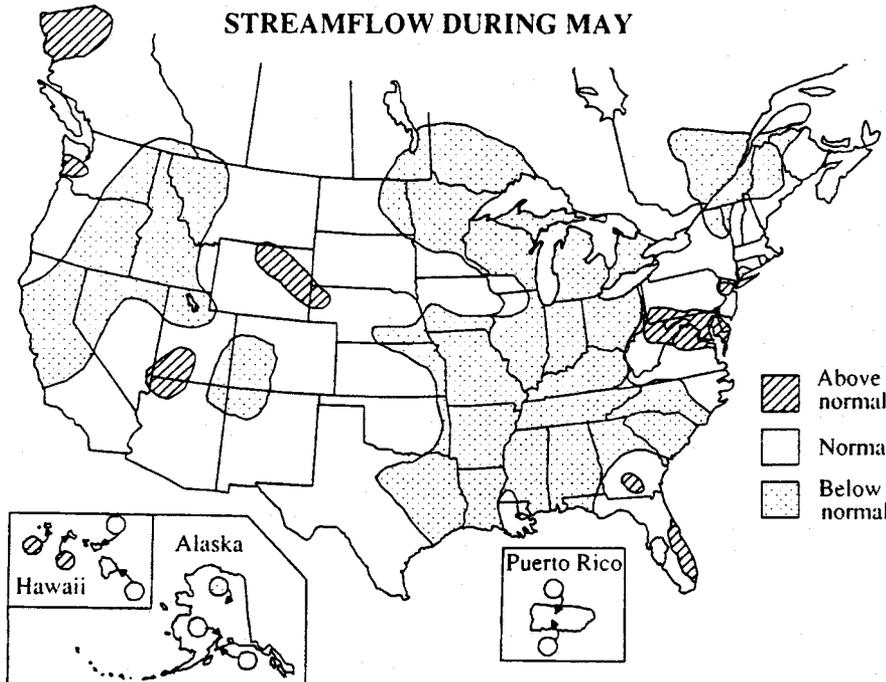


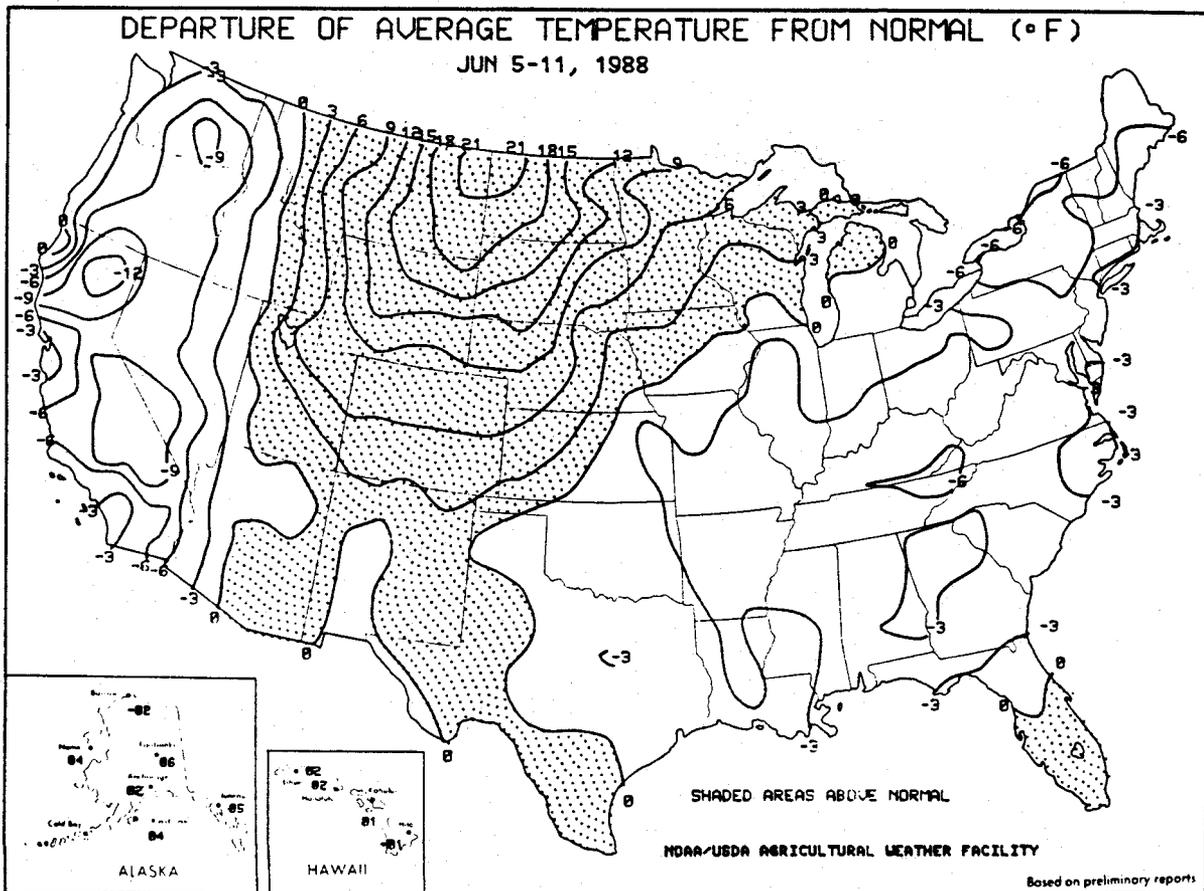
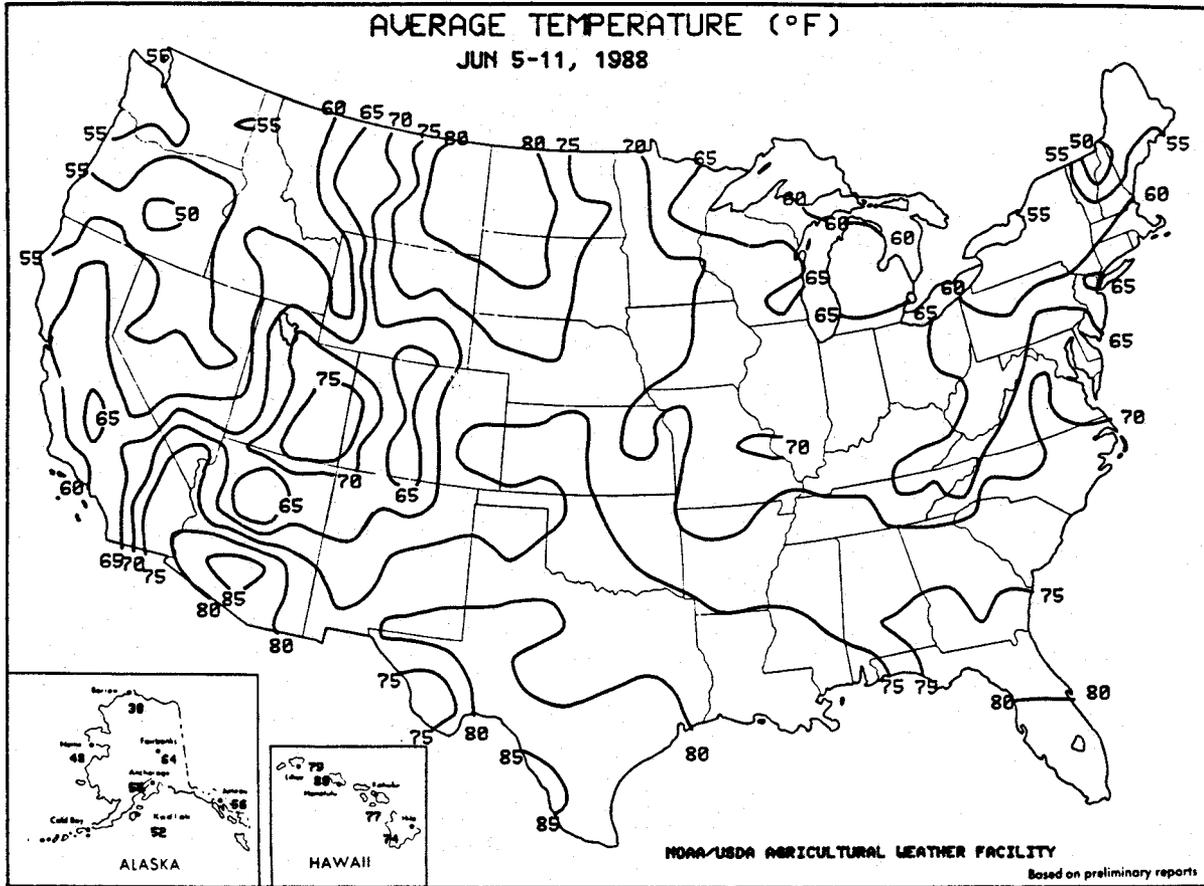
National Water Conditions

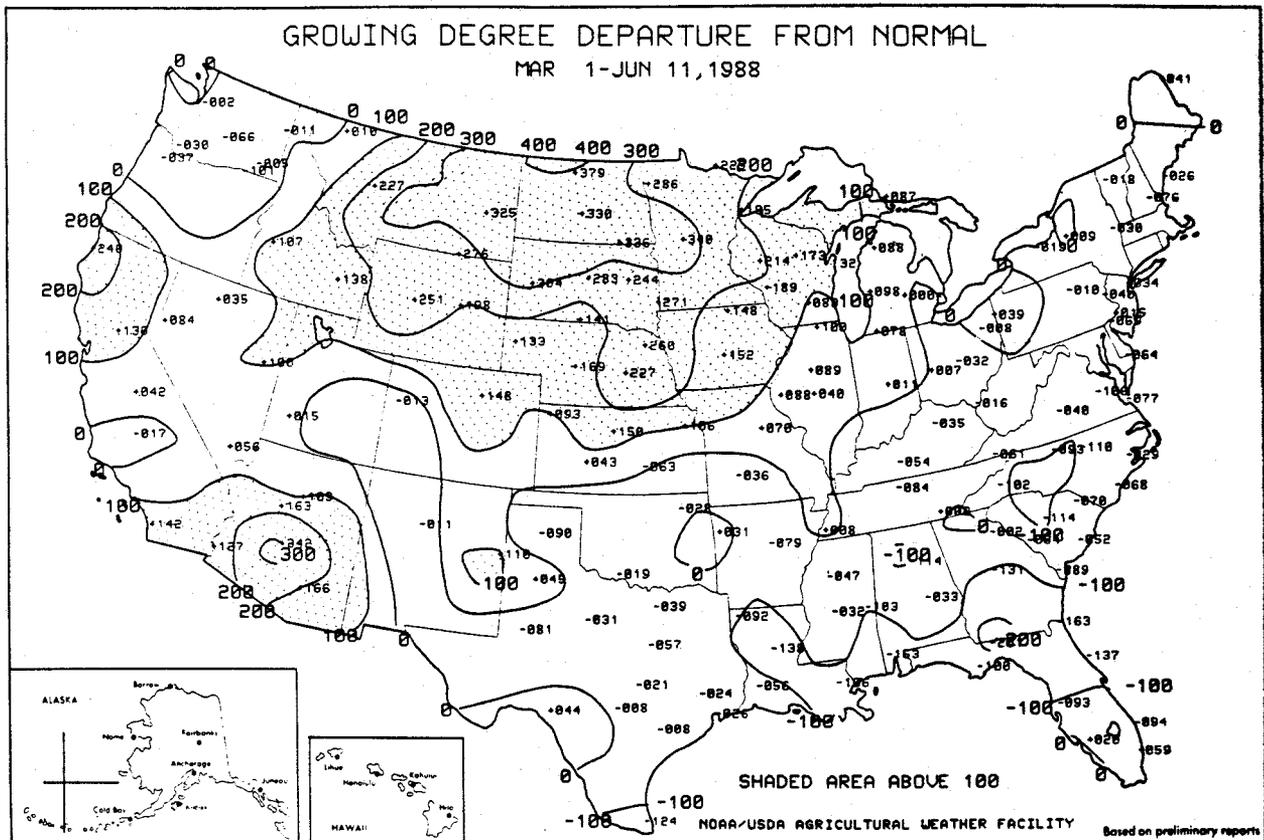
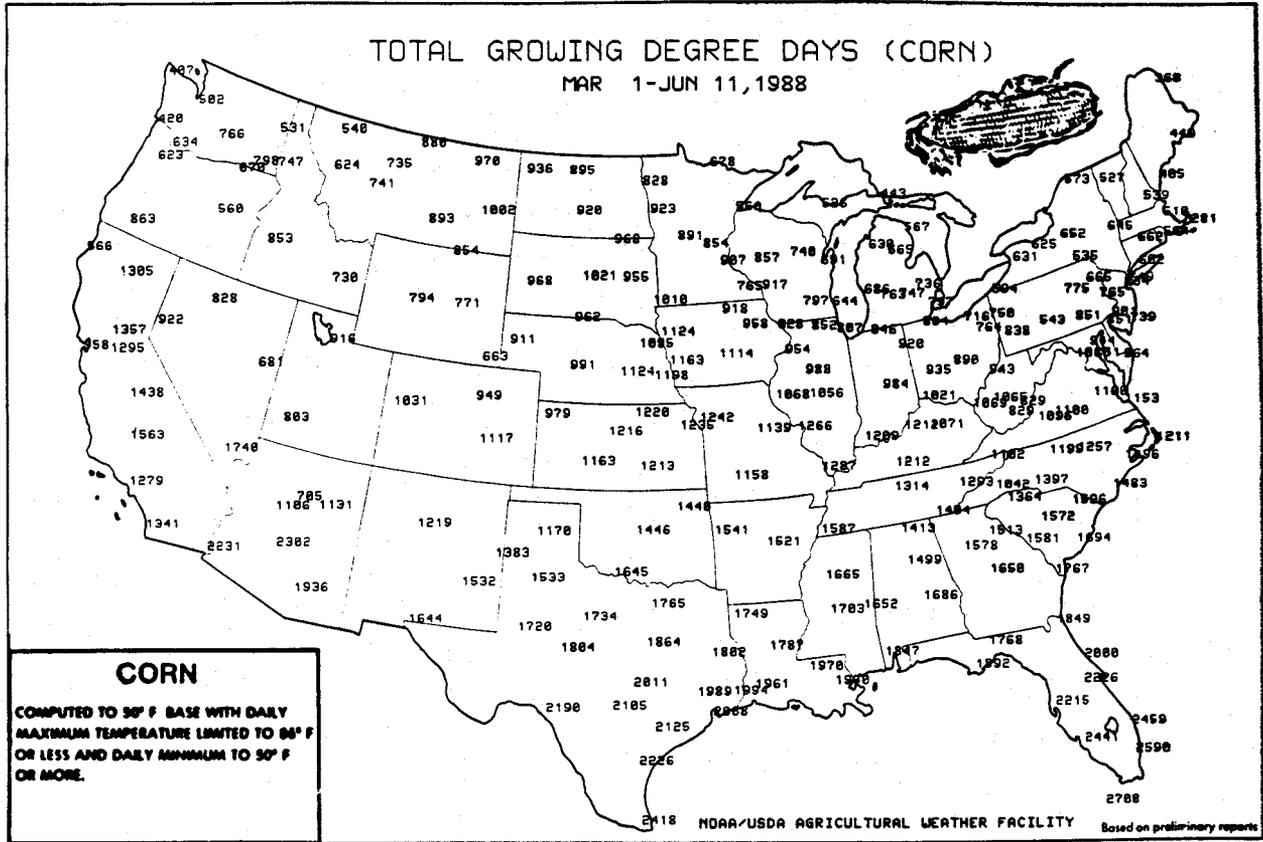
UNITED STATES
 Department of the Interior
 Geological Survey

CANADA
 Department of the Environment
 Water Resources Branch

MAY 1988







National Weather Data for Selected Cities

Weather Data for the Week Ending June 11, 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	
AL BIRMINGHAM	87	56	94	50	71	-5	0	-1.8	0	0	0	15.6	57	86	30	3	0	0	0	
MOBILE	86	64	92	57	75	-4	1.2	-1.1	0	1.8	103	25.2	88	93	41	2	0	0	3	
MONTGOMERY	87	63	94	52	75	-3	.5	-2.2	.5	.5	45	26.3	109	90	40	3	0	0	2	
AK ANCHORAGE	62	48	67	43	55	2	.7	.5	.7	.7	235	3.0	80	87	51	0	0	0	1	
BAHNOV	35	25	39	17	30	-2	T	-1.1	T	T	33	.2	26	97	77	0	0	0	0	
FAIRBANKS	75	53	82	47	64	6	.1	-2.0	.2	.4	54	2.5	94	80	27	0	0	0	0	
JUNEAU	63	49	77	44	56	5	.4	-1.3	.2	.4	37	19.7	108	97	62	0	0	0	0	
KODIAK	59	45	63	39	52	4	.3	-1.7	.2	.4	27	35.2	138	90	62	0	0	0	0	
NUME	52	44	62	40	48	4	1.3	1.1	.5	1.3	385	5.2	158	98	71	0	0	0	6	
AZ PHOENIX	102	74	105	69	88	3	0	0	0	0	0	2.4	96	24	8	7	0	0	0	
PRESCOTT	82	49	88	42	66	1	0	0	0	0	0	4.4	72	33	10	0	0	0	0	
TUCSON	102	65	108	60	84	2	0	0	0	0	0	2.5	97	27	8	7	0	0	0	
YUMA	96	64	101	38	80	-6	0	0	0	0	0	1.0	112	42	13	6	0	0	0	
AR FORT SMITH	90	57	98	52	73	-3	T	-1.9	T	1.6	109	17.1	91	90	32	3	0	0	0	
LITTLE ROCK	85	62	92	56	74	-4	.1	-1.8	0	.9	65	16.2	66	61	35	2	0	0	2	
CA BAKERSFIELD	81	50	89	45	65	-11	0	0	0	0	0	3.0	78	67	22	0	0	0	0	
EUREKA	63	51	68	46	57	3	.5	.4	.3	2.4	839	16.0	73	86	66	0	0	0	5	
FRESNO	79	52	87	48	66	-8	0	0	0	0	0	5.5	79	77	22	0	0	0	0	
LOS ANGELES	68	53	74	51	61	-4	0	0	0	0	0	4.6	56	86	50	0	0	0	0	
REDDING	71	50	87	47	61	-14	1.2	1.0	1.0	1.3	367	16.5	08	93	39	0	0	0	2	
SACRAMENTO	77	50	88	44	63	-7	.1	.1	.1	.1	300	6.8	65	89	31	0	0	0	0	
SAN DIEGO	68	57	71	54	63	-3	0	0	0	0	0	6.7	104	83	53	0	0	0	2	
SAN FRANCISCO	67	52	71	48	59	-1	.6	.6	.6	.6	7.3	5.9	86	52	0	0	0	1	1	
CO DENVER	88	57	92	55	73	8	.7	.4	.4	.7	121	7.9	109	76	22	2	0	0	2	
GRAND JUNCTION	91	62	95	54	77	6	T	-1.1	T	T	0	4.1	117	35	10	4	0	0	0	
PUEBLO	93	54	99	50	73	4	.3	0	.2	.3	78	4.6	115	86	19	6	0	0	2	
CT BRIDGEPORT	74	54	81	48	64	-2	.1	-1.6	.1	.6	54	13.5	73	66	29	0	0	0	1	
HARTFORD	74	48	82	41	61	-6	.2	-1.6	.2	.5	41	15.8	81	79	30	0	0	0	1	
DC WASHINGTON	79	58	95	50	69	-4	.9	-1.1	.7	.9	78	15.4	93	84	38	2	0	0	2	
FL APALACHICOLA	83	70	86	65	77	-3	2.5	1.5	1.5	2.8	183	23.9	125	95	65	0	0	0	2	
DAYTONA BEACH	87	71	90	69	79	1	2.2	.8	1.1	2.2	99	17.3	105	95	60	1	0	0	3	
JACKSONVILLE	86	68	89	59	77	-2	1.6	.3	.5	2.7	133	22.5	116	95	52	0	0	0	6	
KEY WEST	88	79	89	77	84	1	.4	-1.8	.2	.5	26	16.2	138	90	69	0	0	0	2	
MIAMI	89	75	93	69	82	1	3.0	.8	2.1	3.5	102	13.4	69	94	60	4	0	0	3	
ORLANDO	88	71	90	70	80	-1	2.6	1.1	.9	2.6	113	18.1	106	98	55	1	0	0	4	
TALLAHASSEE	85	65	89	58	75	-4	.9	-1.5	.5	.9	42	23.2	86	98	52	0	0	0	4	
TAMPA	88	73	92	72	81	0	1.3	.2	1.2	1.3	75	12.7	81	94	57	1	0	0	2	
WEST PALM BEACH	90	73	93	72	81	1	6.2	4.3	3.7	6.2	213	28.7	141	98	61	3	0	0	4	
GA ATLANTA	86	62	94	55	74	-1	.1	-1.7	.1	.1	8	18.4	74	75	29	3	0	0	1	
AUGUSTA	88	58	94	48	73	-3	3.3	2.4	1.7	3.5	253	20.9	98	100	33	4	0	0	2	
MACON	87	63	95	54	75	-3	.4	-1.5	.3	.4	27	19.1	84	93	37	3	0	0	3	
SAVANNAH	86	63	93	54	74	-3	.6	-1.6	.6	.9	46	19.1	95	91	47	3	0	0	1	
HI HILO	81	67	82	66	74	-1	2.5	1.1	.6	3.0	130	57.0	93	94	66	0	0	0	7	
HONOLULU	88	73	89	70	80	2	T	-1.1	T	T	19	6.8	53	81	49	0	0	0	1	
KAHULUI	86	68	88	64	77	0	T	-1.1	T	T	0	11.1	98	84	49	0	0	0	0	
LIHUE	83	75	84	74	79	2	0	-1.4	0	0	0	19.5	91	82	60	0	0	0	0	
ID BOISE	74	45	89	38	60	-4	0	-1.3	0	.2	60	6.6	101	71	26	0	0	0	0	
LEWISTON	66	49	74	45	57	-7	.1	-2.2	.1	.4	79	4.6	71	81	43	0	0	0	2	
POCATELLO	82	45	91	37	64	3	0	-1.3	0	T	2	4.1	72	64	14	1	0	0	0	
IL CHICAGO	81	54	94	44	67	0	T	-1.0	T	T	0	8.6	61	69	27	2	0	0	0	
MOLINE	82	49	93	44	66	-4	.4	-1.6	.4	.4	25	9.2	60	90	28	1	0	0	1	
PEORIA	81	50	92	42	66	-4	.5	-1.4	.5	.5	38	9.4	62	85	30	1	0	0	1	
QUINCY	80	54	91	50	67	-4	1.4	.5	1.4	1.4	95	7.7	48	79	37	1	0	0	1	
ROCKFORD	83	48	92	40	66	-2	0	-1.0	0	0	0	9.6	65	80	32	1	0	0	0	
SPRINGFIELD	82	52	91	44	67	-5	.6	-1.2	.6	.6	46	9.9	65	89	32	1	0	0	1	
IN EVANSVILLE	85	54	96	48	70	-4	.7	-1.1	.4	.7	54	13.9	68	89	25	3	0	0	2	
FORT WAYNE	85	52	93	45	68	0	T	-1.8	T	.5	40	11.9	77	70	24	3	0	0	1	
INDIANAPOLIS	85	51	93	44	68	-3	.2	-1.8	.1	.2	11	13.8	79	81	22	3	0	0	2	
SOUTH BEND	82	51	90	41	66	-1	T	-1.9	T	T	0	11.5	73	79	27	1	0	0	0	
IA DES MOINES	84	56	91	49	70	0	2.4	1.3	2.2	2.5	157	6.3	48	77	30	1	0	0	2	
SIoux CITY	86	56	94	46	71	2	T	-1.9	T	.1	6	6.8	64	79	29	1	0	0	0	
WATERLOO	86	50	93	42	68	0	0	-1.0	0	T	1	5.8	41	78	23	3	0	0	0	
KS OMAHA	87	59	94	47	73	1	0	-1.0	0	.2	14	6.0	53	68	32	2	0	0	0	
DODGE CITY	88	60	104	53	74	1	0	-1.7	0	T	2	8.2	94	83	34	2	0	0	0	
GOODLAND	89	59	100	57	74	6	T	-1.7	T	.6	57	9.6	139	85	29	3	0	0	0	
TOPEKA	85	51	92	43	68	-4	0	-1.2	0	.1	4	9.3	70	91	32	2	0	0	0	
WICHITA	88	57	102	52	73	-2	0	-1.9	0	.1	4	10.5	92	83	32	2	0	0	0	
KY BOWLING GREEN	83	51	95	46	67	-6	.7	-1.4	.7	.7	43	15.0	62	93	31	2	0	0	2	
LEXINGTON	82	53	93	43	67	-4	.6	-1.4	.6	.6	38	14.9	69	79	29	3	0	0	1	
LOUISVILLE	84	54	94	48	69	-4	.7	-1.2	.7	.9	68	17.6	84	87	31	3	0	0	2	
LA ALEXANDRIA	87	63	92	54	75	-4	T	-1.9	T	.3	21	18.7	71	84	38	2	0	0	1	
BATON ROUGE	90	67	95	59	78	-1	.3	-1.3	.2	2.4	241	33.4	131	92	40	4	0	0	2	
LAKE CHARLES	88	68	93	61	78	-1	T	-1.9	T	2.7	175	23.5	106	93	47	3	0	0	1	
NEW ORLEANS	86	68	93	63	77	-3	8.8	7.8	3.8	8.9	557	43.7	167	90	52	2	0	0	3	

Based on 1951-80 normals

Weather Data for the Week Ending June 11, 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				
SHREVEPORT	90	63	97	57	77	-2	0	-0.8	0	.1	6	13.5	61	78	31	4	0	0	0				
ME CARIBOU	63	40	76	34	51	-1.8	T	-0.7	.1	.1	5	10.5	78	81	33	0	0	1	0				
PORTLAND	70	46	79	43	58	-2	T	-0.5	.3	.3	24	15.4	78	82	32	0	0	1	0				
MD BALTIMORE	78	57	94	49	68	-3	T	-0.8	.1	.7	58	16.5	92	90	40	1	0	2	1				
SALISBURY	79	56	92	46	68	-3	T	-0.7	.1	.2	13	20.2	108	88	35	1	0	1	0				
MA BOSTON	73	54	81	49	64	-3	T	-0.7	T	T	4	14.3	71	70	34	0	0	1	0				
CHATHAM	67	51	74	46	59	0	T	-0.6	.1	.5	45	15.8	74	87	49	0	0	1	0				
MI ALPENA	77	46	96	35	62	2	T	-0.6	.1	.1	26	9.8	86	89	29	2	0	1	0				
DETROIT	81	51	94	40	66	-1	T	-0.8	.1	.1	45	7.8	64	85	29	3	0	1	0				
FLINT	80	44	94	35	62	-2	T	-0.7	.1	.1	8	9.9	71	86	26	2	0	1	0				
GRAND RAPIDS	80	47	90	40	63	-3	T	-0.8	T	T	.1	8	9.9	71	86	26	2	0	1	0			
HOUGHTON LAKE	78	49	92	35	63	2	T	-0.5	.2	.3	23	8.2	74	76	34	3	0	1	0				
LANSING	81	44	94	34	63	-2	T	-0.9	T	T	.1	10	8.9	73	86	26	2	0	1	0			
MARQUETTE	78	45	93	36	61	3	T	-0.6	.4	.4	25	11.8	74	86	34	2	0	1	0				
MUSKOGEE	76	48	84	40	62	-2	T	-0.6	T	T	.1	12	10.9	83	83	34	0	0	1	0			
SALT ST. MARIE	70	44	81	34	57	0	T	-0.7	T	T	.1	4	10.7	86	84	30	0	0	1	0			
MN ALEXANDRIA	86	57	95	45	72	8	T	-1.0	0	.1	7	5.5	59	63	25	4	0	0	0	0			
DULUTH	79	48	88	31	63	6	T	-0.5	.4	.9	61	8.7	82	84	31	0	1	1	1	0			
INT'L FALLS	86	50	95	39	68	9	T	-0.7	.2	.2	12	3.8	48	87	23	4	0	1	1	0			
MINNEAPOLIS	85	56	94	47	71	4	T	-1.0	0	.1	5	6.3	62	71	26	3	0	0	0	0			
ROCHESTER	83	49	91	41	66	1	T	-0.9	0	0	0	7.7	72	75	28	1	0	0	0	0			
MS GREENWOOD	88	60	96	54	74	-5	T	-0.8	0	.1	5	12.9	47	76	31	2	0	0	0	0			
JACKSON	89	62	96	50	76	-2	T	-0.7	T	T	3	19.3	72	88	35	3	0	1	0	0			
MERIDIAN	88	59	97	47	74	-4	T	-0.8	T	T	4	19.4	72	92	34	3	0	1	0	0			
MO CAPE GIRARDEAU	84	54	96	47	69	-1	T	-0.7	.1	.2	11	14.5	67	92	24	2	0	1	0	0			
COLUMBIA	84	53	93	49	69	-3	T	-0.9	0	T	0	12.3	72	84	30	2	0	0	0	0			
KANSAS CITY	86	57	93	47	71	-2	T	-1.1	T	T	0	7.8	53	73	25	2	0	0	0	0			
SAINT LOUIS	85	57	92	50	71	-3	T	-1.3	1.3	1.3	94	14.2	90	75	26	3	0	1	1	0			
SPRINGFIELD	82	53	93	49	68	-4	T	-0.8	.3	.3	20	17.9	103	83	33	1	0	1	0	0			
MT BILLINGS	94	62	102	54	78	16	T	-0.5	.1	.1	6	5.5	70	51	14	5	0	1	0	0			
GLASGOW	98	67	108	58	83	20	T	-0.6	T	T	0	2.6	61	55	15	5	0	0	0	0			
GREAT FALLS	83	52	89	43	67	8	T	-0.7	T	T	.1	5	4.1	53	74	24	0	0	1	0			
HAVRE	87	55	96	43	71	10	T	-0.5	T	T	0	1.1	21	70	24	3	0	0	0	0			
HELENA	85	52	91	41	68	10	T	-0.5	T	T	.2	24	4.6	85	70	20	1	0	2	0	0		
KALISPELL	71	44	77	34	58	1	T	-0.3	.3	.4	43	6.8	93	88	43	5	0	0	1	0	0		
MILES CITY	98	68	105	61	83	19	T	-0.7	0	0	0	1.3	20	43	14	5	0	0	0	0	0		
MISSOULA	71	46	77	34	58	1	T	-0.2	.3	.5	63	6.6	104	81	37	0	0	1	0	0	0		
NE GRAND ISLAND	88	60	99	53	74	4	T	-0.9	T	T	.6	44	6.4	60	72	29	3	0	0	0	0	0	
LINCOLN	86	56	93	44	71	0	T	-0.9	T	T	.1	6	6.5	55	82	29	2	0	1	0	0		
NORFOLK	85	58	92	45	72	3	T	-0.8	.2	.3	16	9.2	88	75	32	1	0	0	1	0	0		
NORTH PLATTE	90	59	99	54	75	8	T	-0.9	0	.1	7	6.8	79	83	32	3	0	0	0	0	0		
OMAHA	83	61	89	56	72	1	T	-1.0	T	T	.1	3	8.1	65	62	36	0	0	1	0	0		
SCOTTSBLUFF	90	57	95	54	74	8	T	-0.7	T	T	.1	12	9.6	135	82	25	3	0	1	0	0		
VALENTINE	93	61	103	55	77	11	T	-0.7	0	0	0	8.5	114	71	28	6	0	0	0	0	0		
NV ELY	74	35	80	30	55	-2	T	-0.2	0	0	0	3.8	83	50	15	0	3	0	0	0	0	0	
LAS VEGAS	90	62	99	56	76	-6	T	0	0	0	0	1.7	98	26	9	3	0	1	1	0	0	0	
RENO	68	39	79	32	54	-7	T	-1.1	T	T	7	1.6	38	71	19	0	1	1	0	0	0	0	
WINNEMUCA	70	38	79	31	54	-7	T	-0.3	.1	.2	.3	89	3.9	93	74	20	0	1	3	0	0	0	
NH CONCORD	71	39	80	34	55	-8	T	-0.7	T	T	1	11.7	76	92	31	0	0	0	0	0	0	0	
NJ ATLANTIC CITY	74	52	87	45	63	-5	T	-0.6	0	.3	.8	82	14.8	82	88	44	0	0	2	0	0	0	
NM ALBUQUERQUE	89	58	94	52	73	0	T	-0.3	.2	.3	254	3.4	154	61	19	3	0	0	3	0	0	0	
CLOVIS	89	61	97	59	75	2	T	-0.3	.2	.3	27	7.1	134	69	27	3	0	2	0	0	0	0	
ROSWELL	94	63	99	58	79	2	T	-0.2	.1	.2	52	5.6	212	63	20	6	0	2	0	0	0	0	
NY ALBANY	73	45	79	38	59	-6	T	-0.8	T	T	.1	12	11.9	79	81	33	0	0	0	0	0	0	
BINGHAMTON	67	45	77	39	56	-7	T	-0.8	T	T	.4	34	14.0	91	78	36	0	0	0	1	0	0	
BUFFALO	66	48	76	41	58	-7	T	-0.4	.2	.4	.8	79	15.1	99	89	42	0	0	2	0	0	0	
NEW YORK	75	58	82	52	67	-3	T	-0.7	.1	.7	61	15.2	82	65	32	0	0	1	0	0	0	0	
ROCHESTER	69	46	80	37	58	-7	T	-0.7	T	T	.3	24	8.9	66	86	35	0	0	1	0	0	0	
SYRACUSE	70	45	80	37	58	-7	T	-0.8	T	T	.2	16	11.4	70	83	33	0	0	1	0	0	0	
NC ASHEVILLE	81	48	91	40	64	-5	T	-0.9	T	T	0	10.4	52	92	32	1	0	0	0	0	0	0	
CHARLOTTE	85	57	94	51	71	-3	T	-0.3	.3	.3	26	12.7	61	84	30	3	0	2	0	0	0	0	
GREENSBORO	82	54	93	45	68	-4	T	-0.9	0	.9	1.3	93	13.3	71	86	38	3	0	1	1	0	0	
HATTERAS	78	61	90	47	70	-3	T	-0.9	.1	.5	34	20.7	96	92	53	1	0	1	0	1	0	0	
NEW BERN	86	60	97	51	73	-2	T	-0.7	3.0	1.9	2.7	3.0	173	23.2	111	87	38	4	0	3	1	1	0
RALEIGH	83	55	94	47	69	-4	T	-0.9	.9	0	.9	1.3	102	15.0	81	91	40	3	0	1	1	0	0
WILMINGTON	84	60	96	51	72	-4	T	-0.9	.9	.9	1.6	86	24.2	119	96	47	2	0	3	1	1	0	0
ND BISMARCK	96	64	101	57	80	18	T	-0.7	0	T	0	3.2	50	70	25	7	0	0	0	0	0	0	
FARGO	90	59	97	42	75	11	T	-0.7	0	T	0	4.7	67	58	25	4	0	0	0	0	0	0	
GRAND FORKS	89	54	96	40	72	9	T	-0.7	0	T	0	3.0	47	70	28	4	0	0	0	0	0	0	
WILLISTON	100	69	105	62	85	22	T	-0.6	T	T	0	3.2	56	61	17	7	0	0	0	0	0	0	
OH AKRON-CANTON	78	50	90	40	64	-3	T	-0.7	0	.3	25	11.0	68	85	32	1	0	0	0	0	0	0	
CINCINNATI	83	49	93	41	66	-4	T	-0.7	.2	.2	17	17.3	92	90	27	3	0	2	0	0	0	0	
CLEVELAND	77	53	92	43	65	-5	T	-0.8	0	.4	30	11.3	72	74	30	2	0	0	0	0	0	0	
COLUMBUS	82	48	92	41	65	-4	T	-0.6	.3	.7	50	14.2	84	95	29	3	0	2	0	0	0	0	

Based on 1951-80 normals

Weather Data for the Week Ending June 11, 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		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	83	51	94	44	67	-3	.5	-4	.4	.6	45	12.6	77	72	23	3	0	2	0	
TOLEDO	82	48	95	38	65	-2	.4	-8	.8	.2	14	7.2	53	77	25	2	0	0	0	
YOUNGSTOWN	77	48	88	39	63	-2	.4	-8	.8	.2	20	11.3	70	86	30	2	0	0	0	
OK OKLAHOMA CITY	87	63	100	59	75	-1	0	-1.0	0	.2	10	13.9	97	72	33	2	0	0	0	
TULSA	87	61	99	54	74	-2	0	-1.1	0	.6	32	13.6	78	78	29	2	0	0	0	
OR ASTORIA	63	44	66	40	53	-2	2.2	1.6	1.6	3.3	321	29.4	85	96	52	0	0	0	1	
BURNS	66	37	73	33	49	-6	.4	.3	.2	.4	176	4.3	84	86	35	0	0	4	3	
MEDFORD	60	44	78	40	55	-6	.8	.6	.3	1.1	367	6.9	70	96	41	0	0	4	4	
PENDLETON	64	46	73	43	55	-10	.2	0	.1	.3	83	7.2	116	85	47	0	0	4	0	
FORTLAND	67	48	73	42	58	-3	1.2	.8	.7	2.0	314	18.3	98	96	48	0	0	3	0	
SALEM	67	45	74	38	56	-1	.2	.3	.5	1.7	306	18.5	89	96	49	0	0	4	1	
PA ALLENTOWN	74	51	83	43	63	-1	.4	-4	.4	1.1	92	18.5	97	77	34	0	0	1	1	
EKIE	69	50	79	42	59	-5	.1	-9	.1	.1	6	12.7	82	83	42	0	0	0	0	
HARRISBURG	78	55	91	43	66	-3	.7	-1	.6	.9	66	16.7	95	79	35	1	0	2	1	
PHILADELPHIA	76	55	85	47	66	-5	.3	-6	.2	.6	40	16.2	91	80	37	0	0	2	0	
PITTSBURGH	78	52	92	39	65	-2	.7	-1	.4	1.0	75	13.2	78	87	34	2	0	2	0	
SCRANTON	71	46	81	37	59	-7	.3	-5	.3	.7	58	13.3	93	78	36	0	0	1	0	
RI PROVIDENCE	73	50	81	43	62	-4	.1	-6	.1	.4	34	18.4	89	77	31	0	0	1	0	
SC CHARLESTON	85	61	94	53	73	-4	1.5	0	1.3	1.6	72	13.6	67	97	44	3	0	3	1	
COLUMBIA	87	58	96	46	72	-4	1.3	.3	1.2	1.5	95	14.7	65	94	31	4	0	3	1	
FLORENCE	87	55	96	50	73	-4	1.1	.1	1.0	1.3	85	14.2	75	94	35	4	0	2	1	
GREENVILLE	87	55	95	47	71	-3	.3	-8	.3	.3	19	15.0	61	82	27	4	0	1	0	
SD ABERDEEN	89	59	92	48	74	10	0	-8	0	.1	4	4.6	59	75	31	4	0	0	0	
HURON	86	59	91	52	73	7	0	-8	0	T	2	9.5	113	75	36	2	0	0	0	
RAPID CITY	94	62	104	57	78	15	T	-8	T	T	2	4.9	62	76	24	6	0	0	0	
SIoux FALLS	87	58	94	41	73	6	0	-9	0	.1	6	7.1	70	71	25	1	0	0	0	
TN CHATTANOOGA	86	54	95	49	70	-4	.4	-7	.7	0	0	16.3	63	98	32	2	0	0	0	
KNOXVILLE	83	51	94	47	67	-4	.4	-5	.4	.4	25	14.8	63	94	34	2	0	1	0	
MEMPHIS	87	60	95	55	74	-6	.2	-7	.2	.2	15	17.4	65	71	30	3	0	1	0	
NASHVILLE	85	54	94	49	70	-5	.1	-8	.1	.1	4	11.9	49	84	28	2	0	1	0	
TX ABILENE	91	66	103	59	78	-1	0	-6	0	2.4	239	8.4	86	71	31	3	0	0	0	
AMARILLO	87	59	97	55	73	0	0	-8	0	0	0	9.8	138	77	32	2	0	0	0	
AUSTIN	91	69	97	66	80	-1	0	-8	0	1.7	136	10.3	72	81	40	4	0	0	0	
BEAUMONT	90	68	93	64	79	-1	0	-1.1	0	3.8	219	20.9	83	96	44	4	0	0	0	
BROWNSVILLE	93	71	97	67	82	0	0	-7	0	.6	58	7.8	96	96	46	7	0	0	0	
CORPUS CHRISTI	91	70	94	66	81	-1	0	-1.0	0	1.4	91	5.7	53	97	44	5	0	0	0	
DEL RIO	97	72	111	66	84	1	-1	-4	.1	.1	14	2.0	31	65	24	7	0	1	0	
EL PASO	96	65	101	59	80	0	T	-1	T	.1	27	1.5	90	44	13	7	0	2	0	
FORT WORTH	90	65	97	57	78	-2	0	-6	0	2.4	239	10.9	70	77	32	4	0	0	0	
GALVESTON	86	74	91	70	80	-1	.1	-7	.1	1.6	121	15.9	107	85	51	1	0	1	0	
HOUSTON	92	68	95	62	80	0	0	-1.1	0	1.2	70	11.2	57	91	41	5	0	0	0	
LUBBOCK	94	63	102	58	78	2	0	-7	T	T	0	5.1	78	75	27	5	0	0	0	
MIDLAND	96	65	105	59	81	2	0	-3	0	0	0	3.5	72	67	20	6	0	0	0	
SAN ANGELO	95	63	104	56	79	-1	0	-5	0	0	0	5.8	79	81	27	6	0	0	0	
SAN ANTONIO	93	68	100	59	81	0	0	-8	0	3.5	283	7.3	59	83	37	6	0	0	0	
VICTORIA	92	70	95	65	81	0	0	-1.1	0	1.3	71	5.6	39	96	40	6	0	0	0	
WACO	91	63	96	54	77	-3	0	-7	0	3.9	341	11.0	72	92	39	4	0	0	0	
WICHITA FALLS	91	62	105	53	77	-3	0	-7	0	.2	18	10.3	84	84	30	3	0	0	0	
UT BLANDING	83	46	88	40	65	0	0	-1.1	0	0	0	4.6	102	54	12	0	0	0	0	
CEDAR CITY	80	50	84	39	65	65	0	-1	0	0	0	7.3	163	39	12	0	0	0	0	
SALT LAKE CITY	87	57	93	51	72	-7	0	-2	0	0	0	6.1	73	50	15	2	0	0	0	
VT BURLINGTON	70	43	80	38	56	-7	T	-8	T	T	1	7.7	60	85	33	0	0	0	0	
VA NORFOLK	79	61	94	53	70	-3	.5	-2	.5	1.6	128	18.5	99	84	45	1	0	1	1	
RICHMOND	81	56	93	48	68	-4	.2	-6	.2	1.0	84	16.0	91	88	38	2	0	1	0	
ROANOKE	80	52	90	41	66	-5	.7	-1	.7	1.9	157	12.3	70	90	39	2	0	1	1	
WA QUILLAYUTE	63	43	70	36	53	-1	T	-7	T	1.4	121	53.5	102	95	51	0	0	1	1	
SEATTLE-TACOMA	64	48	67	44	56	-3	.8	-4	.4	1.5	273	16.2	88	96	54	0	0	1	0	
SPOKANE	65	44	70	37	54	-6	.4	-1	.1	.5	104	7.8	93	92	44	0	0	5	0	
YAKIMA	67	41	75	35	54	-8	.2	-1	.1	.9	418	3.4	87	95	38	0	0	4	0	
WV BECKLEY	74	48	84	38	61	-4	.5	-4	.5	.7	53	12.8	67	87	39	0	0	5	0	
CHARLESTON	80	51	92	42	66	-4	.3	-4	.3	.4	34	12.0	63	89	34	2	0	1	1	
HUNTINGTON	81	50	92	41	66	-5	.3	-5	.3	.3	27	12.9	69	89	28	2	0	1	0	
PARKERSBURG	81	48	91	40	65	-5	.5	-4	.5	.8	55	10.9	63	89	31	3	0	1	0	
WI GREEN BAY	82	49	94	37	66	-5	T	-7	T	T	3	6.2	56	85	31	3	0	1	0	
LACROSSE	86	52	95	43	69	-2	0	-1.0	0	0	0	6.1	51	85	25	4	0	0	0	
MAJISON	82	45	91	35	63	-2	0	-9	0	0	0	7.1	58	85	26	1	0	0	0	
MILWAUKEE	79	55	93	45	67	4	3	-8	T	.1	10	10.6	82	64	29	2	0	0	0	
WAUSAU	81	51	91	40	66	3	T	-9	T	.5	34	5.9	50	79	25	2	0	1	0	
WY CASPER	89	55	94	50	72	12	T	-3	T	T	0	3.7	60	47	11	4	0	0	0	
CHEYENNE	85	54	89	49	69	9	.7	-2	.7	.7	91	8.1	130	84	24	0	0	1	0	
LANDER	88	57	93	48	73	13	0	-4	0	0	0	4.7	60	34	14	1	0	0	1	
SHERIDAN	94	59	101	53	76	17	.2	-4	.2	.2	18	6.8	85	62	17	5	0	1	0	
PR SAN JUAN	93	77	97	75	85	4	.2	-9	.2	.2	13	24.4	130	86	73	7	0	3	0	

Based on 1951-80 normals

National Agricultural Summary

June 6 to 12, 1988

HIGHLIGHTS: Inadequate moisture hastened small grain maturity throughout most of the eastern half of the Nation. The lack of moisture hampered germination and slowed row crop growth and development. Hot temperatures in early part of the week depleted soil moisture and caused plants to begin wilting in some areas. The near absence of precipitation made 6 days or more suitable for fieldwork in most areas.

Winter wheat was 93 percent (%) headed, 5 percentage points above the 5-year average. Harvest was 9% finished, just slightly ahead of normal. Harvest progressed rapidly in the Delta and Southeast. Spring wheat was mostly fair to poor in the northern Great Plains. Soybeans were 90% seeded, 15 points above the previous week and 10 points above average. Dryness hampered germination and growth. Plants began wilting in some Corn Belt States. Cotton planting was 94% finished, compared with 87% in 1987 and 88% average. Fifteen percent of the acreage was squaring, 1 point below normal. Cotton set bolls in Texas. Sorghum planting climbed 14 points ahead of normal at 82% completion. The lack of moisture halted planting in Oklahoma and Louisiana. Sorghum was heading and turning color in Texas. Corn was mostly fair to good but varied by areas depending on available moisture. Livestock was mostly good.

SMALL GRAINS: Winter wheat was mostly fair in the northern and central Great Plains and Corn Belt. Crop conditions were mostly good in the Southeast, Delta, southern Great Plains and Southwest. Hot, dry weather forced rapid maturity in most areas of the Nation. In the 19 major producing States, heading reached 93% completion, 1 point behind 1987 but 5 points above average. Harvest advanced rapidly across the Delta and Southeast but was only 9% finished in the 19 major producing States. Heading was finished or neared completion in all major producing States except Colorado, Idaho, Montana, Oregon, South Dakota, and Washington.

Small grain harvest was near completion in some Texas' Blackland areas. Fields turned color rapidly as temperatures rose in the Blacklands. Oklahoma's wheat harvest was 10 points ahead of normal at 25% completion. The hot, dry weather pushed wheat to maturity in Kansas. Test cuttings were underway in southern counties. In South Dakota, disease, drought, and insects continued plaguing small grains. Winter wheat harvest gained momentum in southern California. Harvest reached 15% completion but lagged 10 points behind normal. Arkansas producers combined 45% of their acreage. Georgia's harvest jumped 35 points to 79% completion.

Spring wheat was mostly poor to fair, especially in Minnesota, Montana, and North Dakota. South Dakota's spring wheat was mostly fair with condition mostly good in Idaho. Idaho's wheat was jointing. Spring wheat was heading in Minnesota.

CORN: Corn was mostly fair to good in the Corn Belt. Dryness caused fair to poor condition in Indiana. Moisture kept condition good to fair in the central Great Plains. Corn was silking in the Southeast and reached the dough stage in Georgia. Inadequate moisture reduced corn planting in Kansas. Corn borer, cutworms, and white grubs were active in east central and southeast Nebraska. In Ohio, corn development was uneven.

SOYBEANS: Soybeans were 90% seeded, up 15 points from the previous week and 10 points ahead of normal. Dry weather hampered germination and growth in most areas. Planting progressed well in Kansas, but short moisture curtailed activity

towards weekend. In Kentucky, rain is needed to germinate double crop soybeans. Soybean plants wilted in Ohio. Bean leaf beetles were feeding in west central areas of the State.

SORGHUM: Sorghum seeding reached 82% completion, compared with 80% in 1987 and 68% normally. Seeding was virtually finished except in Kansas, Oklahoma, South Dakota, and Texas. In Texas, producers increased planting in the Plains and at Cross Timbers. Sorghum turned color at Coastal Bend and the Rio Grande Valley, but more reached maturity. In Arkansas, a few sorghum fields were replanted to soybeans. Growers treated sorghum for greenbugs in Nebraska. Young plants began dying from the lack of moisture in Oklahoma.

COTTON: Cotton planting was finished except in Georgia, Oklahoma, and Texas. Most of the cotton to be planted remained in Oklahoma and Texas where 90% and 87% of the acreage was seeded, respectively. Planting was nearly two times ahead of normal in Oklahoma. In Texas, warmer temperatures promoted growth in older cotton. Young cotton need additional moisture. Nine percent of Texas had begun setting bolls. Dry, cool weather stunted cotton in Mississippi. Cotton grew well in Arizona. Many fields were flowering and setting bolls in western areas. Growers irrigated, cultivated, and sprayed for boll weevils in south-central Arizona.

OTHER CROPS: Rice was mostly good to fair. Arkansas rice fields were flooded permanently. Rice began heading in Texas. Fluctuating temperatures stressed rice in California.

Peanuts were mostly planted except in Texas and Oklahoma. Peanuts were pegging and blooming in Alabama and Georgia.

Tobacco improved slightly in Georgia and harvest was underway. In Tennessee, tobacco was 86% transplanted, 6 points above normal.

FRUITS AND NUTS: New crop citrus fruit progressed well in Florida. Grapefruit harvest neared completion and valencia orange harvest slowed. Irrigation continued in some areas despite substantial rainfall. Cooler temperatures slowed maturity, but enhanced stone fruit coloring in California. Growers irrigated and applied weed controls in deciduous fruit orchards. Grapes leafed out and clusters gained maturity in the San Joaquin Valley. Coachella Valley table grape harvest expanded to Thompson seedless variety. Summer grapefruit, lemon, and valencia orange harvests were active. Grapefruit, valencia oranges, and grapes were harvested in central and western Arizona.

VEGETABLES: Vegetable harvest was mostly finished in central and southern Florida. Harvest was most active for watermelons, potatoes, tomatoes, sweet corn, peppers, cucumbers, and celery. Land preparation for fall planting should increase soon in the Rio Grande Valley. Vegetable harvest progressed normally in most areas of Texas. Watermelon harvest slowed in the San Antonio-Winter Garden area. Cool weather slowed melon plant growth at Westside, CA. Hail damaged onions in the Tulalake area. Sweetpotato planting was finished at Merced-Atwater but harvest continued at Riverside. California vegetable harvest consisted mostly of broccoli, cauliflower, carrots, celery, lettuce, melons, and strawberries.

PASTURES AND LIVESTOCK: Pastures were mostly poor in the eastern half of the Nation. Pastures continued deteriorating from the lack of moisture. 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 under 0.10 in. north; less than 0.50 in. central, south; 1.00 to 2.00 in. common Mobile, Baldwin Counties, isolated areas south. Temperatures averaged 3 to 5° below normal.

Days suitable for fieldwork 6.6. Soil moisture 95% short, 5% adequate. Extremely dry most areas; crop growth, development seriously hampered. Corn 45% silked, 40% 1987, 33% avg.; 5% very poor, 32% poor, 53% fair, 10% good. Sorghum 79% planted, 72% 1987, 70% avg.; 17% poor, 66% fair, 17% good. Cotton 23% squaring, 19% 1987, 14% avg.; 14% poor, 69% fair, 17% good. Soybeans 71% planted, 74% 1987, 65% avg.; 2% very poor, 11% poor, 76% fair, 11% good. Peanuts 7% pegging, 10% 1987, 6% avg.; 11% poor, 56% fair, 33% good. Wheat 99% turning color, 98% 1987, 98% avg.; 58% harvested, 45% 1987, 46% avg.; 8% poor, 39% fair, 50% good, 3% excellent. First hay 88% harvested, 75% 1987, 69% avg. Livestock mostly fair to good; pastures mostly fair to poor. Primary activities: Planting sorghum, soybeans; harvesting winter wheat, hay, commercial fruits, vegetables; controlling weeds, insects in row crops; managing fish ponds, harvesting catfish; general care of livestock, poultry.

ALASKA: NO DATA AVAILABLE.

ARIZONA: Low pressure system 5th, gusty winds. Abundant sunshine, dry air, near normal temperatures 6th to 8th. High clouds, sunshine 9th. Scattered showers east 10th. Average temperatures 4° below to 4° above normal.

Favorable weather promoted good cotton progress; 65% squaring, 5% setting bolls. Many fields flowering, setting bolls west. Irrigation, cultivation, spraying for boll weevils south central. Small grain harvest progressed rapidly. Harvested acres greatest west. Central also many acres harvested. Alfalfa cuttings progressed well, good curing conditions. Fourth cuttings west; crop excellent. Statewide weed, insect, disease infestations minimal. Corn, sorghum planted following wheat harvest west. Corn tasseling central. Watermelon, cantaloup, honeydew harvest continued west. Potato harvest neared completion west. Central watermelon harvest expected very active this week. Table, chipper potato harvest continued central. Assorted vegetable harvest continued central. Lettuce, dry onion harvest continued east. Grapefruit, valencia oranges, grape harvest central, west.

ARKANSAS: Hot, dry weather persisted. Widely scattered showers mostly northwest. Temperature extremes 41°; 100°. Rainfall totals none to 0.34 in.

Days suitable for fieldwork 7.0. Soil moisture supplies 98% short, 2% adequate. Drought causing concern, insufficient moisture for soybean germination. Soybeans 49% emerged, 66% 1987, 52% avg.; 25% poor, 58% fair, 17% good. Cotton 12% poor, 74% fair, 14% good; Weevil population increased. Sorghum 90% emerged, 94% 1987; few fields plowed up, replanted to beans. Rice fields being permanently flooded. Wheat harvest extremely rapid pace; yields, test weights better than expected. Peach harvest started. Tomato harvest continued. Grapes on spray schedule. Second hay slowed due to drought. Pastures supplying below average forages. Livestock good.

CALIFORNIA: Cold winter-like pattern developed over State most of week. Much below normal temperatures, areas of showers. Redding 16° below normal, 1.50 in. rain. Weekend higher pressure build slowly, warming temperatures.

Showers northern half, cool weather interrupted field activities, slowed crop progress. Southern area winter grain harvest gained momentum. Most wheat still drying. Desert wheat harvest winding down. Some seeding 2nd crop corn, sorghum. Some stress rice, fluctuating temperatures. Weed controls continued. Early cotton squaring. Thinning, cultivation, fertilization good progress. Sugarbeet harvest normal. Treated leafhoppers, aphids, mildew. Seed alfalfa bloom increased. Bee colony movement seed alfalfa continued. Cutting alfalfa, other hay delayed north. Some cut hay rained on. Cooler temperatures slowed maturity, enhanced stone fruit coloring. Growers irrigated, applied weed control materials, deciduous crops. Apricot harvest continued San Joaquin Valley. Cherry harvest completed. Grapes leafed out, clusters gained maturity San Joaquin Valley. Coachella Valley table grape harvest expanded to thompson seedless variety. Picking of stone fruits continued. Thinning nearly complete, late clingstone peach varieties Sacramento Valley. Pomegranates bloomed San Joaquin Valley. Summer grapefruit, southern coastal lemon, valencia orange harvests active. Broccoli supplies heavy, good quality Salinas, Santa Maria; harvested Riverside. Cauliflower movement heavy, good quality Salinas, Santa Maria. Carrots dug Westside, Riverside. Celery harvested south, central coast, good quality. Lettuce heavy, variable quality Salinas; moderate, good quality Santa Maria. Melons harvested Riverside. Cool, variable weather slowed melon plants Westside. Onions harvested Westside. Tulelake onion fields hail damaged. Sweetpotato planting finished Merced-Atwater, harvest continued Riverside. Growers covered young potatoes with soil Tulelake, prevent frost damage. Strawberries heavy central coast beginning last week, decreased weekend. Fresh tomato planting ended Merced-Atwater. Tomato growth uneven most central areas; cold, variable weather. Table tomato harvest began Riverside. Livestock fair to good statewide. Range, pastures north, central valley areas poor to fair due to dry weather. Livestock moved to summer ranges. Supplemental feeding light. Water supplies still short most areas.

COLORADO: Scattered showers, thunderstorms latter part week. Precipitation none to 1.12 in. Average temperature 1 to 9° above normal.

Days suitable for fieldwork 6.0. Soil moisture 12% very short, 46% short, 42% adequate. Small grain emergence complete. Dry bean 51% planted. Sorghum 64% planted. Livestock good; ranges, pastures good.

FLORIDA: Cold front, cloudiness, showers, thunderstorms most of period, Fort Myers to Immokalee, south. Elsewhere, fairly dry, mild; only isolated showers, thunderstorms beginning of period. Rainfall amounts heaviest north, south during period; less, some central areas.

Soil moisture short to surplus throughout State; most areas short to adequate. Some late emerging cotton fields replanted to soybeans as result of earlier dry conditions. Peanut planting, wheat, oat harvest completed. Haymaking active. Tobacco harvest started. Sugarcane good progress. Early midweek rains continued to revive Panhandle

pastures; additional rains boosted forage growth most other areas. More rain needed many Panhandle areas, much of northern, central Peninsula. Conditions varied from severely poor extreme western Panhandle to good, eastern Panhandle. Peninsular pastures very poor few upper west coast counties; elsewhere mostly good to excellent. Cattle only poor to fair few driest localities. Elsewhere, condition mostly good with few Peninsular areas excellent. Rain most citrus areas, amounts up to 3.00 in., some caretakers continued irrigation. More rain needed to refill ponds, reservoirs. New crop fruit progressing well, valencia harvest slowed as supplies running low. Grapefruit harvest nearly finished. Hot days, mild nights vegetable producing areas. Rain beneficial, especially northern Peninsula, Panhandle watermelon fields. Harvest most crops completed central, southern areas. Harvest active watermelons, potatoes, tomatoes, sweet corn, peppers, cucumbers, celery. Lighter supplies carrots, eggplant, squash. Hastings potatoes 85% harvested.

GEORGIA: Rain central, south. Beneficial amounts limited local areas. Rainfall light north. Total less than 0.30 in. north; under 0.50 in. central, south. Local rains 1.00 to 3.00 in. Temperatures 2 to 5° below normal. Warmest temperatures low, mid 90s. Extreme lows weekend from 40s mountains to mid 50s central, south.

Days suitable for fieldwork 5.8. Soil moisture 46% very short, 36% short, 18% adequate. Corn 38% silked, 40% 1987, 53% avg.; 9% dough, 4% 1987, 20% avg.; none dented. Sorghum fair to good, 85% planted. Peanuts mostly good; 100% planted; blooming, pegging behind average. Tobacco slightly improved, harvest just started. Dry weather aids wheat harvest, yield; quality excellent. Apples suffering from dry weather, now fair. Peaches also down, now fair to good. Pastures, hay off from last week. Livestock fair to mostly good.

HAWAII: Sunny, warm days. Cool nights. Rainfall none to 3.70 in., most in windward areas. Trade winds 10 to 25 mph.

Days suitable for fieldwork 7.0. Crops made improved growth. Irrigation heavy. Spraying also very active. Chinese cabbage production moderate. Head cabbage output heavy, harvest quality good. Head lettuce supplies light. Papaya production steady. Watermelon harvesting heavy, good quality. Overall macadamia nut sets above year ago.

IDAHO: Temperatures below normal north, southwest; above normal south central, east. Precipitation varied north; otherwise dry.

Days suitable for fieldwork 6.0. Soil moisture 7% very short, 45% short, 41% adequate, 7% surplus. Soil moisture short, adequate; supplies of irrigation water good. Potatoes nearly 100% planted; 76% emergence, 82% 1987, 64% avg. Spring wheat good; 63% joint and beyond; 30% boot and beyond. Winter wheat good; 71% boot and beyond; 31% headed. Spring barley 27% boot and beyond; 12% headed. Corn nearly 100% emerged. First cut alfalfa 38% harvested. Sugarbeets nearly 75% thinned. Dry beans 88% planted; 40% emergence. Livestock good.

ILLINOIS: Temperatures averaged 4 to 6° below normal south, 1 to 3° below normal north. Precipitation averaged 1.00 to 1.50 in. west central, west southwest sections; less than 0.10 in. north, 0.25 to 0.50 in. central, south.

Days suitable for fieldwork 6.0. Soil moisture 97% short, 3% adequate. Corn height average 21 in., 28 in. 1987, 18 in. avg. Most advanced 31 in., 42 in. 1987, 28 in. avg. Wheat 92% turning yellow, 93% 1987, 52% avg.; 28% ripe, 51% 1987, 19% avg. Oats 69% headed, 89% 1987, 60% avg.; 31%

filled, 54% 1987, 29% avg.; 4% turning yellow, 9% 1987, 3% avg.; 10% poor, 71% fair, 18% good. Alfalfa 1st cut 99%, 89% 1987, 77% avg.; 2nd cut 6%, 11% 1987, 4% avg.; 2% very poor, 23% poor, 58% fair, 17% good. Red clover cut 83%, 81% 1987, 61% avg.; 33% poor, 46% fair, 20% good, 1% excellent. Pasture 9% very poor, 52% poor, 34% fair, 5% good.

INDIANA: Temperatures near normal to 3 to 6° below normal. Lows mid 30s to lower 40s, highs low 70s to mid 90s. Precipitation minimal, totals less than 0.50 in.; isolated areas to 1.25 in.

Days suitable for fieldwork 6.8. Topsoil moisture 98% short, 2% adequate. Subsoil moisture 93% short, 7% adequate. Corn, soybeans, wheat mostly fair. Corn height 16 in., 26 in. 1987, 15 in. avg. Soybeans height 4 in., 7 in. 1987, 3 in. avg. Wheat 43% turning color, 62% 1987, 33% avg. Alfalfa hay 96% cut, 85% 1987, 70% avg. Pastures 34% very poor, 53% poor, 12% fair, 1% good. Scattered showers, cooler temperatures moved across State, short lived.

IOWA: Temperatures 1 to 2° below normal southeast to 7° above normal northwest. Precipitation none to 5.20 in.; no rain north central, northeast, southwest.

Days suitable for fieldwork 6.4. Topsoil moisture 87% short, 13% adequate; subsoil moisture 74% short, 26% adequate. Oats 6% very poor, 34% poor, 42% fair, 18% good. Oats 75% headed, 73% 1987, 40% avg. Winter wheat mostly fair to good. Hay 10% very poor, 39% poor, 37% fair, 14% good. First crop alfalfa 85% harvested, 74% 1987, 55% avg. First crop clover 45% harvested, 41% 1987, 24% avg. Corn 85% cultivated 1st time, 69% 1987, 41% avg. Average corn height 20 in. Soybeans 42% cultivated 1st time, 28% 1987, 14% avg. Pastures 36% very poor, 41% poor, 20% fair, 3% good. Livestock mostly good to excellent. Heavy culling in beef herds.

KANSAS: Temperatures 11° above normal northwest, 5° above normal central, southwest, normal elsewhere. Rainfall short, scattered, 0.25 in. west central, south central, none elsewhere.

Days suitable for fieldwork 6.5. Topsoil moisture 75% short, 23% adequate, 2% surplus. Subsoil 54% short, 46% adequate. Hot dry weather pushed some wheat to maturity. Harvest started southern counties, test cutting widespread. Planting corn, sorghum, soybeans good progress but short moisture reduced activity toward weekend. Rapid buildup greenbugs sorghum, some corn as migration from wheat continues. Condition, growth generally good corn, sorghum, soybeans, but moisture supplies rapidly depleted by hot dry weather. Second cutting alfalfa underway, regrowth slow, outlook poor. Range, pastures fair to good except northeast, north central where heavy early summer culling necessary.

KENTUCKY: Warm early, daily highs 90s. Cold front midweek provided pleasantly cool temperatures last half. Temperatures averaged 5 to 7° below normal. Precipitation occurred with cold front, 0.30 in. west, 0.80 in. east.

Days suitable for fieldwork 5.3. Soil moisture 65% very short, 33% short, 2% adequate. Corn fair to good; twisting, curling many fields. Average height 20 in. Rain 9th temporary relief, but general rain needed. Barley 50% harvested, wheat harvest beginning. Rain needed for double crop soybeans to germinate. Pastures continued to deteriorate; 29% very poor, 44% poor, 25% fair, 2% good. Hay thin, short. Water level dropping farm ponds.

LOUISIANA: Temperature 1 to 3° below normal. Temperature extremes 49°, 99°. Rainfall averaged none to 2.03 in.

Days suitable for fieldwork 6.1. Soil moisture 52% very short, 25% short, 21% adequate, 2% surplus. Corn fair; 35% silked, 44% 1987, 54% avg.; 2% dough stage, 4% 1987, 16% avg. Emerged: Cotton 89%, sorghum 89%, soybeans 67%, all below avg. Sweetpotatoes poor to fair; 54% planted, 72% 1987, 77% avg. Winter wheat 96% harvested, 81% 1987, 77% avg. Hay 1st cutting 78%, 72% 1987, 74% avg. Peaches fair to good; 18% harvested, 14% 1987, 18% avg. Sugarcane good. Livestock, pecans fair to good. Vegetables, pastures fair. Some farmers feeding hay. Hail damage southwest. Crop growth, development slowed or halted by drought, especially northern half of State. Main activities: Fertilizing pastures, rice; harvesting hay, vegetables, peaches, wheat; planting soybeans, sweetpotatoes.

MARYLAND & DELAWARE: Maryland: Precipitation averaged 0.51 in. Average temperature 67°, normal 70°. General temperature extremes 96°; 42°. Mountain extremes 92°; 33°.

Days suitable for fieldwork 6.0. Topsoil moisture 60% short, 40% adequate. Subsoil moisture 40% short, 60% adequate. Corn 96% planted, 98% avg. Soybeans 60% planted, 55% avg. Tobacco 80% transplanted, 70% avg. Wheat, oats, barley, rye good. Wheat 99% headed, 100% avg. Barley 90% turn color, 99% avg. Barley 5% harvested, 30% 1987. Apples fair to good. Peaches good.

Delaware: Precipitation averaged 0.71 in. Average temperature 67°, normal 70°.

Days suitable for fieldwork 5.5. Topsoil, subsoil moisture 50% short, 50% adequate. Corn 98% planted, 100% avg. Soybeans 55% planted, 55% avg. Wheat, rye 80% good, 20% fair. Barley 70% good, 30% fair. Apples, peaches good to excellent.

MICHIGAN: Temperatures ranged 2° below normal to 5° above normal. Temperature extremes 32°; 96°. Precipitation ranged none to 0.54 in. across State.

Days suitable for fieldwork 6.5. Soil moisture 99% short, 1% adequate. Corn 5% very poor, 20% poor, 35% fair, 35% good, 5% excellent. Soybeans 95% planted, 98% 1987, 80% avg. Wheat 95% headed, 98% 1987, 70% avg.; 5% very poor, 20% poor, 40% fair, 30% good, 5% excellent. Dry beans 40% planted, 70% 1987, 40% avg. Major activities: Soybean, dry bean planting, harvesting hay, sidedressing fertilizer, herbicide application. Dry conditions continued to stress fruit, vegetable crops. Irrigation extensive. Rain needed for normal sizing, development.

MINNESOTA: Temperatures averaged 4 to 12° above normal. Temperature extremes 31°; 99°. Precipitation averaged none to 0.36 in. Greatest weekly total 0.90 in.

Days suitable for fieldwork 6.6. Topsoil moisture 89% very short, 11% short. Spring wheat 86% jointing, 72% 1987, 41% avg.; 28% heading, 23% 1987, 6% avg. Oats 92% jointing, 86% 1987, 49% avg.; 45% heading, 46% 1987, 13% avg. Barley 88% jointing, 71% 1987, 40% avg.; 32% heading, 16% 1987, 4% avg. Corn 82% cultivated, 65% 1987, 34% avg.; 15 in. avg. height, 15 in. 1987, 7 in. avg. Soybeans 95% emerged, 92% 1987, 77% avg.; 57% cultivated once, 37% 1987, 15% avg.; 5 in. avg. height, 5 in. 1987, 2 in. avg. Sweet corn 96% planted, 91% 1987, 86% avg. Soybeans 3% very poor, 8% poor, 62% fair, 27% good. Field corn 1% very poor, 12% poor, 49% fair, 37% good, 1% excellent. Spring wheat 33% very poor, 37% poor, 28% fair, 2% good. Alfalfa hay 71% 1st cut, 67% 1987, 44% avg.

MISSISSIPPI: Dry, cool weather continued statewide. Average temperature 3° below normal. Extremes 44°; 98°. Greatest 24-hour rainfall 1.33 in. Greatest weekly total rainfall 1.67 in.

Days suitable for fieldwork 6.4, 5.0 1987, 4.5 avg. Soil moisture 70% very short, 30% short. Dry, cool weather stunting cotton, delaying emergence for all crops. Corn fair; 9% silking, 28% avg. Wheat good; 61% harvested, 59% 1987, 42% avg. Sorghum fair; 91% emerged, 97% 1987. Cotton fair; 20% squaring, 37% 1987, 22% avg. Some thrip, boll weevil problems. Rice fair; 94% emerged, 100% 1987, 96% avg. Soybeans 59% planted, 77% 1987, 66% avg.; 41% emerged, 60% 1987, 49% avg. Peaches good; 11% harvested, 33% 1987, 15% avg. Pasture poor to fair. Livestock fair to good. Hay 36% harvested, 36% 1987, 35% avg. Second hay cuttings doubtful. Activities: Wheat harvest, soybean planting, irrigating.

MISSOURI: Temperatures 1° below normal northwest to 6° below normal southeast. Mostly dry except 1.25 in. or more extreme northeast, east central counties.

Days suitable for fieldwork 6.4. Topsoil moisture 98% short, 2% adequate. Wheat 100% turning color, 96% 1987, 67% avg. Alfalfa 1st cutting 97%, 93% 1987, 79% avg. Other hay 69% harvested, 62% 1987, 40% avg. Pasture 36% very poor, 56% poor, 8% fair. Grass growth at standstill.

MONTANA: Very hot, dry east. Temperatures 20° above normal east, maximum over 100° most days. Central area 6 to 16° above normal. West 2 to 5° above normal. Precipitation light to none over State.

Days suitable for fieldwork 6.5. Topsoil moisture 86% short, 14% adequate. Subsoil moisture 83% short, 17% adequate. Barley 25% very poor, 22% poor, 26% fair, 25% good, 2% excellent. Oats 26% very poor, 24% poor, 26% fair, 23% good, 1% excellent. Sugarbeets 5% very poor, 11% poor, 24% fair, 58% good, 2% excellent. Spring wheat 57% not yet in boot, 28% boot, 15% headed. First cutting alfalfa 8% harvested. Other hay 2% harvested. Grasshopper damage to field crops 47% light, 50% moderate, 3% severe. Grasshopper damage to ranges 41% light, 51% moderate, 8% severe.

NEBRASKA: Hot dry, widely scattered thunderstorms. Precipitation amounts few hundredths of an inch. Isolated areas of Panhandle up to 1.00 in. Average temperatures ranged 1 to 11° above normal. Extremes 44°; 103°.

Days suitable for fieldwork 6.7. Topsoil moisture 75% short, 25% adequate. Subsoil moisture 49% short, 49% adequate, 2% surplus. Wheat 30% turning color, 44% 1987, 24% avg. Producers concerned about affect of wheat streak mosaic. Corn 100% emerged, 100% 1987, 96% avg. Corn borer, cutworms, white grubs found in some east central, southeast fields. Soybeans 90% emerged, 81% 1987, 73% avg. Bean leaf beetles northeast, leaf hoppers southeast. Sorghum 85% emerged, 78% 1987, 72% avg. Greenbugs treated east central, southeast, south central. Alfalfa hay 9% poor, 73% fair, 15% good, 3% excellent. Alfalfa 1st cutting 80%, 83% 1987, 66% avg. Alfalfa weevils, hot weather hurt 1st cutting, slowing 2nd growth. Pasture, range feeds short to adequate. Supplemental hay feeding necessary if conditions persist.

NEVADA: Cool, dry early. Low pressure system dominated remainder. Most precipitation central mountains, northeast midweek. South remained extremely dry. Temperatures averaged several degrees below normal. Extremes 26°; 106°.

Alfalfa hay harvesting moving northward slowly. Cool weather slowed growth most areas. Ranges continued to deteriorate.

NEW ENGLAND: Dry week. Precipitation averaged less than 0.25 in. across area. Temperatures averaged

low 50s near Canadian border to mid 60s southern coast. Temperatures near normal south, below normal north.

Days suitable for fieldwork 6.5. Soil moisture 5% very short, 52% short, 43% adequate. Grazing availability 25% short, 75% adequate. Fieldwork 1.0 days behind. Maine potatoes 100% planted, 99% 1987, 94% avg.; 53% emerged, 40% 1987, 32% avg.; good to excellent. Rhode Island potatoes good; 80% emerged, 85% 1987, 90% avg. Connecticut River Valley potatoes 100% emerged, 77% 1987, 94% avg.; good to excellent. Maine oats good; 100% sown, 99% 1987, 94% avg. Field corn good; 95% planted, 90% 1987, 85% avg.; 85% emerged 75% 1987, 70% avg. Sweet corn good; 90% planted, 80% 1987, 80% avg.; 75% emerged, 65% 1987, 70% avg. Shade tobacco good; 100% transplanted. Outdoor tobacco good; 50% transplanted. Apple set average; scab infection average; fruit drop average. Strawberry harvest beginning south; average set. Major farm activities: Haying, spraying, application of pest, weed control, harvesting strawberries.

NEW JERSEY: Temperatures averaged much below normal. Extremes 35°; 90°. Rainfall averaged 0.29 in. north, 0.17 in. central, 0.57 in. south. Heaviest 24-hour total 1.07 in. on 8th, 9th. Estimated soil moisture percent field capacity averaged 73% north, 69% central, 61% south. Four inch soil temperatures averaged 60° north, 63° central, 64° south.

Fieldwork very active with up to 7 days suitable. Irrigation use increased. Most crops good to excellent. Spring vegetable crop harvest continued active. Irish potatoes bloom increased. Strawberry harvest remained active. June drop continued on apples, peaches. Blueberries continued to size well. Barley combining increased. Rye, straw, hay cutting, baling continued active. Soybean planting remained active.

NEW MEXICO: Temperatures normal most areas; measurable precipitation many location.

Days suitable for fieldwork 6.3. Soil moisture 33% short, 67% adequate. Barley 25% fair, 75% good. Wheat 30% poor, 50% fair, 20% good; 100% headed, 1% harvested. Cotton 100% planted, none squaring; 33% fair, 67% good. Onions 100% good; 5 to 10% harvested, quality good. Corn, sorghum 100% good. Cattle 56% fair, 44% good. Sheep 33% fair, 67% good. Range 78% fair, 11% good, 11% excellent.

NEW YORK: Chilly weather most of week, scattered frost or freeze. Level temperatures 8th to 10th. Temperatures 6 to 8° below normal. Little or no rainfall occurred.

Days suitable for fieldwork 6.3. Soil moisture short to adequate. Corn 92% planted, 95% 1987, 95% avg. Dry bean planting well underway. First cutting hay good progress. Alfalfa hay 31% harvested, 25% 1987, 19% avg. Clover-timothy 25% cut, 10% 1987, 10% avg. Grass silage 35% cut, 30% 1987, 24% avg. Hay, pastures fair to mostly good. Wheat mostly good. Cool nights slowed fruit development. Vegetable crops continued good, rapid growth. Onion planting complete. Potatoes on Savannah muck damaged by frost. Processing vegetable planting remained on schedule.

NORTH CAROLINA: Temperatures averaged 4 to 6° below normal statewide. Temperature extremes 36°; 101°. Precipitation ranged none to 2.82 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 25% very short, 37% short, 37% adequate, 1% surplus. Pasture 3% very poor, 15% poor, 38% fair, 44% good. Burley tobacco 94% transplanted, 85% 1987, 75% avg. Tobacco in fields 1% very poor, 2% poor, 39% fair, 53% good, 5% excellent. Peanuts 100% planted, 99% 1987, 100% avg. Peanuts 32%

fair, 68% good. Sweetpotatoes 79% transplanted, 77% 1987, 72% avg.; 15% fair, 85% good. Irish potatoes 31% fair, 60% good, 9% excellent. Peaches 6% poor, 18% fair, 70% good, 6% excellent. Truck crops 2% poor, 40% fair, 56% good, 2% excellent. Sorghum 85% planted, 72% 1987, 70% avg. Hay 83% 1st cutting, 18% 2nd cutting.; 1% very poor, 8% poor, 30% fair, 60% good, 1% excellent. Apples 4% poor, 43% fair, 53% good. Major farm activities: Cutting hay; planting soybeans, sorghum, peanuts; transplanting tobacco, sweetpotatoes; picking strawberries, blueberries; fertilizing, spraying nursery crops; cultivating tobacco, truck crops, corn; tending livestock; general farm maintenance.

NORTH DAKOTA: Record breaking heat, light rain east central, southeast. Temperatures 23° above normal northwest to 13° above normal east central. Extremes 40° northeast; 105° northwest. Precipitation none western stations; 0.05 to 1.70 in. eastern stations. Growing season precipitation 2.21 in. below normal northeast to 3.69 in. below normal west central.

Days suitable for fieldwork 6.9. Soil moisture driest since records started 30 years ago. Topsoil 70% very short, 28% short, 2% adequate. Subsoil 48% very short, 45% short, 7% adequate. Hot, dry weather caused additional stress to small grains. Spring wheat 12% very poor, 50% poor, 35% fair, 3% good; durum 19%, 44%, 37%; oats 22%, 57%, 21%; barley 16%, 51%, 33%; winter wheat 28%, 58%, 12%, 3%. Small grains progressed ahead of normal pace. Spring wheat 40% boot and beyond, 25% 1987, 12% avg.; durum 24%, 14% 1987, 7% avg.; oats 31%, 27% 1987, 14% avg.; barley 48%, 33% 1987, 16% avg.; winter wheat 7% milk to dough and beyond, 14% 1987, 4% avg. Row crop planting virtually completed. Corn 90% emerged, 93% 1987, 89% avg.; flax 78%, 88% 1987, 84% avg.; soybeans 93%, 92% 1987, 88% avg.; potatoes 92%, 93% 1987, 85% avg.; sunflower 75%, 84% 1987, 73% avg.; dry edible beans 93%, 94% 1987, 89% avg. Many cattle marketed early as pastures, hay conditions further depleted. Pastures 46% very poor, 49% poor, 5% fair.

OHIO: Average high temperatures upper 70s to low 80s. Average low temperatures upper 40s. Lowest readings mid 30s on 9th, 10th. Rainfall less than 0.10 in. north; 0.25 to 0.75 in. central, south.

Days suitable for fieldwork 6.8. Soil moisture 88% short, 12% adequate. Some frost nipped leaves; no significant damage. Activities haying, spraying, cultivating, planting beans. Corn fair, development uneven. Cutworm activity northwest. Soybeans fair; plants wilting, bean leaf beetles feeding west central. Early planted corn, soybeans better than later plantings. Winter wheat fair; some stands drying to maturity; moisture needed to fill heads. Grasslands need rain for regrowth. Haying far ahead of normal; volume, quality down. Spring planted forage stands lost to dry soils. Alfalfa weevils feeding.

OKLAHOMA: Temperatures averaged 1° below normal central to 3° above normal Panhandle. Panhandle only area receiving rain 0.12 in.

Days suitable for fieldwork 6.4. Topsoil moisture 80% short, 20% adequate. Subsoil moisture 45% short, 55% adequate. Wheat 9% fair, 91% good; 25% harvested, 30% 1987, 15% avg. Cheat troublesome north. Sorghum 25% fair, 75% good; 65% planted, 55% 1987, 55% avg. Need rain for good germination, development. Some plants dying because of lack of moisture. Cotton 1% poor, 93% fair, 6% good; 90% planted, 50% 1987, 55% avg.; 1% squaring, 1% 1987, none avg. Peanuts 80% planted, 70% 1987, 70% avg. Irrigation active. Soybeans 55% planted, 70% 1987, 60% avg. Corn 3% tasseling, 15% 1987, 5% avg. Pastures slipped to good to fair. Cattle good; marketings, prices stable.

OREGON: Cool temperature, abundant precipitation across State. Average temperatures slightly below normal coast, except extreme south coast 2° above normal; greatest departures more than 10° above normal south central, Klamath Basin. Precipitation averaged 0.75 to 1.00 in. west of Cascades; Astoria 2.25 in. East of Cascades received 0.25 to 0.50 in. except extreme east only traces.

Soil moisture 15% short, 75% adequate, 10% surplus. Grain, grass seed crops continued to improve west; moisture slowed maturity, contributed to disease. Rust spraying bluegrass, ryegrass. Both winter, spring grains expected to yield normal or above east. Rust in club wheat varieties. First alfalfa hay cutting complete Willamette Valley. Considerable rain damage to downed hay southwest. Haying ready to begin with break in weather northeast mountains, Klamath Basin. Mint growing well south Willamette Valley. Strawberry harvest started slowly Willamette Valley; wet weather slowed fruit rot spraying. Cherries turning color Wasco County, Willamette Valley, some splitting. Boysenberry, marionberry fields full bloom west. Pears suffered some hail damage, fruit marking Medford; growers applying 2nd cover sprays, blight sprays. Apples, pears showing some scab infection Willamette Valley. Stevens cranberries at mid-bloom south coast. Cauliflower beds sowed. Snap beans, sweet corn, broccoli, carrots, beets sowed between rain storms. Wet weather increased disease, loss of planting dates. Early planted summer vegetables growth beginning well. Onions weeded Medford. Sweet corn, green beans growing nicely. Green pea harvest continued excellent, Umatilla County. Potato growth slow Klamath Basin. Livestock mostly good. Some shipping of lambs started. Some calves contracted for sale. Western pastures good, growers getting more forage than anticipated. Ranges east of Cascades good. Grasses mostly headed out but cool, wet weather delayed maturity.

PENNSYLVANIA: Very warm, dry beginning week; unseasonably cold end of week. Average temperature 61°, 3° below normal. Temperature extremes 28°, 92°. Average precipitation 0.39 in., 0.48 in. below normal.

Days suitable for fieldwork 5.0. Soil moisture 26% short, 74% adequate. Corn 92% planted, 96% 1987, 92% avg.; height 6 in., 9 in. 1987, 7 in. avg. Corn 4% poor, 26% fair, 55% good, 15% excellent. Tobacco 57% transplanted, 62% 1987, 53% avg. Soybeans 69% planted, 74% 1987, 69% avg. Soybeans 3% poor, 30% fair, 58% good, 9% excellent. Barley 55% heading or headed, 56% 1987; 44% turning yellow, 42% 1987; none ripe, 2% 1987. Wheat 94% heading or headed, 86% 1987, 6% turning yellow. 14% 1987. Wheat 2% poor, 21% fair, 59% good, 18% excellent. Oats 2% boot, none 1987, 98% heading or headed, 93% 1987; none turning yellow, 7% 1987. Oats 1% poor, 21% fair, 57% good, 21% excellent. First cutting alfalfa 67%, 56% 1987. First cutting clover-timothy 45%, 37% 1987. Hay stands mostly good. Feed from pastures average. Activities: Planting corn, soybeans, potatoes, other vegetables; strawberries, transplanting tobacco; harvesting hay, haylage, vegetables; weed control; machinery maintenance; caring for livestock; spreading fertilizer.

PUERTO RICO: Island average rainfall 0.12 in., 1.26 in. below normal. Highest weekly total rainfall 0.79 in. Pico Del Este-Luquillo, 0.58 in. Jayuya, 0.44 in. Cidra. Highest 24-hour total 0.34 in. Pico Del Este-Luquillo. Total rainfall since January 1 19.84 in., 5% below normal. San Juan WSFO mean temperature 85°, 4° above normal. Total rainfall 0.05 in., 1.09 in. below normal. Divisional temperature averaged 81 to 85° on coasts, 77 to 81° interior. Mean station temperature ranged 68° Pico Del Este-Luquillo to

85° San Juan WSFO. Lowest minimum temperature 63° Pico Del Este-Luquillo. Highest maximum temperature 97° San Juan WSFO.

SOUTH CAROLINA: Rainfall varied from 0.01 to 2.98 in. Temperatures averaged slightly below normal.

Days suitable for fieldwork 5.8. Soil moisture 8% very short, 59% short, 33% adequate. Cotton 1% squaring, 42% 1987, 25% avg.; 2% very poor, 2% poor, 57% fair, 39% good. Soybeans 68% planted, 56% 1987, 64% avg.; 2% poor, 45% fair, 53% good. Tobacco fair to good. Peanuts fair to good. Sorghum fair to good; 56% planted, 71% 1987, 68% avg. Peaches fair to good; 10% harvested, 9% 1987, 13% avg. Wheat good; 91% ripe, 90% 1987, 87% avg.; 49% harvested, 49% 1987, 52% avg. Oats fair to good; 89% ripe, 89% 1987, 86% avg.; 50% harvested, 57% 1987, 58% avg. Barley fair to good; 81% ripe, 86% 1987, 82% avg.; 49% harvested, 56% 1987, 59% avg. Grain hay fair to good; 89% harvested, 92% 1987, 92% avg. Pasture fair.

SOUTH DAKOTA: Average temperatures 2 to 19° above normal. Extremes 41°, 108°. Only few locations had rain. Rainfall since April 10th below normal.

Days suitable for fieldwork 6.2. Topsoil moisture much worse from previous week; 34% critically short, 48% short, 18% adequate. Disease, drought, insects continued to plague crops.

TENNESSEE: Dry conditions. Most locations received no rain. Some scattered showers extreme upper east on 9th. Average temperatures below normal statewide. Ranged 1° below normal west to 10° below normal Plateau.

Days suitable for fieldwork 6.1. Soil moisture 67% very short, 32% short, 1% adequate. Tobacco 88% transplanted, 92% 1987, 82% avg. Wheat 56% ripe, 81% 1987, 54% avg.; 10% harvested, 40% 1987, 13% avg. Little planting due to dry soil. General farm chores, tending livestock main activities. Ponds, creeks low.

TEXAS: Isolated afternoon, evening thunderstorms far west early week. Otherwise, most week, high pressure ridge provided sunny, warm conditions much State. Temperatures 1° below seasonal normals south central, north central, northeast, Upper Coast. Readings near or above normal elsewhere. Despite rainfall west, light showers other areas, precipitation below normal.

Crops: Small grain harvest proceeded after rains Blacklands, Low Plains. Some producers winding down operations, yields varied widely. Some minor hail damage Low Plains 2 weeks ago. Fields turned color as temperatures rose. Corn improved growth Blacklands, Plains from recent moisture. Hot temperatures depleted moisture. Fields continued dough stage east, central. Coastal Bend, Rio Grande Valley fields rapidly maturing under hot, dry conditions. Corn 53% silked, 50% 1987, 54% avg.; 18% doughing, 13% 1987, 29% avg.; 2% dented, 1% 1987, 7% avg. Grain sorghum producers increased planting operations Plains, Cross-Timbers with open weather. Growth, progress increased rapidly Blacklands, central. Some heat stress showed up. Fields turned color Coastal Bend, Valley. Some spraying for midge Upper Coast. Sorghum 37% headed, 31% 1987, 41% avg.; 12% turning color, 3% 1987, 16% avg.; none mature, none 1987, 2% avg. Cotton planting increased Plains, rainfall supplied needed moisture. Young fields up need additional moisture. Warmer temperatures promoted good growth older stands. Cultivation operations progressed central. Fields set bolls Coastal Bend, Valley. Hail damage some replanting High Plains, or producers planting alternative crop. Cotton 9% setting bolls, 5% 1987, 6% avg. Rice fields head Upper Coast. Flooding fields continued. Rice 5%

headed, 3% 1987, 2% avg. Peanut planting progressed Low Plains, Cross-Timbers. Rain 2 weeks ago supplied much needed soil moisture for planting. Early stands fair, cultivated. Planting full swing central. Soybean planting increased Plains, Upper Coast. Growth good Upper Coast. Plains early stands fair. Other Field Crops: Oats 49% harvested, 33% 1987, 50% avg. Peanuts 50% planted, 38% 1987, 49% avg. Soybeans 59% planted, 55% 1987, 60% avg. Sunflowers 22% planted, 25% 1987, 59% avg.

Commercial Vegetables: Rio Grande Valley harvest melons, tomatoes, peppers, cucumbers continued. Land preparations fall planting to increase soon. San Antonio-Winter Garden watermelon harvest proceeded slow pace. Harvest tomatoes, onions, sweet corn continued. East harvest continued some minor disease problems. Rainfall needed. High Plains onions, potatoes excellent. Some minor hail damage occurred. Harvest continued Knox-Haskell. Other vegetables, melons good progress. Trans-Pecos onion harvest continued. Cabbage, cantaloups good harvest neared. Peach harvest continued. Some light hail damage Hill Country. Quality good. Pecan prospects good. Sets fair to good light casebearer problems. Normal operations continued.

Range and Pasture: Range conditions declined many portions south, forage availability very low. Heavy movement livestock to market. Areas central, Blacklands, Plains improved slightly because recent rains, although hot, drying winds depleted soil moisture. Hay cutting continued many areas, average yields. Horn flies increased some herds.

UTAH: No precipitation. Temperatures 1° below normal to 7° above. Windy.

Days suitable for fieldwork 6.2. Soil moisture 78% short, 22% adequate. Winter wheat 78% headed, 85% 1987, 64% avg.; 12% turning color, 17% 1987, none avg. Spring wheat 70% booting, 78% 1987, 51% avg.; 25% headed, 54% 1987, 27% avg. Barley 75% booting, 81% 1987, 62% avg.; 36% headed, 55% 1987, 37% avg. Average corn height 9 in., 14 in. 1987, none avg. Alfalfa 1st cutting 33%, 55% 1987, 40% avg.; 2nd cutting progressed south. Mormon crickets, grasshoppers, Russian wheat aphid, cereal leaf beetle appearing. Range feed drying. Most livestock on summer range.

VIRGINIA: Normal rainfall, below normal temperatures. Precipitation ranged 0.50 to 1.00 in. Temperature ranged 36 to 95°. Averaged 5° below normal.

Days suitable for fieldwork 5.3. Topsoil moisture 27% short, 71% adequate, 2% surplus. Crops good or better all areas except southwest mountains where fair conditions prevail, dry weather persists. Corn planting virtually complete. Soybeans 56% planted, 60% 1987, 61% avg. Flue-cured tobacco transplanting essentially complete. Burley tobacco 92% transplanted, 89% 1987, 80% avg. Cool evenings slowed tobacco growth. Hay harvest active. Short hay crop southwest, good elsewhere. Barley 27% harvested, 27% 1987, 45% avg. Oats 20% harvested, 25% 1987, 23% avg. No wheat harvested yet. Very active spraying on potatoes for Colorado potato beetles. Fruit prospects good to excellent.

WASHINGTON: Upper level low pressure area off coast produced unsettled weather over State. Caused below normal seasonal temperatures, scattered rain showers throughout State.

Days suitable for fieldwork 1 to 3 east, 3 to 6 central. Soil moisture 60% short, 30% adequate, 10% surplus. Cool moist weather benefited developing cereal crops, hindered cutting of 1st crop alfalfa hay. Winter wheat 68% headed, 94% 1987, 74% avg. Spring wheat, barley heading near normal. Damage to 1st crop hay widespread, quality generally reduced because of rain. Cereal grain crop conditions generally improved. Winter wheat 5% poor, 45% fair, 40% good, 10% excellent. Insect infestations isolated areas. Cherry harvest continued, reduced pace. Sixty degree temperatures delayed maturing cherries, rain damaged early orchards. Later orchards came through with minimal damage. Hand thinning apple underway Kittitas County. Strawberry growers west of Cascades prepared for harvest. Red raspberries, blueberries continued normal progress. Cool season vegetables good Yakima County, however cool temperatures delayed tomato, pepper, sweet corn growth. Asparagus harvest continued, many growers approaching cutoff date Yakima County. Rains improved range, pasture conditions. Hay, other roughage feed supplies continued mostly adequate.

WEST VIRGINIA: Average temperature 64°, 4° below normal. Extremes 95° Creston, 32° Greenbank. Precipitation below normal averaging 0.57 in.

Days suitable for fieldwork 4.7. Soil moisture 29% very short, 31% short, 37% adequate, 3% surplus. Oats, wheat, barley good to fair. Oats 81% jointed, 40% headed, 6% ripe. Barley 100% jointed, 96% headed, 13% ripe. Corn fair to good; 97% planted, 86% emerged. Tobacco fair to poor; 79% set. Apples, peaches good to fair. Cattle, sheep good to fair. Feed supplies 29% short, 67% adequate, 4% surplus. Farm activities: Haying, livestock care, machine maintenance, corn planting.

WISCONSIN: Temperatures averaged 66°, normal. Extremes 24°, 99°. Precipitation none to 0.20 in. Critically dry.

Days suitable for fieldwork 6.9. Soil moisture 99% short, 1% adequate. Crops 7% very poor, 29% poor, 52% fair, 11% good, 1% excellent. Corn better; 2% very poor, 13% poor, 54% fair, 29% good, 2% excellent. Average corn height 11 in., 12 in. 1987, 6 in. avg. Soybeans 95% planted, 91% 1987, 85% avg. Some later beans not germinated, too dry. Oats 33% headed, 23% 1987, 9% avg.; very short. First crop hay very rapid progress; 82% cut, 53% 1987, 40% avg. Yields range 25 to 90% of normal. Regrowth slow. Peas poor. Pastures very poor.

WYOMING: Temperatures 7 to 20° above normal. Precipitation almost non-existent.

Days suitable for fieldwork 7.0. Topsoil moisture 71% short, 29% adequate. Spring wheat 100% emerged, 100% 1987. Oats 95% emerged, 95% 1987. Barley 100% emerged, 100% 1987. Corn 95% planted, 95% 1987; 90% emerged, 90% 1987, 90% avg. Potatoes 90% planted, 85% 1987; 80% emerged, 65% 1987, 75% avg. Dry beans 80% planted, 85% 1987, 90% avg.; 45% emerged, 70% 1987, 65% avg. Sugarbeets 70% thinned, 50% 1987. Winter wheat 45% boot, 30% 1987; 40% headed, 50% 1987. Russian aphids Platte County. Livestock fair to good. Range, pastures deteriorating: 25% poor, 35% fair, 40% good. Livestock moved to summer ranges: cattle 75%, sheep 80%.

Crop Progress 1/

FOR WEEK ENDING JUNE 12, 1988

WINTER WHEAT
% HARVESTED

	1988	1987	AVG.
ARK	50	71	37
CALIF	15	35	25
COLO	0	0	0
GA	79	80	73
IDAHO	0	0	0
ILL	0	NA	NA
IND	0	0	0
KANS	0	1	1
MICH	0	0	0
MO	8	23	6
MONT	0	0	0
NEBR	0	0	0
N MEX	0	1	NA
N C	10	27	30
OHIO	0	0	0
OKLA	25	30	15
OREG	0	0	0
S DAK	0	0	0
TEX	30	21	33
WASH	0	0	0

WINTER WHEAT
% HEADED

	1988	1987	AVG.
ARK	100	100	NA
CALIF	100	100	100
COLO	85	87	79
GA	100	100	100
IDAHO	34	61	28
ILL	100	100	99
IND	100	100	97
KANS	100	100	98
MICH	95	98	70
MO	100	100	99
MONT	60	27	12
NEBR	96	100	90
N MEX	100	100	NA
N C	100	100	NA
OHIO	96	100	94
OKLA	100	100	100
OREG	78	98	89
S DAK	93	95	70
TEX	99	100	100
WASH	74	94	68

GRAIN SORGHUM
% PLANTED

	1988	1987	AVG.
ARK	96	97	93
ILL	94	93	71
KANS	75	70	45
LA	96	98	96
MISS	97	99	90
MO	95	93	80
NEBR	97	92	89
OKLA	65	55	55
S DAK	82	85	70
TFNN	92	89	80
TEX	80	81	84
11 STATES	82	80	68

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

SOYBEANS
% PLANTED

	1988	1987	AVG.
ALA	71	74	65
ARK	68	79	64
GA	69	75	71
ILL	99	98	90
IND	99	97	86
IOWA	100	98	94
KANS	85	75	50
KY	77	69	50
LA	67	78	78
MICH	95	98	80
MINN	100	99	94
MISS	59	77	66
MO	87	87	67
NEBR	99	95	91
N C	65	60	64
OHIO	96	95	87
S C	68	66	64
S DAK	100	96	84
TENN	76	75	55

19 STATES 90 90 80

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

Crop Condition

FOR WEEK ENDING JUNE 12, 1988

WINTER WHEAT

STATE	VP	P	F	G	EX
ARK	0	0	23	45	32
CALIF	0	5	15	70	10
COLO	2	4	21	60	13
GA	0	1	7	50	42
IDAHO	0	6	14	62	18
ILL	0	9	51	36	4
IND	4	37	51	8	0
KANS	2	26	53	15	4
MICH	5	20	40	30	5
MO	1	15	57	26	1
MONT	30	27	23	19	1
NEBR	0	20	52	28	0
N MEX	0	30	50	20	0
N C	0	1	16	81	2
OHIO	3	20	45	30	2
OKLA	0	0	9	91	0
OREG	0	0	6	87	7
S DAK	12	22	43	22	1
TEX	4	15	43	33	5
WASH	0	5	45	40	10

20 STATES	9	NA	NA
EXCL. STATES WITH NA	9	11	8

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

NA - NOT AVAILABLE.

20 STATES	93	94	NA
EXCL. STATES WITH NA	93	94	88

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

NA - NOT AVAILABLE.

COTTON
% PLANTED

	1988	1987	AVG.
ALA	100	100	99
ARIZ	100	100	100
ARK	100	100	100
CALIF	100	100	100
GA	98	98	98
LA	100	100	100
MISS	100	100	100
MO	100	100	100
N MEX	100	100	98
N C	100	100	100
OKLA	90	50	55
S C	100	100	100
TENN	100	100	99
TEX	87	76	79

14 STATES 94 87 88

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

COTTON
% SQUARING

	1988	1987	AVG.
ALA	23	19	14
ARIZ	65	80	78
ARK	15	35	14
CALIF	5	17	14
GA	30	26	36
LA	21	32	23
MISS	20	37	22
MO	8	17	8
N MEX	0	7	6
N C	0	11	11
OKLA	1	1	0
S C	1	42	25
TENN	8	27	8
TEX	13	14	12

14 STATES 15 22 16

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

RICE
% EMERGED

	1988	1987	AVG.
ARK	97	100	93
CALIF	85	95	90
LA	100	98	98
MISS	94	100	96
TEX	100	100	100

5 STATES 96 99 95

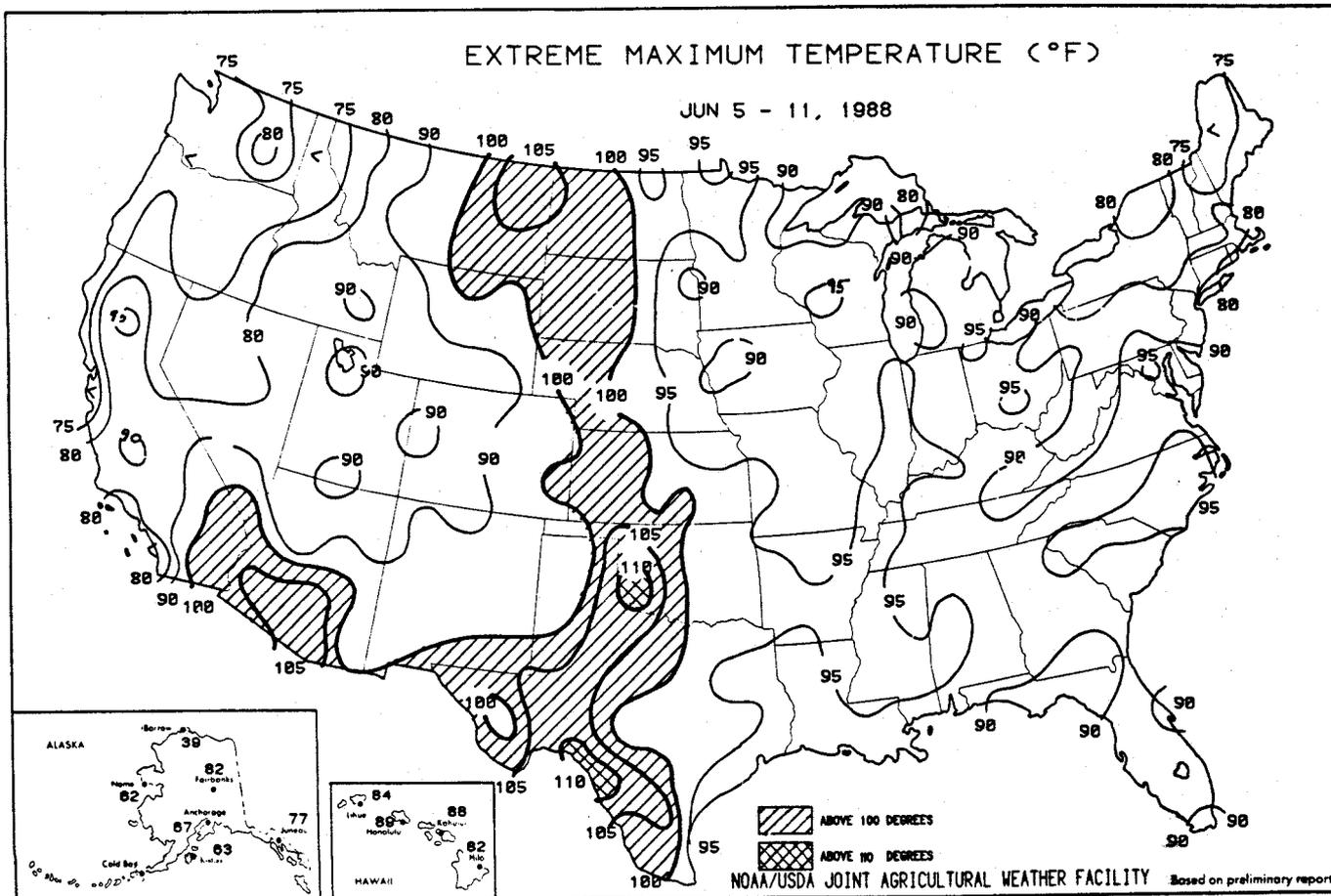
THESE 5 STATES PRODUCED 97% OF THE 1987 RICE CROP.

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

SOYBEANS						CORN						RICE					
STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX
ALA	2	11	76	11	0	COLO	0	1	15	67	17	ARK	0	5	74	21	0
ARK	0	25	58	17	0	GA	0	10	51	39	0	CALIF	0	5	20	70	5
GA	0	9	38	48	5	ILL	0	3	38	57	2	LA	0	4	25	71	0
ILL	0	7	54	38	1	IND	2	24	66	8	0	MISS	0	10	85	5	0
IND	4	29	62	5	0	IOWA	0	3	33	58	6	TEX	0	0	1	81	18
IOWA	0	4	45	48	3	KANS	8	3	34	28	27	SPRING WHEAT					
KANS	1	1	36	36	26	KY	2	9	62	27	0	STATE	VP	P	F	G	EX
KY	4	17	55	24	0	MICH	5	20	35	35	5	IDAHO	0	9	14	66	11
LA	0	27	47	26	0	MINN	1	12	49	37	1	MINN	33	37	28	2	0
MINN	3	8	62	27	0	MO	3	25	64	8	0	MONT	35	27	24	13	1
MISS	5	30	60	5	0	NEBR	0	1	47	51	1	N DAK	12	50	35	3	0
MO	3	25	66	6	0	OHIO	4	22	44	28	2	S DAK	16	26	31	26	1
NEBR	0	10	34	56	0	PA	0	4	26	55	15						
N C	1	3	30	65	1	S DAK	0	4	20	70	6						
OHIO	6	27	42	24	1	TEX	0	7	31	49	13						
S C	0	2	45	53	0	WISC	2	13	54	29	2						
S DAK	0	5	20	71	4												
TENN	5	21	66	8	0												

GRAIN SORGHUM						COTTON					
STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX
ARK	0	19	67	14	0	ALA	0	14	69	17	0
ILL	0	24	33	43	0	ARIZ	0	0	25	75	0
KANS	2	12	18	39	29	ARK	0	12	74	14	0
LA	3	28	63	6	0	CALIF	0	0	10	50	40
MISS	5	15	65	15	0	GA	0	6	40	54	0
MO	3	18	74	5	0	LA	1	46	39	14	0
NEBR	0	2	51	47	0	MISS	5	20	60	15	0
OKLA	0	0	25	75	0	MO	0	17	83	0	0
S DAK	9	11	45	34	1	N MEX	0	0	33	67	0
TENN	1	10	70	19	0	N C	0	6	50	44	0
TEX	3	7	35	46	9	OKLA	0	1	93	6	0
						S C	2	1	58	39	0
						TENN	0	10	70	16	4
						TEX	2	4	24	58	12

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



International Weather and Crop Summary

June 5-12, 1988

HIGHLIGHTS:

UNITED STATES ... Inadequate moisture hastens small grain maturity throughout most of the eastern half of the Nation. The lack of moisture hampers germination and slows row crop growth and development. Hot temperatures deplete soil moisture and cause plants to begin wilting in some areas.

USSR ... In the Western USSR, hot weather stresses vegetative to reproductive winter grains in eastern crop areas. In the New Lands, light rain favors vegetative spring grains.

EUROPE ... Moderate to heavy rain further eases dryness over the northeast. Showers delay winter grains harvest in parts of the south.

SOUTH ASIA ... Heavy showers cover the southwest coast, causing some local flooding. A tropical cyclone brings moderate to heavy showers to eastern rice regions.

EASTERN ASIA ... Hot weather favors winter grain harvest, but stresses reproductive crops.

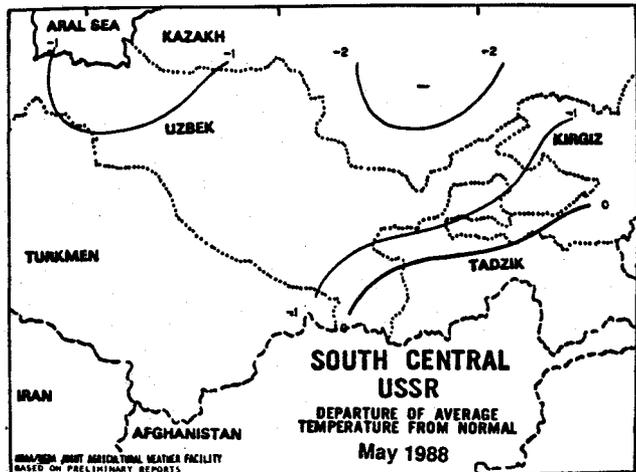
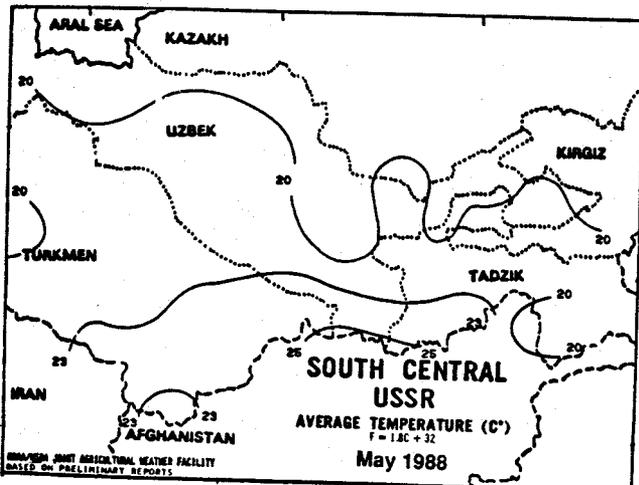
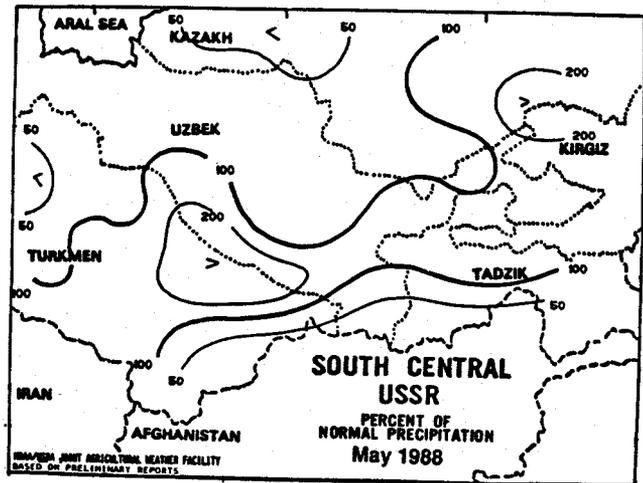
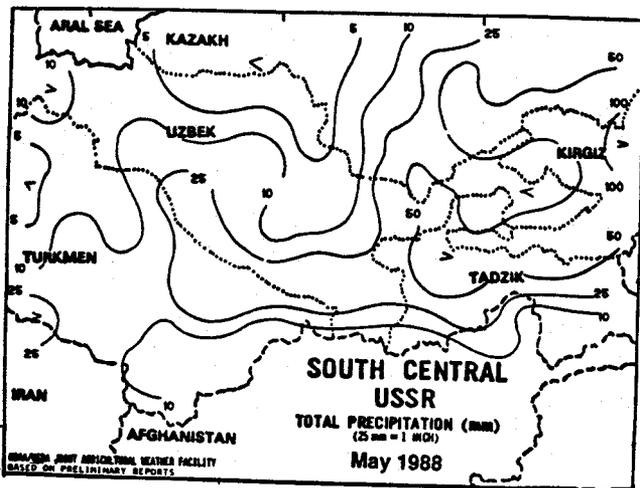
SOUTHEAST ASIA ... Widespread showers continue over most of Indochina, benefiting early crop growth. Rainfall increases over the Philippines, boosting moisture for grain planting and establishment.

SOUTH AMERICA ... Dry weather persists in Argentina's wheat areas. Some rain falls again in south-central Brazil.

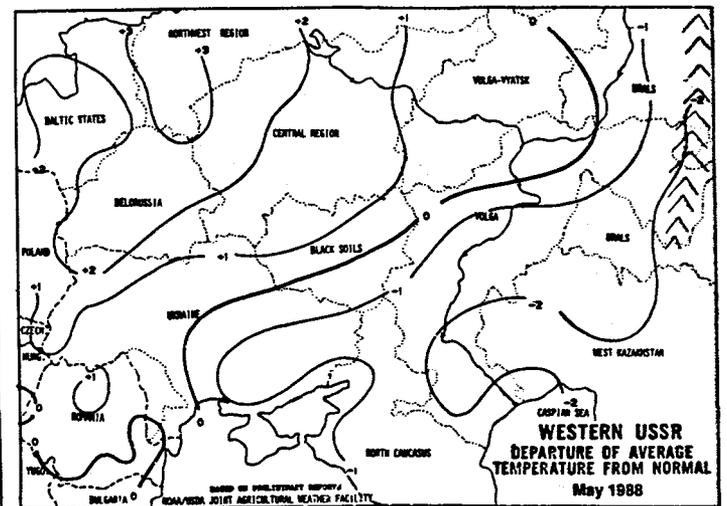
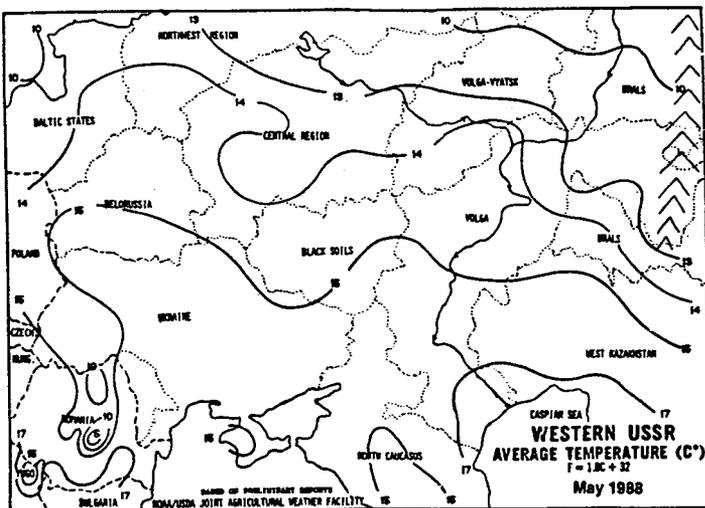
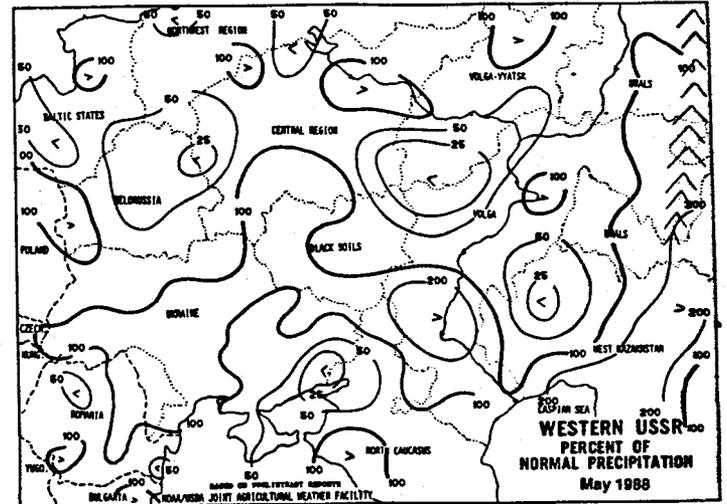
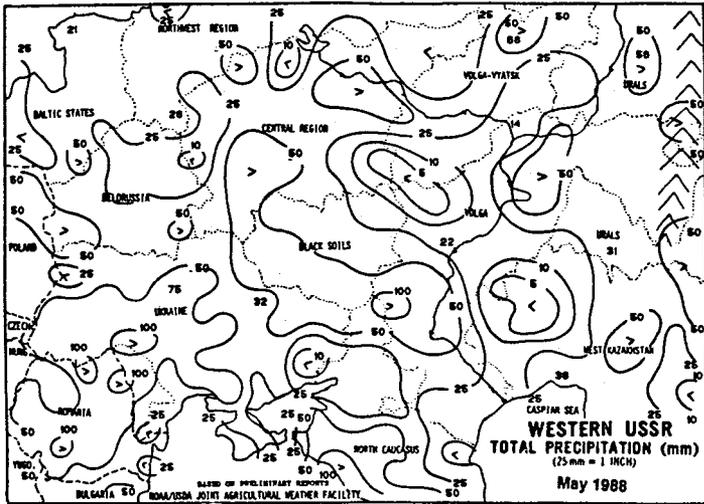
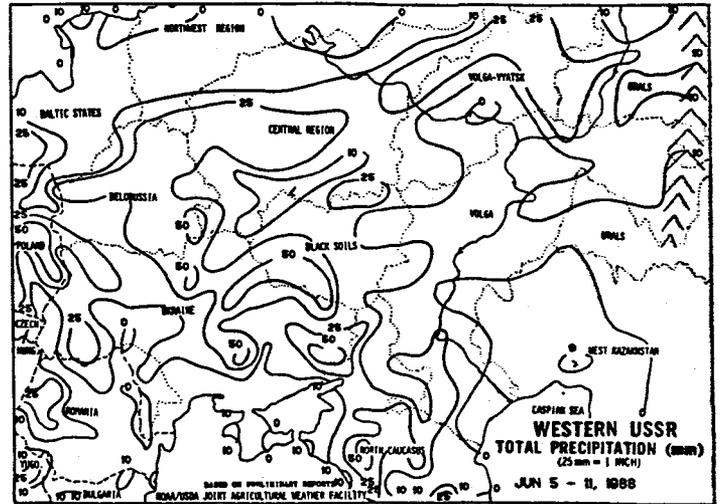
AUSTRALIA ... Heavy rain continues across southwestern Australia. Dry weather favors harvest and planting activity in the east.

MEXICO ... Mostly dry weather continues to hamper nonirrigated crops. Some beneficial, scattered rain falls in the eastern Corn Belt.

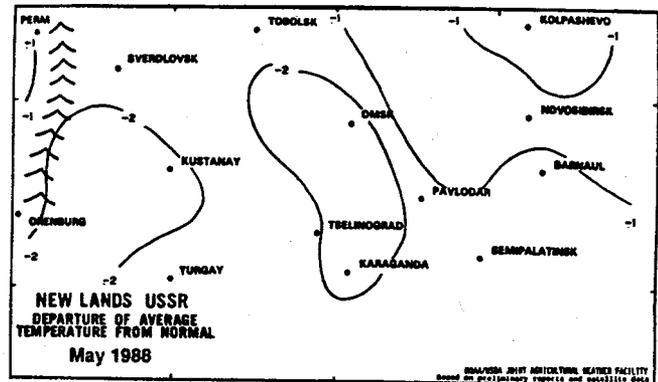
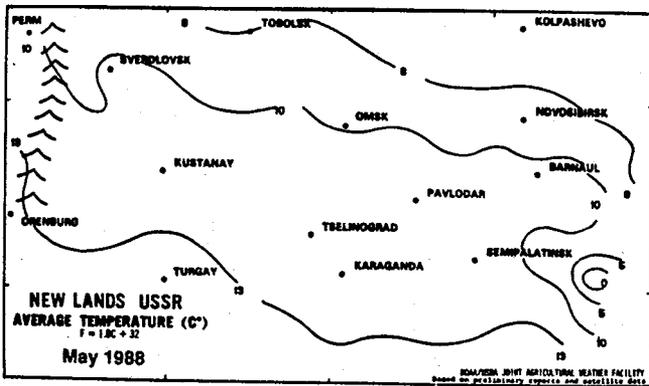
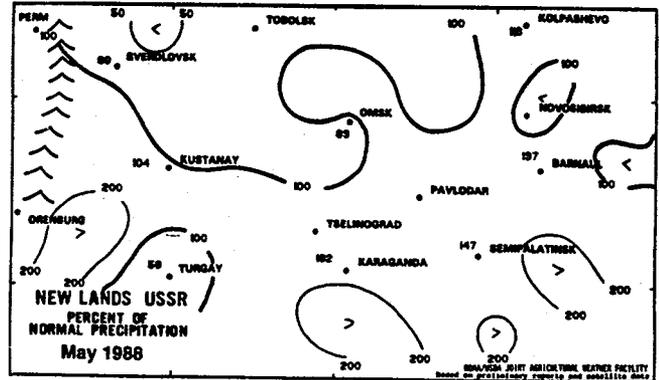
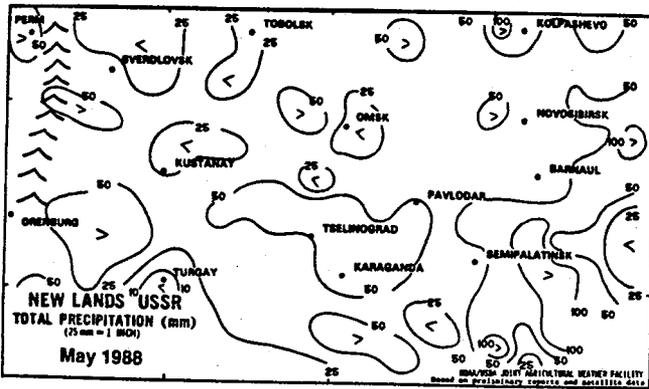
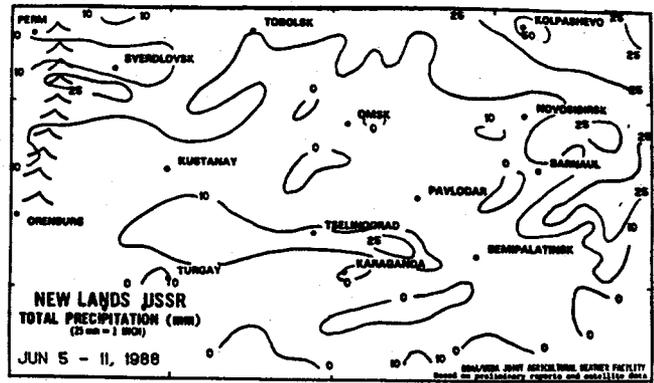
CANADA ... Much needed rain brings some relief to vegetative western crops but dry, mostly warm weather continues in the east.



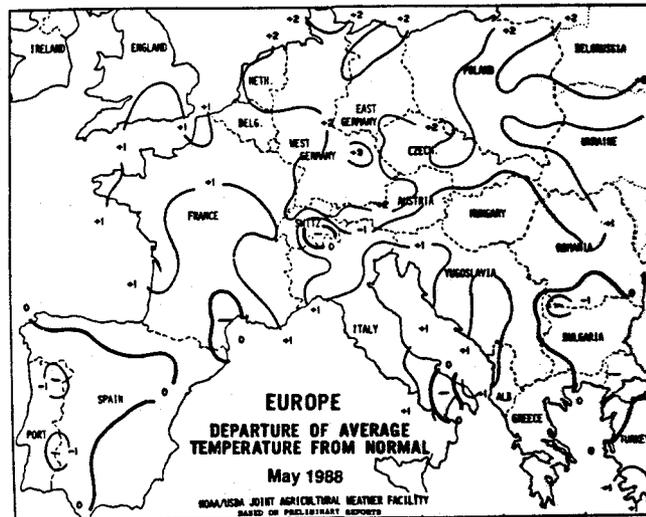
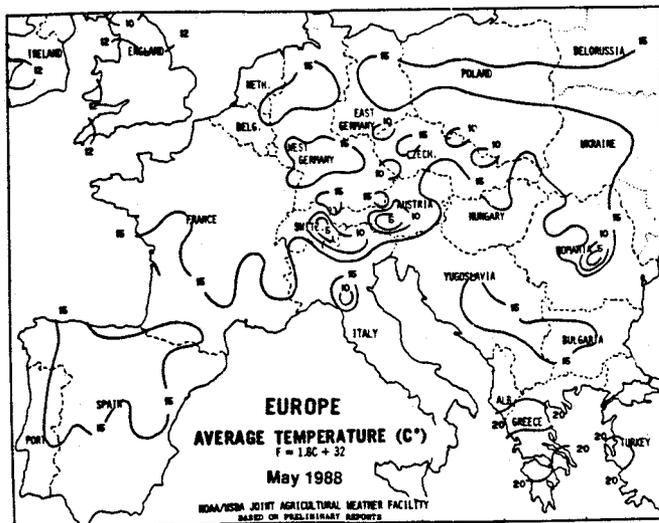
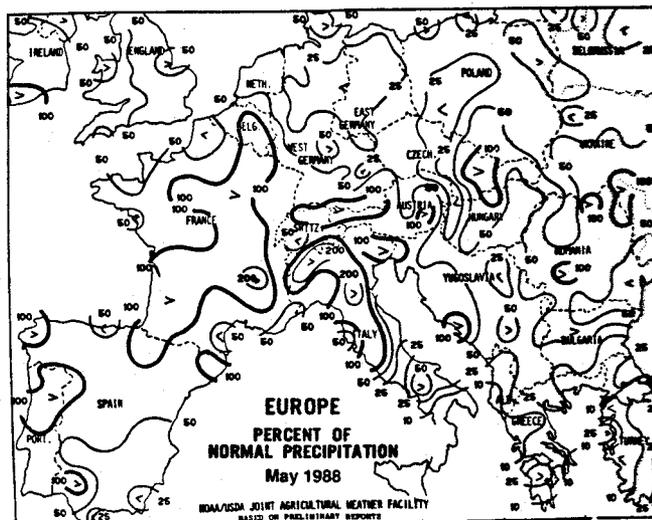
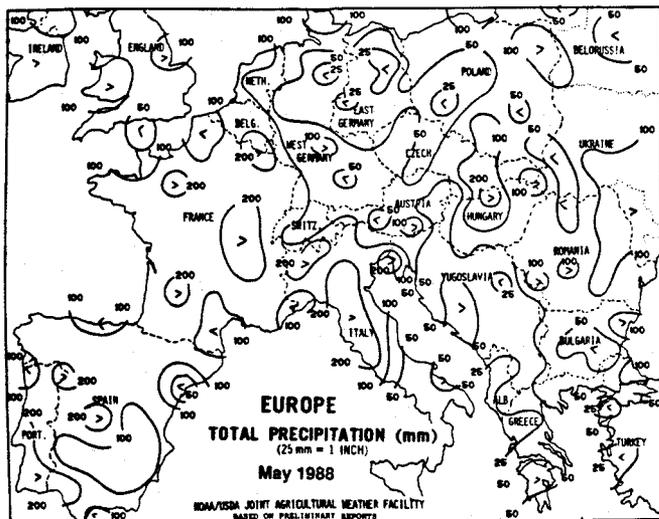
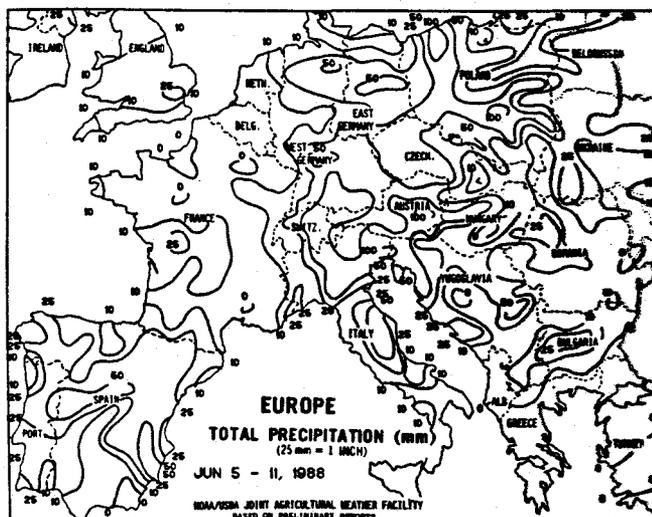
USSR ... In the Western USSR, heavy rain (greater than 25mm) continued across much of Belorussia, eastern Ukraine, southern Black Soils, southern Central Region and northern North Caucasus. The rain favored vegetative to reproductive winter grains. Abnormally warm weather covered the region, with weekly mean temperatures as much as 6 degrees C above normal. Maximum temperatures early in the period reached the mid to upper 30's in eastern growing areas, possibly stressing some crops in the Upper Volga, northeastern Black Soils, and southern Volga-Vyatsk, where rainfall has been below normal for several weeks. Light to moderate showers (5-15mm) offered relief late in the week, however. May rainfall was above normal in most western crop areas except for the Baltics and Belorussia, northwestern and extreme southeastern Ukraine, northern North Caucasus, and Upper Volga Valley, where it was below normal. May mean temperatures were above normal in northwestern crop areas and below normal in the southeast.

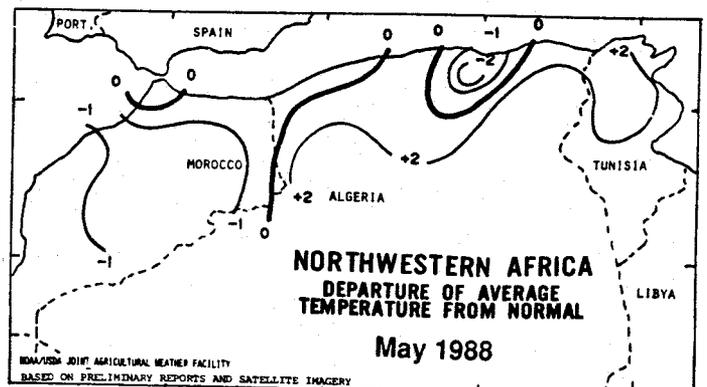
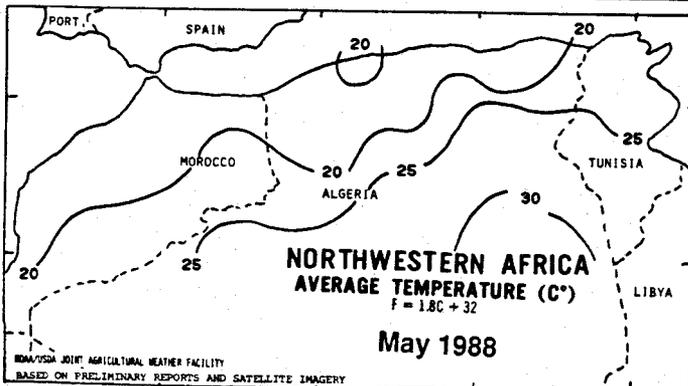
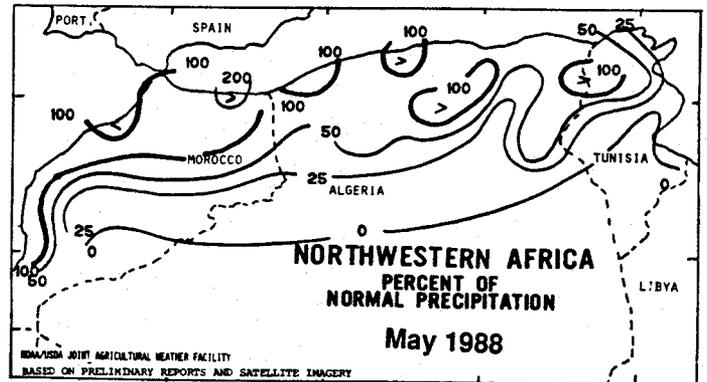
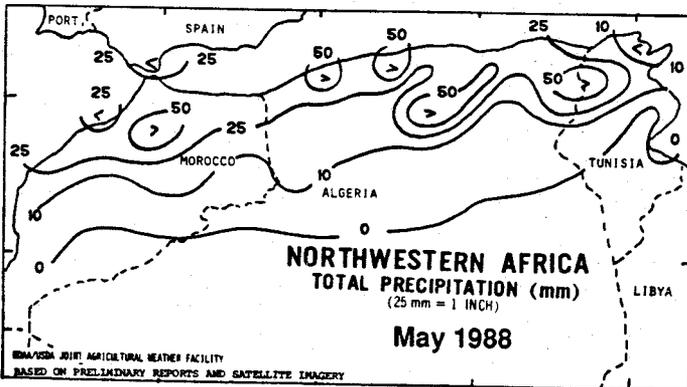
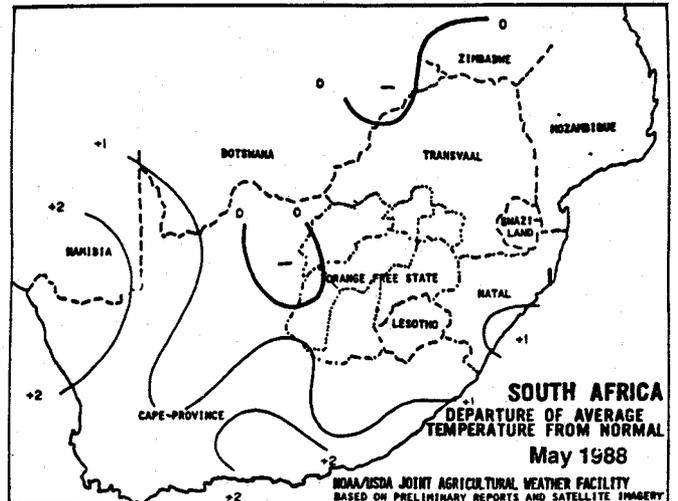
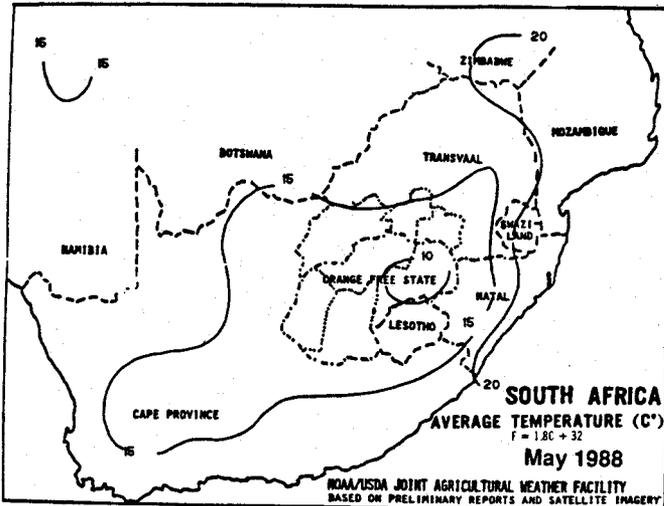
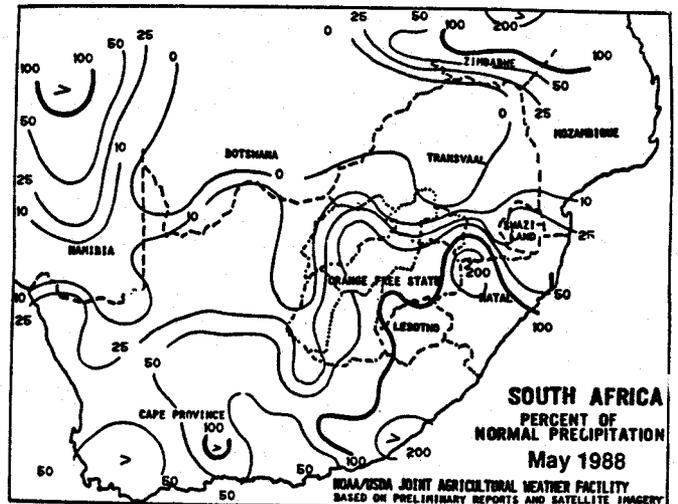
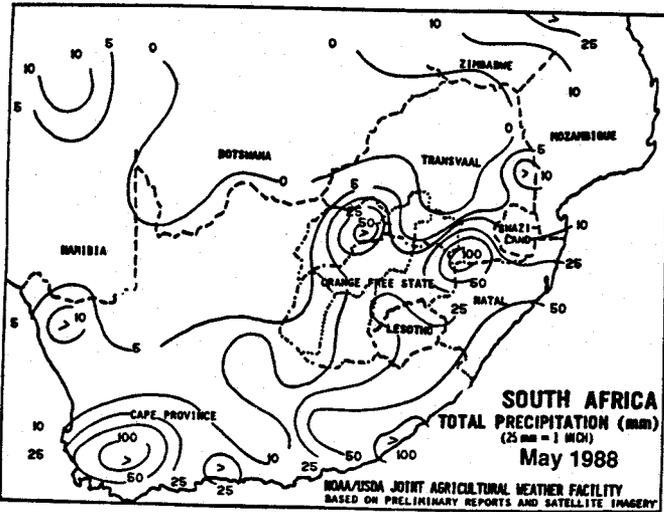


NEW LANDS ... In the New Lands, scattered light to moderate rain (generally less than 15mm) favored vegetative spring grains across most crop areas. Mean weekly temperatures of as much as 4 degrees C above normal accelerated crop growth rates in the west while much cooler than normal mean temperatures (as much as 5 degrees C) covered the east. Soil moisture remains favorable in most areas. May rainfall was heavier than normal in all the region except for the northwest, where it was normal to below normal. Mean monthly temperatures were generally below normal.

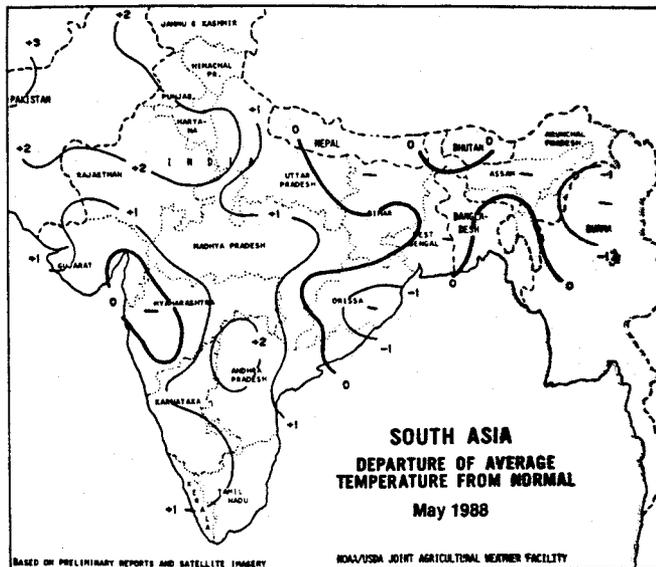
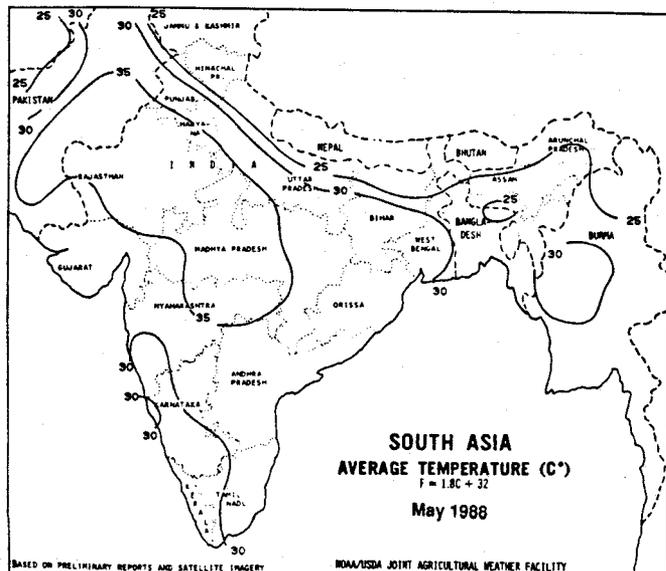
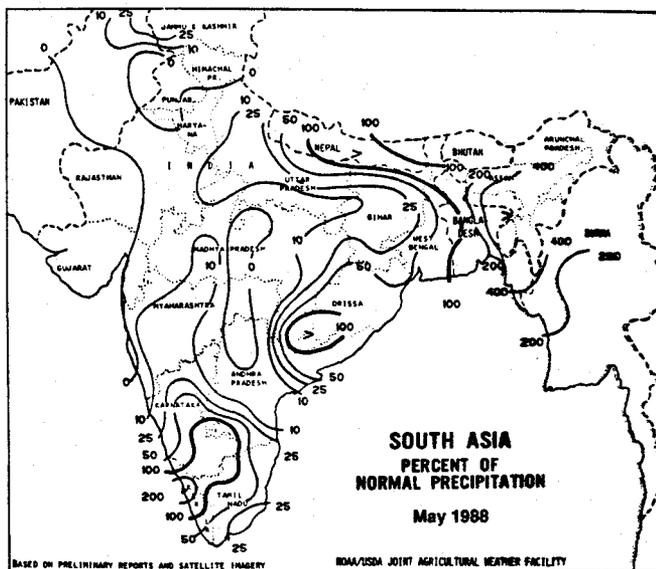
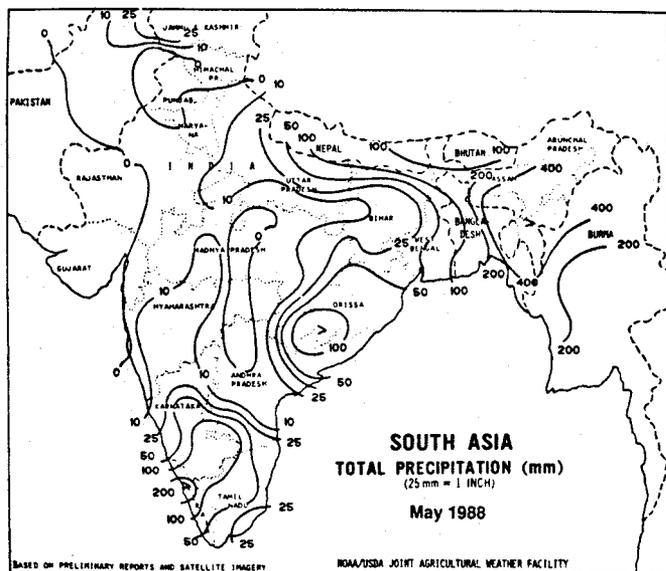
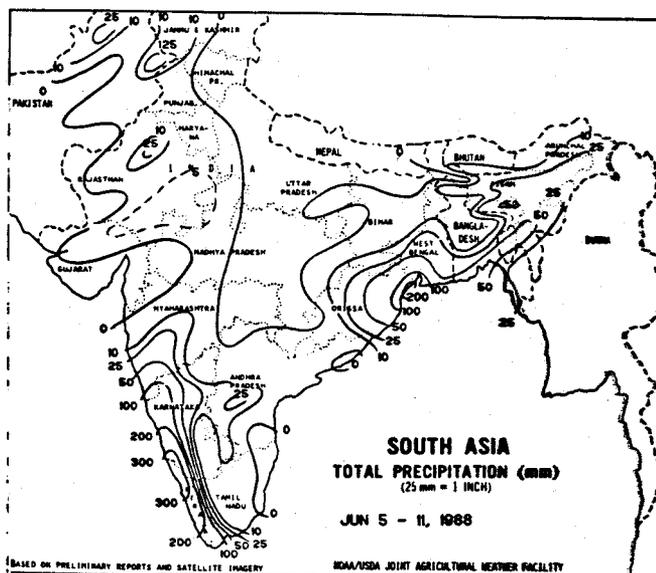


EUROPE ... Moderate to heavy rain (greater than 25mm) fell over much of northeastern Europe, benefiting winter and summer crops which have been stressed by persistent dryness for several weeks. Very warm weather accelerated crop water usage and evaporative losses, however, with mean weekly temperatures in eastern growing areas as much as 5 degrees C above normal. In contrast, cool and dry weather developed across northwestern Europe by week's end, following mostly light rain (less than 15mm) early in the period. Scattered showers caused delays in winter grains harvest across Spanish and Italian growing areas, while the southern Balkans remained favorably dry. In May, precipitation was below normal over much of the northeastern two-thirds of Europe, with above-normal totals over most of the remaining southwest third except for southern Spain, where rainfall was below normal.

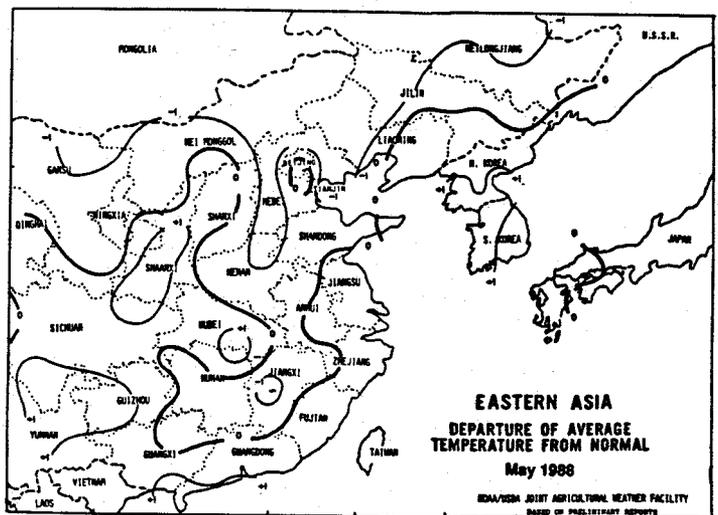
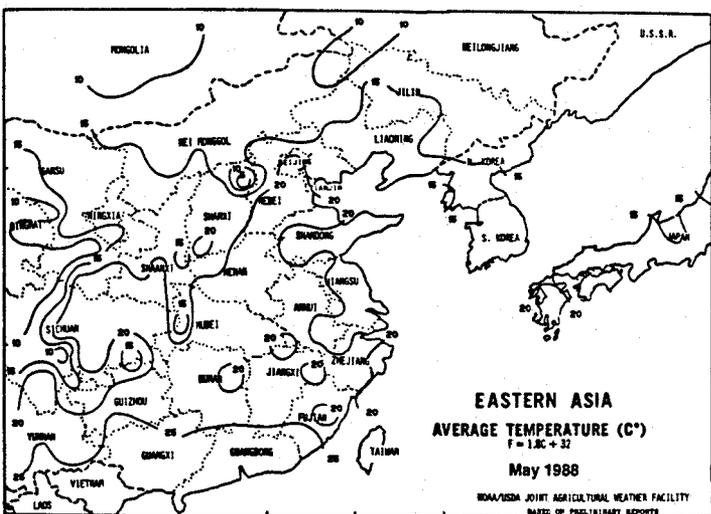
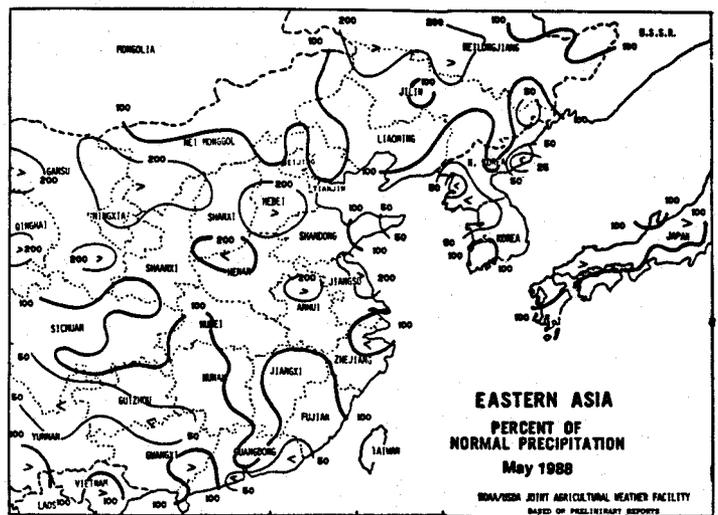
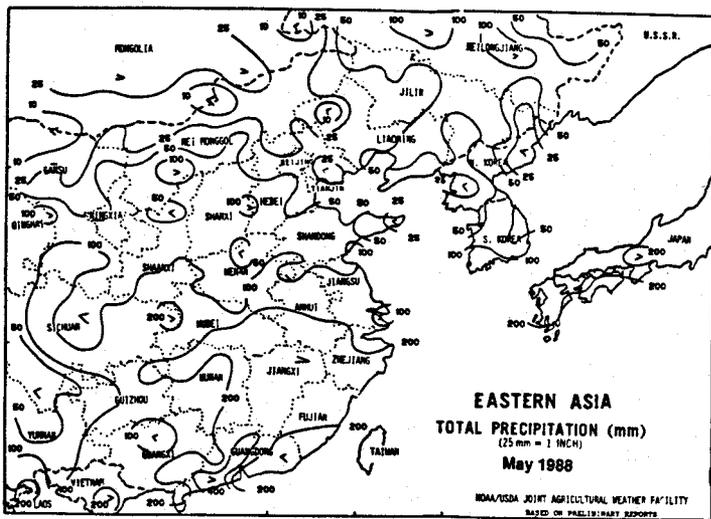
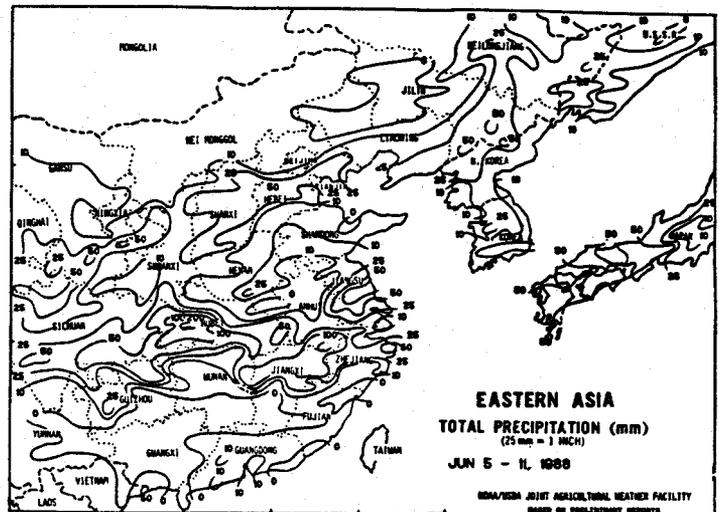




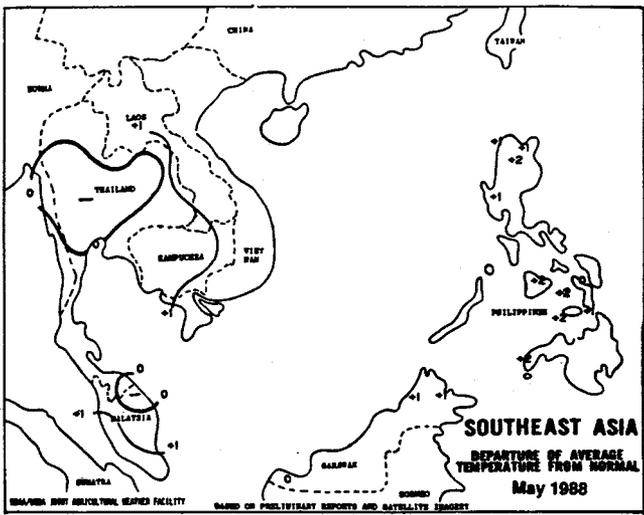
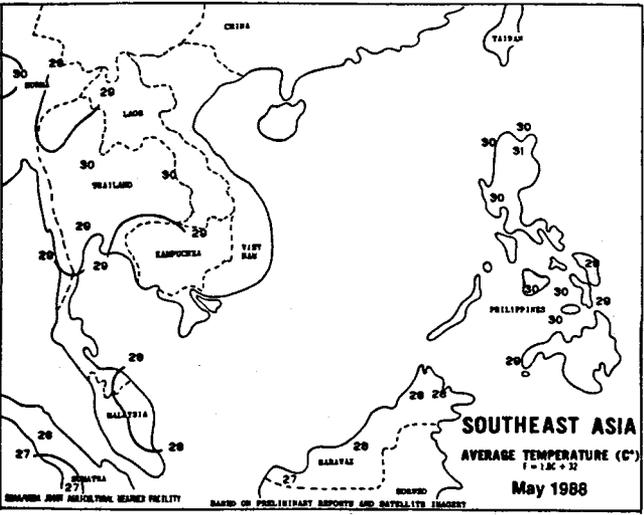
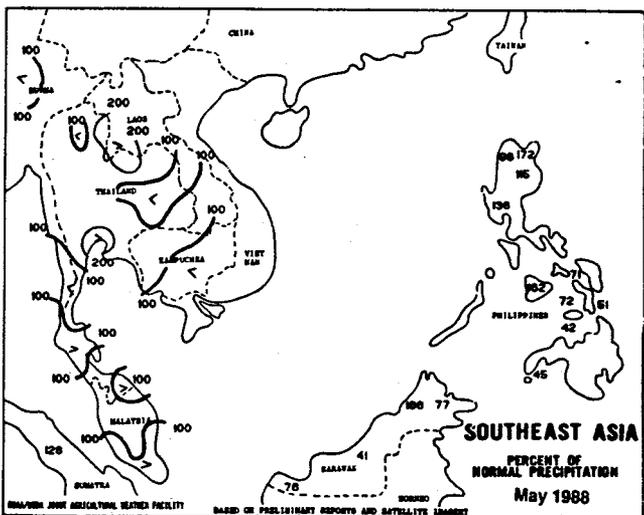
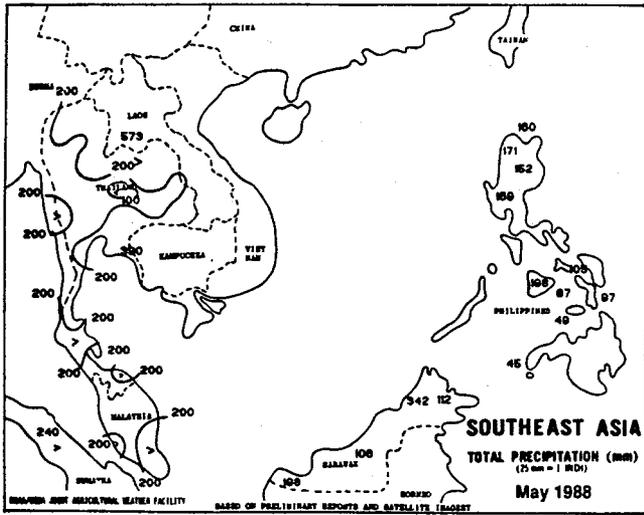
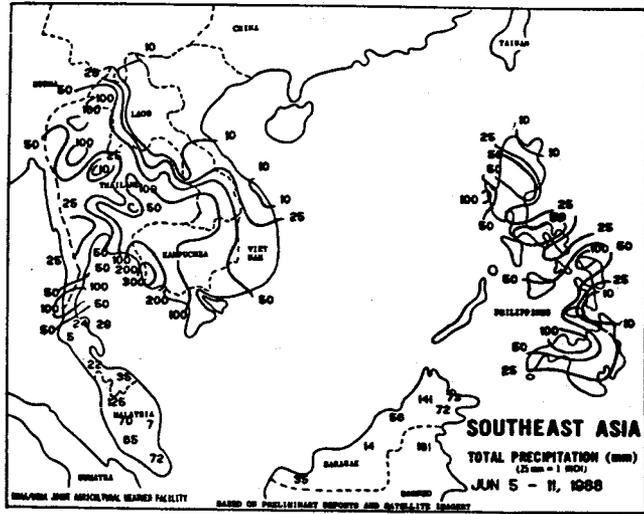
SOUTH ASIA ... Heavy showers (100-370mm) covered India's southwest coast, boosting irrigation levels but causing local flooding. Light to moderate rain (9-44mm) covered interior crop areas of Maharashtra, western Andhra Pradesh, and Karnataka. Temperatures continued seasonably warm, however, maintaining high evaporation rates. Since early May, rainfall has been below normal over large portions of southern India, causing planting delays. A tropical cyclone brought moderate to heavy showers (25-100mm or more) to eastern rice regions from southern Orissa to southwestern Bangladesh, continuing this season's favorable weather pattern. Local flooding is likely, however, in some coastal areas. Light to moderate rain covered crop areas from central Bangladesh eastward, where heavy May showers caused flooding and local crop damage. Scattered, light rain fell over central and northern India with locally heavy showers in northern Pakistan. Temperatures continued seasonably hot, reflecting May's pattern of dry, hotter than normal weather. Planting normally takes place during July in central and northwestern India but is usually widespread to the south and east during June. Planting is likely well underway in most coastal regions and just beginning in interior crop regions.



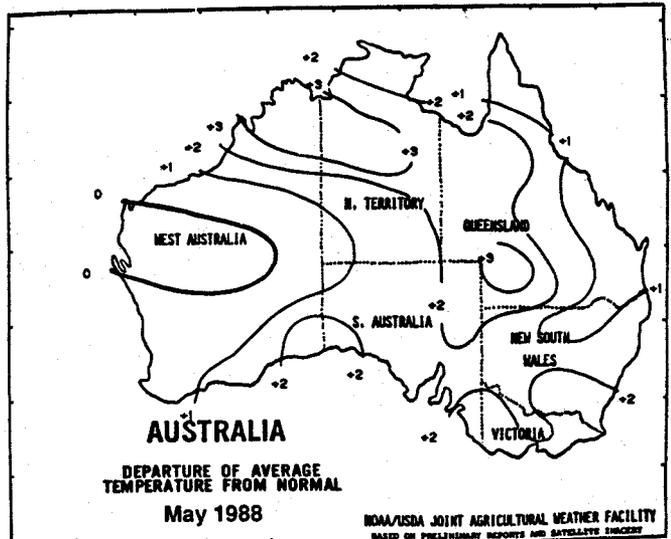
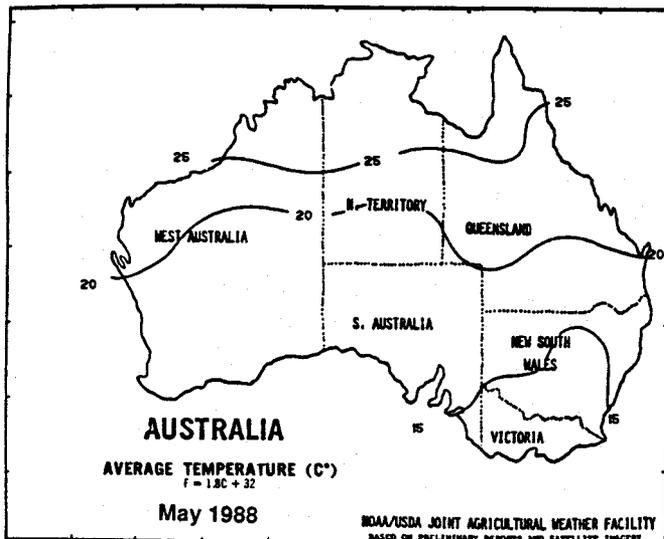
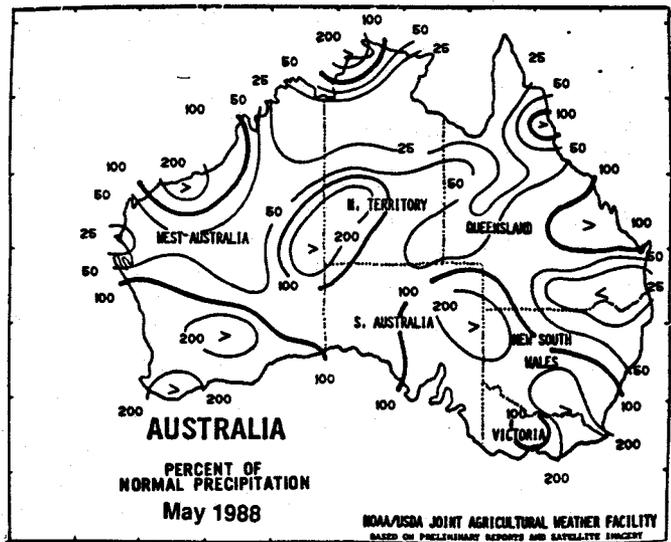
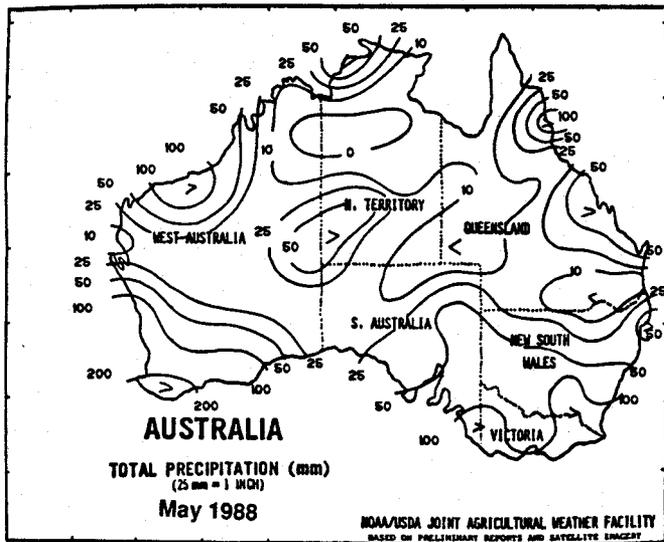
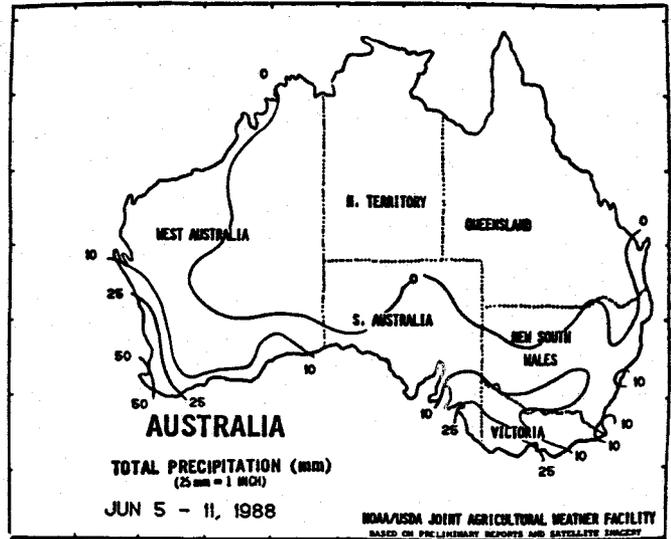
EASTERN ASIA ... Hot weather developed in central and southern China early in the week, with maximum temperatures reaching the mid to upper 30's C over most crop areas. The heat favored rapid drydown and harvest of winter wheat, but stressed cotton entering the flowering stage. Scattered showers and cooler temperatures offered relief to central growing areas late in the week, while most of the south remained dry. Heavy rain (greater than 25mm) continued in southern Japan, keeping soils unfavorably wet. Moderate to heavy rain (greater than 20mm) also persisted over parts of Manchuria, following a trend of wetter than normal weather since May. Precipitation in May was normal to above normal over most growing areas except for scattered areas of central and southern China and North Korea, where rainfall was below normal.



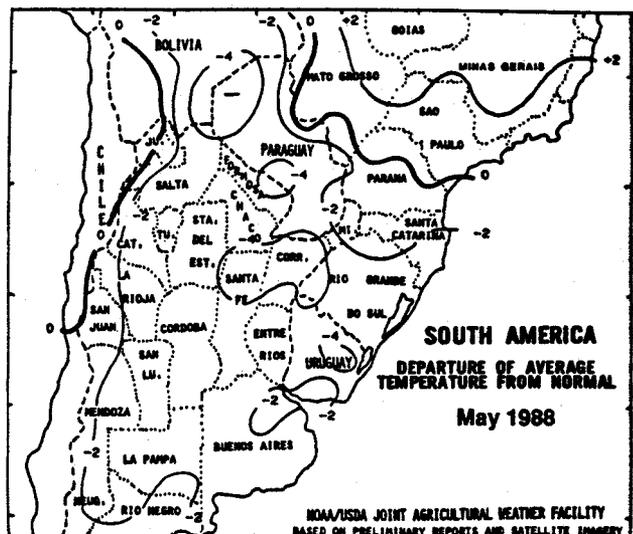
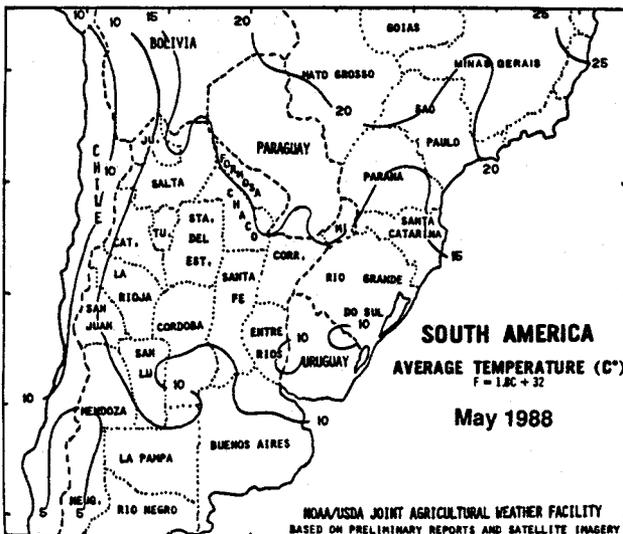
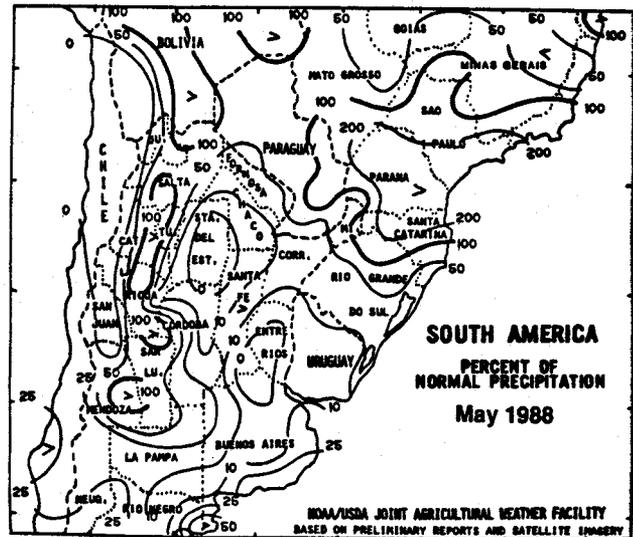
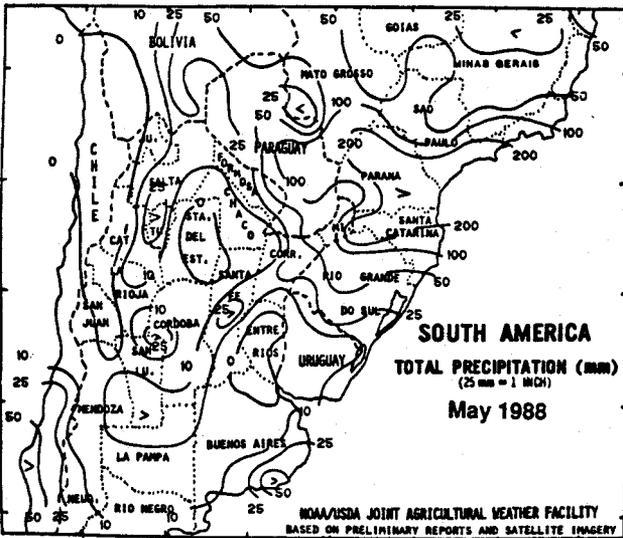
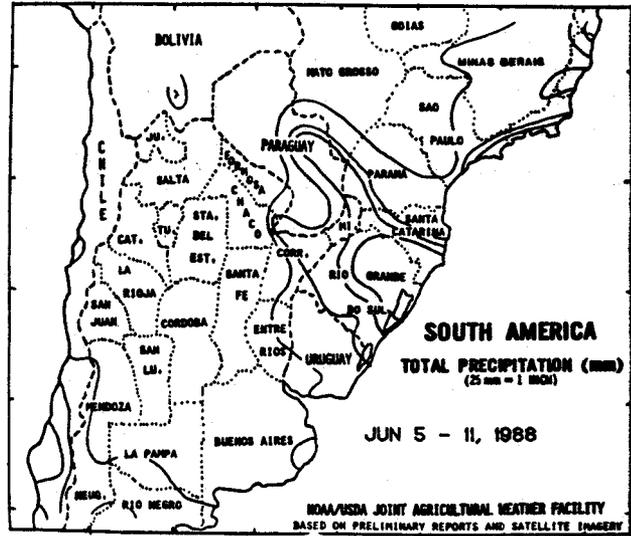
SOUTHEAST ASIA ... Widespread, moderate to heavy showers (25-100mm or more) continued over grain regions of Thailand, Kampuchea, southern Laos and southern Vietnam, maintaining generally favorable conditions for early crop growth. Heaviest rain (100-200mm or more) continued to be in southeastern Thailand and western Kampuchea, causing local flooding. Moderate to heavy rain (22-100mm or more) covered much of northern Vietnam and northern and central Laos. May rainfall was near to above normal over most of Indochina with periods of inundating rain in northern and northeastern Thailand. Driest areas were southeastern Vietnam and portions of eastern Thailand and southern Laos, which received as little as 50 percent of normal rainfall. In the Philippines, rainfall increased from the previous week, ranging from 25-100mm or more over most areas. Rainfall was light (4-19mm), however, in Luzon's Cagayan Valley. Rainfall also diminished somewhat in western Luzon, too wet from recent weeks of inundating rain. May rainfall was near to above normal in all but the east-central crop areas.



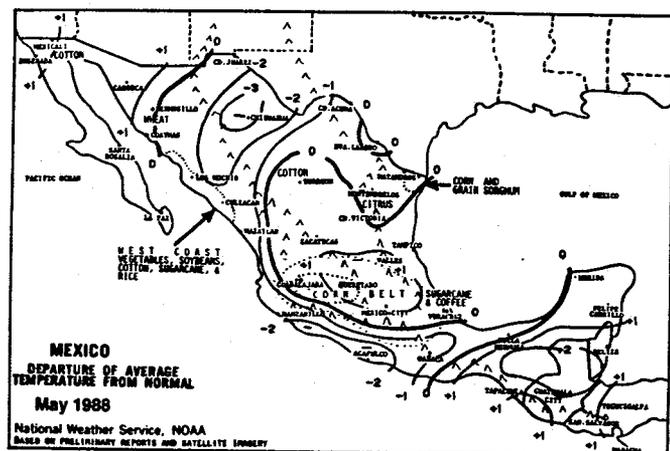
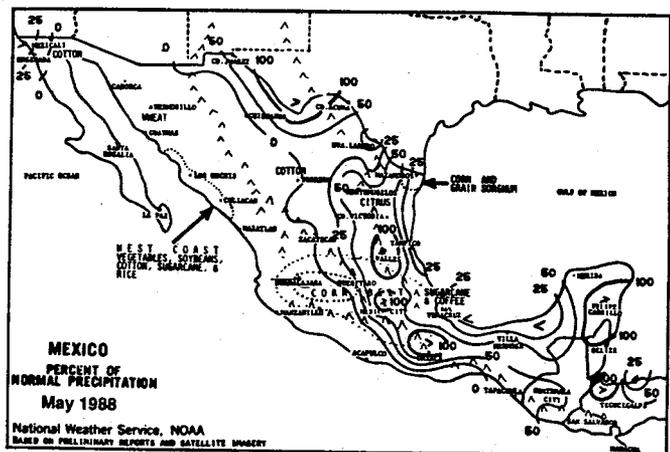
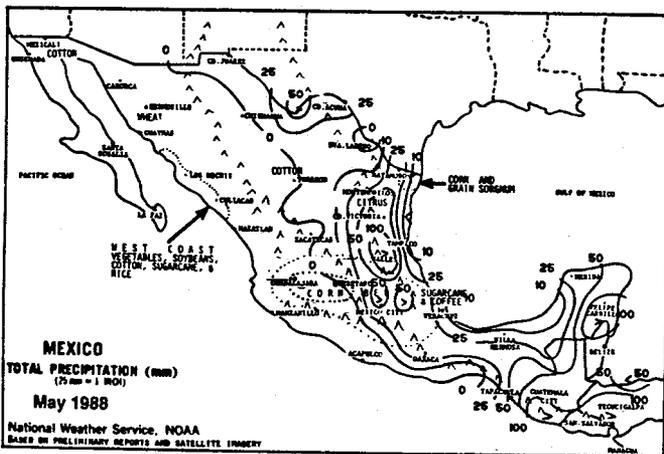
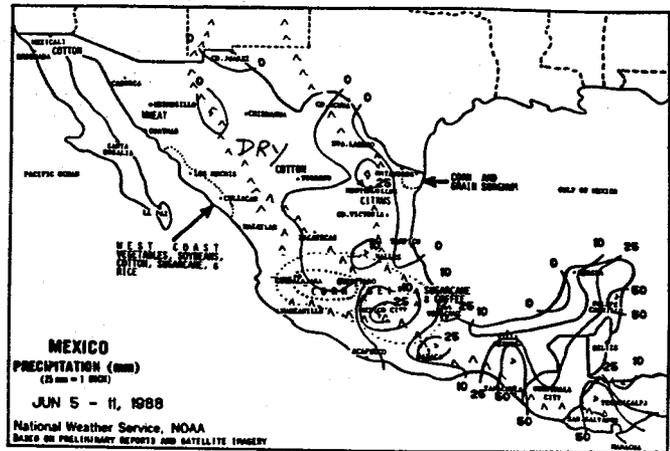
AUSTRALIA ... Moderate to heavy rain (greater than 25mm) continued over crop areas in Western Australia, favoring emerging winter grains but delaying late planting activities. Light to moderate rain (5-20mm) also benefited crops across South Australia, Victoria, and southern New South Wales. Mostly dry weather covered crop areas in northern New South Wales and Queensland, favoring late cotton harvest and fall planting. Dry weather also favored sugarcane crush across eastern Queensland. May precipitation was normal to above normal over crop areas of Western Australia, South Australia, Victoria, southern New South Wales, and eastern Queensland. Below-normal rain fell in southeastern Queensland and northeastern New South Wales. Mean temperatures for May were normal to above normal across most crop areas.



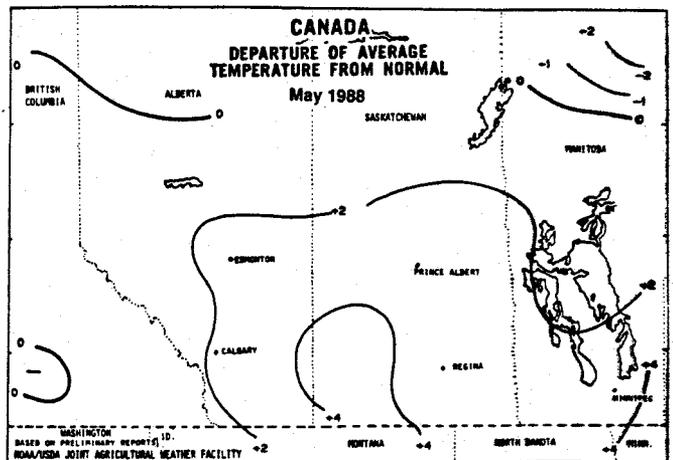
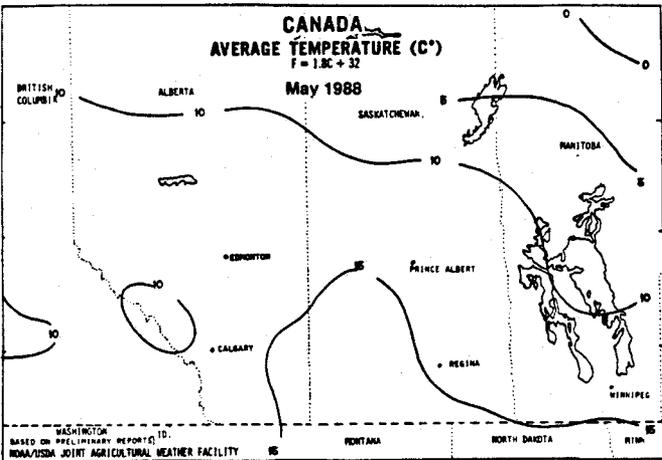
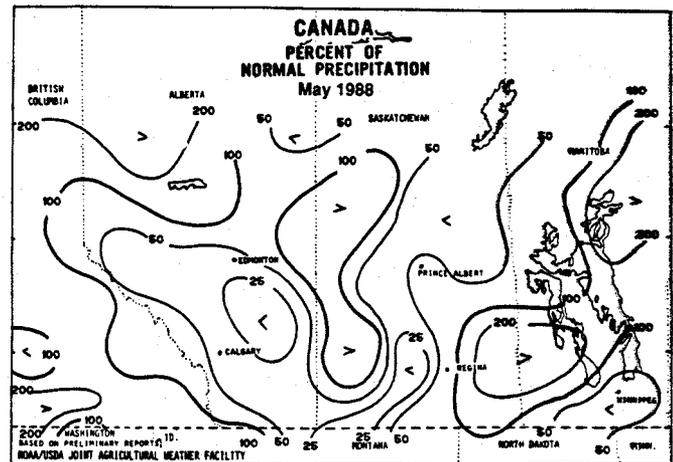
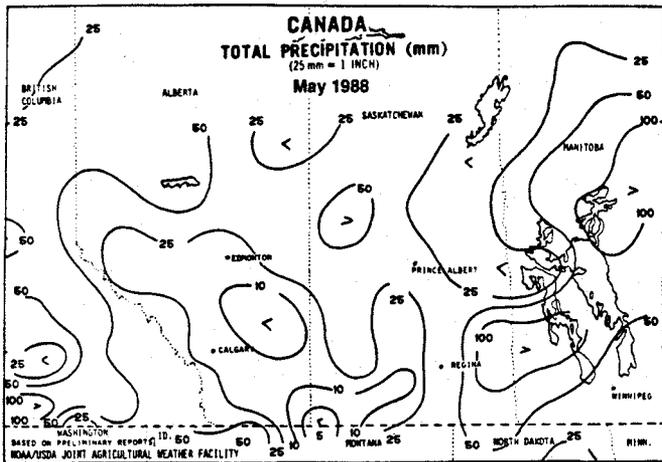
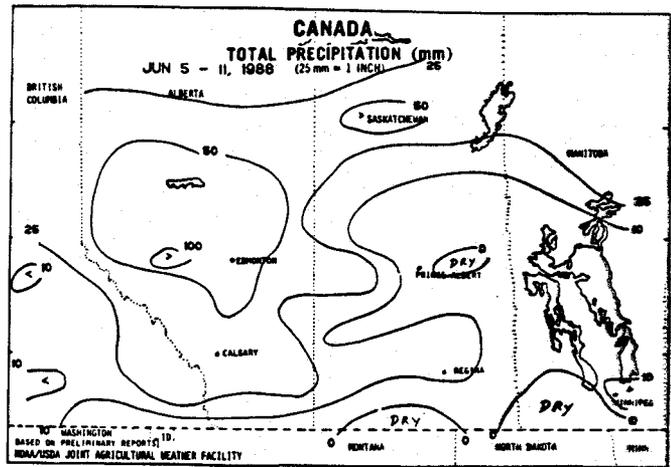
SOUTH AMERICA ... Argentina's dry weather pattern persisted, with virtually no rain in the major wheat growing areas. Early June dryness follows well below average rainfall during May and actually extends back into April. Topsoils are very dry, and wheat emergence will be adversely affected without planting moisture. Milder weather moved into the region by midweek. May temperatures averaged 2-5 degrees C below normal. In south-central Brazil, midweek showers fell in the south, while mostly dry weather prevailed from northern Parana into the coffee areas of Minas Gerais. May rainfall was much above average in Santa Catarina, Parana, and eastern Sao Paulo. Elsewhere, May rainfall was below average in Rio Grande do Sul, favoring late soybean harvesting, and in Minas Gerais.



MEXICO ... Dry weather persisted over north-central range and cotton areas, the northwest wheat and cotton areas, the west coast farming region, and the western half of the Southern Plateau corn belt. Scattered showers produced highly variable rainfall amounts over the eastern half of the nation, but these showers missed the northeast coastal corn and sorghum areas. Weekly rainfall during May was nonexistent over the entire western extent of the country. May rainfall was below average in the northeast and in southern Mexico. Near-normal May rainfall was confined to east-central portion of the Southern Plateau corn belt. All crop areas need substantial rain to alleviate the moisture deficiency.



CANADA ... Much needed rain (10-50mm or more) covered spring wheat areas of Alberta and much of western and central Saskatchewan, increasing moisture levels for establishment and early growth. Heaviest rain was in northern Alberta, totaling 50-91mm. The showers brought some relief to western crops stressed by hot, dry, windy weather earlier in the week, when temperatures reached 40 degrees C over a large area of central Saskatchewan. Light rain (less than 10mm), however, in north-central, southern, and eastern Saskatchewan and Manitoba brought little relief from the hot weather though late week temperatures were somewhat cooler. In May, rainfall was near to above normal in eastern Saskatchewan and western Manitoba, northwestern Alberta, and, due to a frontal system late in the month, portions of northeastern Alberta and western Saskatchewan. Drier than normal weather continued elsewhere, limiting moisture for germination and establishment. Temperatures averaged 2-4 degrees C above normal, increasing evaporation rates.



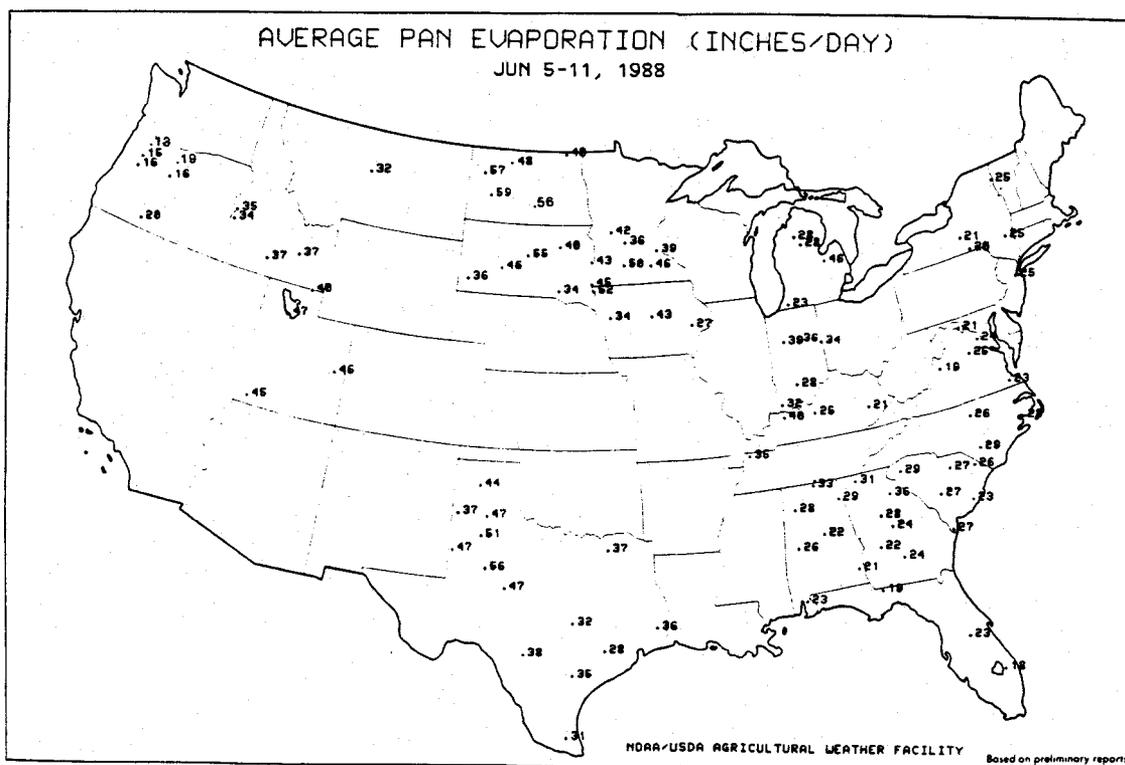
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