

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

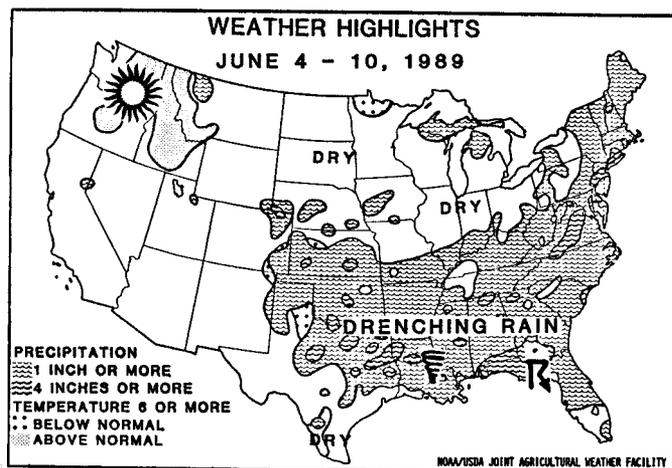
Volume 76, No. 23

Washington, D.C.

June 13, 1989

National Weather Summary

June 4-10, 1989



HIGHLIGHTS: Numerous intense thunderstorms spread severe weather and drenching rain across the central and southern Plains, the lower Ohio Valley, and the Gulf and Atlantic Coast States. Dry weather prevailed over much of the northern Plains and portions of the Corn Belt. Cool air settled over the Central States, while warm weather dominated the Northwest, southern Texas, and along the mid-Atlantic coast.

SUNDAY: Violent thunderstorms dumped heavy rain from the central and southern Plains to the mid-Atlantic coast. Torrential rains caused flooding across northeastern Texas into northern Louisiana, while tornadoes struck Arkansas and Tennessee.

MONDAY: Numerous thunderstorms extended from the Gulf coast, across the upper Ohio Valley and Middle Atlantic States, into the Northeast. These storms produced severe weather and locally heavy rain over the Southeast. Fair skies prevailed over much of the remainder of the Nation.

TUESDAY: Thunderstorms continued to drench the Atlantic seaboard with downpours of rain. Severe thunderstorms developed in the humid air over the central and southern Plains, causing heavy rain and spawning tornadoes. Rain showers were scattered across the northern Plains.

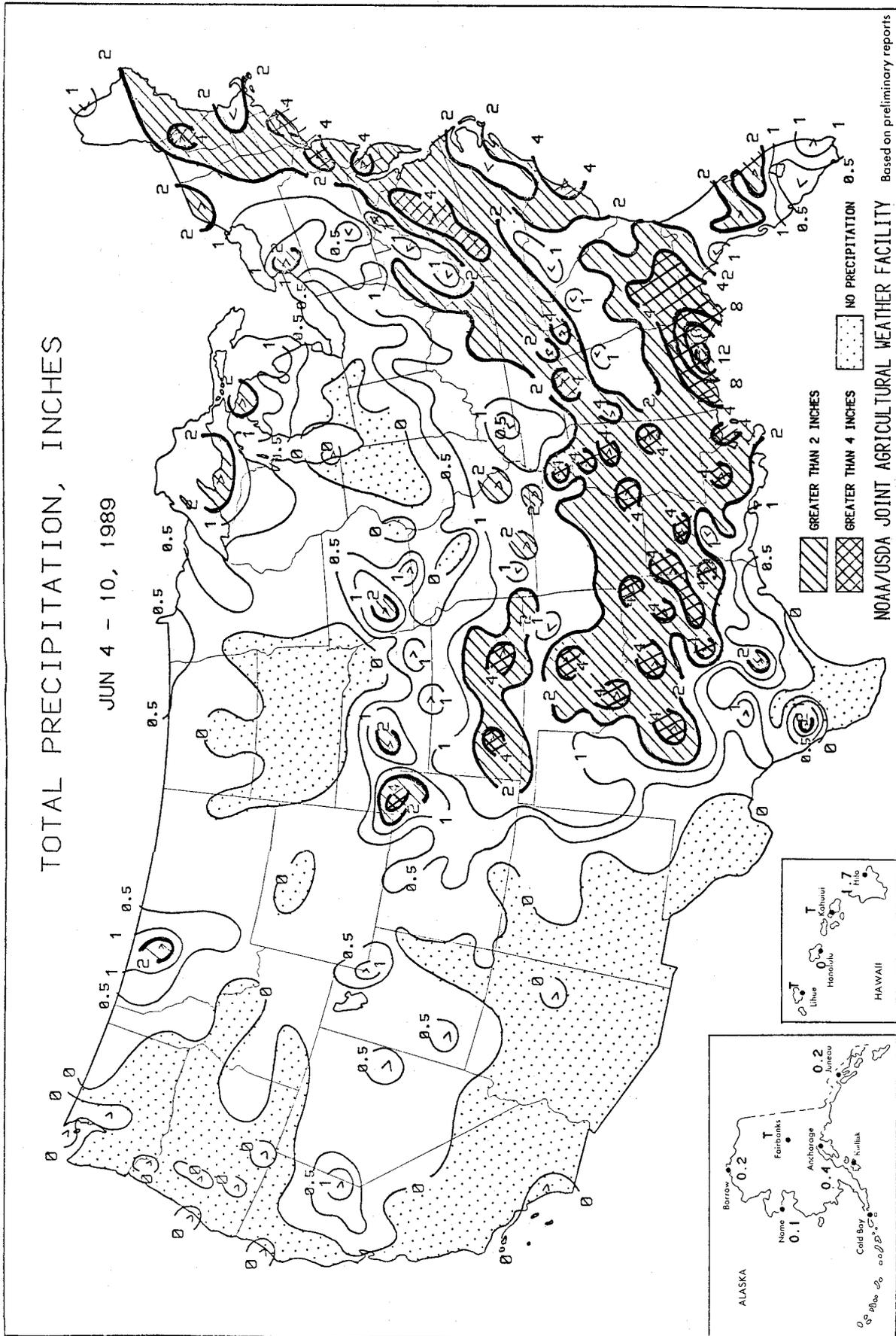
WEDNESDAY: Intense thunderstorms produced damaging winds and torrential rain from the southern Plains, across the Delta, and along the eastern Gulf coast. Thunderstorms remained along the Atlantic coast, while scattered rain spread from the Plains into the western Mississippi Valley. Locally heavy rain fell in the middle Missouri Valley.

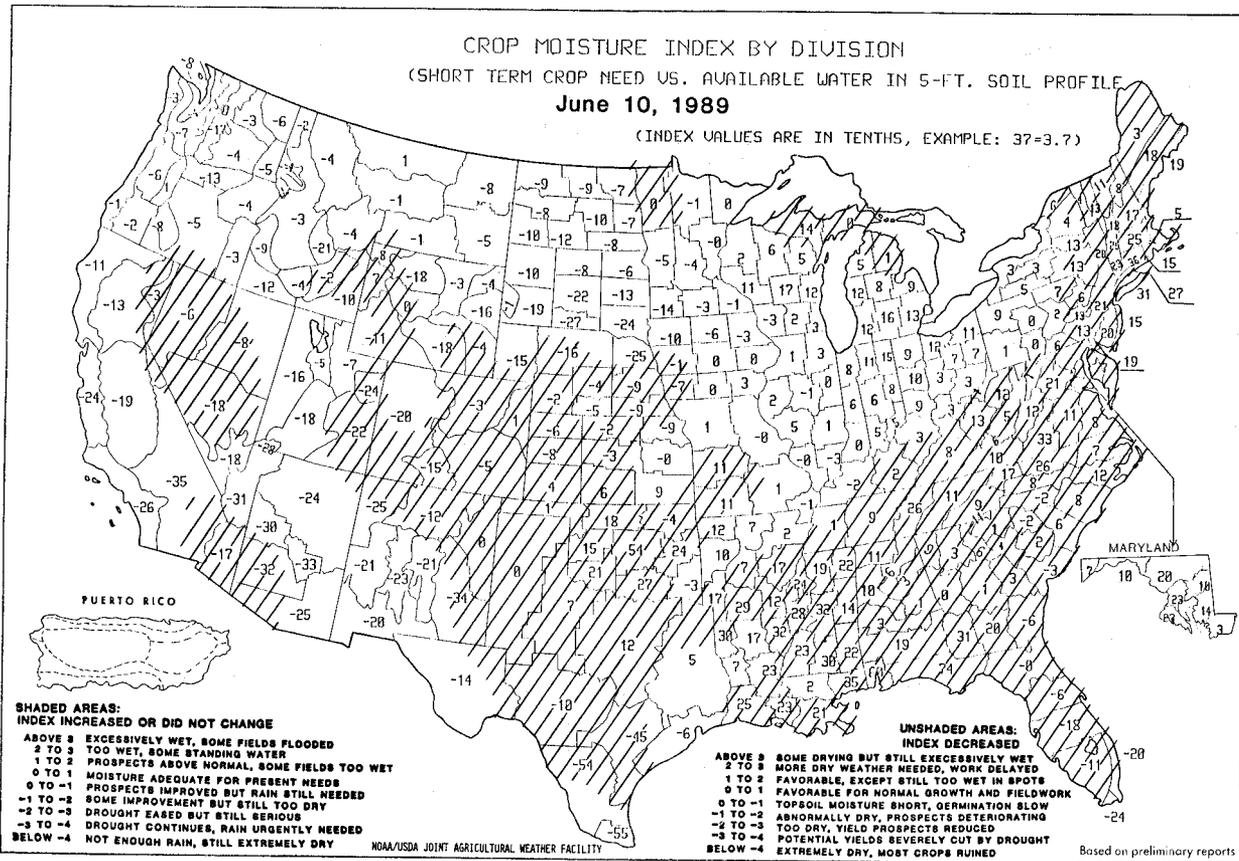
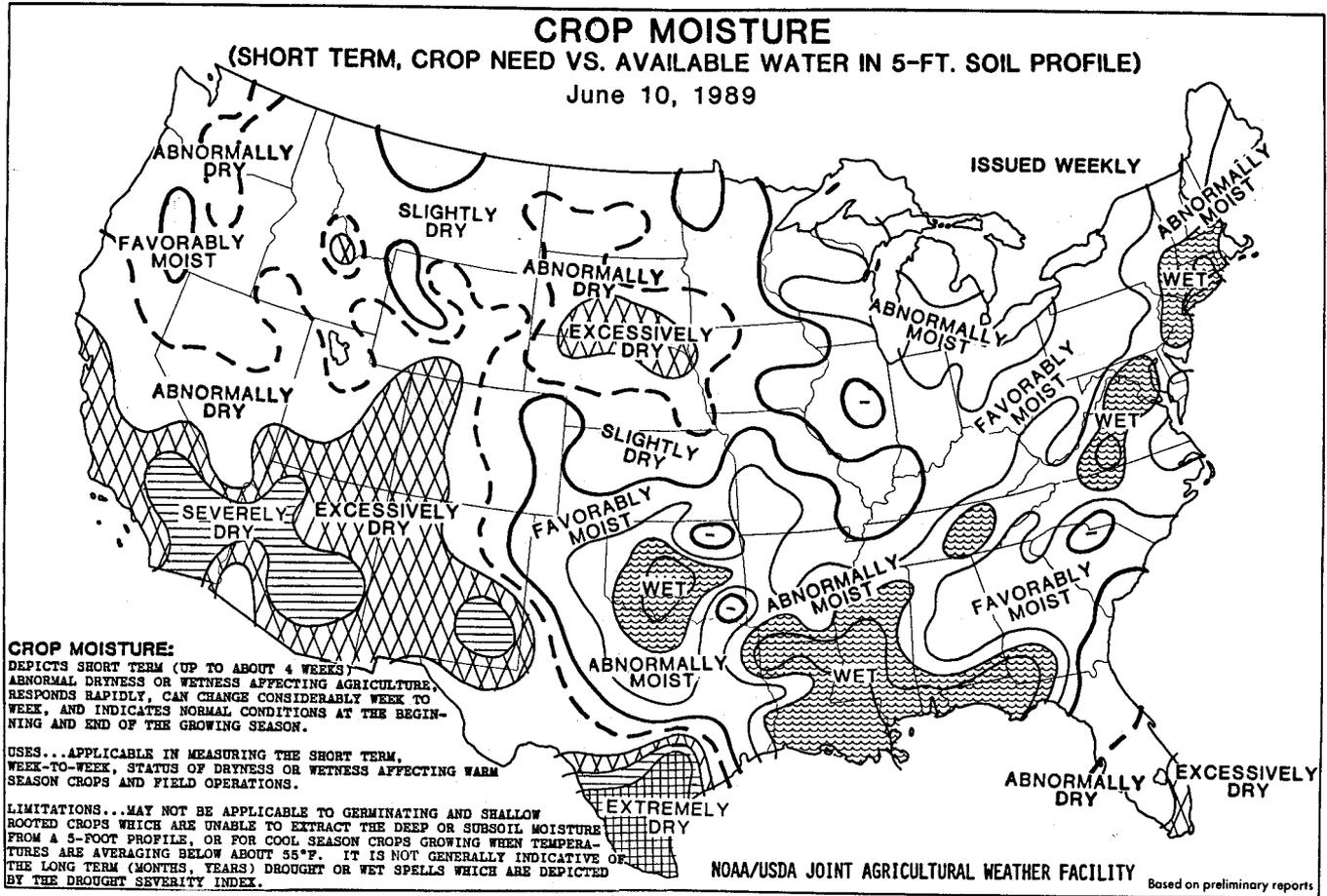
THURSDAY: Strong thunderstorms rumbled across the Delta, Southeast, and Ohio Valley. Tornadoes struck the central Gulf coast. Showers and thunderstorms were widespread over the Rockies, central and southern High Plains, upper Great Lakes, and down the eastern seaboard.

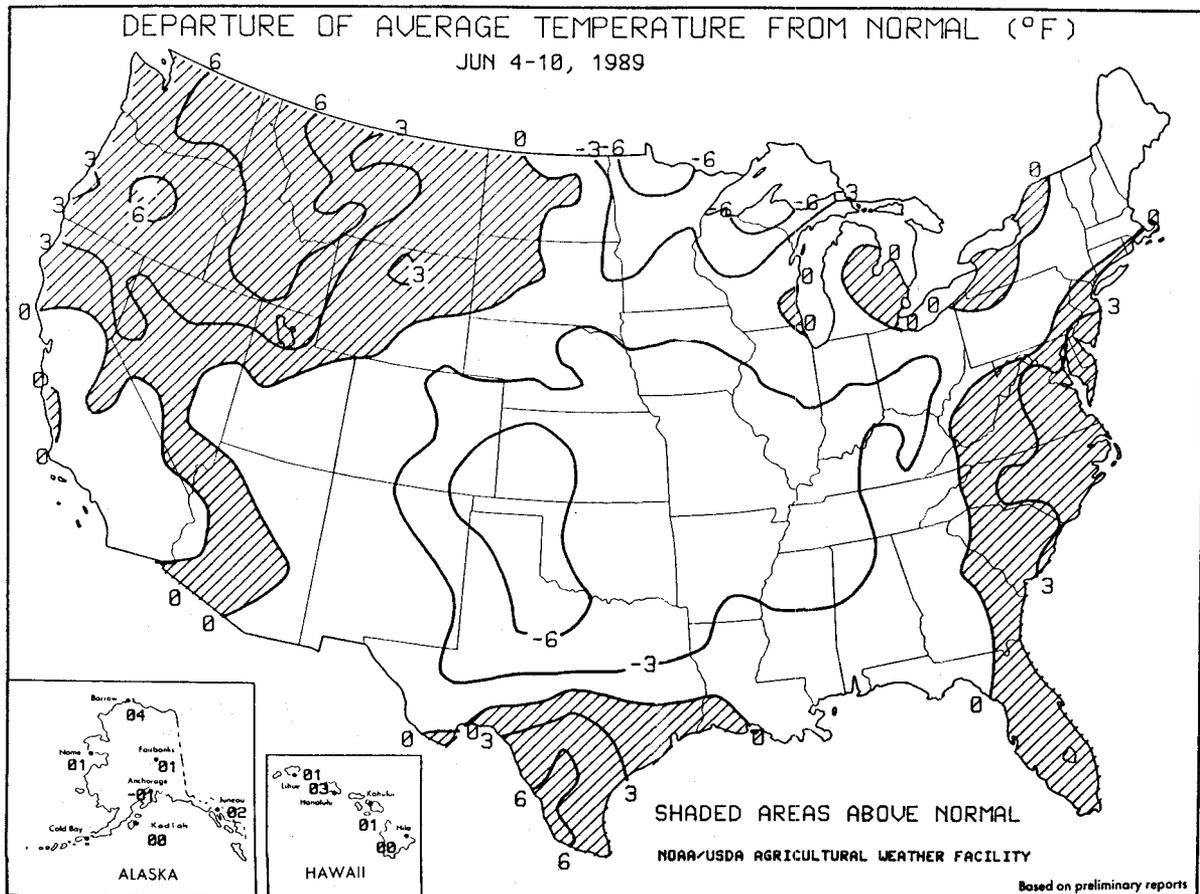
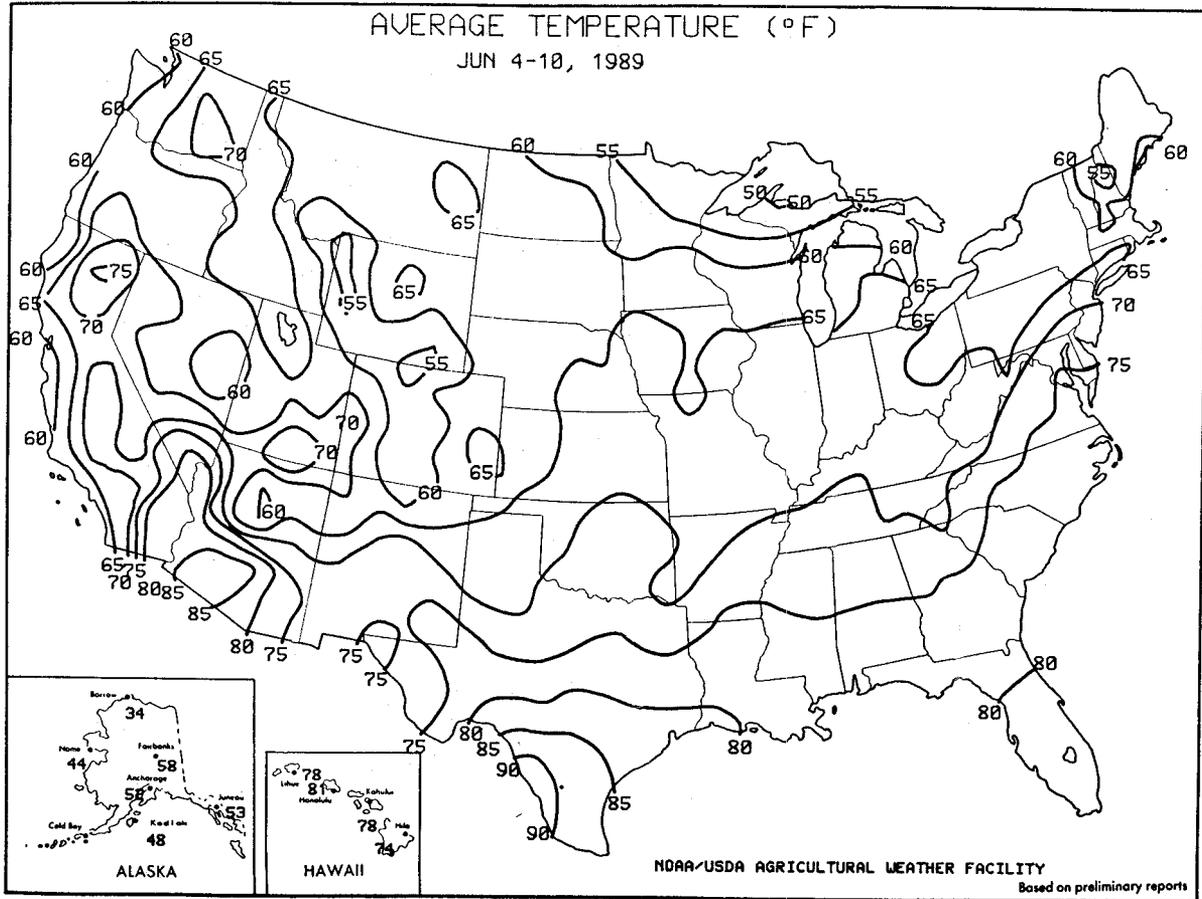
FRIDAY: Widespread rain again drenched the Eastern States. A rare tornado touched down in Philadelphia, PA, while torrential rain of over 15 inches fell over the Florida Panhandle. Scattered thunderstorms with heavy rain spread over the central and southern Plains and scattered rain covered the Rockies and Intermountain Plateau.

SATURDAY: Thunderstorms roared across the central and southern Plains, producing hail and soaking rain. Rain showers were widespread over the northern and central Rockies and across the Northeast.

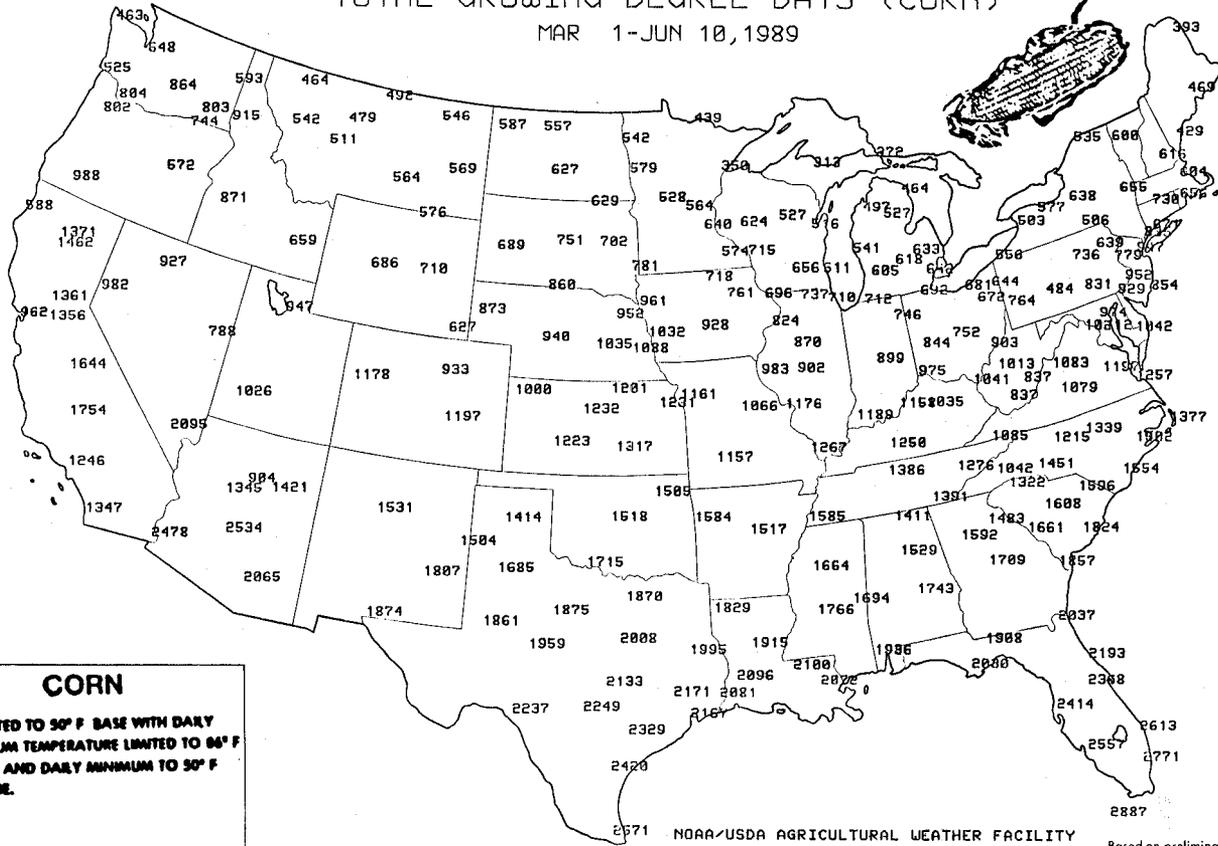
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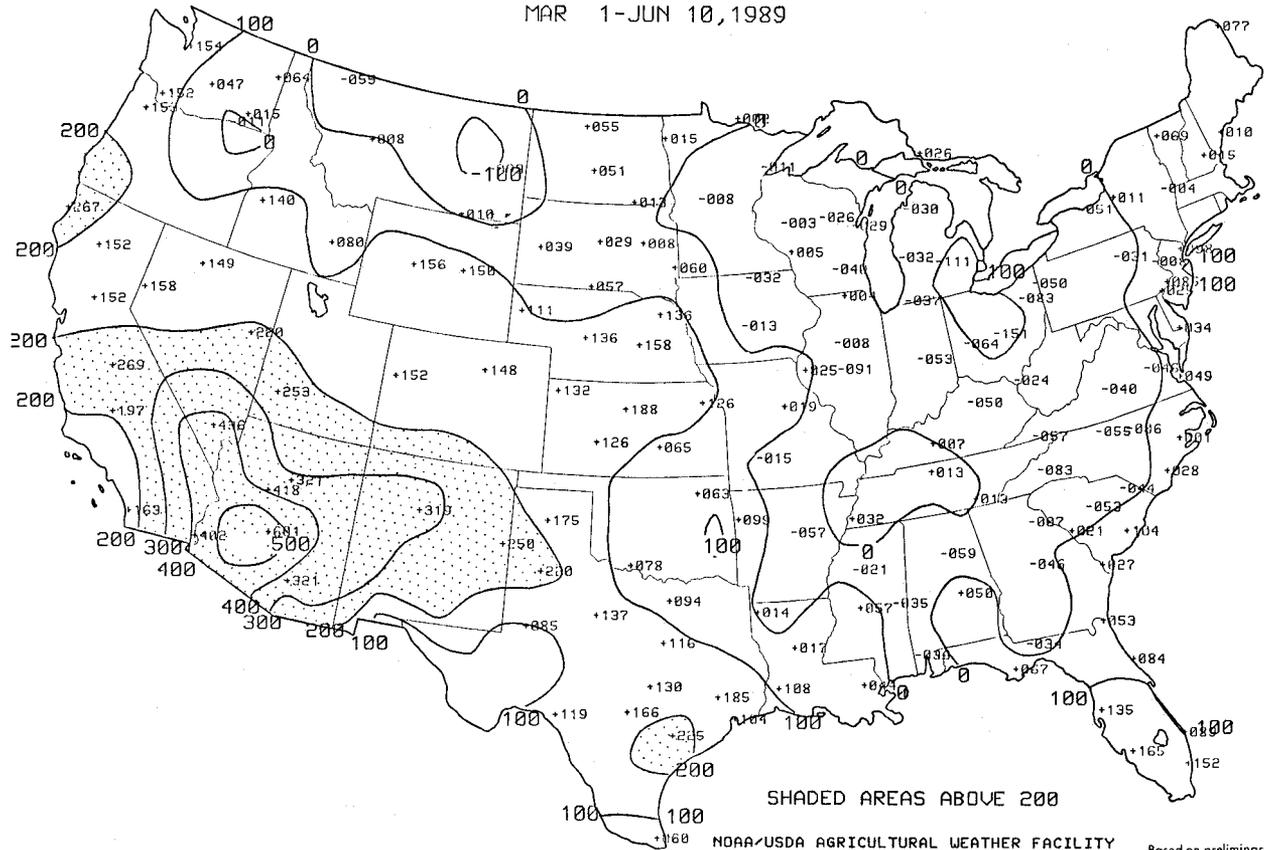


TOTAL GROWING DEGREE DAYS (CORN)
MAR 1-JUN 10, 1989



NOAA/USDA AGRICULTURAL WEATHER FACILITY Based on preliminary reports

GROWING DEGREE DEPARTURE FROM NORMAL
MAR 1-JUN 10, 1989



NOAA/USDA AGRICULTURAL WEATHER FACILITY Based on preliminary reports

National Weather Data for Selected Cities

Weather Data for the Week Ending June 10, 1989

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 JUN 1	PCT. NORMAL SINCE JUN 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	81	65	85	60	73	-3	1.9	1.1	.8	1.9	170	24.9	92	97	63	0	0	4	2
MOBILE	86	68	89	66	77	-2	3.5	2.4	2.9	5.6	362	24.7	88	99	60	0	0	4	2
MONTGOMERY	86	66	91	62	76	-2	1.4	.6	.7	1.4	127	24.6	103	98	54	1	0	3	2
AK ANCHORAGE	59	45	62	39	52	-1	.4	.2	.3	.5	193	4.2	112	89	53	0	0	2	0
BARROW	37	30	42	28	34	3	.2	.2	.2	.3	350	1.2	129	99	80	0	6	1	0
FAIRBANKS	68	48	72	41	58	1	T	T	T	T	11	2.7	106	80	31	0	0	0	0
JUNEAU	60	47	64	42	53	2	.3	-.4	-.3	.7	68	13.0	73	93	57	0	0	2	0
KODIAK	54	41	60	37	48	0	1.8	-.8	1.1	4.6	303	18.0	72	97	69	0	0	3	2
NOME	51	37	58	33	44	1	.1	-.2	.1	.1	40	7.2	221	88	57	0	0	1	0
AZ PHOENIX	101	74	103	73	88	3	0	0	0	0	0	2.3	93	27	9	7	0	0	0
PRESCOTT	83	51	85	46	67	3	0	0	0	0	0	2.8	46	42	12	0	0	0	0
TUCSON	98	83	101	61	80	0	-1	0	0	0	0	2.0	77	27	6	7	0	0	0
YUMA	99	70	101	68	85	0	0	0	0	0	0	.8	93	49	14	7	0	0	0
AR FORT SMITH	81	65	88	62	73	-3	1.4	.5	.7	3.3	245	30.0	162	96	58	0	0	3	2
LITTLE ROCK	80	64	85	61	72	-5	2.3	1.4	1.4	4.2	312	31.5	129	89	59	0	0	4	2
CA BAKERSFIELD	88	60	92	56	74	-2	0	0	0	0	0	2.3	60	65	29	4	0	0	0
EUREKA	61	53	64	50	57	3	T	T	T	4	18.9	86	87	71	0	0	1	0	
FRESNO	87	61	91	57	74	1	0	0	0	0	0	4.8	70	74	32	2	0	0	0
LOS ANGELES	67	59	69	57	63	-1	0	0	0	0	0	3.2	39	89	67	0	0	0	0
REDDING	87	64	93	61	75	1	.3	-.1	.3	.8	252	19.5	81	87	39	3	0	1	0
SACRAMENTO	82	55	87	53	68	-1	.6	-.6	-.6	.6	0	9.1	86	92	43	0	0	1	1
SAN DIEGO	67	60	70	59	64	-1	T	T	T	T	0	2.0	31	85	65	0	0	1	0
SAN FRANCISCO	65	54	73	52	59	-1	T	T	T	0	7.4	60	88	62	0	0	0	0	0
CO DENVER	72	50	77	43	61	-3	.4	0	.2	1.9	328	9.1	126	93	42	0	0	3	0
GRAND JUNCTION	82	54	86	49	68	-3	T	T	T	24	3.5	101	60	21	0	0	2	0	
PUEBLO	78	50	89	42	64	-5	.7	.4	.6	.7	178	3.5	88	91	30	0	0	4	1
CT BRIDGEPORT	73	60	82	56	66	1	2.3	1.7	1.3	2.6	268	23.1	127	95	73	0	0	5	2
HARTFORD	72	56	82	50	64	-2	3.9	3.1	2.8	4.2	369	25.3	131	96	67	0	0	5	2
DC WASHINGTON	82	67	88	64	75	2	2.6	1.8	.7	2.6	236	23.4	144	95	58	0	0	5	4
FL APALACHICOLA	85	72	89	69	79	0	5.2	4.3	3.7	5.2	393	19.5	104	100	78	0	0	6	2
DAYTONA BEACH	92	71	96	69	81	3	1.4	0	.6	1.4	72	15.9	99	94	51	4	0	5	1
JACKSONVILLE	88	71	95	70	80	1	1.6	-.4	.6	1.6	91	11.6	61	94	59	4	0	5	1
KEY WEST	89	79	90	73	84	2	.4	-.8	.4	.5	32	6.6	58	84	62	2	0	1	0
MIAMI	90	77	90	71	83	3	1.9	-.3	1.7	1.9	63	7.3	39	83	53	4	0	2	1
ORLANDO	93	71	95	67	82	2	2.6	1.1	1.2	2.6	127	12.6	76	92	45	7	0	3	3
TALLAHASSEE	87	69	90	64	78	-1	4.9	3.6	2.1	6.1	315	22.5	85	99	62	2	0	6	3
TAMPA	90	75	94	71	82	2	1.0	-.1	.6	1.1	70	5.7	38	90	57	6	0	2	1
WEST PALM BEACH	90	73	92	71	82	2	.8	-.1	.6	.8	29	12.1	61	91	52	5	0	2	1
GA ATLANTA	82	66	87	63	74	0	1.4	.7	.7	1.5	141	23.9	97	94	55	0	0	5	2
AUGUSTA	87	68	94	65	77	2	1.9	1.0	1.3	2.0	156	19.2	91	96	51	3	0	6	1
MACON	96	68	93	65	77	-1	1.4	.5	.6	1.4	113	22.7	101	97	53	1	0	4	1
SAVANNAH	89	71	95	67	80	2	1.3	.1	.5	1.7	100	10.8	55	96	53	4	0	4	1
HI HILO	80	69	81	67	75	0	1.7	.3	.8	2.6	122	00.9	165	94	65	0	0	5	2
HONOLULU	88	74	89	73	81	3	0	-.1	0	0	0	12.7	99	76	46	0	0	0	0
KAHULUI	84	71	85	69	78	1	T	0	T	T	50	26.2	231	83	55	0	0	1	0
LIHUE	82	74	82	73	78	1	T	-.4	T	1.3	207	31.6	149	82	64	0	0	0	0
ID BOISE	85	54	91	49	70	7	T	-.2	T	.1	16	6.5	101	63	19	1	0	1	0
LEWISTON	85	56	89	54	70	7	T	-.4	T	T	0	6.7	106	63	24	0	0	0	0
POCATELLO	79	49	85	45	64	4	T	-.3	T	.5	136	6.5	116	89	29	0	0	1	0
IL CHICAGO	77	56	85	49	67	0	0	-1.0	0	1.2	83	7.4	53	83	41	0	0	0	0
MOLINE	78	54	85	46	66	-3	.1	-.8	.1	1.3	96	12.6	83	89	43	0	0	1	0
PEORIA	79	55	84	49	67	-2	0	-.9	0	.2	18	10.2	69	91	42	0	0	0	0
QUINCY	77	56	82	50	66	-4	T	-.9	T	.3	23	7.1	46	89	43	0	0	1	0
ROCKFORD	77	56	85	49	67	0	0	-1.0	0	.9	62	8.7	60	86	42	0	0	0	0
SPRINGFIELD	77	56	82	49	67	-4	0	-.8	0	.3	27	13.8	93	93	43	0	0	0	0
IN EVANSVILLE	79	57	83	53	68	-5	1.4	.5	.7	2.1	178	26.8	132	98	51	0	0	3	2
FORT WAYNE	77	55	86	51	66	-2	T	-.8	T	4.7	387	17.4	114	92	48	0	0	1	0
INDIANAPOLIS	77	56	84	51	66	-3	.5	-.4	.5	1.6	125	18.5	107	95	49	0	0	2	0
SOUTH BEND	76	55	85	47	65	-2	T	-.9	T	2.3	189	12.8	83	87	42	0	0	0	0
IA DES MOINES	75	54	83	47	65	-4	.5	-.6	.3	.8	55	9.1	71	90	42	0	0	2	0
STOUX CITY	81	52	90	42	67	-2	0	-.9	0	T	0	4.6	45	77	29	1	0	0	0
WATERLOO	79	52	89	41	65	-2	.1	-.9	.1	.2	16	6.5	50	87	37	0	0	1	0
KS CONCORDIA	76	58	83	51	67	-4	.8	-.3	.6	1.6	111	7.7	70	91	50	0	0	3	1
DODGE CITY	74	55	80	51	65	-8	3.9	3.2	2.0	4.1	393	9.2	108	96	62	0	0	5	2
GOOBLAND	71	51	77	43	61	-6	1.8	1.1	1.0	2.0	209	6.3	93	99	63	0	0	3	2
TOPEKA	78	59	83	52	69	-3	.5	-.7	.3	.9	51	10.7	83	97	46	0	0	3	0
WICHITA	77	60	82	56	68	-5	4.5	3.5	2.8	5.2	391	14.0	125	95	59	0	0	5	2
KY BOWLING GREEN	81	59	85	52	70	-2	1.1	0	.8	1.3	84	31.7	133	95	51	0	0	2	1
LEXINGTON	77	58	80	52	68	-3	1.1	.1	.6	1.4	102	29.6	139	95	55	0	0	3	1
LOUISVILLE	78	59	83	55	69	-3	1.2	.3	.4	2.3	183	29.8	144	94	53	0	0	4	0
LA ALEXANDRIA	85	69	89	65	77	-2	.6	-.3	.3	1.0	70	33.1	127	93	62	0	0	5	0
BATON ROUGE	88	70	94	68	79	0	3.7	3.1	1.2	5.2	567	32.4	127	100	64	1	0	5	3
LAKE CHARLES	89	72	93	67	81	2	1.0	0	.9	4.9	341	24.8	113	94	57	3	0	3	1
NEW ORLEANS	87	70	90	65	78	-1	2.9	1.9	1.4	3.3	228	19.8	77	99	66	1	0	4	3

Based on 1951-80 normals

Weather Data for the Week Ending June 10, 1989

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 JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	84	66	88	62	75	-3	6.8	6.0	3.2	7.5	609	34.7	158	100	61	0	0	3	3
ME CARIBOU	65	48	73	42	56	-8	1.0	.3	.8	1.7	175	12.8	97	97	62	0	0	2	1
ME PORTLAND	67	53	81	49	60	-6	3.1	2.4	1.6	3.1	301	20.4	105	97	69	0	0	5	2
MD BALTIMORE	79	64	85	60	72	1	3.1	2.3	1.4	3.2	258	25.6	146	96	64	0	0	4	3
MD SALISBURY	83	68	91	65	75	6	2.4	1.6	1.2	2.4	208	19.6	106	95	58	1	0	5	2
MA BOSTON	68	57	83	54	63	-3	1.4	.7	.4	1.7	159	15.0	75	95	70	0	0	5	2
MA CHATHAM	66	56	71	53	61	1	1.9	1.3	.7	2.1	210	21.9	104	98	80	0	0	6	2
MI ALPENA	72	45	81	36	58	-11	1.1	.4	.9	1.2	117	10.0	89	98	50	0	0	2	1
MI DETROIT	76	56	84	52	66	-6	.3	-.5	.3	2.1	193	12.7	98	91	49	0	0	1	0
MI FLINT	78	54	86	49	66	-6	.1	-.7	.1	.4	41	9.8	82	92	45	0	0	1	0
MI GRAND RAPIDS	76	52	84	46	64	-11	.3	-.5	.3	1.0	79	11.5	84	93	44	0	0	1	0
MI HOUGHTON LAKE	73	50	82	41	62	-11	1.3	.6	1.0	1.4	139	10.2	94	92	46	0	0	2	1
MI LANSING	78	52	84	45	65	-5	T	-.9	T	.5	40	12.5	105	94	47	0	0	0	0
MI MARQUETTE	63	37	70	29	50	-8	3.1	2.2	2.0	3.1	233	13.1	84	95	53	0	2	4	2
MI MUSKEGON	72	52	81	44	62	-11	0	-.6	0	.4	82	10.4	80	84	48	0	0	0	0
MI SAULT ST. MARIE	66	43	72	30	54	-12	.9	-.1	.4	1.3	117	11.8	97	95	53	0	1	3	0
MN ALEXANDRIA	71	47	80	39	59	-9	T	-.9	T	T	1	5.9	64	87	40	0	0	1	0
MN DULUTH	64	42	74	39	53	-4	.4	-.5	.4	.5	38	9.7	94	94	45	0	0	3	0
MN INT'L FALLS	68	38	76	32	52	-7	.3	-.5	.2	.4	33	5.4	69	96	41	0	1	3	0
MN MINNEAPOLIS	77	52	87	49	65	-2	.2	-.7	.2	.2	17	10.0	102	75	36	0	0	1	0
MN ROCHESTER	74	48	86	39	61	-3	.3	-.6	.3	.5	41	8.2	79	84	42	0	0	1	0
MS GREENWOOD	83	65	90	62	74	7	2.8	2.0	1.5	4.3	376	31.1	113	95	59	1	0	4	3
MS JACKSON	85	66	89	62	76	4	3.9	3.2	2.1	5.4	504	26.9	102	100	59	0	0	4	2
MS MERIDIAN	85	66	89	61	76	4	2.8	2.1	1.5	3.7	342	30.8	115	97	58	0	0	3	2
MO CAPE GIRARDEAU	79	59	83	55	69	-1	1.2	.3	1.2	1.2	97	25.1	117	96	52	0	0	2	1
MO COLUMBIA	78	56	81	50	67	-5	T	-.9	T	.1	7	12.7	76	92	49	0	0	0	0
MO KANSAS CITY	78	59	82	52	68	-5	.5	-.6	.4	1.8	113	11.5	80	91	49	0	0	3	0
MO SAINT LOUIS	80	62	84	58	71	-3	.3	-.6	.3	.3	28	15.1	98	80	40	0	0	2	0
MO SPRINGFIELD	76	57	80	50	67	-9	.9	-.2	.8	1.1	72	16.7	98	95	56	0	0	4	1
MT BILLINGS	78	51	84	44	64	-3	.1	-.5	0	.4	47	8.6	111	85	35	0	0	3	0
MT GLASGOW	79	51	84	45	65	-3	.2	-.4	.2	.3	38	5.6	138	84	33	0	0	2	0
MT GREAT FALLS	75	48	82	38	61	-2	.6	-.1	.6	.8	81	9.2	121	88	36	0	0	1	1
MT HAVRE	77	50	84	42	63	3	.3	-.3	.3	.3	35	5.0	96	73	31	0	0	1	0
MT HELENA	80	49	85	39	65	7	.5	0	.3	.8	110	6.1	115	76	23	0	0	3	0
MT KALISPELL	77	47	84	42	62	6	.8	.2	.8	1.0	127	9.1	128	88	29	0	0	2	1
MT MILES CITY	78	52	87	47	65	1	.3	-.4	.3	.5	55	8.2	128	70	30	0	0	1	0
MT MISSOULA	81	47	88	40	64	7	.5	0	.4	.7	106	6.4	102	84	26	0	0	2	0
NE GRAND ISLAND	80	53	89	47	67	-2	.2	-.7	.2	.5	35	4.2	40	88	37	0	0	3	0
NE LINCOLN	80	54	89	48	67	-3	.9	-.1	.6	1.1	83	4.5	39	80	37	0	0	2	1
NE NORFOLK	80	50	89	49	65	-1	T	-1.0	T	T	3	5.3	53	82	30	0	0	0	0
NE NORTH PLATTE	75	52	88	43	63	-3	1.0	.1	.9	1.1	90	5.9	70	93	43	0	0	2	1
NE OMAHA	78	56	86	46	67	-4	.4	-.6	.2	1.2	82	5.8	48	76	42	0	0	2	0
NE SCOTT'S BLUFF	76	50	83	41	63	-2	.1	-.6	.1	.1	14	4.5	65	87	35	0	0	3	0
NE VALENTINE	79	47	93	39	63	-2	T	-.7	T	.1	7	3.3	45	79	27	1	0	0	0
NV ELY	72	40	76	33	56	-1	.9	.7	.5	.9	300	3.8	83	91	30	0	0	4	1
NV LAS VEGAS	95	69	98	63	82	1	0	0	0	T	0	1.3	74	34	14	6	0	0	0
NV RENO	79	50	84	47	65	5	1.0	.9	.6	1.0	743	3.9	92	91	31	0	0	3	1
NV WINNEMUCCA	84	47	88	42	65	5	.3	.1	.3	.4	103	2.8	68	85	20	0	0	2	0
NH CONCORD	70	53	82	46	61	-1	2.9	2.2	.9	2.9	300	16.4	109	99	67	0	0	7	3
NJ ATLANTIC CITY	80	63	89	61	72	5	2.5	1.9	1.1	2.5	289	22.2	124	98	62	0	0	4	2
NM ALBUQUERQUE	86	56	89	51	71	-1	T	-.1	T	T	17	1.4	64	50	11	0	0	1	0
NM CLOVIS	79	56	91	50	68	-5	1.1	.6	.7	1.8	217	3.0	59	91	43	1	0	3	1
NM ROSWELL	89	62	99	58	76	-1	T	-.2	T	T	7	1.6	61	87	22	3	0	1	0
NY ALBANY	73	54	79	47	63	-1	3.0	2.2	1.8	3.8	346	17.1	115	99	62	0	0	5	2
NY BINGHAMTON	69	54	70	49	61	-1	1.0	.2	.5	1.7	143	16.3	108	100	64	0	0	5	0
NY BUFFALO	73	55	85	49	64	0	3.1	2.5	3.0	3.8	421	20.4	135	93	49	0	0	3	1
NY NEW YORK	76	62	86	59	69	0	3.4	2.7	1.9	3.5	338	24.4	133	99	64	0	0	4	2
NY ROCHESTER	76	55	83	51	66	1	.9	.2	.9	1.2	122	15.3	115	94	52	0	0	2	1
NY SYRACUSE	75	55	80	48	65	0	.7	-.1	.3	1.9	165	13.6	86	99	58	0	0	6	0
NC ASHEVILLE	77	58	81	54	67	-1	3.0	2.1	1.5	3.2	253	21.1	106	99	61	0	0	5	3
NC CHARLOTTE	86	68	91	66	77	3	.7	-.1	.5	.7	60	19.9	98	94	52	1	0	6	1
NC GREENSBORO	83	66	89	61	74	3	2.1	1.2	1.0	3.0	238	23.7	128	97	56	0	0	6	1
NC HATTERAS	82	71	85	68	76	4	1.6	.6	1.0	1.8	128	34.0	159	99	70	0	0	5	1
NC NEW BERN	86	71	92	69	79	4	2.8	1.7	1.0	2.9	182	24.3	118	97	61	2	0	5	4
NC RALEIGH	85	67	91	65	76	4	3.2	2.3	1.3	3.3	280	25.3	137	100	57	2	0	5	2
NC WILMINGTON	87	71	93	68	79	4	3.7	2.5	1.6	3.7	218	25.8	129	96	60	2	0	6	3
ND BISMARCK	77	46	89	38	62	0	T	-.7	T	T	4	4.9	78	85	33	0	0	0	0
ND FARGO	73	45	83	38	59	-4	T	-.7	T	T	0	7.2	106	88	37	0	0	0	0
ND GRAND FORKS	72	45	84	37	59	-3	.2	-.4	.2	.2	26	5.3	86	85	37	0	0	2	0
ND WILLISTON	77	47	90	33	62	1	.5	-.1	.5	.8	91	5.8	107	88	36	1	0	1	0
OH AKRON-CANTON	73	54	82	48	63	-2	.7	-.1	.6	2.4	226	19.0	120	95	55	0	0	2	1
OH CINCINNATI	76	57	83	52	67	-3	1.2	.2	.9	1.2	95	25.4	138	98	56	0	0	3	1
OH CLEVELAND	75	55	85	48	65	-1	.3	-.5	.2	2.2	195	22.4	146	96	51	0	0	2	0
OH COLUMBUS	73	55	80	49	64	-4	.4	-.5	.3	1.2	92	18.4	111	97	53	0	0	2	0

Weather Data for the Week Ending June 10, 1989

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 JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	75	56	84	52	66	-3	1.1	.2	.7	2.2	168	28.6	178	92	54	0	0	2	1	
TOLEDO	78	54	86	49	66	0	T	-.8	T	2.2	197	15.2	114	94	45	0	0	0	0	
YOUNGSTOWN	73	53	83	47	63	-2	-.8	0	.8	2.5	223	17.8	111	97	55	0	0	3	1	
OK OKLAHOMA CITY	79	63	83	60	71	-4	3.6	2.6	1.9	7.8	533	18.2	129	94	56	0	0	0	3	
TULSA	79	64	84	60	71	-4	-.6	-.6	.2	1.2	74	13.8	81	94	53	0	0	4	0	
OR ASTORIA	67	54	89	52	60	5	T	0	T	0	0	30.2	88	86	58	0	0	0	0	
BURNS	78	45	83	37	61	4	T	-.7	0	T	0	5.5	108	61	21	0	0	1	0	
MEDFORD	87	49	91	44	68	5	0	-.2	0	.6	229	10.3	104	82	19	2	2	0	0	
PENDLETON	82	52	87	47	67	3	0	0	0	0	0	8.1	130	66	21	0	0	0	0	
PORTLAND	77	53	88	50	65	4	0	-.4	0	T	0	17.9	96	90	45	0	0	0	0	
SALEM	79	48	90	42	63	4	0	-.4	0	0	0	15.0	72	93	38	1	0	0	0	
PA ALLENTOWN	74	60	82	56	67	0	2.0	1.2	1.2	2.0	182	20.6	110	96	64	0	0	5	1	
ERIE	72	56	80	48	64	1	.4	-.5	.4	1.5	120	19.3	127	90	54	0	0	2	0	
HARRISBURG	73	59	81	57	66	-3	1.5	.7	.8	1.7	136	19.4	112	97	65	0	0	5	1	
PHILADELPHIA	81	65	86	63	73	4	3.2	2.3	1.8	3.2	257	22.4	127	97	61	0	0	4	3	
PITTSBURGH	73	57	84	53	65	-2	.8	0	.7	1.3	118	20.3	121	92	55	0	0	2	1	
SCRANTON	71	56	78	51	63	-2	1.2	.4	.4	1.5	132	15.5	109	98	65	0	0	6	0	
RI PROVIDENCE	74	57	83	53	66	1	2.5	1.9	1.3	2.8	294	22.1	108	99	72	0	0	6	2	
SC CHARLESTON	88	71	95	68	79	3	3.9	2.5	1.7	3.9	197	16.9	85	98	56	3	0	5	3	
COLUMBIA	87	68	95	67	78	2	2.1	1.1	1.4	2.1	150	20.8	93	97	50	2	0	5	1	
FLORENCE	87	69	93	67	78	2	2.5	1.5	1.8	2.9	205	19.4	104	97	55	2	0	4	1	
GREENVILLE	84	65	90	59	74	0	1.3	.3	.5	1.3	91	18.9	78	97	55	1	0	5	1	
SD ABERDEEN	77	46	88	37	62	-2	T	-.8	T	.1	5	7.0	91	85	32	0	0	0	0	
HURON	81	45	92	34	63	-2	0	-.8	0	0	0	5.8	71	86	29	1	0	0	0	
RAPID CITY	80	46	90	40	63	1	T	-.8	T	.1	5	4.2	55	81	29	1	0	0	0	
SIOUX FALLS	81	48	93	40	64	-2	0	-.9	0	T	0	4.8	49	80	27	1	0	0	0	
TN CHATTANOOGA	79	64	84	61	72	-2	1.9	1.1	1.1	1.9	176	28.8	111	100	64	0	0	4	1	
KNOXVILLE	79	62	85	58	71	-2	2.6	1.7	1.1	3.3	259	27.1	117	100	65	0	0	5	2	
MEMPHIS	82	66	87	62	74	-3	1.5	.6	1.0	1.7	135	30.3	115	91	54	0	0	3	1	
NASHVILLE	79	62	83	55	71	-3	1.9	1.0	1.2	2.1	162	28.6	117	93	60	0	0	3	2	
TX ABILENE	83	62	91	57	73	-6	6.4	5.7	3.6	7.5	808	16.6	174	92	55	1	0	4	3	
AMARILLO	79	54	85	48	67	-6	1.7	.9	1.0	2.6	226	7.1	104	95	44	0	0	3	2	
AUSTIN	94	72	99	68	83	3	T	-.8	T	2	16.1	114	91	46	7	0	1	0	0	
BEAUMONT	90	73	94	67	81	2	.4	-.7	.2	1.2	75	27.0	122	93	56	3	0	3	0	
BROWNSVILLE	95	78	102	76	87	5	0	-.7	0	T	0	7.3	92	96	53	7	0	0	0	
CORPUS CHRISTI	93	77	95	73	85	4	0	-1.0	0	0	0	6.8	65	96	57	6	0	0	0	
DEL RIO	97	75	105	71	86	4	-.2	-.2	.1	.2	37	4.8	73	66	28	7	0	2	0	
EL PASO	94	61	96	56	77	-2	0	-.1	0	0	0	2.1	131	34	10	7	0	0	0	
FORT WORTH	84	65	87	63	74	-5	5.4	4.7	3.1	5.5	589	26.9	176	96	56	0	0	5	2	
GALVESTON	88	78	89	72	83	2	.1	-.8	.1	.4	38	12.6	87	87	62	0	0	1	0	
HOUSTON	92	71	95	67	81	2	.5	-.6	.5	.6	40	25.3	130	94	52	5	0	1	1	
LUBBOCK	82	59	95	53	70	-5	.6	-.1	.4	3.2	344	5.9	92	94	46	1	0	3	0	
MIDLAND	88	62	99	57	75	-4	.4	0	.4	.6	108	3.4	71	85	39	3	0	1	0	
SAN ANGELO	91	63	97	57	77	-3	1.9	1.4	1.9	2.7	369	10.4	145	90	40	4	0	1	1	
SAN ANTONIO	98	74	103	68	86	6	T	-.8	T	2	7.4	60	82	34	7	0	2	0	0	
VICTORIA	94	74	98	70	84	3	.4	-.7	.4	.4	26	8.3	59	92	47	7	0	1	0	
WACO	88	65	91	63	77	-4	1.5	.8	.7	1.7	161	19.8	130	98	57	3	0	4	2	
WICHITA FALLS	82	62	88	60	72	-7	4.8	4.0	3.1	6.6	588	17.5	145	97	55	0	0	3	2	
UT CEDAR CITY	79	47	82	44	63	-1	.7	.6	.4	.7	486	3.4	76	73	19	0	0	3	0	
SALT LAKE CITY	80	55	84	50	68	3	.2	-.1	.1	.2	51	6.2	75	78	29	0	0	4	0	
VT BURLINGTON	74	56	78	54	65	2	1.4	.6	.7	2.8	235	11.5	92	91	55	0	0	4	1	
VA NORFOLK	87	70	93	67	78	6	2.3	1.5	1.6	2.7	242	26.8	145	94	56	1	0	5	1	
RICHMOND	84	66	91	64	75	3	2.5	1.8	1.7	2.9	262	23.4	134	98	59	1	0	4	2	
ROANOKE	80	64	86	61	72	2	3.9	3.1	1.0	4.0	354	19.3	111	97	61	0	0	5	5	
WA QUILLAYUTE	66	51	90	48	58	4	T	-.7	T	0	41.0	79	90	57	1	0	0	0	0	
SEATTLE-TACOMA	74	52	88	48	63	5	0	-.4	0	0	0	17.6	96	91	46	0	0	0	0	
SPOKANE	80	52	84	47	66	7	.1	-.3	.1	.2	39	7.7	93	74	25	0	0	1	0	
YAKIMA	87	50	93	44	69	6	0	-.1	0	0	0	3.4	87	72	21	2	0	0	0	
WV BECKLEY	73	59	78	54	66	2	.7	-.2	.3	1.6	125	20.0	106	97	62	0	0	5	0	
CHARLESTON	77	62	82	57	70	0	2.5	1.8	1.4	3.0	299	28.7	153	97	60	0	0	5	2	
HUNTINGTON	78	60	83	54	69	-1	2.0	1.2	.7	2.0	181	27.8	150	97	58	0	0	5	3	
PARKERSBURG	75	60	81	53	67	-2	1.3	.4	.6	1.4	111	24.8	145	96	58	0	0	3	1	
WI GREEN BAY	74	49	84	43	62	-1	.5	-.3	.5	.7	64	9.0	83	92	46	0	0	1	0	
LACROSSE	77	52	88	43	64	-2	.2	-.8	.1	.3	18	8.2	70	93	40	0	0	2	0	
MADISON	76	51	84	42	63	-1	.2	-.7	.2	.4	33	7.7	65	88	41	0	0	1	0	
MILWAUKEE	75	53	85	45	64	2	T	-.8	T	.6	50	9.4	74	90	43	0	0	1	0	
WAUSAU	72	47	82	40	59	-3	.7	-.2	.7	1.3	96	9.5	81	95	45	0	0	2	1	
WY CASPER	75	46	83	41	61	1	.4	0	.2	.7	150	6.2	102	91	32	0	0	5	0	
CHEYENNE	67	46	72	40	57	-2	1.5	1.0	.9	2.1	294	6.0	98	98	52	0	0	4	2	
LANDER	74	48	78	42	61	1	.2	-.2	.2	1.9	316	9.5	123	82	31	0	0	1	0	
SHERIDAN	77	46	82	42	62	-3	.1	-.5	.1	.1	15	6.5	83	87	33	0	0	2	0	
PR SAN JUAN	-999	79	-999	75	-999	-	0	-1.2	0	0	0	8.9	48	82	65	0	0	0	0	

National Agricultural Summary

June 5-11, 1989

HIGHLIGHTS: Rain and wet field conditions slowed fieldwork in the central and southern Great Plains, the eastern Corn Belt, Delta, and portions of the Southeast. The average number of days suitable for fieldwork ranged from 2 to 4 in those areas. Soil moisture was mostly adequate to surplus in the East and adequate to short in the Great Plains and the West. Soil moisture continued to improve in the central and southern Great Plains.

Winter wheat was mostly fair to poor with 88 percent (%) of the acreage headed, 1 percentage point behind the 5-year average. Harvest was 6% complete, 2 points behind normal. Rain slowed harvest in the central and southern Great Plains, the Delta, and Southeast. Spring wheat was mostly good to fair with 96% of the acreage emerged, 2 points behind normal. Corn was mostly good to fair and planting was 96% complete, 3 points behind normal. Soybeans were mostly good to fair and planting was 75% complete, 8 points behind normal. Corn and soybean planting continued to lag behind normal in the eastern Corn Belt. Cotton was mostly fair to good and planting was 93% complete, 4 points ahead of normal. Thirteen percent of the acreage had reached the squaring stage, 4 points behind normal. Sorghum was mostly good to fair and planting was 77% complete, 7 points ahead of normal. Tobacco harvest began in Georgia. Scattered showers benefited Florida citrus groves.

SMALL GRAINS: Winter wheat was mostly fair to poor with 88% of the acreage headed, slightly behind the 89% average. Harvest was 6% complete, 2 points behind normal. Harvest continued in California, Georgia, North Carolina, Oklahoma, and Texas and began in Arkansas and New Mexico. Harvest lagged behind normal in the Southeast.

In Texas, harvest was 26% complete, 8 points behind normal. Harvest was nearly complete in the Blacklands and central areas. Rain slowed harvest in the Cross Timbers and Low Plains. Hail damaged some fields in the High Plains. Winter wheat was mostly fair to poor in Oklahoma. Hail damaged some fields. In Nebraska, winter wheat was mostly poor to fair. Russian wheat aphids were a continuing problem in the Panhandle. Producers were destroying poorer fields or using them for grazing. Rain slowed winter wheat harvest in Arkansas, Georgia, and North Carolina. Harvest was more than 20 points behind normal in Arkansas and North Carolina.

Spring wheat was mostly good to fair with 96% of the crop emerged, slightly behind the 98% average. In Montana, spring wheat was mostly good to excellent with 84% of the crop emerged, 12 points behind normal. Spring wheat was mostly good to fair in North Dakota.

CORN: Corn was mostly good to fair and planting was 96% complete, 3 points behind normal. Planting was complete in 10 of the 17 major producing States. Planting continued to lag behind normal in Ohio and Pennsylvania but reached 90% completion in Indiana. In Ohio, planting advanced 16 points, reaching 66% completion, 34 points behind normal. In Pennsylvania, planting was 70% complete, 22 points behind normal.

SOYBEANS: Soybeans were mostly good to fair and planting was 75% complete, 8 points behind normal. Rain slowed planting in the Delta and Southeast. Planting lagged more than 15 points behind normal in Louisiana, Mississippi, and North Carolina and 30 or more points behind in Indiana and Ohio. In Indiana, planting advanced 17 points, reaching 57% completion, 30 points behind normal. In Ohio, planting was 32% complete, 58 points behind normal.

COTTON: Cotton was mostly fair to good and planting was 93% complete, 4 points ahead of normal. Planting was complete in 8 of the 14 major producing States. In Mississippi, planting was complete but approximately 30% of the acreage had to be replanted due to earlier heavy rains. Cotton condition was mostly fair to poor in Mississippi. Some replanting was necessary in Oklahoma. In Texas, cotton was mostly fair to good. Hail damaged some fields in the High Plains. In the 14 major producing States, 13% of the acreage had reached the squaring stage, 4 points behind normal. In Georgia, squaring was 30 points behind normal.

SORGHUM: Sorghum was mostly good to fair and planting was 77% complete, 7 points ahead of normal. Planting was normal or ahead of normal except in Louisiana and Mississippi.

OTHER FIELD CROPS: Rice was mostly good to fair with 95% of the crop emerged, equal to the average. In Louisiana, sheath blight was a major concern. In Alabama and Georgia, peanuts were mostly good to excellent. Peanuts were mostly fair to good in North Carolina. In Texas, peanut planting was 40% complete, 9 points behind normal. In Georgia, tobacco was mostly good to fair and harvest was underway. In Kentucky, tobacco was mostly good to fair.

FRUIT AND NUTS: Scattered showers benefited Florida citrus groves. Irrigation was still active in all areas. Fruit sizes were varied because of the extended bloom period. In Georgia, peach harvest was 38% complete, 1 point ahead of normal. Peaches were fair to good and harvest was underway in North and South Carolina. Peach harvest continued in Texas. In the Rio Grande Valley, irrigation was necessary in citrus groves to limit fruit droppage. In central Arizona, orange and grapefruit harvests were active. In California, navel orange harvest was virtually complete.

VEGETABLES: Vegetable harvests were active in northern Florida. Volume leaders were watermelons, potatoes, tomatoes, sweet corn, peppers, cucumbers, and celery. Watermelons were good to fair in Georgia and fair to good in South Carolina. Watermelon harvest continued in Texas. Hail damaged onions and potatoes in the High Plains. In central Arizona, table potato harvest was complete. Watermelon, honeydew, and cantaloupe harvests were active in the Salt River Valley. Sweet corn harvest was nearly complete in the Coachella Valley of California. Celery harvest began in the Salinas-Watsonville area.

PASTURES AND LIVESTOCK: Pastures were mostly good to fair in the East and fair to good in the Great Plains and the West. Livestock was mostly good.

OHIO STATEWIDE PRECIPITATION

SPRING, 1895-1989

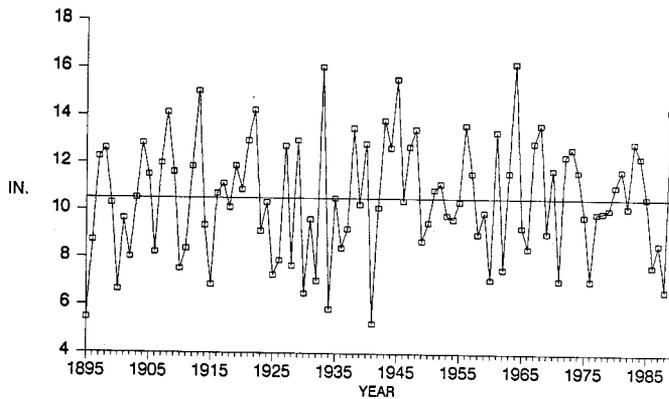


Figure 1

National Climatic Data Center, NOAA

PERCENTAGE OF CORN PLANTED IN OHIO

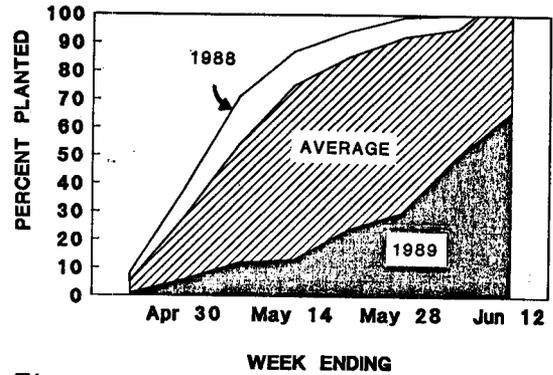
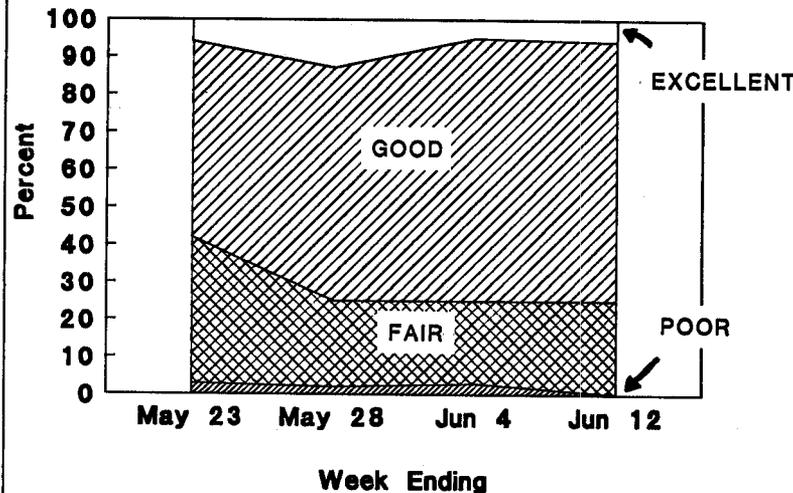


Figure 2

Spring Rains Delaying Planting In Eastern Corn Belt

Corn planting in Ohio has increased significantly over the last 2 weeks, but the current pace of 66 percent is still far behind last year and the last 5-year average of 100 percent (fig. 1). Portions of Ohio and Northeastern Indiana have experienced heavy rains this spring, which have delayed fieldwork. Ohio had the fifth wettest spring in 1989, following the sixth driest spring in 1988 (fig. 2).

Crop Condition Iowa Corn



While spring soil moisture reserves were below normal for most of Iowa, recent rains have kept the Iowa corn crop in fairly good condition.

Crop Progress

FOR WEEK ENDING JUNE 11, 1989

GRAIN SORGHUM
% PLANTED

	1989	1988	AVG.
ARK	96	96	95
ILL	80	92	80
KANS	60	70	50
LA	93	95	98
MISS	87	97	94
MO	88	94	85
NEBR	96	96	88
OKLA	55	60	50
S DAK	85	78	70
TENN	92	91	86
TEX	84	79	83

11 STATES 77 80 70

THESE 11 STATES PRODUCED 96%
OF THE 1988 GRAIN SORGHUM CROP.

SPRING WHEAT
% EMERGED

	1989	1988	AVG.
IDAHO	100	100	96
MINN	99	99	97
MONT	84	100	96
N DAK	98	99	98
S DAK	100	100	100

5 STATES 96 99 98

THESE 5 STATES PRODUCED 87%
OF THE 1988 SPRING WHEAT CROP.

CORN
% PLANTED

	1989	1988	AVG.
COLO	100	99	99
GA	100	100	100
ILL	100	100	100
IND	90	100	99
IOWA	100	100	100
KANS	99	99	99
KY	98	99	98
MICH	100	100	99
MINN	99	99	99
MO	100	100	98
NEBR	100	100	100
N C	100	100	100
OHIO	66	100	100
PA	70	91	92
S DAK	100	100	95
TEX	100	100	100
WIS	99	100	99

17 STATES 96 100 99

THESE 17 STATES PRODUCED 94%
OF THE 1988 CORN CROP.

COTTON
% SQUARING

	1989	1988	AVG.
ALA	11	22	17
ARIZ	93	65	85
ARK	5	11	13
CALIF	8	5	14
GA	7	30	37
LA	11	19	24
MISS	22	18	22
MO	3	6	8
N MEX	20	0	7
N C	0	0	5
OKLA	0	1	0
S C	3	1	14
TENN	1	8	7
TEX	10	13	12

14 STATES 13 14 17

THESE 14 STATES PRODUCED 99%
OF THE 1988 COTTON CROP.

WINTER WHEAT
% HARVESTED

	1989	1988	AVG.
ARK	4	37	35
CALIF	15	15	26
COLO	0	0	0
GA	68	79	78
IDAHO	0	0	0
ILL	0	0	0
IND	0	0	0
KANS	0	1	1
MICH	0	0	0
MO	0	7	6
MONT	0	0	0
NEBR	0	0	0
N MEX	8	1	NA
N C	7	21	28
OHIO	0	0	0
OKLA	20	25	15
OREG	0	0	0
S DAK	0	0	0
TEX	26	29	34
WASH	0	0	0

20 STATES 6 9 NA

EXCL. STATES WITH NA 6 9 8

THESE 20 STATES PRODUCED 90%
OF THE 1988 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

WINTER WHEAT
% HEADED

	1989	1988	AVG.
ARK	100	100	NA
CALIF	99	100	100
COLO	82	85	90
GA	100	100	100
IDAHO	25	31	25
ILL	100	100	99
IND	97	100	98
KANS	100	100	98
MICH	75	95	80
MO	100	100	100
MONT	1	60	22
NEBR	97	94	94
N MEX	100	100	NA
N C	100	100	NA
OHIO	92	94	94
OKLA	100	100	100
OREG	76	78	86
S DAK	71	91	71
TEX	99	99	100
WASH	80	68	65

20 STATES 89 93 NA

EXCL. STATES WITH NA 88 93 89

THESE 20 STATES PRODUCED 90%
OF THE 1988 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

SOYBEANS
% PLANTED

	1989	1988	AVG.
ALA	67	70	67
ARK	53	65	64
GA	66	69	72
ILL	93	100	94
IND	57	99	87
IOWA	100	100	95
KANS	60	80	60
KY	65	75	57
LA	61	64	78
MICH	80	95	90
MINN	97	99	95
MISS	44	58	66
MO	77	85	72
NEBR	98	98	90
N C	44	63	63
OHIO	32	95	90
S C	51	66	60
S DAK	99	100	84
TENN	62	75	62

19 STATES 75 89 83

THESE 19 STATES PRODUCED 95%
OF THE 1988 SOYBEANS CROP.

	COTTON		
	% PLANTED	1989	1988 AVG.
ALA	100	100	99
ARIZ	100	100	100
ARK	100	100	100
CALIF	100	100	100
GA	95	98	98
LA	99	99	100
MISS	100	100	100
MO	100	100	100
N MEX	100	100	99
N C	98	100	100
OKLA	80	80	55
S C	98	100	100
TENN	100	100	100
TEX	86	85	79

	RICE		
	% EMERGED	1989	1988 AVG.
ARK	95	96	95
CALIF	90	92	85
LA	97	100	99
MISS	93	94	97
TEX	100	100	100

5 STATES 95 97 95

THESE 5 STATES PRODUCED 97% OF THE 1988 RICE CROP.

Crop Condition

14 STATES 93 92 89

THESE 14 STATES PRODUCED 99% OF THE 1988 COTTON CROP.

PERCENT FOR WEEK ENDING JUNE 11, 1989

COTTON					
STATE	VP	P	F	G	EX
ALA	0	0	61	38	1
ARIZ	0	0	0	83	17
ARK	0	11	79	10	0
CALIF	0	0	5	90	5
GA	0	0	26	72	2
LA	0	14	77	9	0
MISS	0	35	55	10	0
MO	0	13	27	60	0
N MEX	0	15	50	30	5
N C	0	3	56	39	2
OKLA	0	0	75	25	0
S C	0	2	50	48	0
TENN	4	6	63	26	1
TEX	1	13	49	30	7
14 STATE	1	11	47	36	5
PREV YEAR	1	9	38	42	10

RICE					
STATE	VP	P	F	G	EX
ARK	0	4	44	52	0
CALIF	0	0	10	80	10
LA	0	4	38	58	0
MISS	0	0	70	30	0
TEX	0	0	0	76	24
5 STATE	0	2	34	59	5
PREV YEAR	0	5	48	44	3

SORGHUM					
STATE	VP	P	F	G	EX
ARK	0	2	65	33	0
ILL	0	0	12	80	8
KANS	0	8	21	50	21
LA	0	0	71	29	0
MISS	5	5	60	30	0
MO	0	1	52	44	3
NEBR	0	7	62	31	0
OKLA	0	0	55	30	15
S DAK	18	8	39	35	0
TENN	1	2	29	67	1
TEX	3	24	24	33	16
11 STATE	2	10	35	40	13
PREV YEAR	2	10	36	39	13

SPRING WHEAT					
STATE	VP	P	F	G	EX
IDAHO	0	4	24	55	17
MINN	0	2	14	76	8
MONT	0	1	13	65	21
N DAK	0	0	20	75	5
S DAK	3	6	41	48	2
5 STATE	0	2	21	69	8
PREV YEAR	20	38	31	10	1

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	0	12	49	39	0
CALIF	0	0	5	75	20
COLO	12	17	45	24	2
GA	1	20	49	28	2
IDAHO	1	8	20	57	14
ILL	0	0	8	66	26
IND	0	2	21	63	14
KANS	49	30	15	4	2
MICH	0	5	20	50	25
MO	1	1	35	61	2
MONT	2	13	28	44	13
NEB	17	41	34	8	0
N MEX	50	35	10	5	0
N C	6	6	53	34	1
OHIO	1	8	32	50	9
OKLA	10	20	60	10	0
OREG	0	0	38	58	4
S DAK	2	22	54	22	0
TEX	20	40	37	3	0
WASH	0	0	45	55	0
20 STATE	18	22	34	22	4
PREV YEAR	3	15	36	41	5

SOYBEANS					
STATE	VP	P	F	G	EX
ALA	0	0	3	92	5
ARK	0	0	62	38	0
GA	0	0	23	75	2
ILL	0	2	15	72	11
IND	2	9	48	40	1
IOWA	0	0	30	65	5
KANS	0	12	26	44	18
KY	0	1	18	74	7
LA	0	12	58	28	2
MINN	2	5	56	36	1
MISS	10	25	60	5	0
MO	0	2	48	48	2
NEBR	0	16	58	25	1
N C	0	1	20	77	2
OHIO	2	12	43	41	2
S C	0	0	60	40	0
S DAK	1	5	31	62	1
TENN	0	5	16	77	2
18 STATE	1	6	38	51	4
PREV YEAR	2	15	51	30	2

CORN					
STATE	VP	P	F	G	EX
COLO	0	3	19	69	9
GA	0	9	25	58	8
ILL	0	0	13	74	13
IND	1	3	44	50	2
IOWA	0	0	25	69	6
KANS	0	8	17	52	23
KY	0	1	16	78	5
MICH	0	5	20	50	25
MINN	0	3	46	51	0
MO	0	2	45	52	1
NEBR	1	9	57	29	4
N C	0	4	43	50	3
OHIO	3	13	38	42	4
PA	1	3	33	41	22
S DAK	1	4	31	60	4
TEX	4	12	14	51	19
WIS	0	1	13	70	16
17 STATE	1	4	31	56	8
PREV YEAR	1	9	43	43	4

THESE 18 STATES PRODUCED 92% OF THE 1988 SOYBEAN CROP.

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

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall 1.00 to 2.00 in.; near 4.00 in. local areas central, south; near 10.00 in. extreme south. Temperatures 2 to 5° below normal. Days suitable for fieldwork 2.4. Soil moisture 16% short, 42% adequate, 42% surplus. Significant hail damage to vegetable crops Geneva county. Corn 62% silked, 44% 1988, 38% avg; 1% poor, 10% fair, 72% good, 17% excellent. Sorghum 78% planted, 78% 1988, 73% avg; 8% fair, 92% good. Cotton 11% squaring, 22% 1988, 17% avg.; 61% fair, 38% good, 1% excellent. Soybeans 67% planted, 70% 1988, 67% avg; 3% fair, 92% good, 5% excellent. Peanuts 10% pegging, 7% 1988, 6% avg.; 67% good, 33% excellent. Winter wheat 65% harvested, 56% 1988, 51% avg. First hay 77% harvested, 87% 1988, 74% avg. Livestock, pastures good to excellent. Primary activities: Planting soybeans, sorghum, as weather permitted; controlling weeds, insects, diseases in row crops, vegetables; fertilizing, clipping pastures; harvesting peaches, plums, blueberries, vegetable crops; maintaining equipment, machinery; general care of livestock, poultry, catfish.

ALASKA: Sunshine, adequate rainfall. Strong winds prevailed. Highs 4° below normal to 1° warmer than normal. Lows 1° below normal to 4° above normal. Seasonal precipitation above normal except Fairbanks 0.02 in. drier than normal. Days suitable for fieldwork 6.0. Topsoil 13% short, 81% adequate, 6% surplus. Subsoil 2% short, 91% adequate, 7% surplus. Warmer weather needed to promote crop growth. Crop condition average. Fertilizer hayfields average to better condition. Commercial potatoes emergence below a year ago.

ARIZONA: Sunny, breezy, near normal temperatures 4th to 7th. Low pressure system 8th, 9th; isolated showers, thunderstorms northwestern areas. Sunny skies prevailed south, central areas 10th, cloudy conditions over extreme north. Temperatures 2° below normal to 4° above. Cotton 93% squared, 65% 1988, 85% avg.; bolls setting 40%, 50% 1988; monitoring, spraying pink boll worms western areas. Cotton 83% good, 17% excellent. Wheat, barley combining continued; 80% harvested, 70% 1988, 75% 4 year avg.; good. Alfalfa harvest continued. Hay, roughage adequate; tightening northwest. Grape, honeydew, watermelon, cantaloupe harvest active west. Processing tomato harvest began southwest. Table potato harvest completed central; chipper potato harvest continued central. Watermelon, honeydews, cantaloupe harvest active Salt River Valley. Sweet corn, grape harvest continued central. Lettuce, cabbage harvested east. Grapefruit, valencia orange harvest continued central.

ARKANSAS: Moist, unstable air mass kept temperatures 2 to 6° below normal. Scattered showers, thunderstorms statewide first, middle of week. Extremes 51°; 90°. Rainfall 0.76 to 3.60 in.

Days suitable for fieldwork 3.0. Soil moisture 37% adequate, 63% surplus. Cotton 98% emerged, 97% 1988, 99% avg. Rice 98% seeded, 100% 1988, 98% avg. Soybeans 42% emerged, 45% 1988, 51% avg. Wheat 12% poor, 49% fair, 39% good. Oats 5% harvested, 56% 1988, 34% avg; 4% poor, 58% fair, 38% good. Corn 32% fair, 57% good, 11% excellent.

Sorghum 91% emerged, 89% 1988. Main activities: Limited soybean planting, wheat harvest; cutting, baling hay; herbicide, fertilizer applications; rice weed control, flooding; sprigging Bermuda grass; vegetable harvest. Crop growth moderate, some flooding in small isolated areas. Some hail damage to cotton. Some lodging of wheat, oats. Light hail damage, blueberry crop. Wet hampered first cutting hay. Pastures making excellent growth. Livestock good.

CALIFORNIA: Thundershowers over Sierra Nevada occasionally drifted into central valley bringing light amounts rain. Heavy amounts fell mountain areas. Temperatures remained mild.

Rain central early week interrupted field crop activities 1 or 2 days. Wheat, barley harvests increased, began Sacramento Valley. Stubble burning, land preparation second crop active. Seeding second crop corn, dry beans increased. Rice under some stress, cool weather, water holding period herbicides. Cultivation, irrigation, insect control active cotton. Bloom southern areas, some square central. Harvest overwintered sugarbeets, seeded new fields. Harvest alfalfa, Sudan, other hay. Cut hay rained on, windrows turned. Apricot, avocado, Bing cherry, desert table grapes, freestone peach, plum, nectarine, desert grapefruit, coastal lemon, valencia orange crops all continued to be harvested. Picking virtually completed navel oranges. Nut crops progressing normally. Cauliflower supplies Santa Maria, Salinas-Watsonville, moderate variable quality. Salinas broccoli heavy, variable quality. Production Santa Maria in excess of demand, growers experienced depressed market. Potatoes Tulelake-Butte beginning emerge not effected by frost. Processing tomato setting fruit good stands Sacramento, San Joaquin Valleys. Tomato harvest continued full swing Cutler-Orosi area light volume, steady demand. Celery movement Santa Maria continued. Harvest Salinas-Watsonville just getting underway. Lettuce light Salinas area, variable quality. Demand Santa Maria exceeded supply. Watermelon harvest continued Palo Verde. Cantaloupe, honeydew markets poor, quality and yields good. Bee colonies moved into melon fields Kingsburg-Dinuba area. Strawberries, both Salinas, Santa Maria light supply, variable quality. Some diverted processing. Sweet corn harvest winding down Coachella Valley, expected begin next week Kingsburg. Bell pepper, onions, squash, green beans, cucumbers continue harvest throughout State. Livestock good shape, Statewide. Movement to summer feeding areas or market active Sacramento, San Joaquin Valley. Range, pasture feed conditions continued decline, lack of rainfall. Thundershowers foothill areas helped feed crops. Water supplies good, northern counties, very low rest State.

COLORADO: Showers brought much of eastern area badly needed rain. Rainfall 1.00 in. or more east of the Divide with little falling west. Temperatures 3 to 5° below normal east of Divide, San Luis Valley, 1 to 2° below normal elsewhere. Days suitable for fieldwork, 4.4. Soil moisture 11% very short, 48% short, 38% adequate, and 4% surplus. Spring barley 33% headed, 9% turning color. Oats headed 24%. Dry beans 59% planted,

19% emerged. Sorghum 58% planted, 44% emerged. Spring wheat 27% headed. Winter wheat 82% headed, 7% turning color. Winter wheat 12% very poor, 17% poor, 45% fair, 24% good, 2% excellent. Rains beneficial but weeds becoming major concern as most wheat is short. Range, pastures poor to fair; livestock fair to good.

FLORIDA: Nearly all areas received rain. Excessive 5.00 to 10.00 in. fell across Panhandle 8th, 9th. Heaviest weekly rainfall 13.60 in. at Crestview. Rainfall 0.50 to 2.00 in. elsewhere. Few areas less than 0.50 in. Rain fell 4 to 7 days across Panhandle, 2 to 4 days elsewhere. Temperatures slightly cooler than normal, extreme north to 2 to 5° above normal, Peninsula. Maximum temperatures well into 90s common over interior Peninsula. Hottest temperature 101° Clewiston, 9th.

Topsoil improved late week to adequate, Panhandle; elsewhere continued generally short. Soybean planting active. Cotton, peanut planting, winter wheat harvest complete. Insufficient growth delayed hay harvest many areas. Corn, sugarcane, tobacco good progress. Heavy rains, Panhandle brought most pastures up, good to excellent. Eastern coastal pastures good to excellent. Elsewhere in Peninsula, grazing varied from very poor to fair with showers received most areas. More rain needed to replenish prolonged dry soils, especially western, some northern Peninsula areas. Panhandle cattle generally good. Some herds, drier west coast, upper northern Peninsula areas continued only poor to fair; elsewhere, generally fair to good. Widely scattered showers fell over most citrus growing areas. Surface moisture remained short many areas due to high daytime temperatures, lack of heavy rains. Irrigation continued to maintain tree vigor. New crop fruit progressing well. Many groves have several sizes of fruit from extended bloom period. Valencia harvest declined as supplies low some areas. Grapefruit harvest also declined with most remaining crops coming from east coast. Caretakers maintained cover crops, sprayed, fertilized. Hot days, warm nights over major vegetable producing areas. Frequent thunderstorms, showers beneficial, especially Panhandle watermelons. Harvest active northern areas. Volume leaders: Watermelons, potatoes, tomatoes, sweet corn, peppers, cucumbers, celery. Lighter supplies radishes, squash, cabbage, carrots available. Harvest hastings potatoes 90% complete.

GEORGIA: Wet week. Rain 1.00 to 2.00 in. common. Central, south local areas 3.00 to near 6.00 in. Temperatures 1 to 3° below normal. Highs mid 80s north, mid 90s extreme south. Lows low 50s mountains, mid 60s central, upper 60s extreme south.

Days suitable for fieldwork 3.3. Soil moisture 1% very short, 16% short, 58% adequate, 25% surplus. Corn much improved, rain at critical silking stage; 47% silked, 38% 1988, 56% avg.; 8% dough, 9% 1988, 21% avg. Double crop cotton planting delayed. Cotton development slow. Sorghum grain 75% planted, 85% 1988, 78% avg. Peanuts 8% fair, 75% good, 17% excellent; 26% blooming, 29% 1988, 40% avg.; 3% pegging, 3% 1988, 10% avg.; Planting virtually complete. Tobacco 3% poor, 32% fair, 64% good, 1% excellent; Harvest just beginning. Watermelons 30% fair, 70% good. Wheat harvest slowed by rain. Rye, other small grains fair to good. Apples 41% fair, 59% good. Peaches 11% fair, 89% good; 38% harvested, 33% 1988, 37% avg. Pastures, hay fair to good. Hay harvest virtually stopped. Cattle, hogs good.

HAWAII: Favorable weather for crop production. Warm, sunny days, scattered, light showers made crop condition fair to good. Regular spraying, irrigation was necessary. Temperatures low 70s to high 80s. Rainfall none to 3.74. Winds variable 10-25 mph.

Days suitable for fieldwork 7.0. Papaya production will be steady. Sugar, pineapple harvesting will be near last weeks level. Improving weather has helped improve watermelon, ginger production.

IDAHO: Temperatures above normal statewide. Precipitation below normal, except southeast corner above normal.

Days suitable for fieldwork 6.0. Soil moisture supplies 14% short, 84% adequate, 2% surplus. Spring wheat 100% emerged, 100% 1988, 96% avg. Winter wheat 25% headed, 31% 1988, 25% avg. Spring wheat 19% boot stage or beyond, 2% headed, 11% 1988, 8% avg. Spring barley 17% boot stage or beyond, 2% headed, 11% 1988, 8% avg. Oats 96% emerged. Potatoes 100% planted, 63% emerged, 73% 1988, 60% avg. Potatoes not yet 12 in. high 99%, 12 in. high or more 1%. Sugarbeets thinned 72%, 74% 1988, 65% avg. Field corn emerged 91%, 94% 1988, 91% avg. Dry beans planted 75%, 63% 1988, 74% avg. Dry beans emerged 29%, 36% 1988, 54% avg. Alfalfa 1st cutting harvested 29%, 35% 1988, 30% avg. Spring wheat, winter wheat, fair, good. Branding, shearing, turning out on ranges primary livestock activities. Forage excellent north. Livestock good to excellent.

ILLINOIS: Temperatures 2 to 4° below normal, mid to upper 70s high to mid 50s low. Precipitation 0.50 to 1.00 in. or more some areas.

Days suitable for fieldwork 5.0. Soil moisture 29% short, 58% adequate, 13% surplus. Corn height avg. 13 in., 20 in. 1988, 19 in. avg.; most advanced 22 in., 29 in. 1988, 30 in. avg. Winter Wheat filled 92%, 100% 1988, 90% avg; turning yellow 60%, 87% 1988, 63% avg; ripe 2%, 25% 1988, 21% avg. Alfalfa 1st crop cut 85%, 97% 1988, 83% avg.; 6% very poor, 12% poor, 35% fair, 44% good, 3% excellent. Red clover 1st crop cut 65%, 81% 1988, 67% avg.; 8% poor, 24% fair, 66% good, 2% excellent. Oats headed 40%, 66% 1988, 64% avg.; filled 12%, 29% 1988, 32% avg; turning yellow 1%, 4% 1988, 3% avg.; 23% fair, 59% good, 18% excellent. Pasture 4% poor, 22% fair, 56% good, 18% excellent.

INDIANA: Temperatures 4° below normal. Highs mid to upper 70s, lows mid 50s. Precipitation light. Rainfall up to 1.00 in.

Days suitable for fieldwork 2.7. Topsoil 44% adequate, 56% surplus. Subsoil 3% short, 61% adequate, 36% surplus. Corn fair to good; 85% emerged, 100% 1988, 98% avg.; 10 in. high, 16 in. 1988, 13 in. avg. Soybean fair to good. Oats 14 in. high, 13 in. 1988, 16 in. avg. Alfalfa hay 63% cut, 94% 1988, 76% avg. Pasture 11% fair, 59% good, 30% excellent. Wheat 16% turning color, 40% 1988, 34% avg. Tobacco 35% set, 73% 1988, 58% avg. Eastern area remains behind in planting corn, soybeans.

IOWA: Temperatures 1 to 5° below normal. Extremes 39°; 91°. Rainfall 0.72 in.; 0.05 to 3.30 in.

Days suitable for fieldwork 5.8. Topsoil 50% short, 50% adequate; subsoil 95% short, 5% adequate. Oats 11% poor, 32% fair, 50% good, 7% excellent. Winter wheat fair to good. Hay 2% very poor, 18% poor, 50% fair, 28% good, 2% excellent. First crop alfalfa 70% harvested, 81% 1988, 61% avg. First crop clover hay 20% harvested, 41% 1988, 27% avg. Corn 60% cultivated first time, 82% 1988, 51% avg.; 12 in. height, tallest corn 20 in. Soybeans 99% emerged, 97%

1988, 83% avg. Soybeans 20% cultivated first time, 40% 1988, 18% avg. Oats 40% headed, 72% 1988, 48% avg. Livestock good to excellent. Pasture 11% very poor, 20% poor, 49% fair, 18% good, 2% excellent.

KANSAS: Temperatures above normal northwest, 3 to 4° below central, eastern, 1° below west central; southwest below normal by 5°.

Days suitable for fieldwork 3.0. Topsoil 23% short, 58% adequate, 19% surplus. Subsoil 65% short, 34% adequate, 1% surplus. Wheat stands continue to turn color, at 55% across State. Wheat 49% very poor, 30% poor, 15% fair, 4% good, 2% excellent. Corn planting 99% complete; 75% good to excellent, 25% fair to poor. Sorghum planting 60% complete; 29% fair to poor, 71% good to excellent. Soybean planting 60% complete; 38% fair to poor, 62% good to excellent. Feed grains 3% surplus, 69% adequate, 28% short; range, pasture 38% adequate, 62% short.

KENTUCKY: Cool, wet weather. Daytime highs upper 70s, 5° below normal; lows upper 50s, near normal. Rainfall 1.25 in., 0.25 in. above normal.

Days suitable for fieldwork 3.5. Soil moisture 5% short, 76% adequate, 19% surplus. Corn 14 in. height; most advanced fields avg. 24 in. Most single crop soybeans planted. Burley tobacco 82% set, 93% 1988, 83% avg. Condition set tobacco fair to good. Barley harvest active primary growing area. Wheat harvest beginning. Hay, pasture crops good to excellent.

LOUISIANA: Temperatures 2° to 3° below normal. Extremes 59°; 94°. Rainfall 0.67 to 4.17 in.

Days suitable for fieldwork 1.5. Soil moisture 17% adequate, 83% surplus. Spring plowing 99%, 100% 1988, 100% avg. Corn 42% silked, 34% 1988, 54% avg.; 9% dough stage, 3% 1988, 14%; 37% fair, 58% good, 5% excellent. Steps to control stinkbugs have been implemented. Cotton 99% planted, 99% 1988, 100% avg.; 98% emerged, 88% 1988, 97% avg.; 11% squaring, 19% 1988, 24% avg.; 14% poor, 77% fair, 9% good. Hay first cutting 59%, 77% 1988, 76% avg. Peaches 10% harvested, 18% 1988, 19% avg.; 27% poor, 53% fair, 20% good. Rice 100% planted, 100% 1988, 100% avg.; 97% emerged, 100% 1988, 99% avg.; none headed, 1% 1988, 3% avg.; 4% poor, 38% fair, 58% good. Sheath blight is a major concern at this time. Sorghum 93% planted, 95% 1988, 98% avg.; 88% emerged, 89% 1988, 95% avg.; 71% fair, 29% good. Soybeans 61% planted, 64% 1988, 78% avg.; 54% emerged, 44% 1988, 65% avg.; 12% poor, 58% fair, 28% good 2% excellent. Some replanting continues. Sugarcane 11% fair, 79% good, 10% excellent. Sweet potatoes 49% planted, 52% 1988, 73% avg.; 38% fair, 62% good. Wheat harvested 72%, 95% 1988, 84% avg. Vegetables 5% poor, 56% fair, 39% good. Pasture 2% poor, 13% fair, 83% good, 2% excellent. Livestock 4% fair, 94% good, 2% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 2.09 in. Temperature 73°, normal 69°. Extremes 51°; 96°.

Days suitable for fieldwork 3.2. Topsoil 74% adequate, 26% surplus. Subsoil 79% adequate, 21% surplus. Corn 90% planted, 96% 1988, 98% avg. Soybeans 43% planted, 63% 1988, 54% avg. Tobacco 42% transplanted, 80% 1988, 70% avg. Wheat, barley, oats, rye good. Wheat 100% headed, 99% 1988, 100% avg. Barley 92% turned color, 87% 1988, 99% avg. Apples good, below average fruit set. Peaches fair to good, below average fruit set.

DELAWARE: Precipitation 2.22 in. Temperature 74°, normal 68°. Extremes 54°; 89°.

Days suitable for fieldwork 3.1. Topsoil 71% adequate, 29% surplus. Subsoil 100% adequate.

Corn 99% planted, 98% 1988, 98% avg. Soybeans 59% planted, 56% 1988, 52% avg. Wheat, barley, rye good. Barley 86% turned color, 87% 1988, 94% avg. Apples good, average fruit set. Peaches fair, below average fruit set.

MICHIGAN: Temperatures 6° below to 2° above normal. Extremes 30°; 87°. Precipitation none to 3.11 in. across State.

Days suitable for fieldwork 4.0. Soil moisture 55% adequate, 45% surplus. Corn 100% planted, 100% 1988, 99% avg.; 5% poor, 20% fair, 50% good, 25% excellent. Soybeans 80% planted, 95% 1988, 90% avg. Wheat 75% headed, 95% 1988, 80% avg.; 5% poor, 20% fair, 50% good, 25% excellent. Dry beans 15% planted, 35% 1988, 40% avg. Major activities: Soybean, dry bean, potato planting, hay, asparagus harvest. Pondered water in fields means some vegetable acreage will be replanted or lost. Asparagus harvest 85% complete. Most fruit crops look better than expected after spring freeze.

MINNESOTA: Temperatures 2° to 5° below normal. Extremes 32°; 93°. Precipitation 0.03 to 0.73 in. Greatest weekly total 2.09 in.

Days suitable for fieldwork 5.8. Topsoil 20% very short, 40% short, 40% adequate. Spring wheat 45% jointing, 78% 1988, 49% avg. Oats 53% jointing, 88% 1988, 58% avg. Barley 42% jointing, 77% 1988, 47% avg. Corn 58% cultivated, 77% 1988, 44% avg.; 8 in. height, 14 in. 1988, 9 in. avg. Soybeans 84% emerged, 94% 1988, 82% avg.; 19% cultivated, 51% 1988, 22% avg.; 2 in. height, 4 in. 1988, 2 in. avg. Sunflowers 96% planted, 99% 1988, 94% avg. Flax 89% planted, 99% 1988, 93% avg. Dry edible beans 99% planted, 99% 1988, 96% avg. Sweet Corn 92% planted, 96% 1988, 88% avg. Alfalfa Hay 36% cut, 64% 1988, 49% avg. Soybean 2% very poor, 5% poor, 56% fair, 36% good, 1% excellent. Corn 3% poor, 46% fair, 51% good. Spring wheat 2% poor, 14% fair, 76% good, 8% excellent.

MISSISSIPPI: Cool, wet. Temperatures 3° below normal. Extremes 52°; 91°. Rainfall 3.59 in., 2.74 in. above normal. Days suitable for fieldwork 0.6, 6.4 1988, 5.0 avg. Soil moisture 40% surplus, 60% excessive. Corn fair; 8% silking, 8% 1988, 21% avg. Cotton fair; 100% planted, 100% 1988, 100% avg.; 15% squaring, 18% 1988, 22% avg. Approx. 30% acreage replanted. Hay 25% harvested, 35% 1988, 34% avg. Rice fair; 97% planted, 100% 1988, 100% avg. Sorghum fair; 87% planted, 97% 1988, 94% avg. Soybeans fair; 44% planted, 58% 1988, 66% avg. Sweet potatoes 83% planted, 87% 1988, 81% avg. Wheat fair to poor; 22% harvested, 55% 1988, 49% avg. Peaches poor; 24% harvested, 10% 1988, 15% avg. Pastures, livestock good. Activities: Shopwork. Rain delayed wheat harvest, soybean planting, applying cotton insecticides.

MISSOURI: Temperatures 2 to 6° below normal. Rainfall varied, 0.50 in. northwest to over 5.00 in. parts of Bootheel, most areas 1.00 to 2.00 in.

Days suitable for fieldwork 4.4. Topsoil 31% short, 65% adequate, 4% surplus. Subsoil 64% short, 34% adequate, 2% surplus. Row crops helped by rain except southeast too much rain. Single crop soybeans 85% or more complete, except southwest. Wheat 84% turning color, 95% 1988, 78% avg. Wheat harvest southeast delayed by muddy fields. Alfalfa hay first cutting 86%, 96% 1988, 84% avg. Other hay 48% harvested, 66% 1988, 47% avg. Pasture 3% very poor, 13% poor, 44% fair, 39% good, 1% excellent.

MONTANA: Temperatures 1 to 7° above normal. Early part week dry, weekend all areas received some.

moisture, heaviest northwest, 0.10 in. to 1.67 in. statewide.

Days suitable for fieldwork 5.9. Topsoil 10% short, 86% adequate, 4% surplus. Subsoil 20% short, 78% adequate, 2% surplus. Barley 1% poor, 17% fair, 65% good, 17% excellent; 98% planted, 100% 1988, 100% avg.; emerged 81%, 100% 1988, 100% avg.; in boot 4%. Oats 1% poor, 15% fair, 65% good, 19% excellent; 98% planted, 100% 1988, 100% avg.; 78% emerged, 100% 1988, 100% avg.; in boot 3%. Corn 96% planted, 100% 1988, 99% avg.; emerged 23%. Dry beans 94% planted, 100% 1988, 100% avg. Potatoes 100% planted, 100% 1988, 94% avg.; 38% emerged. Pasture, range feed 1% very poor, 5% poor, 21% fair, 53% good, 20% excellent. Cattle, calves moved to summer ranges 85%, 92% 1988, 86% avg. Sheep, lambs moved to summer ranges 86%.

NEBRASKA: Temperatures 1 to 3° below normal. Extremes 40°; 93°. Precipitation traces to 2 in.

Days suitable for fieldwork 5.7. Topsoil 73% short, 27% adequate. Subsoil 91% short, 9% adequate. Winter wheat 25% turning, 20% 1988, 20% avg. Russian wheat aphids in Panhandle, southwest. Less wheat in very poor category due to grazing or destroying the worst fields. Corn 99% emerged, 100% 1988, 96% avg. Corn borer moths in east central district. Sorghum 80% emerged, 86% 1988, 74% avg. Soybeans 92% emerged, 90% 1988, 75% avg. Bean leaf beetles east central to northeast region. Alfalfa hay 4% very poor, 32% poor, 62% fair, 2% good. 75% first cutting, 77% 1988, 70% avg. Yields well below normal. Pasture, range feed 84% short, 16% adequate. Cool season pastures nearly finished for year, due to lack of early moisture. Operators looking for hay, pastures. Main activities: Planting soybeans, sorghum; cultivating, spraying; cutting hay; irrigating.

NEVADA: Wet, northern, central areas. Scattered, trace south. Afternoon, evening thundershowers common entire period. Temperatures several degrees above normal. Extremes 32°; 102°.

Alfalfa hay harvest slowed by frequent showers. Hay rain damaged. Ranges continued to improve from added moisture.

NEW ENGLAND: Precipitation less than 1.20 in. northern Maine, 2.75 to 3.75 in. remainder. Middletown, Massachusetts received 4.82 in. Temperatures mid 50s northern Maine to mid 60s southern coast. Temperatures slightly below normal. Days suitable for fieldwork 3.0.

Fieldwork progress 7.0 days behind. Soil moisture 15% adequate, 85% surplus. Grazing 50% adequate, 50% surplus. Maine potatoes 90% planted, 100% 1988, 95% avg.; 40% emerged, 49% 1988, 32% avg.; good. Connecticut River Valley potatoes 99% planted, 100% 1988, 99% avg.; 87% emerged, 99% 1988, 91% avg.; fair to good. Maine oats 75% sown, 99% 1988, 97% avg.; good to excellent. Field corn 85% planted, 93% 1988, 90% avg.; 70% emerged, 81% 1988, 73% avg.; fair to good. Sweet corn 80% planted, 89% 1988, 84% avg.; 70% emerged, 74% 1988, 70% avg.; fair to good. First crop hay 10% cut, 53% 1988, 33% avg.; fair to good. Shade tobacco 90% transplanted; fair. Outdoor tobacco 50% transplanted; fair. Apple set average; fruit drop light; scab infection light to average. Strawberries average to heavy; blueberries average. Cranberries in very early blossom stage. Major farm activities: Planting, some hay, haylage cut, spraying, early strawberry harvesting.

NEW JERSEY: Temperatures below normal north, normal central, south. Extremes 42°; 87°. Rainfall 2.65 in. north, 3.38 in. central, 2.68 in. south. Heaviest 24-hour total 2.76 in., 6th,

7th. Estimated soil moisture percent field capacity averaged 91% north, 96% central, 93% south. Four inch soil temperatures averaged 67° north, 71° central, 73° south.

Soil moisture ample to excessive. Fieldwork very active as conditions permit. Progress well behind normal on many crops. June drop in progress on fruit. Spring vegetable harvest increased. Early field corn growth improved; planting behind schedule. Early soybeans up 4 to 5 inches; planting well behind schedule. Hay, straw baling advanced as conditions permitted. Pasture growth heavy.

NEW MEXICO: Temperatures near normal most areas; measurable precipitation central, eastern areas.

Days suitable for fieldwork 6.4. Soil moisture 92% short, 8% adequate. Wheat harvest underway, estimated 8% complete; 50% very poor, 35% poor, 10% fair, 5% good, unchanged from past several weeks. Cotton squaring 20%, well ahead of 5 year average of 7%; 15% poor, 50% fair, 30% good, 5% excellent. Cattle 25% poor, 58% fair, 17% good. Sheep 20% poor, 50% fair, 30% good. Range, pasture 20% very poor, 60% poor, 10% fair, 10% good.

NEW YORK: Wet, warm. Rain each day. Western Plateau, Central Lakes regions received near normal rainfall, other areas exceeded their averages. Rainfall 150% of normal in the Northern Plateau to 300% in the Hudson Valley, 500% in the Coastal Division. Amounts ranged from 0.47 in. at Syracuse to 3.47 in. at Bridgehampton. Temperatures near normal in the eastern, western Plateaus, were above average elsewhere. High temperature 86° at La Guardia Airport, low 36° at Newcomb.

Days suitable for fieldwork 3.0. Soil moisture surplus to excessive. Wetness continued to delay planting activities. Corn 75% planted, 90% 1988, 85% avg. Pasture, wheat, hay good. Alfalfa first cutting 5%, 28% 1988, 22% avg. Clotim 5% cut, 23% 1988, 13% avg. Early planted peas, snap beans, good. Oswego County onions good. Sweet corn planting slow due to wetness, progress behind normal. Orange County onions need sun, warmer weather. Lettuce harvest delayed due to wet fields. Lake Ontario tree fruits good. Chemical thinning on apples underway.

NORTH CAROLINA: Temperatures 2 to 4° above normal across State. Extremes 46°; 97°. Precipitation 0.53 to 4.85 in.

Days suitable for fieldwork 3.6. Soil moisture 5% short, 65% adequate, 30% surplus. Pasture 15% fair, 74% good, 11% excellent. Livestock feed from pasture 84%. Burley transplanted 86%, 91% 1988, 80% avg. Field tobacco 42% fair, 57% good, 1% excellent. Irish potato 3% poor, 38% fair, 53% good, 6% excellent. Sweet potatoes 64% transplanted, 77% 1988, 73% avg.; 27% fair, 73% good. Peaches 9% very poor, 16% poor, 41% fair, 34% good; 10% harvested. Apple 13% very poor, 4% poor, 42% fair, 37% good, 4% excellent. Truck crops 31% fair, 67% good, 2% excellent. Sorghum 60% planted, 82% 1988, 72% avg. Peanuts 98% planted, 100% 1988, 100% avg. Peanut 6% poor, 50% fair, 44% good. Hay 21% fair, 74% good, 5% excellent. First cutting 76% complete, second cutting 15% complete. Hay, roughage supplies 1% short, 85% adequate, 14% surplus. Harvesting completed: peaches 10%; wheat 7%, 21% 1988, 28% avg.; oats 13%, 40% 1988, 37% avg.; barley 21%, 46% 1988, 44% avg.; rye 23%, 27% 1988, 32% avg.. Major activities: Planting soybeans, cotton, peanuts, sorghum, other spring crops. Other activities: Spraying crops; cultivating tobacco; harvesting small grains, strawberries, blueberries, cabbage; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures 2° below average northeast, east central, 2° above average northwest. Extremes 30° west central; 92° south central. Northern one-third of the State received from 0.18 to 0.45 in. of rain, two-thirds only a trace.

Days suitable for fieldwork 6.3. Soil moisture declined. Topsoil 33% short, 65% adequate, 2% surplus. Subsoil 10% very short, 77% short, 13% adequate. Spring wheat 20% fair, 75% good, 5% excellent; durum 27%, 66%, 7%; oats 29%, 70%, 1%; barley 18%, 75%, 7%. Spring wheat 98% emerged, 22% jointed, 2% boot and beyond; durum wheat 96%, 12%, 1%; oats 95%, 19%, 3%; barley 99%, 27%, 2%. Row crop planting near completion. Row crop emergence slightly behind average. Corn 84% emerged, four-year average 87%; flax 69%, 80%; soybeans 80%, 87%; potatoes 68%, 85%; sunflower 64%, 69%; dry edible beans 70%, 88%. Pasture 24% poor, 55% fair, 21% good; furnished 91% roughage requirements.

OHIO: High temperatures mid to upper 70s, up to 7° below normal in central, southern areas. Low temperatures mid to upper 50s, near normal throughout State. Rainfall 0.40 to 1.50 in. in central, south, lesser amounts in northwest, north central. Rainfall 0.30 to 0.75 in. below normal in central, north, 0.30 to 0.80 in. above normal in south. Growing days accumulated 100 to 120 most areas. Soil temperatures in mid to upper 60s.

Days suitable for fieldwork 3.3. Soil moisture 45% adequate, 55% surplus. Wet weather delaying planting. Some farmers considering soybeans to replace corn, due to late start, damp weather. Corn fair to good. Emerged soybeans damaged by bean leaf beetles. Winter wheat fair to good. Heading of oats progressing. Hay cutting started; yields lowered by weevils. Strawberry harvest continuing. Planting of potatoes and processing tomatoes advancing. Tobacco transplantation behind schedule, but progressing.

OKLAHOMA: Temperatures 6° below normal southwest to 2° below normal east central. Precipitation 0.76 in. southeast to 4.58 in. central.

Days suitable for fieldwork 2.3. Topsoil 55% adequate, 45% surplus. Subsoil 100% adequate. Wheat 10% very poor, 20% poor, 60% fair, 10% good; 100% heading, 100% 1988, 100% avg.; 20% harvested, 25% 1988, 15% avg. Light to heavy hail damage. Wheat sprouting in heads south central. Cotton 75% fair, 25% good; 80% planted, 80% 1988, 55% avg.; none squaring, 1% 1988, none avg. Some replanting needed. Sorghum 55% fair, 30% good, 15% excellent; 55% planted, 60% 1988, 50% avg. Heavy rains hampered planting. Soybeans 70% planted, 55% 1988, 65% avg. Peanuts 80% planted, 75% 1988, 80% avg. Corn 2% tasseling, 3% 1988, 5% avg. Pastures good. Cattle good; marketings stable, prices up from preceding week.

OREGON: Temperatures normal to slightly above all areas. Rainfall statewide, 0.10 in. North Bend, Lakeview, 0.25 in. Ontario. All other areas dry.

Soil moisture 35% short, 80% adequate. Winter wheat, other grains good, need rain most areas. Winter wheat reseeded Gilliam County. Continued problems with Russian wheat aphid Wasco and Umatilla Counties with spraying Pendleton. Barley turning color, expect harvest to begin 19th, 20th Wasco. Last of barley planting continued, most emerged Klamath County. Corn looked good Milton-Freewater area. Red clover cut for silage Willamette Valley. Recent frost forced early first alfalfa cutting Klamath County. Hay harvest full swing most areas with hay conditions marginal Gilliam, Clatsop Counties, second cutting expected soon Milton-Freewater. Strawberry harvest underway west with good early crop but hot weather

reduced quality Washington, Clackamas Counties. Hail damage to strawberries, blueberries Clackamas. Blueberries, cranberries below average Clatsop County. Cranberries showed early berry set, growers applied fertilizer to enhance fruit set Coos County. Apples, pears looked good with June apple drop Lane County, second cover pear sprays started, be finished 16th Jackson County. Pear, apple thinning. Coddling moth sprays applied, higher elevation hail damage Hood River County. Cherries looked good Wasco County, cherry fruit fly emerged Memorial Day weekend Hood River County. Potato planting being finished, east. Snap beans, other vegetable crops looked good west. Mint fields and hop yards looked good Willamette Valley. Range, pasture good to excellent east, fair to good with moisture shortage slowing pasture growth west. Foothill pastures started to dry out Jackson County. Livestock good to excellent east, some pasture pneumonia in calves Klamath County. Livestock fair to good, lamb weights down due to cool, dry weather Clackamas County.

PENNSYLVANIA: Scattered showers, thunderstorms. Temperature 64°; normal 64°. Extremes 40°; 87°. Precipitation 1.11 in., 0.24 in. above normal.

Days suitable for fieldwork 3.0. Soil moisture none short, 47% adequate, 53% surplus. Corn 70% planted, 91% 1988, 92% avg.; 3 in. height, 6 in. 1988, 7 in. avg.; 1% very poor, 3% poor, 33% fair, 41% good, 22% excellent. Tobacco 10% transplanted, 52% 1988, 60% avg. Soybeans 34% planted, 66% 1988, 70% avg.; 3% poor, 53% fair, 33% good, 11% excellent. Barley 72% heading or headed, 60% 1988; 28% turning yellow, 40% 1988. Wheat 5% boot, 3% 1988; 93% heading or headed, 92% 1988; 2% turning yellow, 5% 1988; 3% poor, 16% fair, 51% good, 30% excellent. Oats 7% boot, 9% 1988; 93% heading or headed, 91% 1988; 2% poor, 34% fair, 39% good, 25% excellent. First cutting alfalfa 34% complete, 64% 1988. First cutting clover-timothy 15% complete, 43% 1988. Hay stands fair. Feed from pastures average. Activities: Spring plowing; planting corn, soybeans, potatoes, other vegetables; transplanting tobacco; harvesting hay, haylage, strawberries, vegetables; weed control; spreading fertilizer; caring for livestock; machinery maintenance, fence work.

SOUTH CAROLINA: Rainfall 2 to 3°. Temperatures near normal.

Days suitable for fieldwork 4.3. Soil moisture 4% very short, 36% short, 60% adequate. Cotton 2% poor, 50% fair, 48% good; 98% planted, 100% 1988, 100% avg.; 3% squaring, 1% 1988, 14% avg. Soybeans 60% fair, 40% good; 51% planted, 66% 1988, 60% avg. Corn fair to good. Tobacco fair to good; 1% topped, 3% 1988, 5% avg. Peanuts fair to good. Sorghum fair to good; 38% planted, 55% 1988, 64% avg. Sweet potatoes fair to good; 50% planted, 51% 1988, 64% avg. Watermelons fair to good; 95% planted, 96% 1988, 99% avg. Cucumbers, snap beans, fair to good; tomatoes good. Peaches fair to good; 12% harvested, 9% 1988, 11% avg. Wheat good; 89% ripe, 87% 1988, 88% avg.; 50% harvested, 45% 1988, 46% avg. Oats good; 84% ripe, 86% 1988, 84% avg.; 30% harvested, 47% 1988, 49% avg. Grain hay good; 84% harvested, 89% 1988, 90% avg. Pastures fair to good.

SOUTH DAKOTA: Temperatures normal to 2° below. Extremes 32°; 98°. Precipitation below normal. No rain past week. Growing season precipitation 1.10 in. above to 4.35 in. below normal.

Winter wheat deteriorating, fair. Spring wheat good to fair. Corn, soybean good. Grain sorghum fair to good. Spraying, cultivating, cutting alfalfa, fencing major activities.

TENNESSEE: Weak cold fronts 5th, 9th caused heavy rainfall. Warm front west 11th produced severe thunderstorms. Temperatures 1° below normal west, 5° above normal elsewhere. Precipitation above normal all areas. Excesses 0.18 in. west, 2.51 in. Plateau.

Days suitable for fieldwork 2.1. Soil moisture 1% short, 51% adequate, 48% surplus. Corn 3% tasseling, 3% 1988, 5% avg.; 1% very poor, 17% fair, 70% good, 12% excellent. Tobacco 78% transplanted, 89% 1988, 85% avg. Wheat 92% turning color, 100% 1988, 97% avg.; 1% very poor, 1% poor, 41% fair, 54% good, 3% excellent. Hay 1% very poor, 11% fair, 75% good, 13% excellent. Fieldwork delayed by rain. Pastures, crops growing well.

TEXAS: Scattered showers, thunderstorms, Panhandle, across north, east hardest hit by severe weather, heavy rainfall. Excessive soil moisture levels, numerous flash flood watches issued. Thunderstorms less numerous south, few areas experienced heavy rains. Extreme west, southwest very little rainfall. Temperatures west, north below normal. Elsewhere, temperatures near or slightly above normal. Precipitation above normal west, north, below normal south, extreme west.

Crops: Small grain harvest winding down central, Blacklands. Rain slowed harvest Cross Timbers, Low Plains. Scattered hail caused additional damage to some fields High Plains. Cooler temperatures slowed maturing remaining fields. Harvest should begin High Plains as conditions open up. Corn fields that escaped hail High Plains benefitted rain, showing good progress. Crop progress very good Blackland, fields continued to silk. Fields central entering dough stage. Portions central remained dry; progress poor. Many fields south, valley being grazed, poor development. Surviving fields denting. Corn 52% silked, 53% 1988, 53% avg.; 14% doughing, 18% 1988, 25% avg.; none dented, 1% 1988, 6% avg. Grain sorghum 31% headed, 37% 1988, 41% avg.; 12% turning color, 12% 1988, 15% avg.; none maturing, 1% 1988, 2% avg. Cotton fields received additional damage scattered areas High Plains from more hail. Many producers plant to alternative crops. Irrigated fields good progress. Planting delayed by rains over Plains. Fields squaring Blacklands, central. Producers limited spraying valley or better fields. Cotton setting bolls 7%, 9% 1988, 7% avg. Rice producers continued normal field activities. Peanut planting underway Cross Timbers. Rain early week delayed progress. Rain parts central saved some fields. South producers still need rain to plant. Soybean planting about complete Upper Coast. Early stands good stands; more rain needed. Fields northeastern part setting pods. Planting continued part week Plains. Additional planting may occur on hailed out fields. Sugarbeet progress good, some thinning. Other fields crops: Oats 45% harvested, 47% 1988, 48% avg. Peanuts 40% planted, 48% 1988, 49% avg. Soybeans 62% planted, 52% 1988, 60% avg. Sunflowers 42% planted, 21% 1988, 47% avg.

Commercial Vegetables: Rio Grande Valley, melon production good, prices low. Irrigation citrus steady to limit fruit drop. San Antonio-Winter Garden, limited watermelon harvest. Carrot, onion harvest continued. East Texas, sweet corn, tomato harvest active. Some disease continued. Sweetpotato planting continued. High Plains, hail caused considerable damage onions, potatoes. Peppers, carrots some damage. Potato harvest begin soon Knox-Haskell area. Trans-Pecos, cabbage, some onions harvested. Melon harvest increased. Peach harvest increasing Hill Country, fair yields. Picking also continued east.

Range and Livestock: Ranges, pasture norther, central improved growth with rain. Haying activities continued many areas as weather permitted. Grass virtually nonexistent parched areas south, Valley. Livestock to market because lack grazing those areas.

UTAH: Precipitation light. Temperatures none to 2° below normal.

Days suitable for fieldwork 6.3. Soil moisture 79% short, 21% adequate. Winter wheat 79% headed, 74% 1988, 69% avg. Spring wheat 58% boot or better, 70% 1988, 51% avg.; 25% headed, 25% 1988, 32% avg. Barley 60% boot, 70% 1988, 51% avg.; 30% headed, 36% 1988, 36% avg. Oats 53% jointed, 47% 1988, 45% avg.; 28% boot, 27% 1988, 28% avg. Corn 8 in. high, 8 in. 1988, 10 in. avg. Alfalfa 1st cutting 56% complete, 34% 1988, 38% avg. Second cutting 1%, 18% 1988, 9% avg. Livestock moved to summer range 71% cattle, 48% sheep. Range, pasture dry. Major farm activities: Cutting hay, moving cattle, sheep, spraying for alfalfa weevil, mites.

VIRGINIA: Wet, warm temperatures 7° above normal. Rainfall 0.80 in. central to 7.20 in. south.

Days suitable for fieldwork 2.3. Topsoil 45% adequate, 55% surplus. Corn 94% planted, 94% 1988, 95% avg. Soybeans 50% planted, 44% 1988, 43% avg. Flue-cured tobacco 99% transplanted, 96% 1988, 98% avg. Fire-cured tobacco 80% transplanted, 69% 1988, 77% avg. Burley tobacco 36% transplanted, 90% 1988, 76% avg. Corn 10% poor, 54% fair, 34% good, 2% excellent. Soybeans 10% fair, 50% good. Pastures 6% fair, 55% good, 39% excellent. Tobacco 26% poor, 9% fair, 65% good. Alfalfa 2% poor, 12% fair, 58% good, 28% excellent. Other hay 3% poor, 16% fair, 56% good, 25% excellent. Barley harvest underway. Active hay cutting.

WASHINGTON: Temperatures 3° to 7° above normal, west; 4° below normal to 9° above normal, east. Precipitation none to 0.02 in., west; none to 0.27 in., east.

Days suitable for fieldwork, 6.8. Soil moisture 15% adequate, 5% surplus. Range, pasture 20% short, 80% adequate. Hay, other roughage 19% short, 80% adequate, 1% surplus. First cutting alfalfa hay 55% completed, in progress across state. Winter wheat 45% fair, 55% good; 80% headed, 68% 1988, 65% avg. Barley 45% fair, 55% good; 35% headed, 48% 1988, 38% avg. Spring wheat 25% headed, 45% 1988, 38% avg. Potatoes 98% emerged. Dry beans 98% planted. Major activities: Spraying weeds in small grains; thinning apples, harvesting of hay, radishes, lettuce, rhubarb, strawberries, cherries.

WEST VIRGINIA: Temperature 67°, 1° above to 4° below normal. Extremes 45° Greenbank; 88° Preston. Precipitation 1.69 in., 0.12 to 1.53 in. above normal.

Days suitable for fieldwork 2.6. Soil moisture 32% adequate, 18% surplus. Wheat, barley good, heading complete. Oats good, 95% planted; 85% emerged. Corn excellent to good; 85% planted, 73% emerged. Tobacco fair; 73% set. Hay good to excellent, 1st cut 36% complete. Apples fair. Peaches poor. Farm activities: Cutting hay, planting corn, tobacco setting, shearing sheep.

WISCONSIN: Temperature 60°, 5° below normal. Extremes 28°; 90°. Precipitation 0.10 to 0.60.

Days suitable for fieldwork 5.9. Soil moisture 23% short, 69% adequate, 8% surplus. Pasture 78% of normal, 51% 1988, 76% avg. General condition of crops 2% poor, 15% fair, 76% good, 7% excellent. Winter wheat 1% very poor, 15% fair, 56% good, 18% excellent. Corn 1% poor, 13% fair,

70% good, 16% excellent; 7 in. height, 10 in. 1988, 8 in. avg. Soybeans 93% planted, 94% 1988, 90% avg. Oats 4% headed, 28% 1988, 13% avg. First cut hay 26% completed, 76% 1988, 51% avg. Many alfalfa weevils present.

WYOMING: Temperatures below normal. Rainfall above normal except northeast.

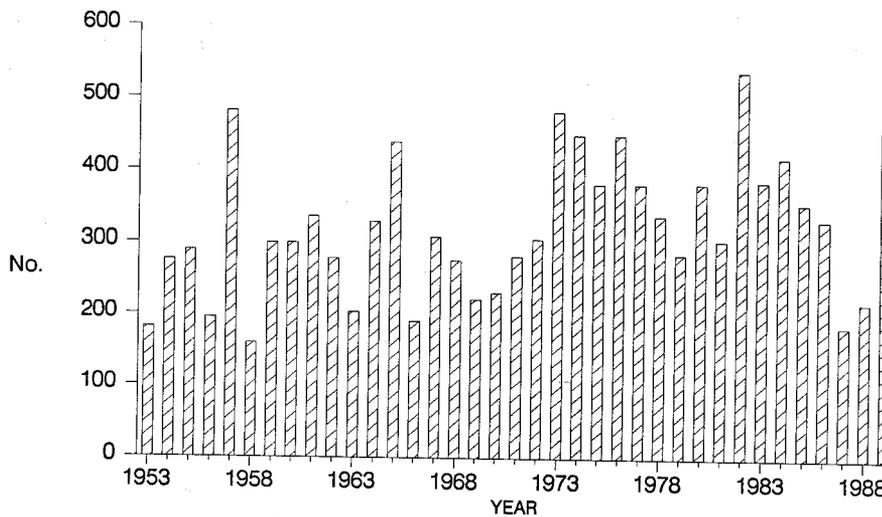
Days suitable for fieldwork 6.0. Topsoil 52% short, 48% adequate. Irrigation water limited many areas. Spring crops good. Spring wheat most emerged, 100% 1988, 95% avg. Oats 95% emerged,

95% 1988, 95% avg. Barley 95% emerged, 100% 1988. Corn 95% planted, 95% 1988; 75% emerged, 90% 1988, 90% avg. Potatoes planted, 90% 1988; 65% emerged, 80% 1988, 75% avg. Dry beans 80% planted, 80% 1988, 90% avg.; 40% emerged, 45% 1988, 60% avg. Alfalfa fair to good. Winter wheat: 5% poor, 65% fair, 30% good; 15% boot, 45% 1988; 10% headed, 40% 1988. Livestock good. Ranges, pastures 10% poor, 55% fair, 35% good. Stockwater short 60% State. Livestock moved to summer pastures; 70% cattle, 65% sheep.

Figure 1

TOTAL NUMBER OF TORNADES, U.S.A.

SPRING TOTAL, 1953-1989



National Climatic Data Center, NOAA

Unusually Active Severe Weather This Spring

According to preliminary statistics, the spring of 1989 had the fourth highest number of tornadoes for the contiguous United States in the last 37 years (fig. 1). The 457 tornadoes this spring compares with the long-term mean of 321 tornadoes. This spring also follows two unusual quiet springs, with the spring tornado count ranking 1988 as seventh lowest and 1987 as third lowest.

International Weather and Crop Summary

June 4-10, 1989

HIGHLIGHTS

USSR ... In Western USSR, hot, dry weather develops in major winter wheat producing areas of the southeast, stressing wheat in the reproductive-filling stages. In the New Lands, unseasonable warm, dry weather covers spring grains in the west, while light showers and unseasonably cool weather cover crops in the east.

EUROPE ... Widespread rain continues to benefit crops and reduce dryness across the north.

SOUTH ASIA ... Scattered showers continue over much of central, southern, and eastern India, improving planting conditions.

EASTERN ASIA ... Rain covers much of the region, favoring previously dry northwestern crop areas but causing flooding in sections of the east.

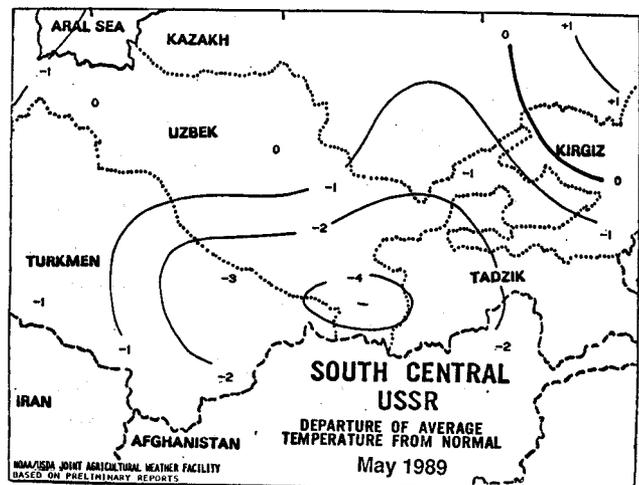
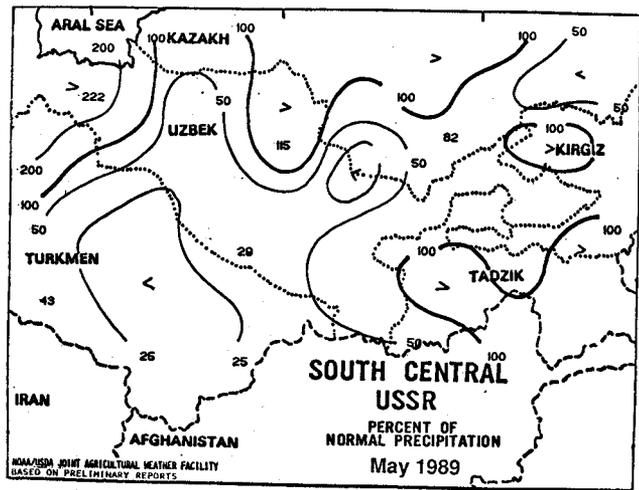
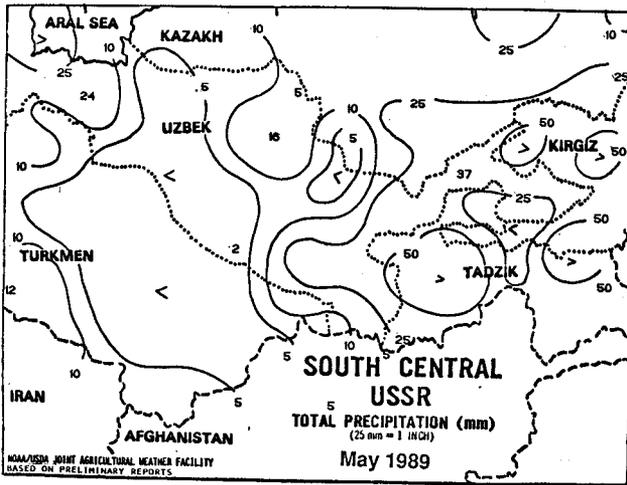
SOUTHEAST ASIA ... Widespread showers across Thailand maintain favorable conditions for grain establishment. Tropical Storm Dot passes over the Philippines.

SOUTH AMERICA ... Beneficial rain helps wheat growth in south-central Brazil. Dry weather returns to Argentina.

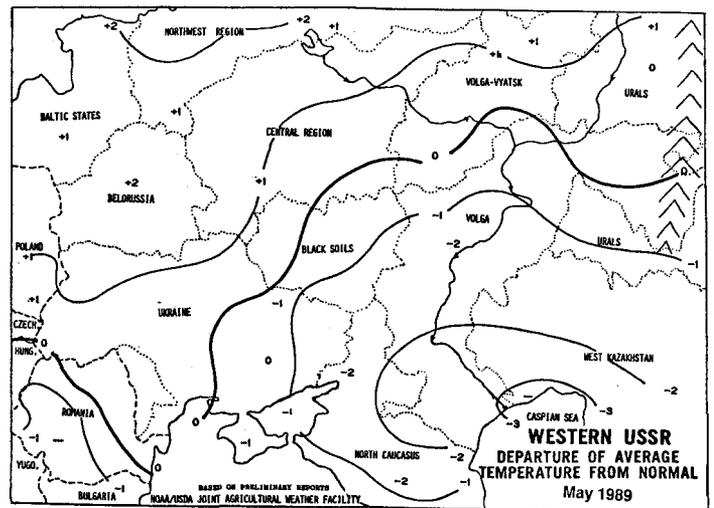
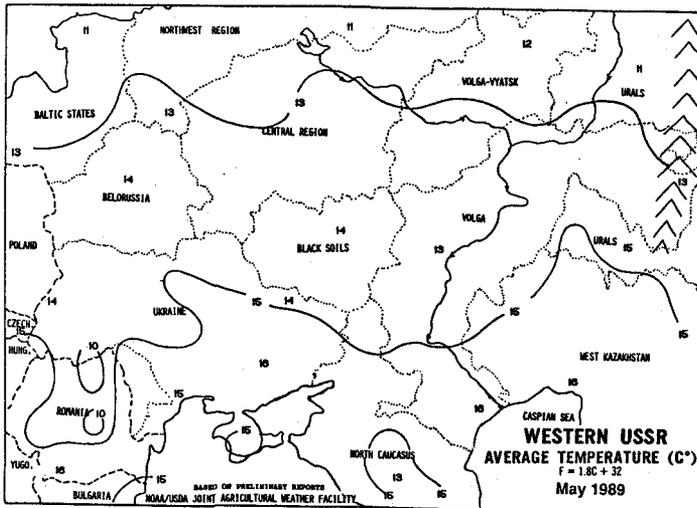
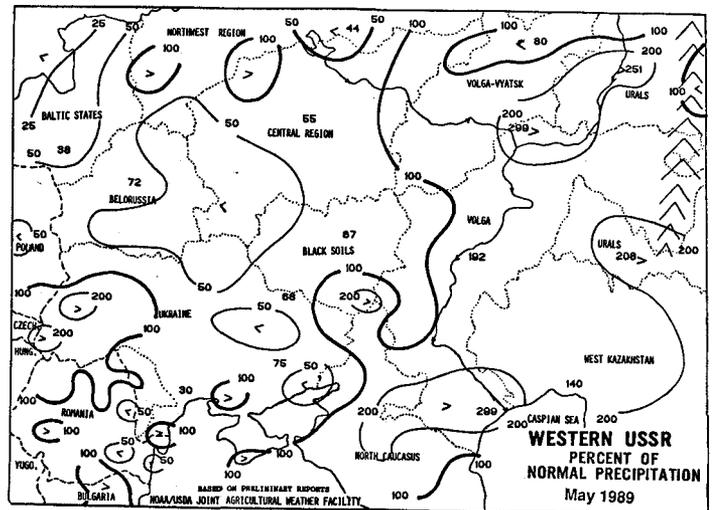
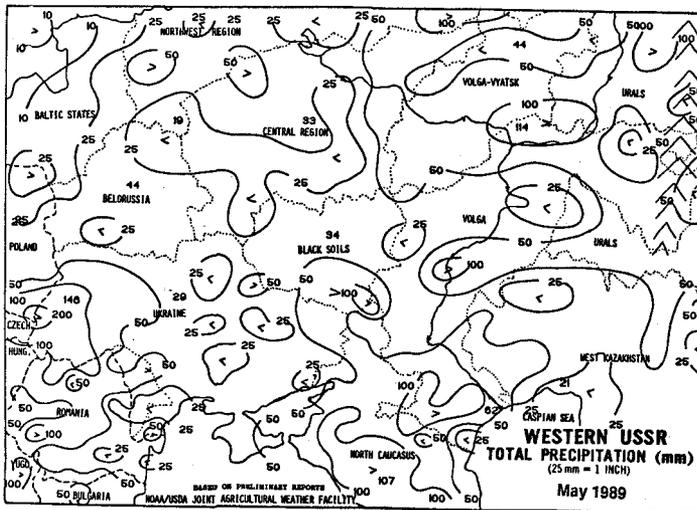
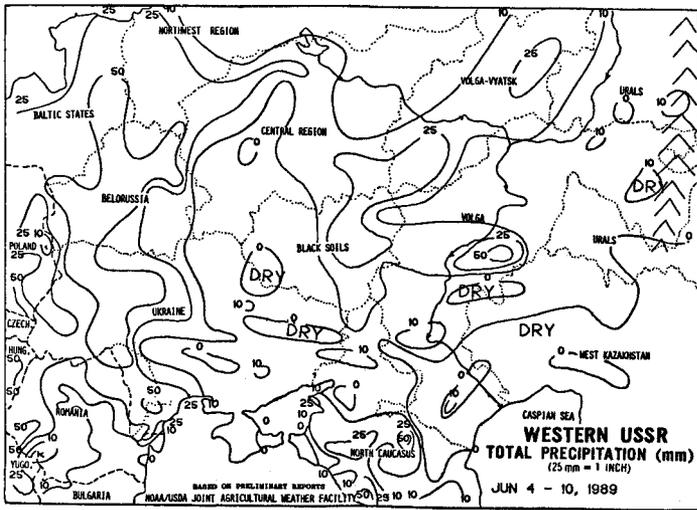
AUSTRALIA ... Rain continues to favor winter grains in most crop areas.

CANADA ... Needed rain reaches Manitoba, but local freezing temperatures possibly burn some vegetative growth.

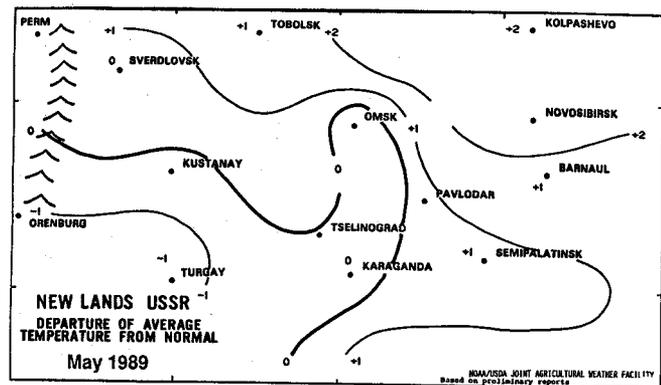
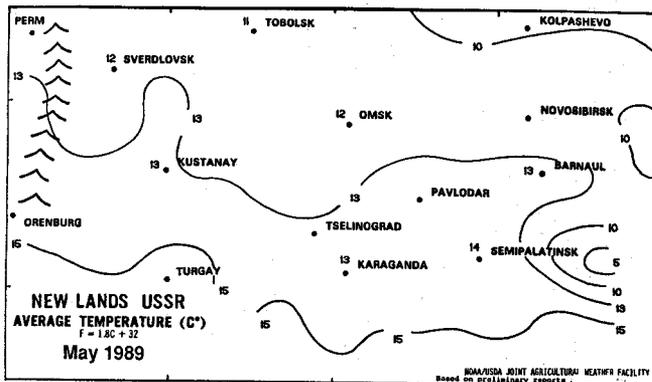
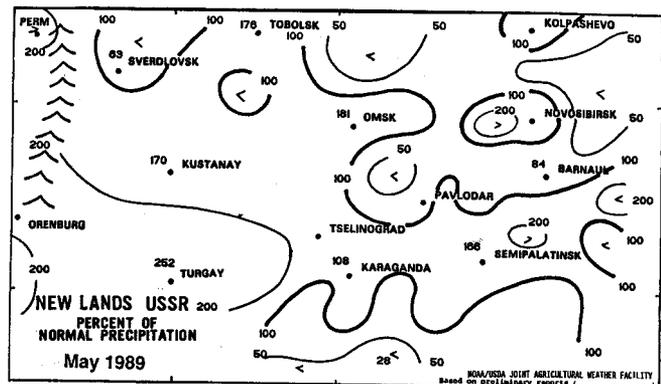
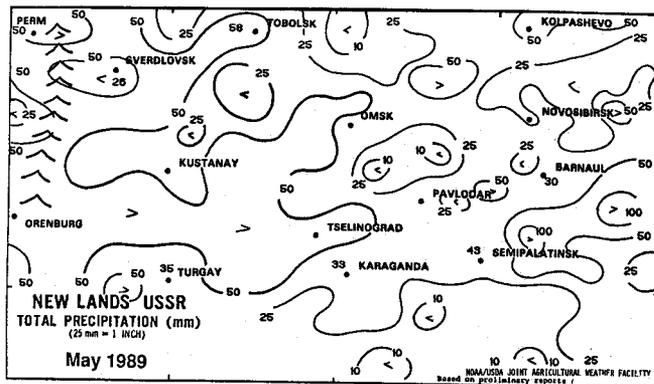
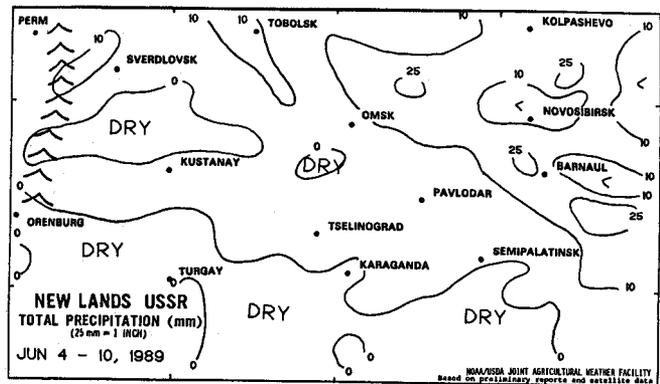
MEXICO ... Dry, hot weather dominates the country with only scattered showers in the Southern Plateau corn belt.

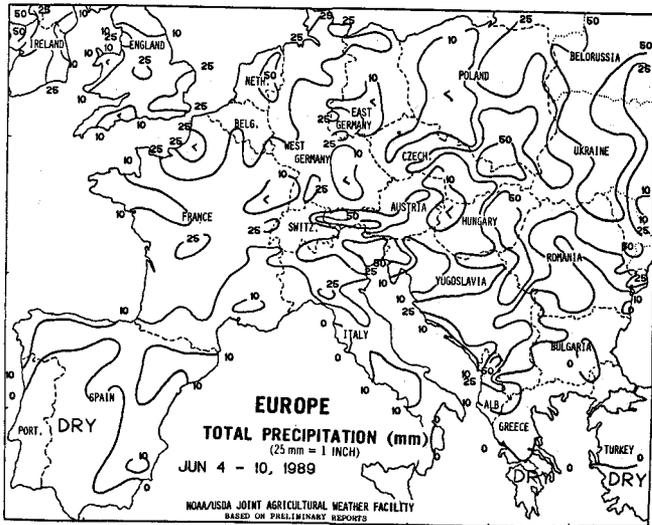


WESTERN USSR ... Widespread showers and thunderstorms produced moderate to locally heavy rain over crops in the Baltic States, Belorussia, and the western Ukraine. Precipitation amounts generally ranged from 29 to 54mm, with local amounts in excess of 90mm. Although the rain was mostly beneficial for winter grains in the reproductive to filling stages, some crop lodging may have occurred, caused by gusty winds during thunderstorms. Further east, hot, dry weather developed in the eastern Ukraine, northern North Caucasus, lower Volga, and the Black Soils Region on June 7 and continued until week's end. Maximum temperatures ranging from 30 to 34 degrees Celsius (C) accompanied light winds, generally less than 15 knots. The hot, dry weather in these areas stressed winter grains in the reproductive phase of development. In May, above-normal precipitation covered the western Ukraine, the North Caucasus, and the Volga Valley. Soil moisture reserves were limited in the southern Ukraine where precipitation has been below normal since January. Below-normal May precipitation in the Baltic States, Belorussia, the northern Ukraine, and the Black Soils Region helped spring grain planting.

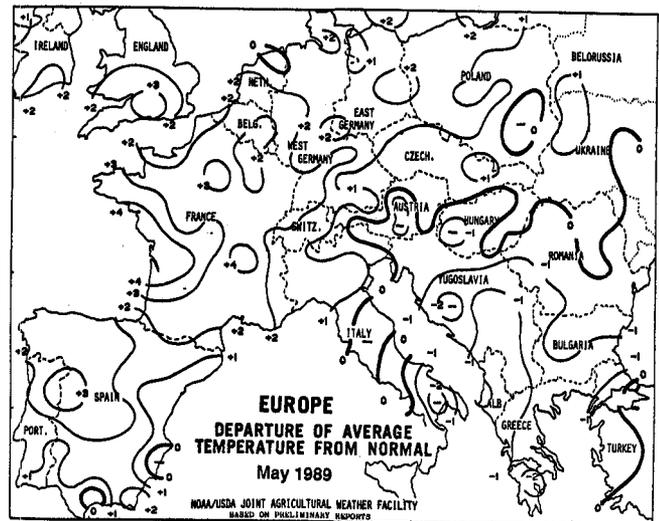
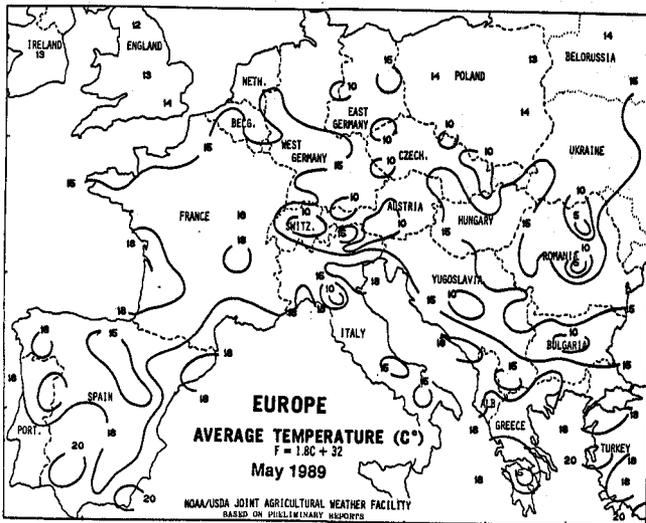
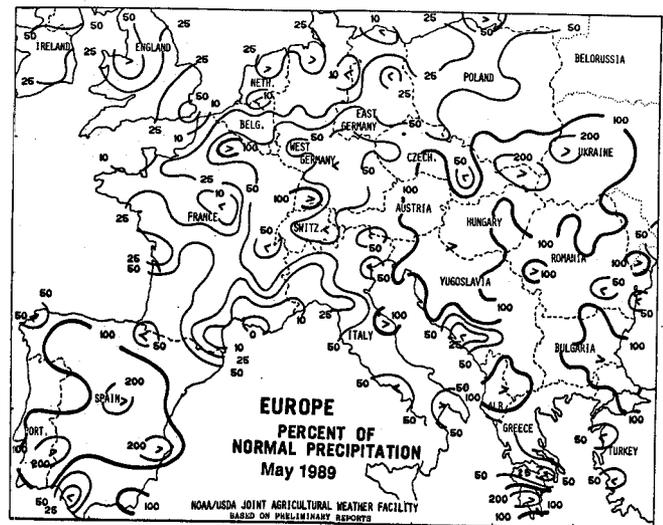
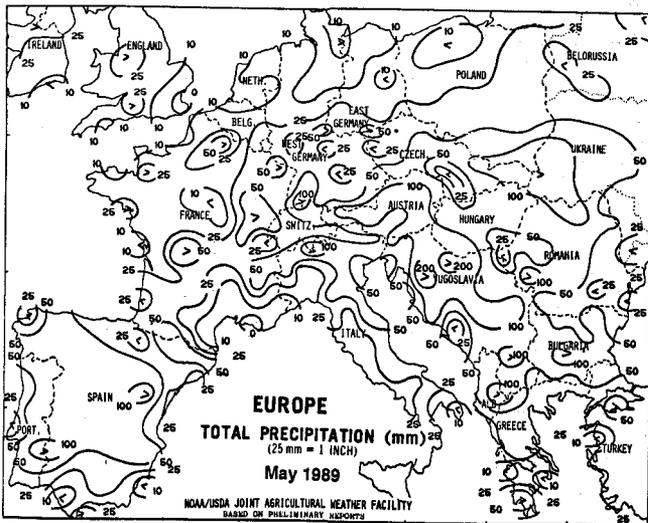


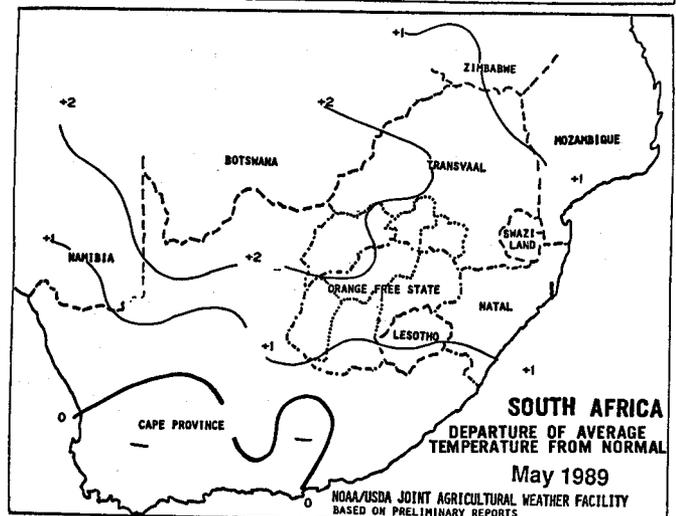
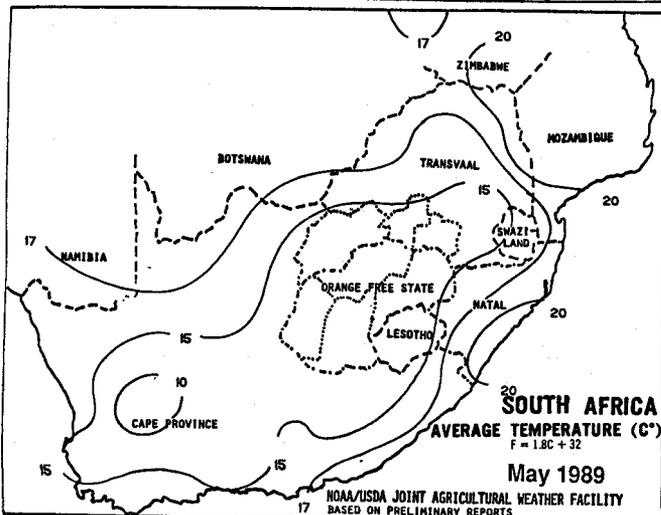
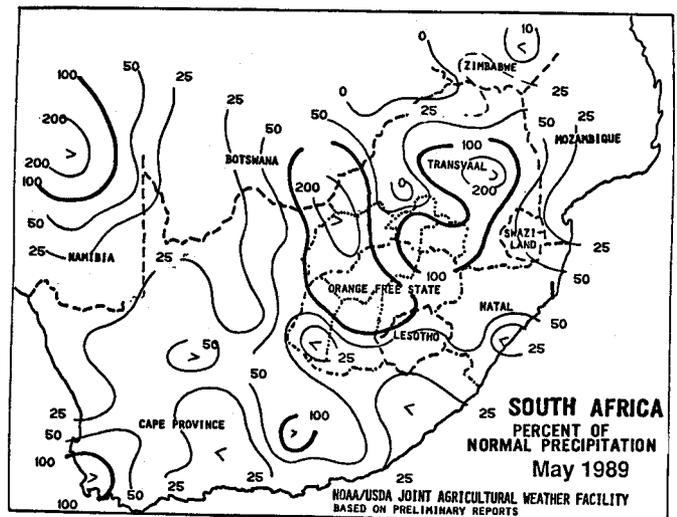
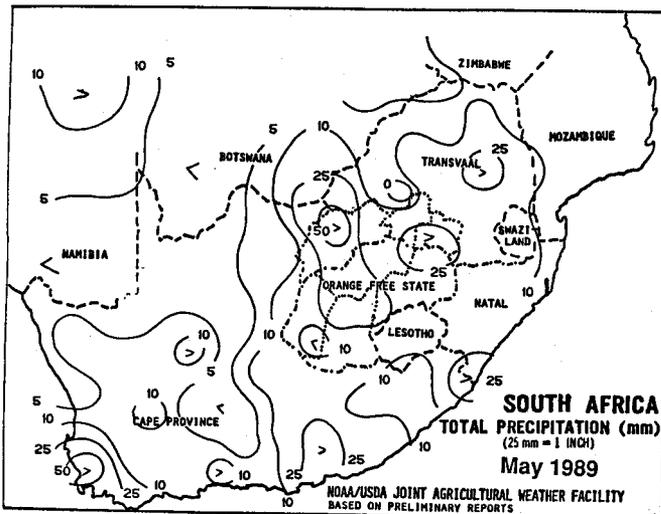
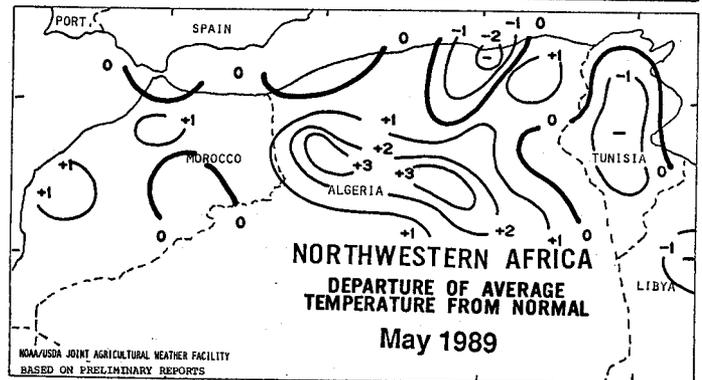
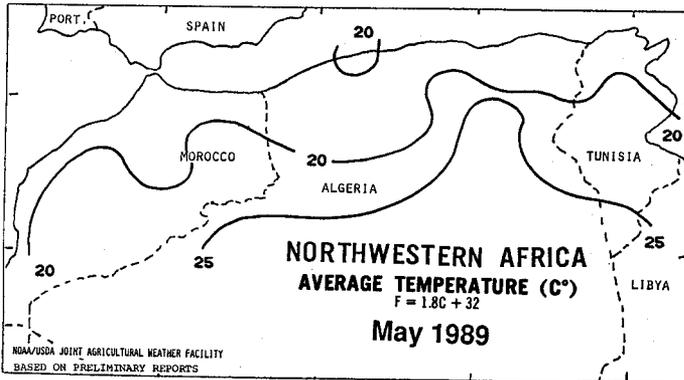
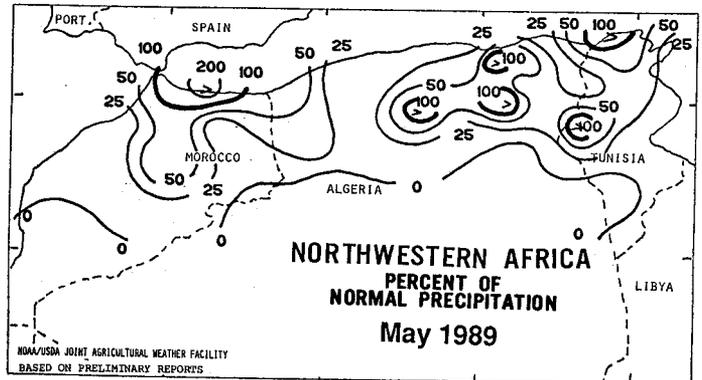
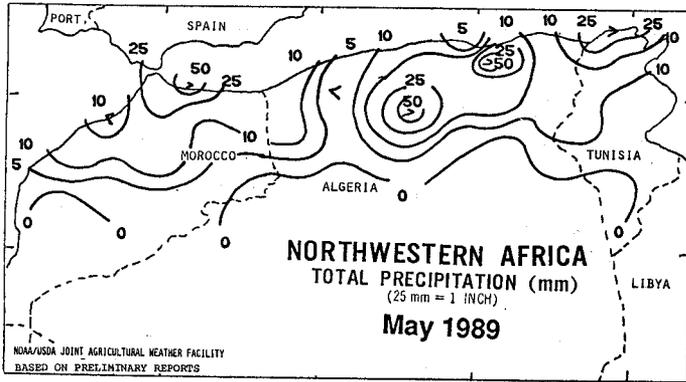
NEW LANDS ... Mostly dry weather covered spring grain areas in the Urals and Kazakhstan. Adequate moisture reserves in these areas met the crop moisture demands of spring grains in the early vegetative stage. By week's end, unseasonable warm, dry weather developed in the southern Urals, where maximum temperatures ranged from 31 to 34 degrees C. Further north, widespread, light showers covered emerging spring grains in West Siberia, favoring early crop establishment. However, weekly average temperatures in these areas were 1-6 degrees C below normal, slowing emergence and early growth. In May, above-normal precipitation covered most crop areas, providing ample topsoil moisture for spring grain emergence. Spring grain planting usually begins in mid-May and is completed by month's end. Above-normal temperatures during mid-May were replaced by unusually cold, wet weather which may have slowed planting and crop emergence, especially in northern crop areas.

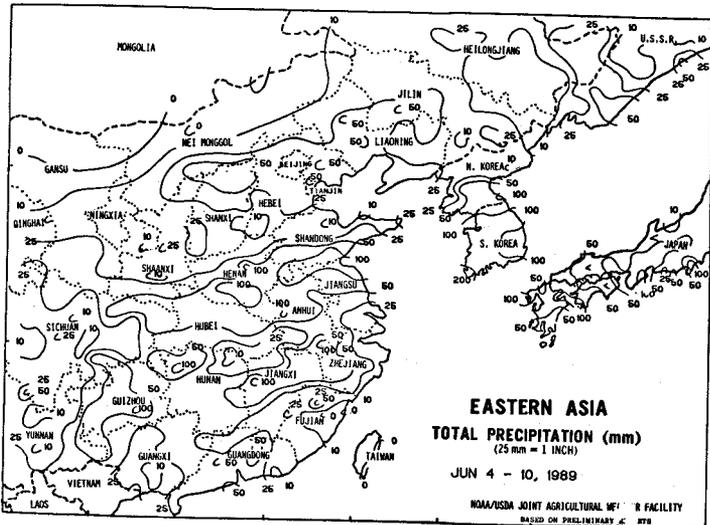




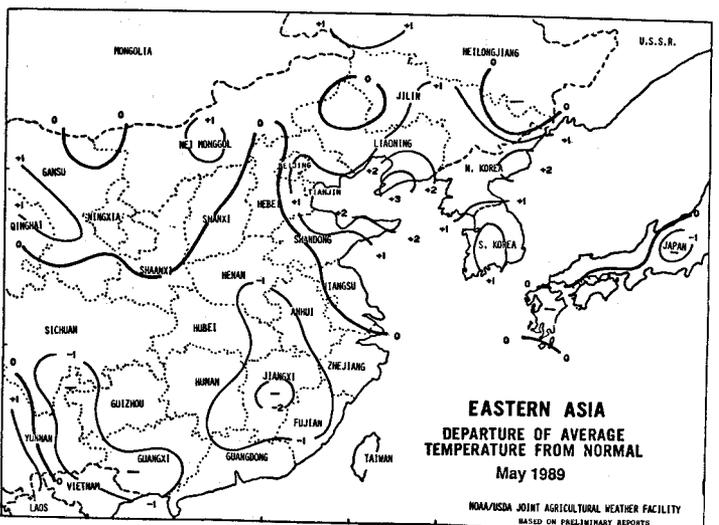
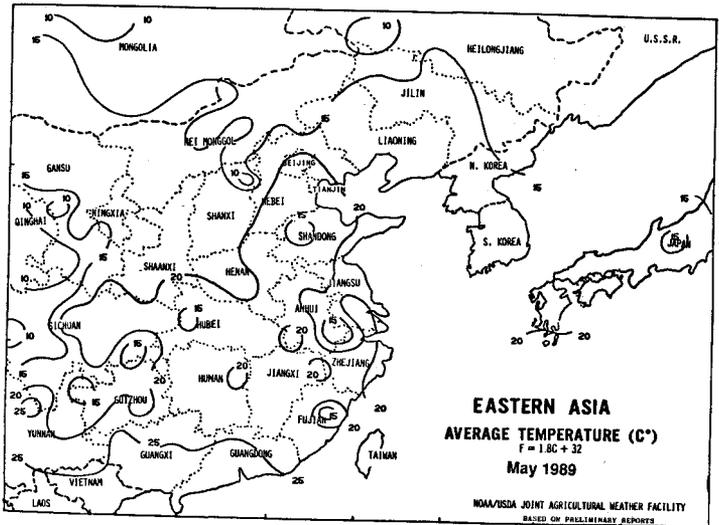
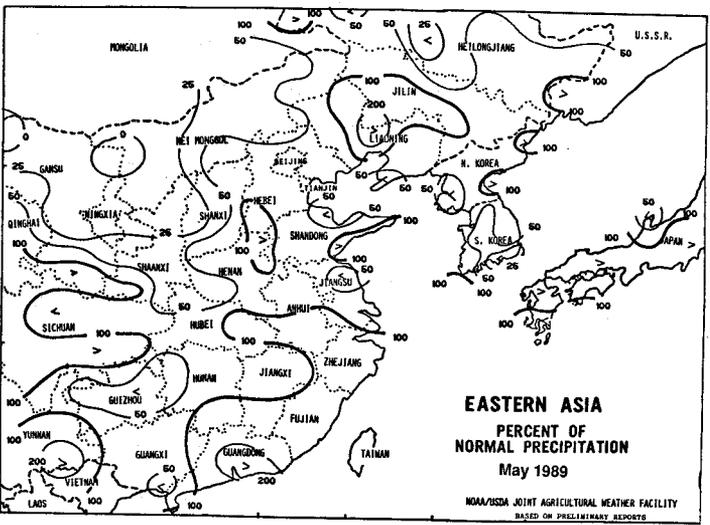
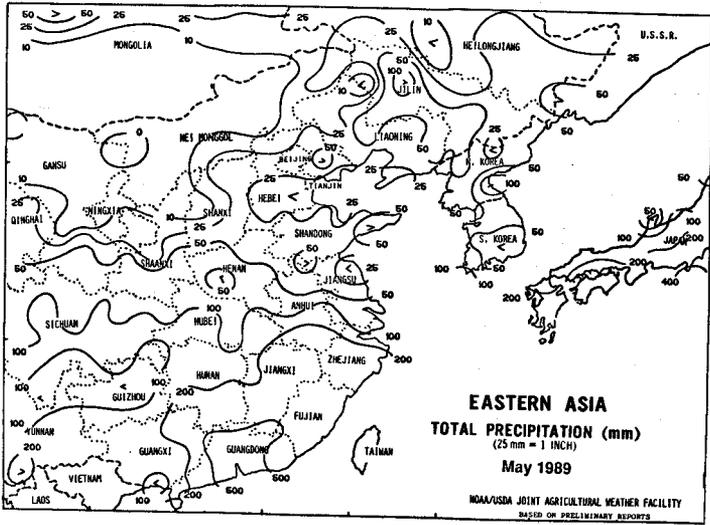
EUROPE ... Widespread rain (10-30mm, with isolated amounts in excess of 50mm) continued across much of northern Europe, favoring vegetative spring-planted and reproductive to filling winter crops. While rainfall during the past 2 weeks has improved soil moisture levels in most northern crop areas, further timely rain will be necessary to maintain yield potentials due to much-below-normal precipitation and above-normal temperatures in May. In the south, moderate to heavy rain (15-40mm) continued across the northern Balkans, while scattered light to moderate rain (5-15mm) fell in Italy, southern France, and northern Spain. Southern Spain and the southern Balkans remained mostly dry. Below-normal-mean temperatures this past week slowed development of crops across the continent and contrasted with warmer-than-normal temperatures in all but southeastern Europe during May.

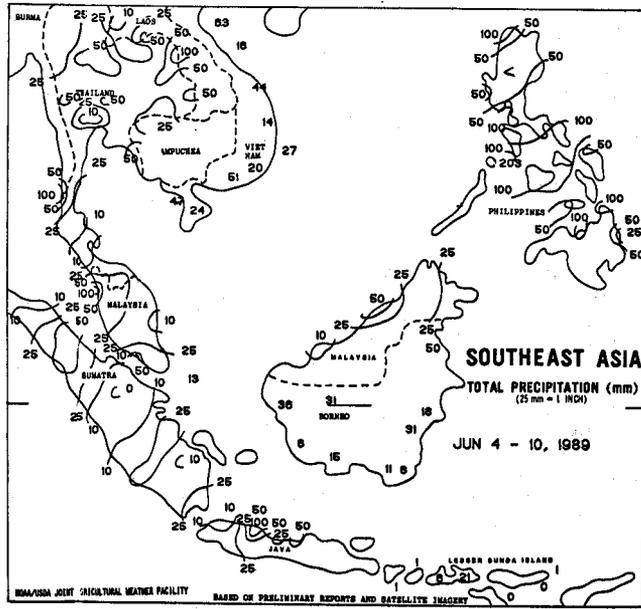




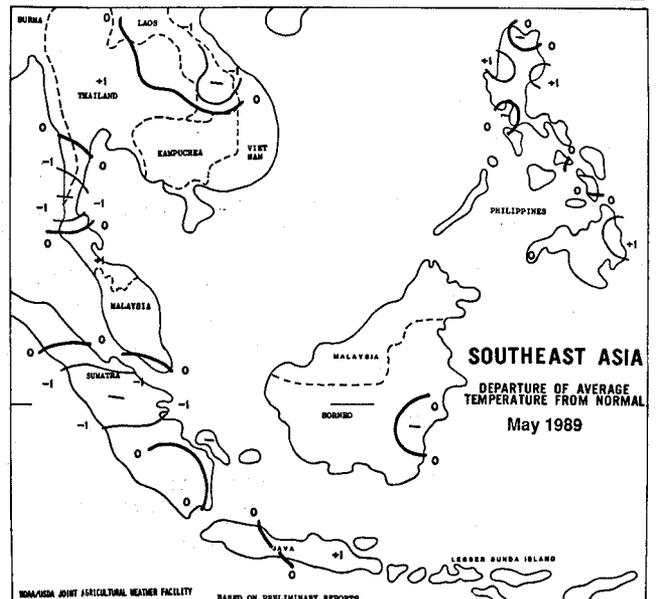
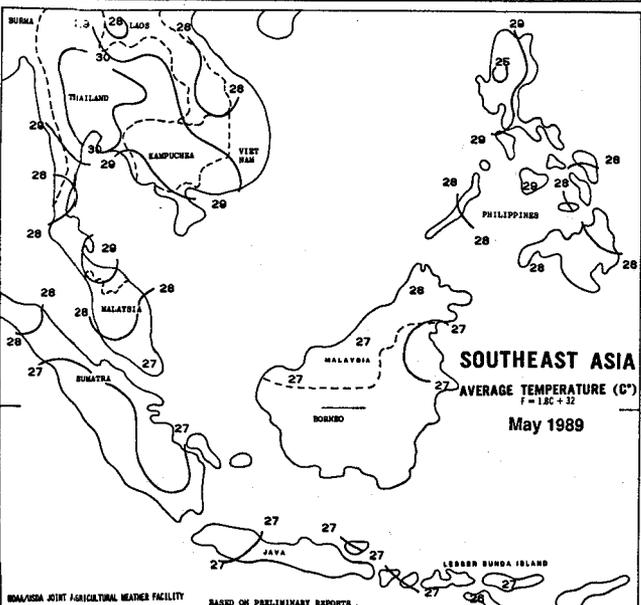
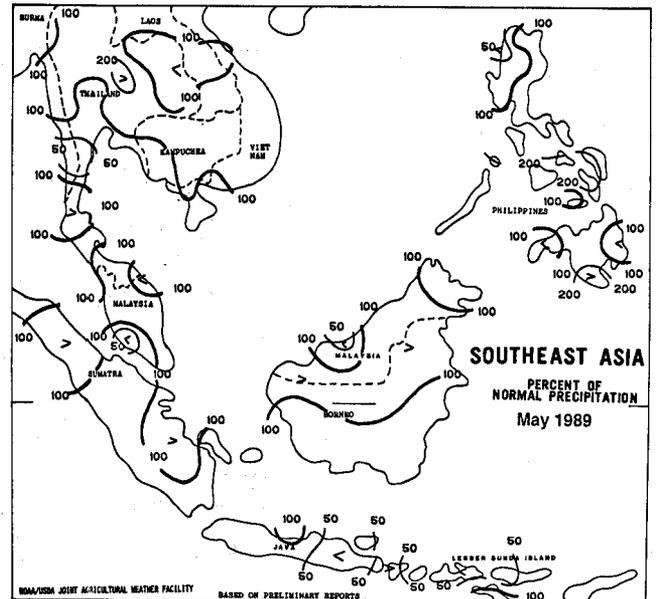
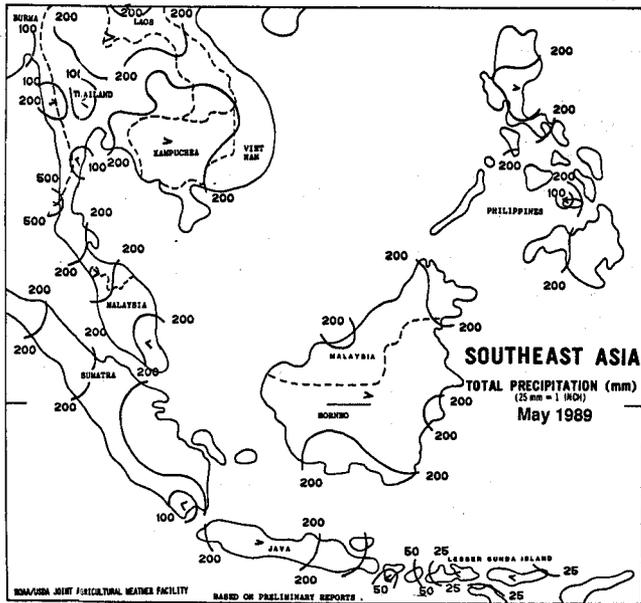


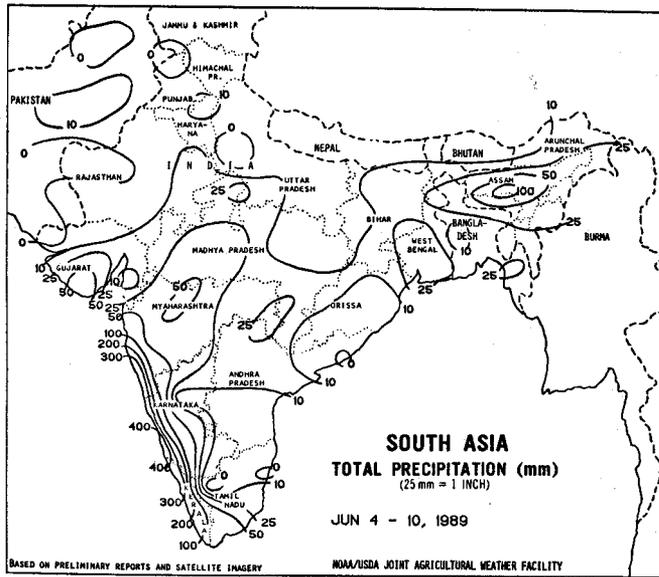
EASTERN ASIA ... Widespread rain (10-60mm, with scattered rainfall in excess of 60mm) fell across much of northern China, favoring vegetative spring planted crops. The precipitation helped reduce dryness in northwestern crop areas of Gansu, Shaanxi, and Nei Mongol. On the 10th, Typhoon Dot struck Hainan Island, bringing high winds, heavy rain, and flooding. Elsewhere, seasonal rains (10-70mm, with scattered amounts in excess of 100mm) continued across central and southern China, benefiting spring planted crops but causing delays in winter grain harvest. Very heavy rains (100-164mm) may have caused localized flooding in sections of southern Henan, northern Anhui, southern Shandong, and Jiangsu. Heavy rain (25-100mm, with scattered amounts in excess of 100mm) also caused flooding and delays in rice planting in North Korea, South Korea, and Japan. During May, precipitation was below normal over most northern and western crop areas and above normal in the southeast. Temperatures were above normal in the north and below normal in the south.



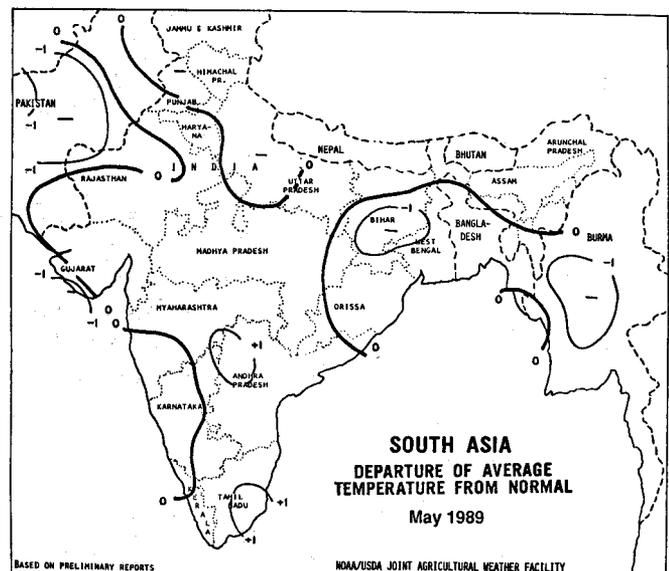
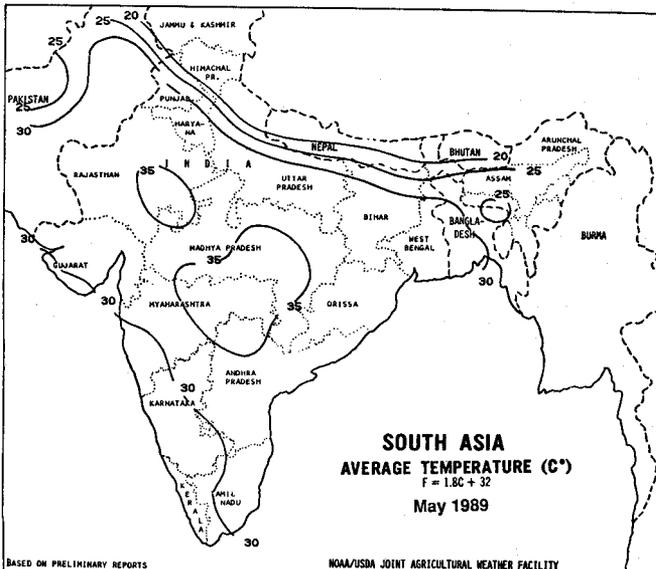
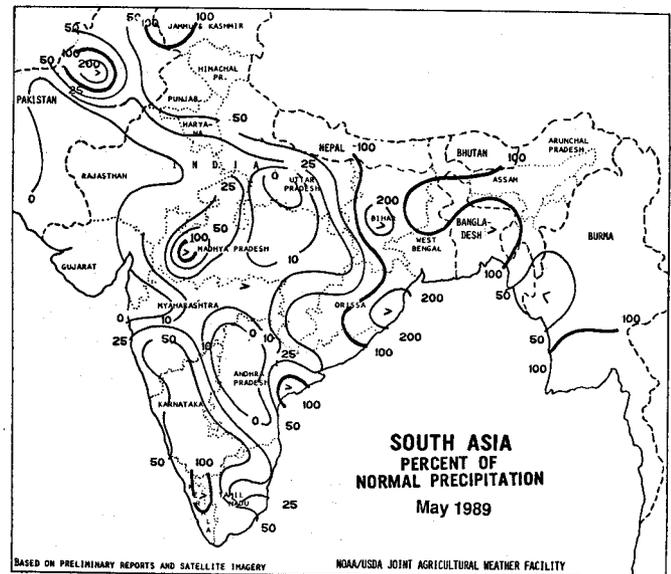
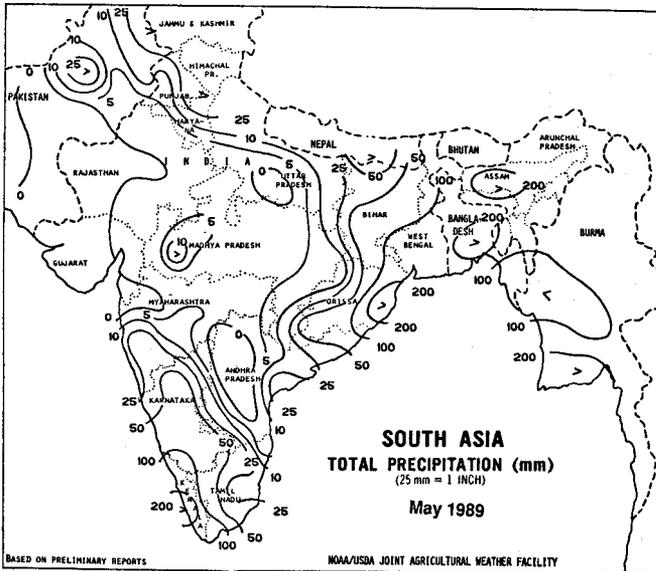


SOUTHEAST ASIA ... Variable rainfall (10-50mm or more) covered Thailand's main season grain regions as temperatures continued near normal. Frequent, near- to above-normal rainfall and near-normal temperatures during May created generally favorable conditions for grain establishment and vegetative growth over most Thai crop areas. In the Philippines, Tropical Storm Dot passed over the central islands, bringing heavy rain (100-200mm or more) to crop regions from northernmost Mindanao to southern and western Luzon, causing some local flooding. Rainfall in northern Luzon (23-102mm) was welcome following drier-than-normal weather that has persisted since mid-May, reducing moisture reserves for grain establishment. Near- to above-normal rainfall elsewhere in the islands since early May improved conditions for main season planting. In mid-May, however, Tropical Storm Brenda brought heavy rain and local flooding to much of the central islands and southern Luzon, possibly damaging mature second season crops.

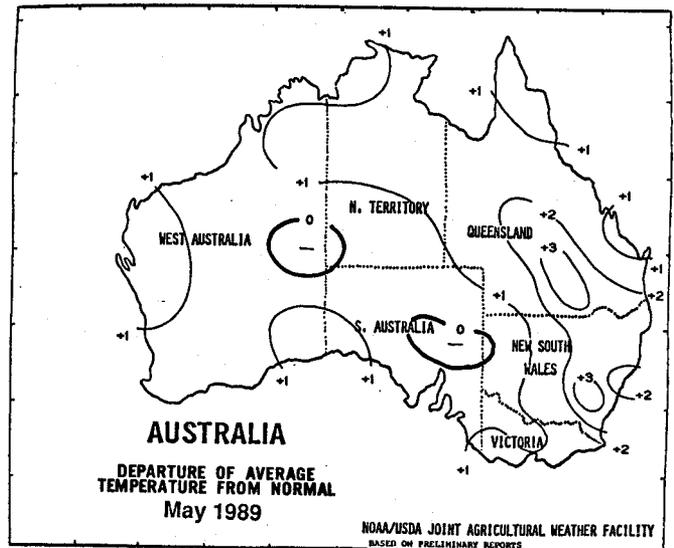
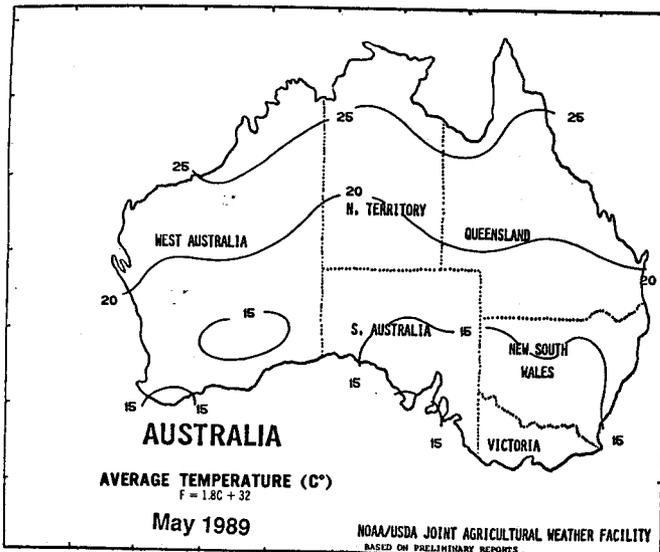
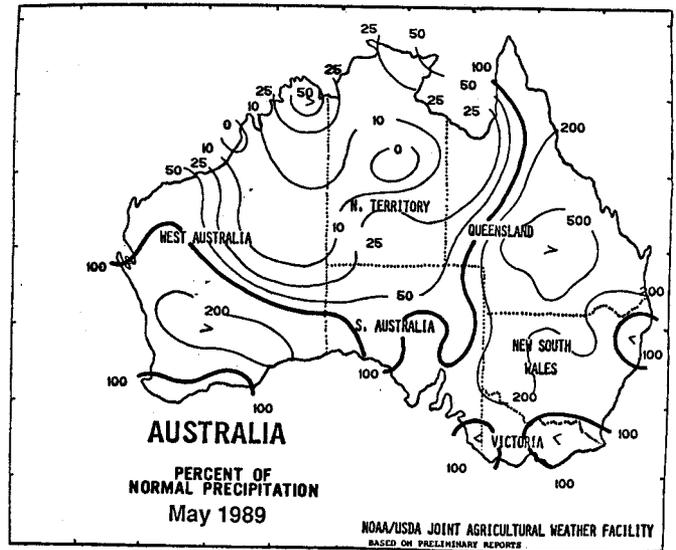
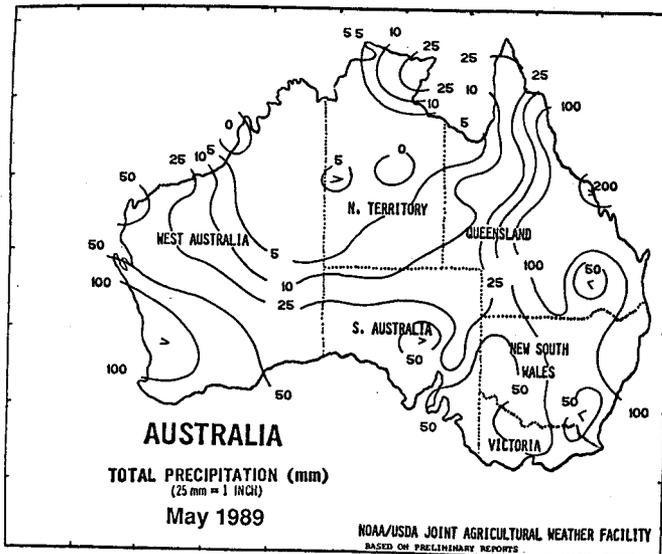
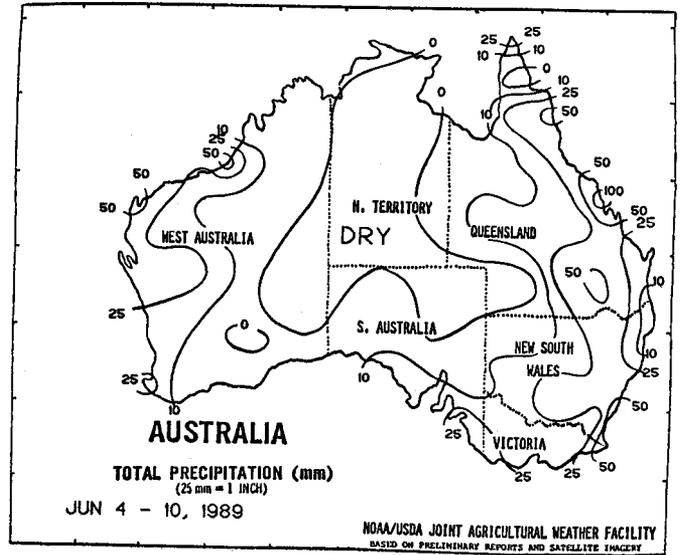


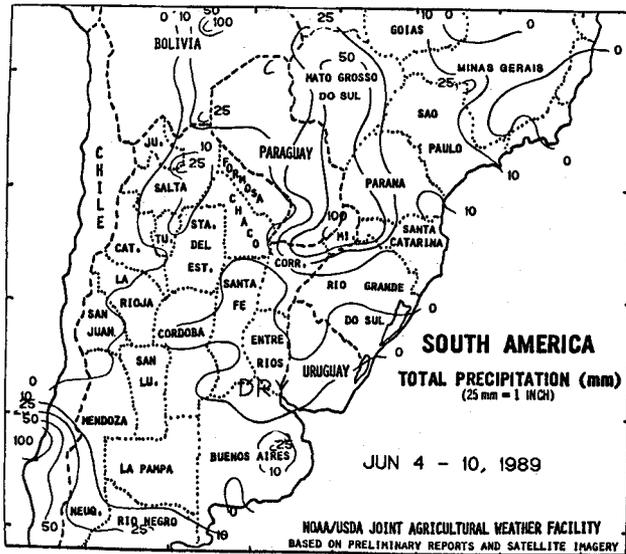


SOUTH ASIA ... Rainfall ranged from 10 to 50mm or more over large portions of central and southern India, improving conditions for summer crop planting. The rain reached as far north as western Madhya Pradesh, eastern Rajasthan, and Gujarat, where planting usually takes place in July. Light to moderate rain (10-25mm or more) also continued in the east with heavier rain (56-177mm) in western Assam. Temperatures averaged near to below normal across the region as milder weather continued from western Maharashtra southward, favoring emerging summer crops. In May, rainfall was near to above normal in the east from Bihar and eastern Orissa eastward, due mainly to the remnants of a tropical cyclone which moved through the area late in the month. Elsewhere, only local areas received near-normal rainfall, but since mid-May, scattered rainfall has improved conditions over much of southern India. May temperatures averaged slightly below normal in the east and over Pakistan and near to above normal elsewhere. Early in the month, however, hot weather in the east stressed immature rice.

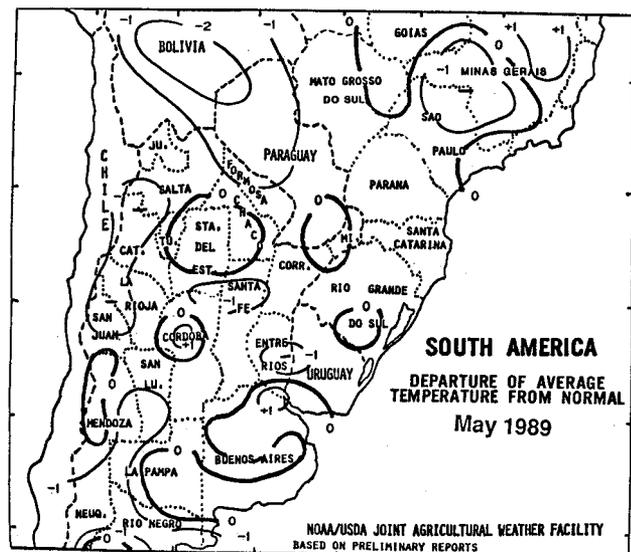
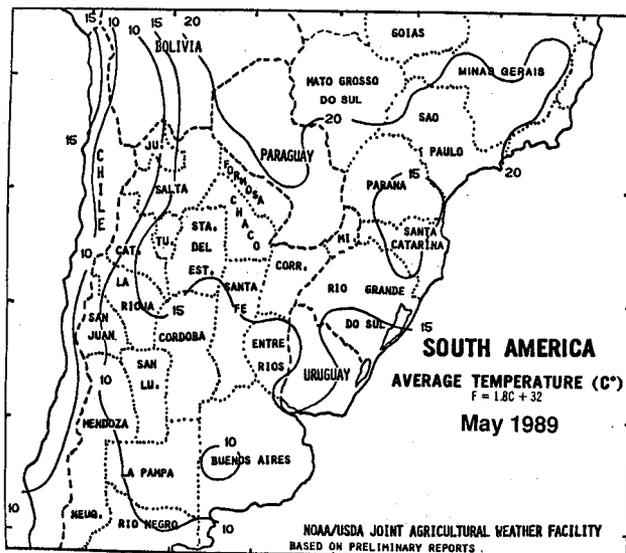
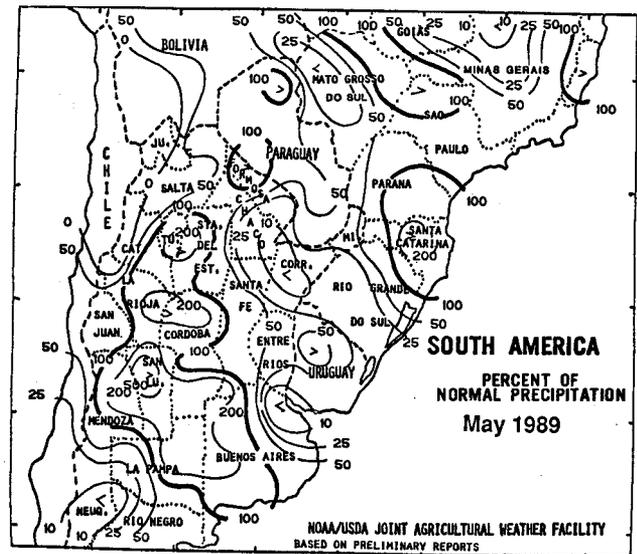
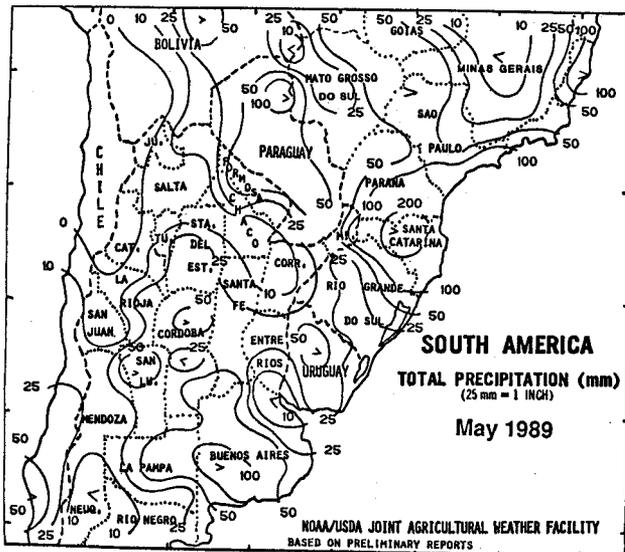


AUSTRALIA ... Moderate to heavy rain (15-50mm) continued over eastern Queensland, New South Wales, Victoria, and South Australia, favoring establishment of winter grains. Winter grain planting is nearing completion in crop areas of southern Queensland and northern New South Wales. In Western Australia, scattered light to moderate rain (5-20mm) caused only minor winter grain planting delays. Growing conditions for winter grains remain very favorable in most growing areas following the combination of above-normal rainfall and temperatures during May. In northeastern Queensland, heavy showers (30-100mm) benefited sugarcane which is nearing maturity. Mean temperatures during the week were normal to below normal in most crop areas.

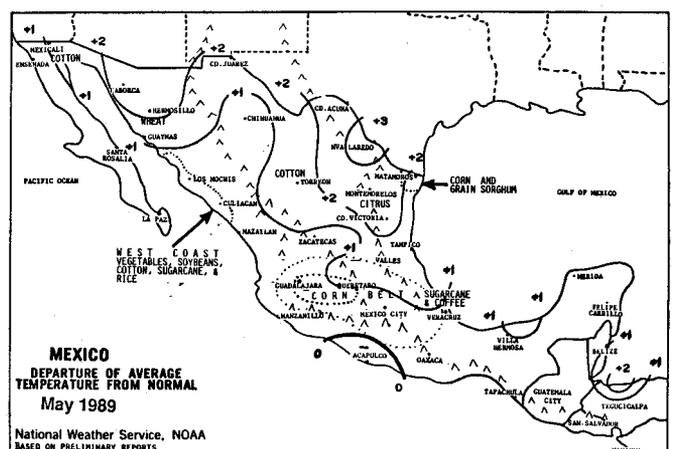
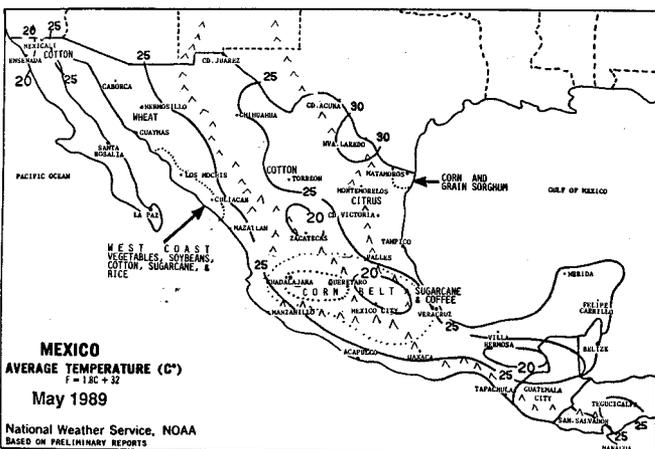
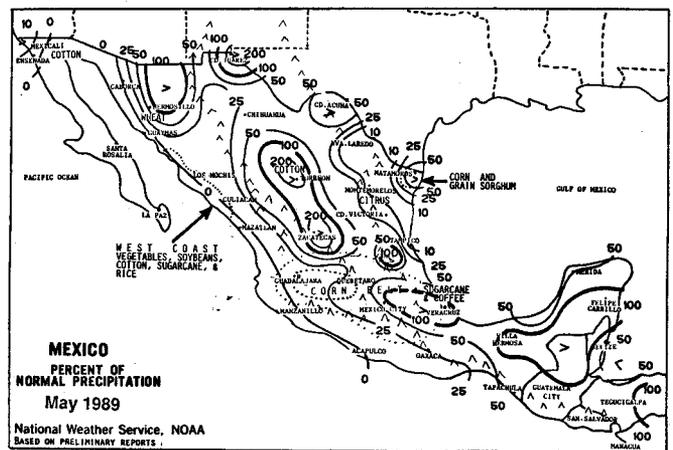
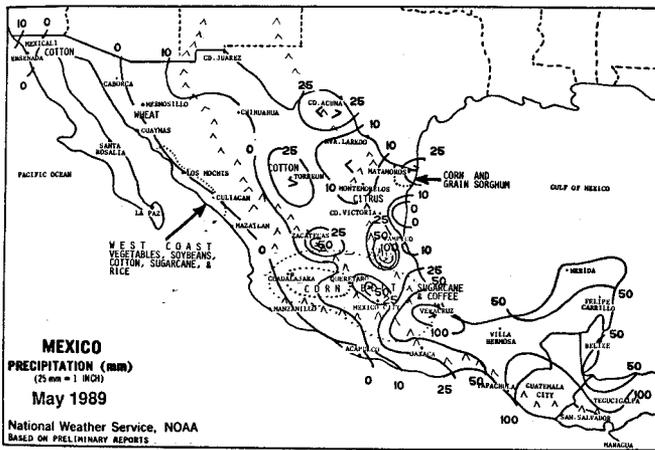
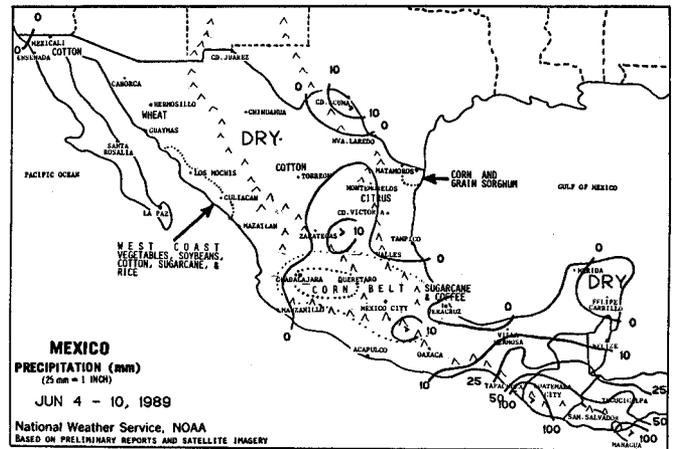


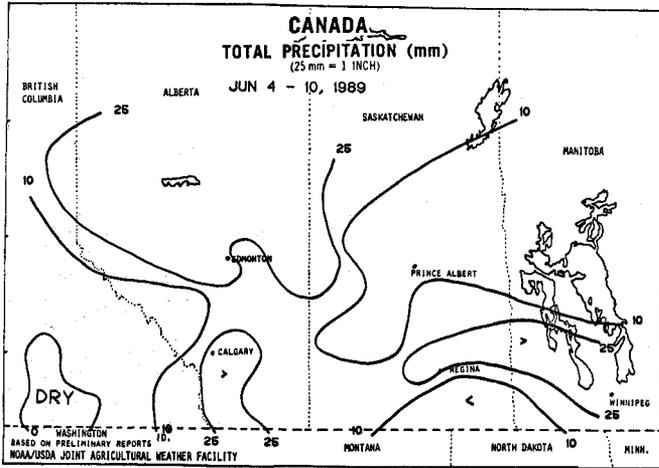


SOUTH AMERICA ... In south-central Brazil, midweek showers produced 10-25mm of rain in eastern Parana and northwestern Rio Grande do Sul. Heavier rain (25-60mm) in western Parana, southern Mato Grosso do Sul, and extreme northwestern Rio Grande do Sul improved topsoil moisture for wheat growth following well-below-normal May rainfall. Light rain (1-10mm) fell in eastern and southern Rio Grande do Sul, continuing a drying trend. Seasonably dry weather prevailed in northern coffee areas. In Argentina, drier weather returned to most crop areas, following the previous week's beneficial rain. Summer crop harvesting progressed, while preparations for the primary wheat planting season (mid-June through July) continued. Near- to above-normal May rainfall, resulting primarily from two storm systems, covered all but extreme eastern wheat areas.

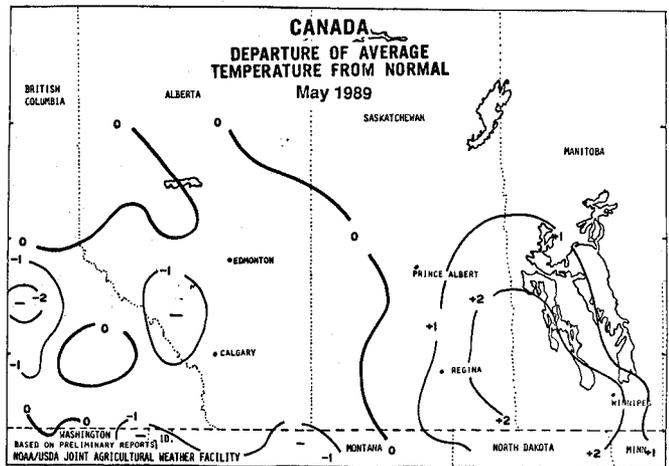
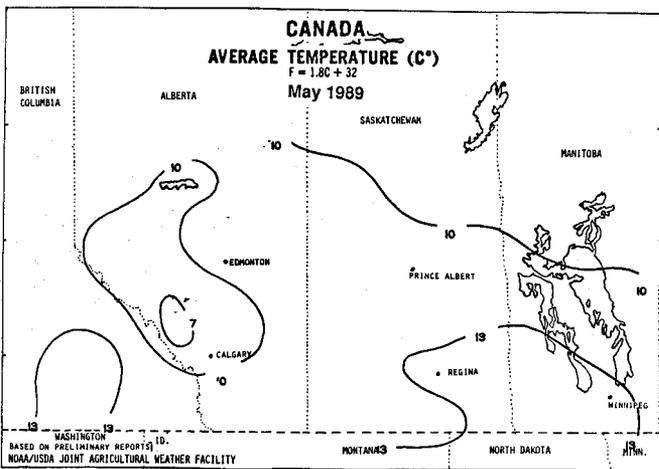
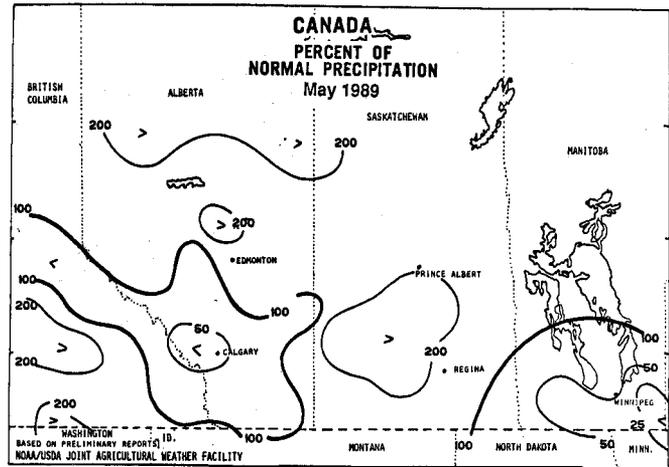
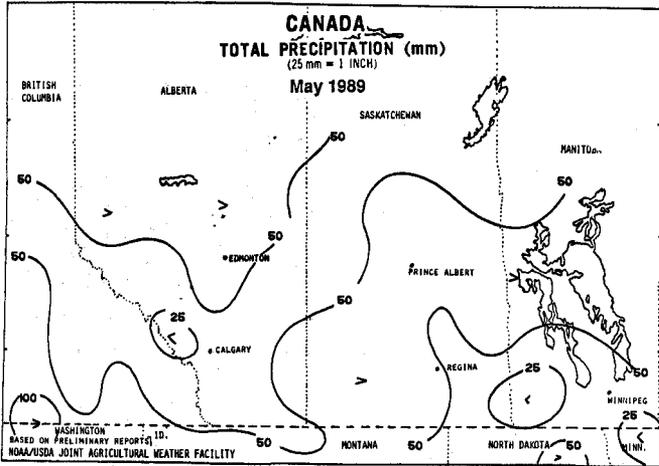


MEXICO ... Dry weather prevailed again over the northern half of the country, with high temperatures soaring into the upper 30's to low 40's C. The dry, hot weather delayed summer crop planting and stressed newly emerging crops. High temperatures reached the middle to upper 30's C throughout the west coast farming region, the Southern Plateau corn belt, and southern Mexico as well. Light showers (2-8mm) fell over the Southern Plateau, where corn planting may be delayed awaiting more substantial rains with the onset of the wet season. Variable showers (1-32mm) fell in southwestern Mexico, but dry weather dominated the southeast as tropical activity remains weak throughout the region.





CANADA ... Much needed rain (10-25mm or more) reached the primary spring wheat areas of Manitoba late in the week, improving moisture conditions for emergence and establishment. Temperatures, however, averaged 1-3 degrees C below normal with scattered extreme minimum temperatures reaching -1 to -2 degrees C, possibly burning some vegetative growth. Light to moderate rain (10-25mm or more) covered most crop areas of Alberta and southwestern and parts of northeastern Saskatchewan, but light rain (10mm or less) continued elsewhere in Saskatchewan. In May, rainfall averaged near to above normal over most crop areas of Alberta and Saskatchewan, which was timely for crop germination and establishment. Rainfall was near to below normal over Manitoba, the driest area being the southeast. May temperatures averaged 1-2 degrees C above normal from eastern Saskatchewan eastward and near normal elsewhere although temperatures were generally below normal the latter half of the month, slowing germination and emergence.



The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic \$35, foreign \$50 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C. and additional mailing offices.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor Douglas Le Conte
Meteorologists Tom Heddinghaus
Vilhelm Bjerknes, Bob Stefanski, Wes Byrd,
and Jeffrey Savadel

Subscriptions (202) 447-7917 . . Jeanette Hill

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
Editor Sharon Lee
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WEEKLY NEWS BULLETIN
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ISSN 0043 1974