

WEEKLY WEATHER AND CROP BULLETIN

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

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

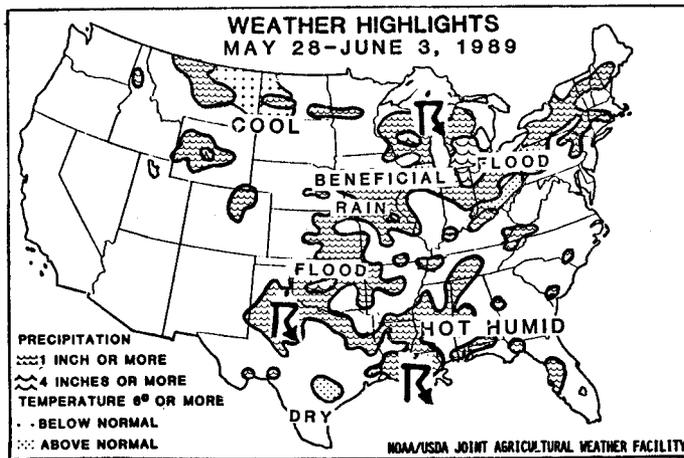
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June 6, 1989

National Weather Summary

May 28 - June 3, 1989



HIGHLIGHTS: Strong thunderstorms developed along a slow moving frontal system and soaked much of the central and southern Plains, Mississippi Valley, Great Lakes, and Northeast. Drenching rains caused severe flooding in lower Michigan, northern Indiana, and central Oklahoma. Dry weather continued over the southern Atlantic seaboard and southern Texas, and parts of the northern Plains. Hot, humid conditions across the central and southern Plains to the Atlantic coast contrasted with the cool weather across the northern Plains.

SUNDAY: Thunderstorms spread beneficial rain over the western Corn Belt, with heavy amounts in northeastern Missouri. Showers were widespread across the Pacific Northwest into the northern Plains, with snow in the higher elevations of the Rockies. A large high pressure system brought cool, dry air into the East.

MONDAY: The large high pressure system continued to bring pleasant weather to the East on Memorial Day. In contrast, hot, humid air flowed into the central portions of the Nation. Rain showers reached from the northern and central Rockies into the upper Mississippi Valley, and thunderstorms dumped heavy rain over the Great Lakes.

TUESDAY: Thunderstorms and showers developed along a stationary front, extending from the central Rockies to northern New England. Severe thunderstorms continued to douse the Great Lakes. A rainfall of .12 inches gave Pittsburg, PA, the wettest May on record.

U.S. MONTHLY MAPS AND SUMMARIES

WEDNESDAY: Showers and thunderstorms continued to develop along the frontal system, stretching from the southern Plains, across the middle Mississippi Valley, and Great Lakes, and into the Northeast. The rains were very beneficial in the central Plains and western Corn Belt but produced flooding across Michigan and northern Indiana.

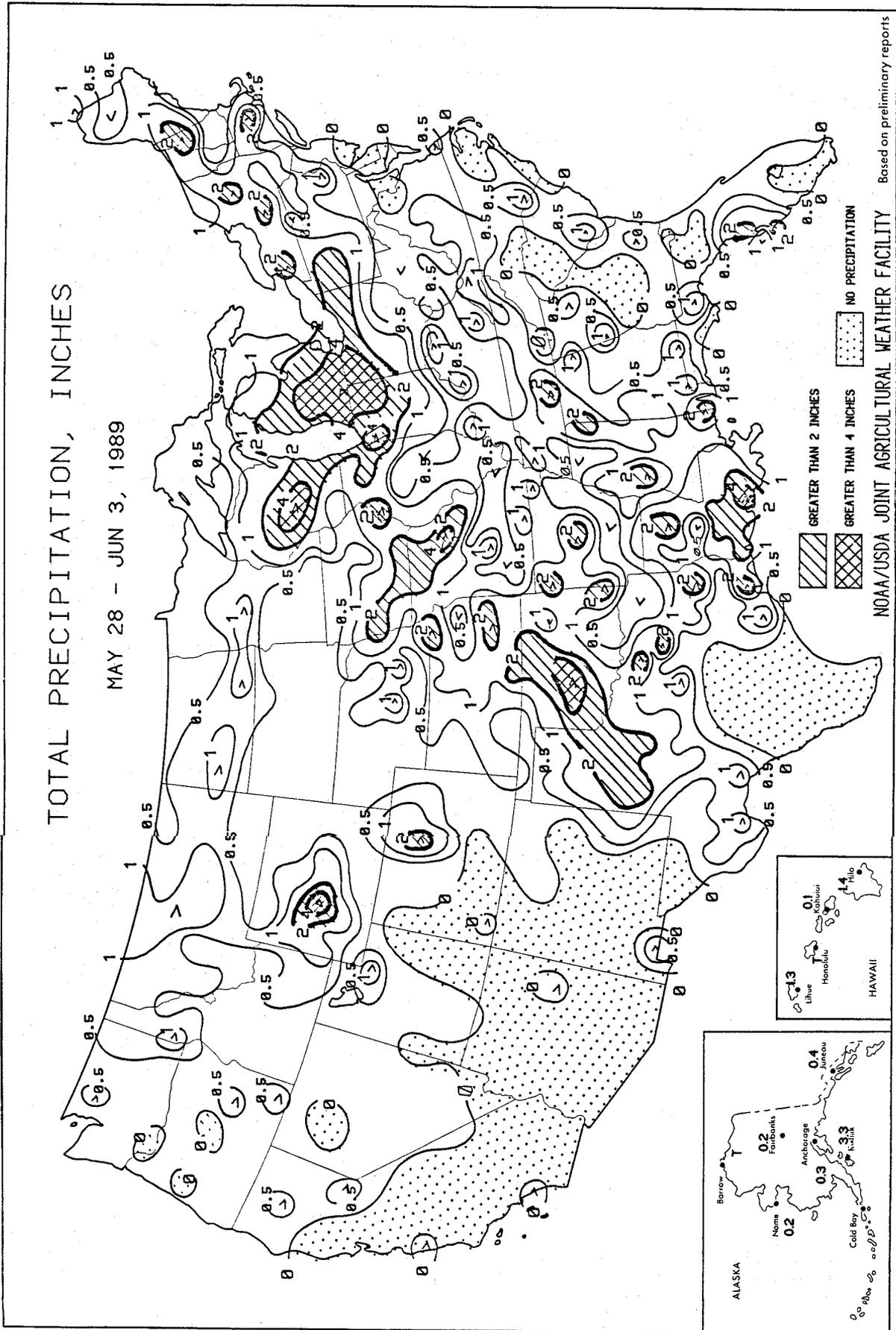
THURSDAY: Showers and thunderstorms were widespread from the southern Plains and Delta, across the Corn Belt, and into the Northeast. Rain showers moved into the northern Plains during the evening.

FRIDAY: Widespread rain covered the Great Plains, Mississippi Valley, and the Southeast. Severe thunderstorms caused locally heavy rain across the central Plains and Delta. Showers were scattered along the Atlantic seaboard and in the northern and central Rockies.

SATURDAY: Thunderstorms were numerous from the northern Rockies to the eastern Gulf coast and from the middle Mississippi Valley to the Northeast. Severe storms pounded Oklahoma, northern Texas, Indiana, and Ohio with heavy rain. Hot, humid weather continued across the South and East.

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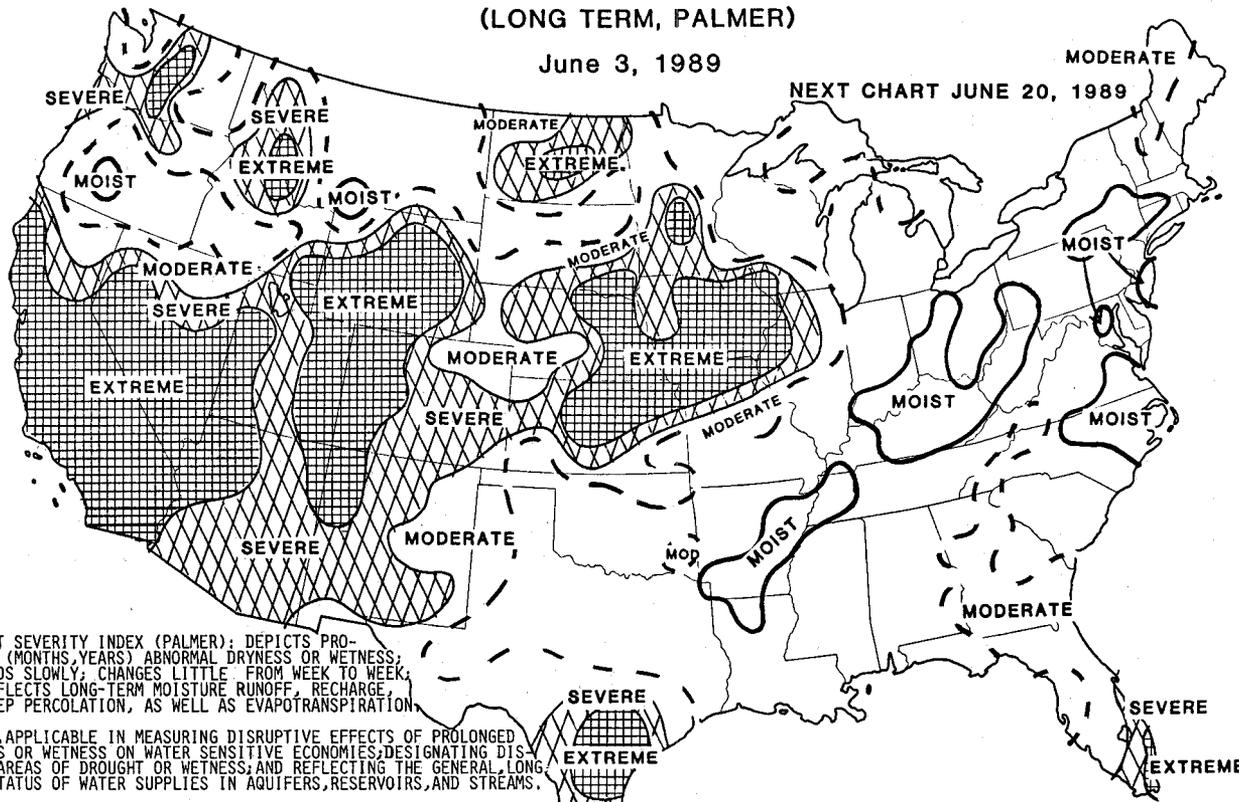


DROUGHT SEVERITY

(LONG TERM, PALMER)

June 3, 1989

NEXT CHART JUNE 20, 1989



DROUGHT SEVERITY INDEX (PALMER): DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES; DESIGNATING DISTRESS AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

LIMITATIONS... IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

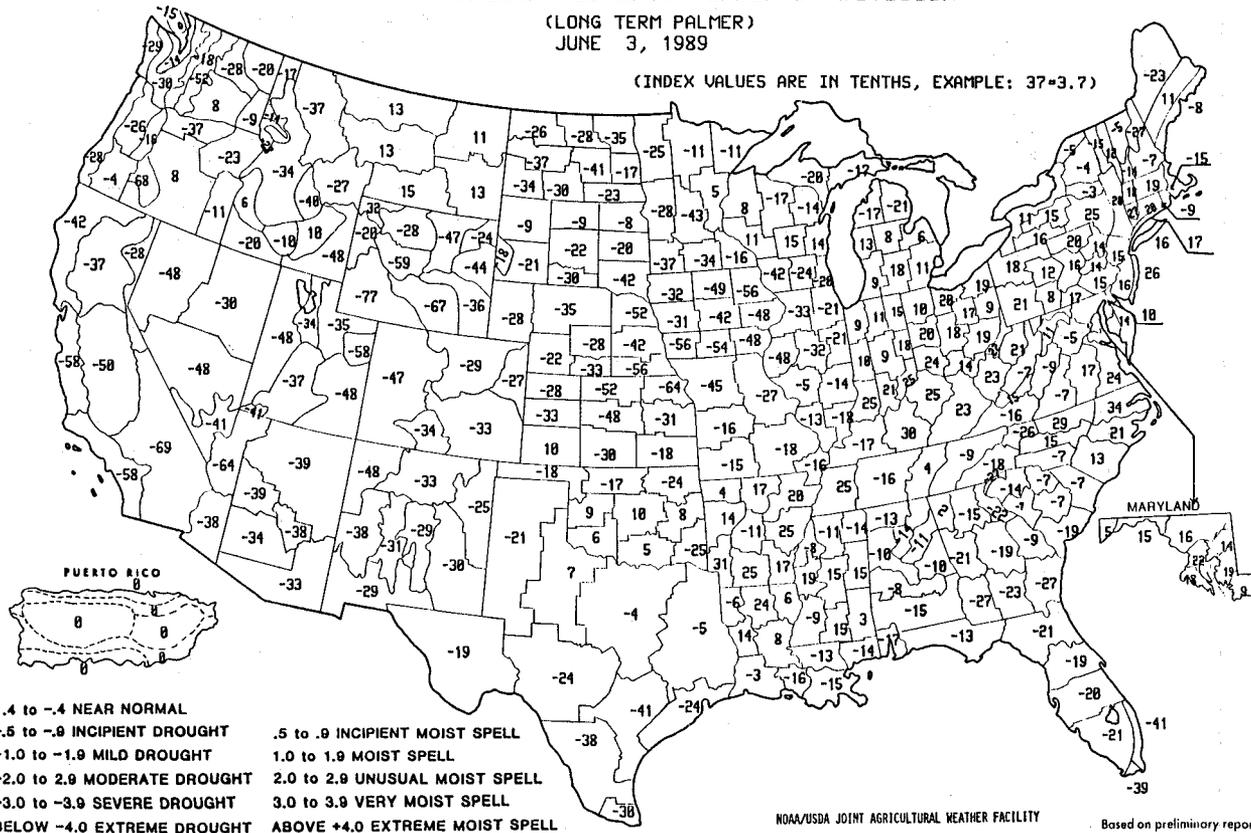
Based on preliminary reports

DROUGHT SEVERITY INDEX BY DIVISION

(LONG TERM PALMER)

JUNE 3, 1989

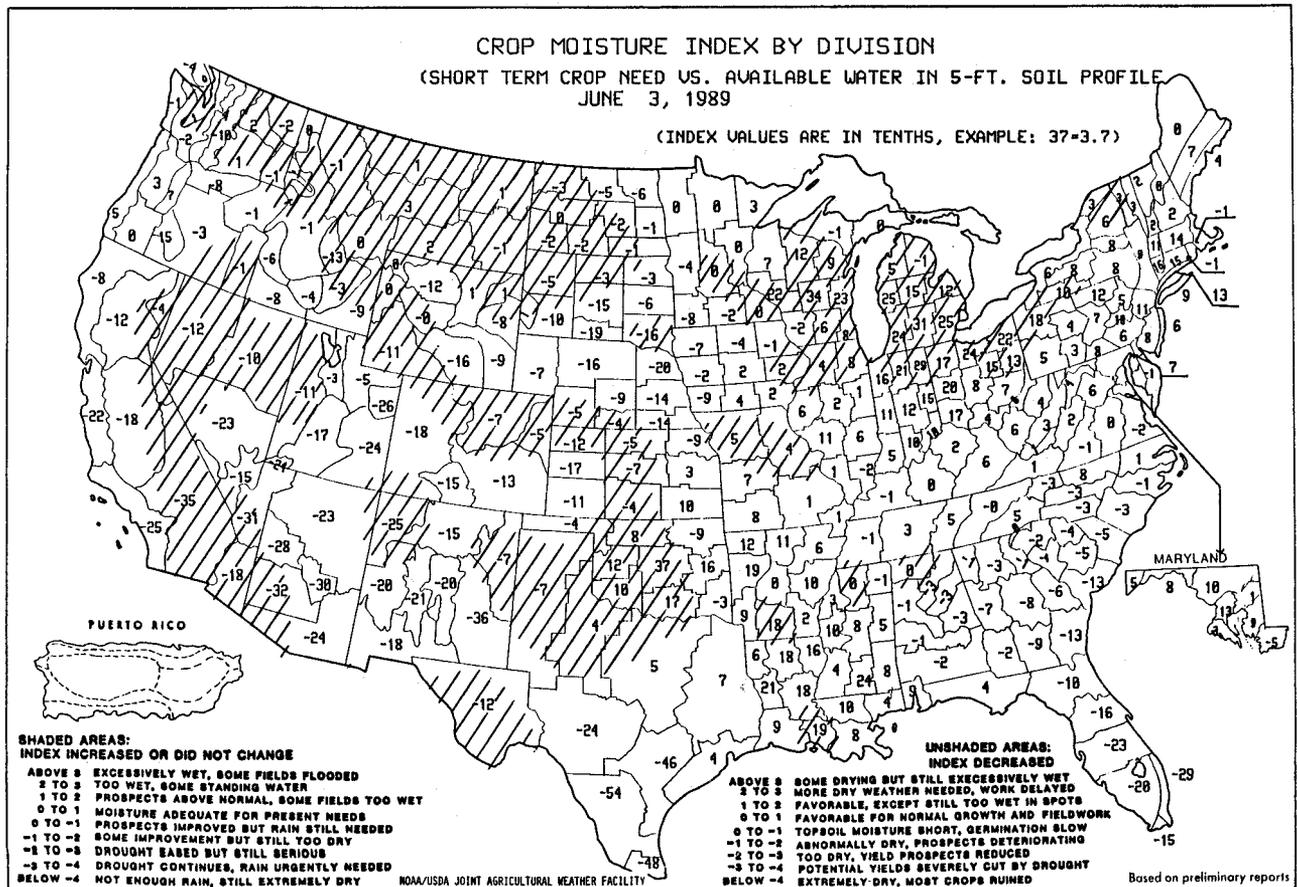
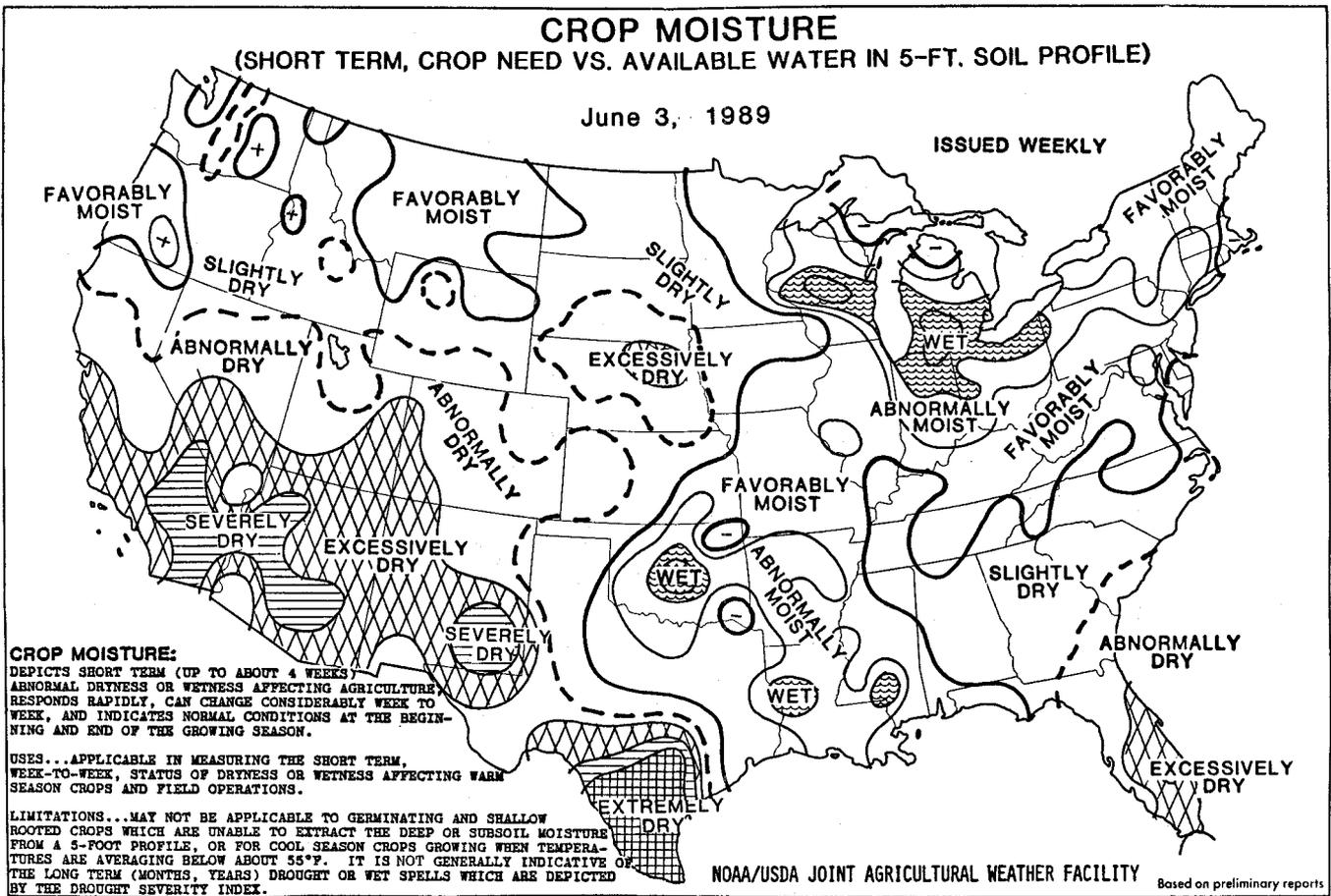
(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37=3.7)

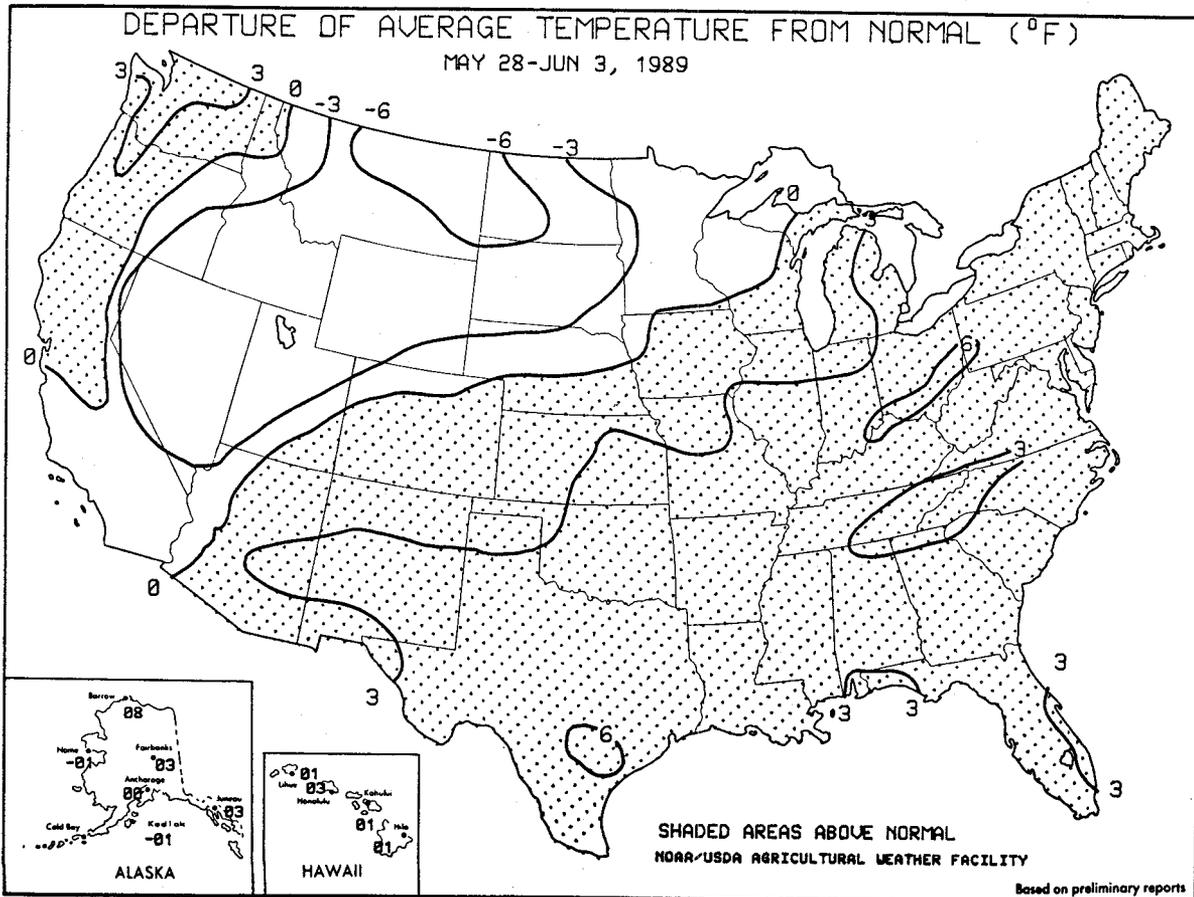
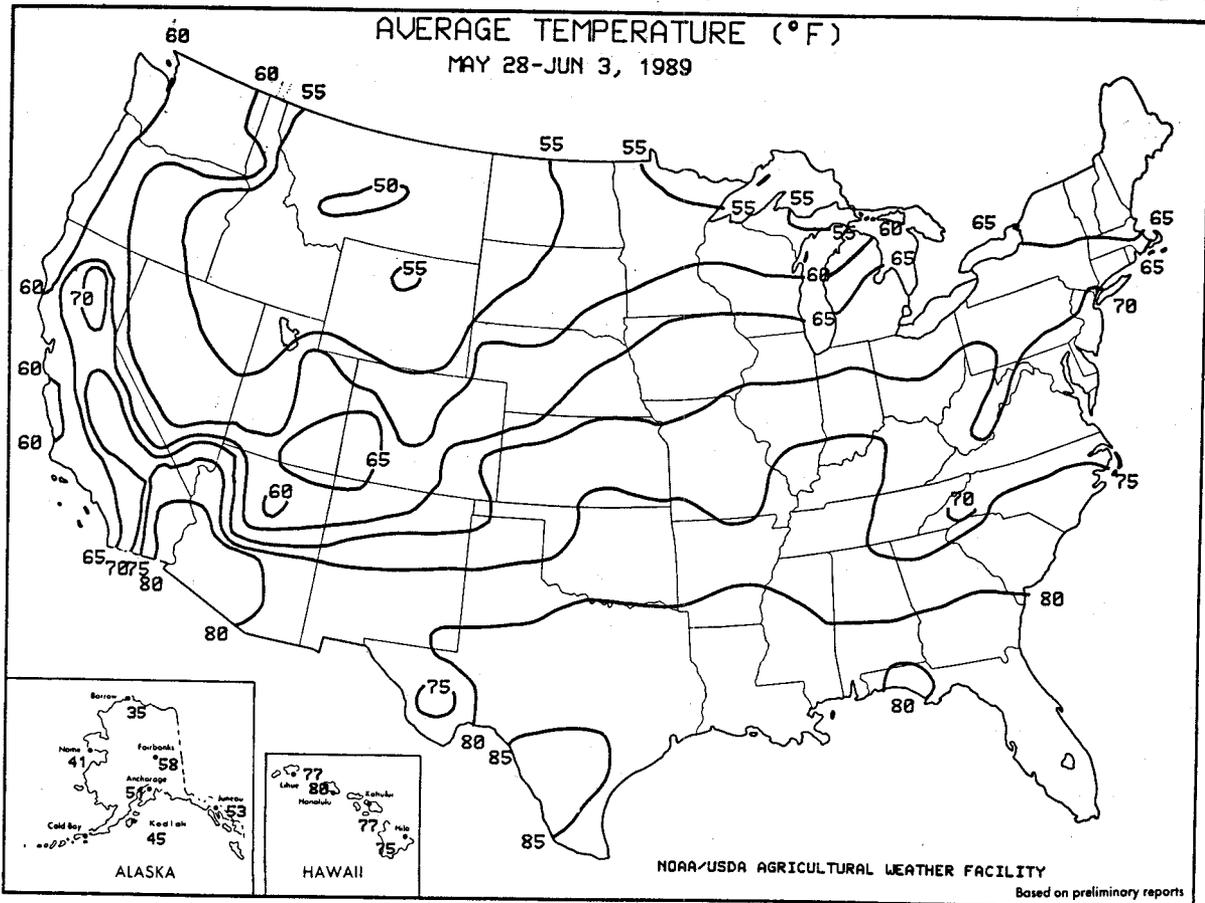


- .4 to -.4 NEAR NORMAL
- .5 to -.9 INCIPIENT DROUGHT
- 1.0 to -1.9 MILD DROUGHT
- 2.0 to 2.9 MODERATE DROUGHT
- 3.0 to -3.9 SEVERE DROUGHT
- BELOW -4.0 EXTREME DROUGHT
- .5 to .9 INCIPIENT MOIST SPELL
- 1.0 to 1.9 MOIST SPELL
- 2.0 to 2.9 UNUSUAL MOIST SPELL
- 3.0 to 3.9 VERY MOIST SPELL
- ABOVE +4.0 EXTREME MOIST SPELL

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

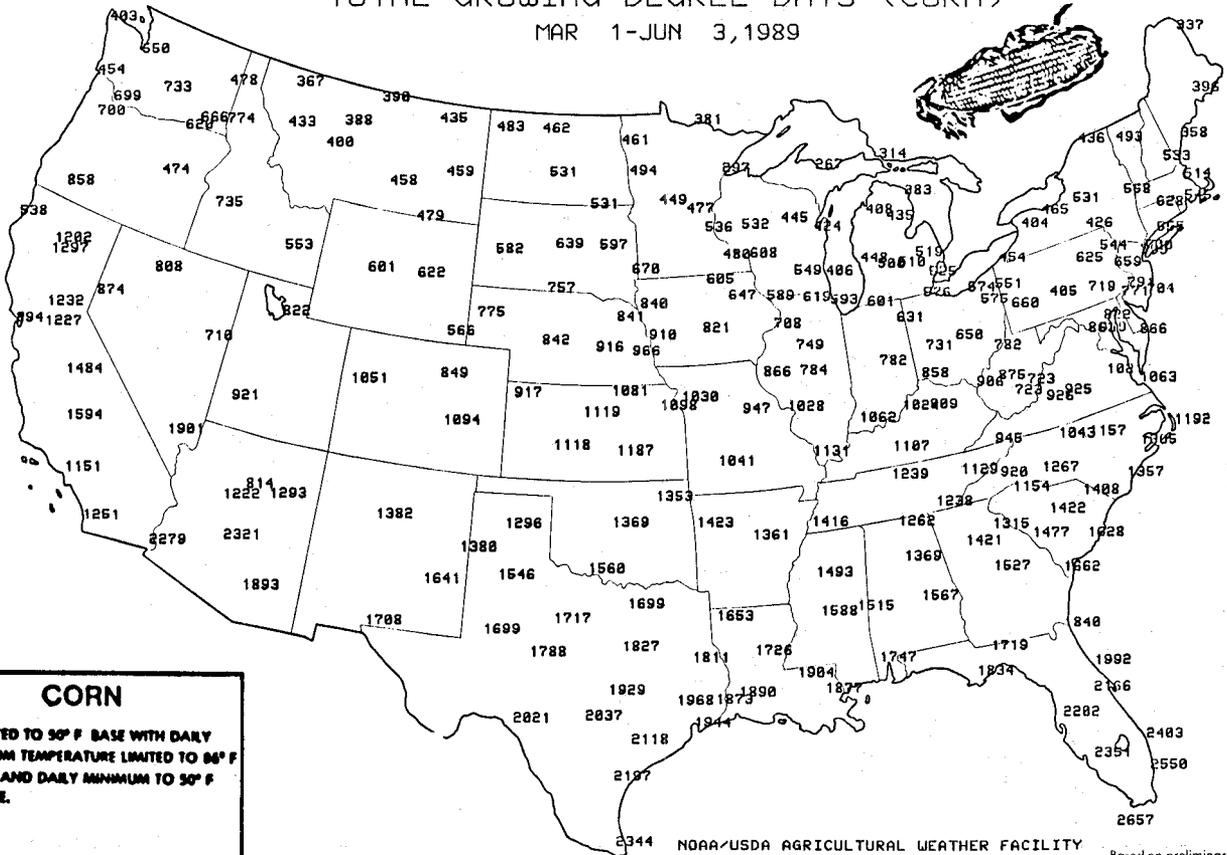
Based on preliminary reports





TOTAL GROWING DEGREE DAYS (CORN)

MAR 1-JUN 3, 1989



CORN

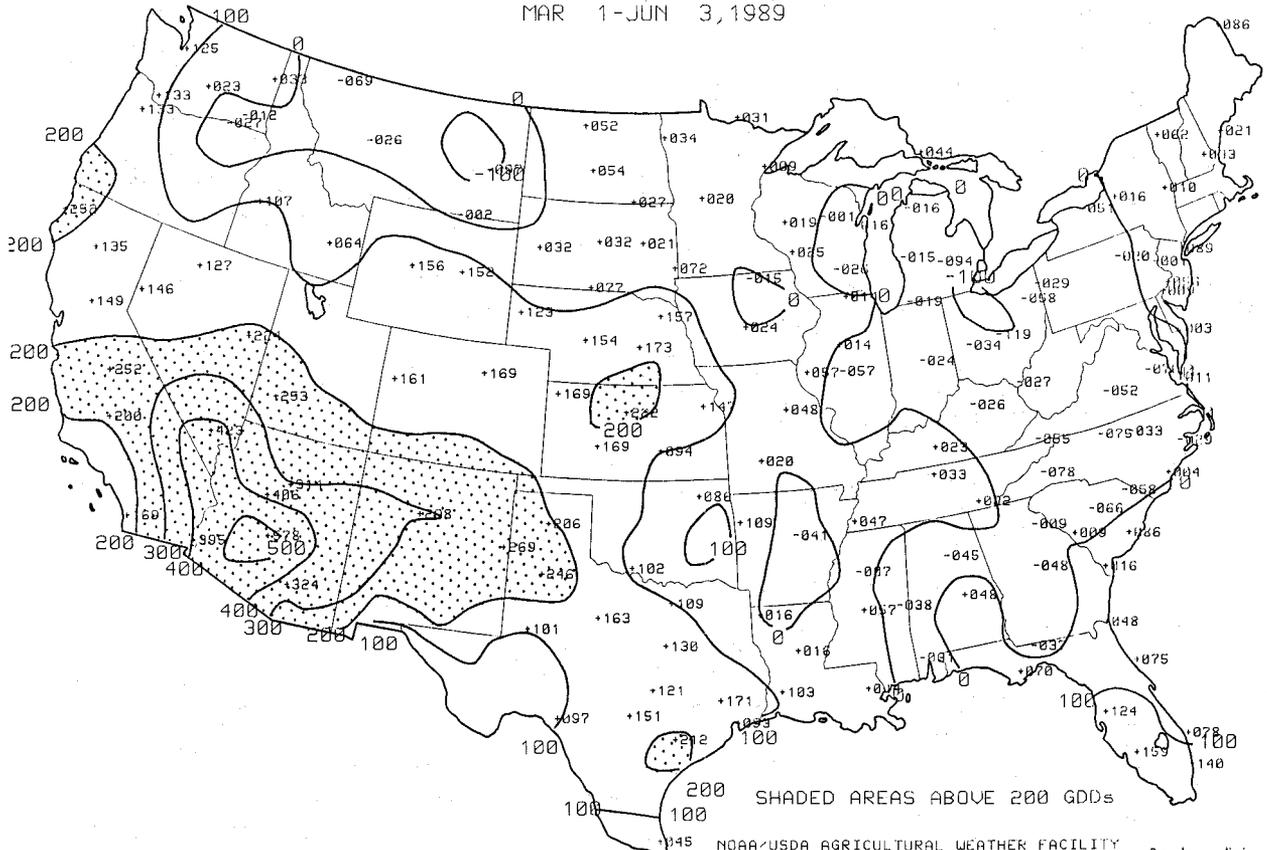
COMPUTED TO 50° F BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 84° F OR LESS AND DAILY MINIMUM TO 50° F OR MORE.

NOAA/USDA AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

GROWING DEGREE DEPARTURE FROM NORMAL

MAR 1-JUN 3, 1989



SHADED AREAS ABOVE 200 GDDs

NOAA/USDA AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

National Weather Data for Selected Cities

Weather Data for the Week Ending June 3, 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		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	88	64	91	56	76	3	.1	-.8	.1	.1	20	23.1	88	89	47	2	0	2	0	
MOBILE	90	70	91	66	80	2	2.1	-.9	2.0	446	21.2	78	97	52	6	0	0	2	1	
MONTGOMERY	91	66	95	61	78	3	T	-.8	T	9	23.3	100	95	46	3	0	1	0	0	
AK ANCHORAGE	57	45	63	41	51	0	.3	.2	.1	171	3.7	106	91	53	0	0	6	1	0	
BARROW	39	31	44	25	35	8	T	T	T	200	1.0	110	94	72	0	3	1	0	0	
FAIRBANKS	70	45	75	38	58	3	.2	.0	.1	40	2.7	118	83	29	0	0	4	0	0	
JUNEAU	60	47	67	40	53	3	1.4	.7	.6	120	12.7	74	98	57	0	0	5	5	1	
KODIAK	47	43	49	42	45	-1	3.3	2.2	2.5	596	16.2	67	97	85	0	0	6	1	1	
NOME	46	35	60	29	41	-1	.2	.1	.2	.1	88	7.1	234	92	69	0	2	2	0	
AZ PHOENIX	98	70	103	67	84	2	0	0	0	0	0	0	0	2.4	98	25	8	7	0	
PRESCOTT	79	46	83	40	63	1	0	0	0	0	0	0	2.8	46	41	10	0	0	0	
TUCSON	96	63	98	58	80	1	T	-.1	0	0	0	0	2.0	77	34	8	7	0	0	
YUMA	97	68	100	65	82	0	0	0	0	0	0	0	2.0	77	34	8	7	0	0	
AR FORT SMITH	91	68	93	64	79	6	1.9	.9	1.4	1.9	448	28.6	163	93	45	6	0	2	1	
LITTLE ROCK	89	70	91	63	79	4	1.9	.8	1.6	445	29.2	125	84	55	3	0	2	1	0	
CA BAKERSFIELD	89	56	98	49	72	-2	0	0	0	0	0	0	2.3	60	61	21	4	0	0	
EUREKA	62	51	66	50	57	3	.4	.1	.3	0	0	0	18.9	87	89	70	0	0	0	
FRESNO	88	56	99	51	72	1	0	0	0	0	0	0	4.8	70	65	17	4	0	0	
LOS ANGELES	67	57	70	55	62	-2	T	0	T	0	0	0	3.2	39	88	62	0	0	0	
REDDING	89	56	103	50	73	0	.5	.3	.5	.5	464	19.2	80	66	17	4	0	1	1	
SACRAMENTO	88	51	102	46	69	1	0	0	0	0	0	0	8.5	81	85	21	3	0	0	
SAN DIEGO	67	60	68	59	63	-1	0	0	0	0	0	0	1.9	30	82	64	0	0	0	
SAN FRANCISCO	73	50	91	48	62	2	0	0	0	0	0	0	7.4	60	91	48	1	0	0	
CO DENVER	75	50	93	44	62	0	2.4	1.9	.9	1.5	839	8.7	128	87	37	2	0	4	3	
GRAND JUNCTION	82	54	90	45	68	1	0	-.1	0	0	0	0	3.5	103	34	10	1	0	0	
PUEBLO	82	55	97	49	69	2	T	-.3	T	0	0	0	2.8	76	75	27	2	0	0	
CT BRIDGEPORT	77	56	88	47	67	4	.2	-.5	.2	.2	77	18.8	107	77	50	0	0	1	0	
HARTFORD	80	56	87	44	68	4	.4	-.4	.3	.4	106	21.5	116	90	44	0	0	3	0	
DC WASHINGTON	85	65	94	54	75	4	T	-.8	T	0	0	0	20.8	135	89	46	2	0	0	
FL APALACHICOLA	88	72	93	70	80	2	0	-.8	0	0	0	0	14.3	80	100	67	2	0	0	
DAYTONA BEACH	89	70	93	66	80	3	.1	-1.1	.1	0	0	0	14.4	98	95	53	3	0	0	
JACKSONVILLE	91	70	98	64	81	3	T	-1.2	T	0	0	0	10.0	56	95	49	4	0	0	
KEY WEST	88	78	91	75	83	1	.5	-.5	.3	.2	37	6.3	62	81	60	1	0	4	0	
MIAMI	89	77	90	75	83	3	.3	-1.7	.1	.1	6	5.5	33	79	50	1	0	3	0	
ORLANDO	92	71	96	68	82	2	.6	-.7	.5	T	0	10.0	66	96	41	7	0	2	0	
TALLAHASSEE	93	69	95	66	81	4	1.2	-.1	1.2	1.2	214	17.5	70	94	40	6	0	2	1	
TAMPA	95	73	97	71	84	4	.1	-.9	0	T	9	4.7	33	89	40	7	0	2	0	
WEST PALM BEACH	89	75	90	72	82	2	.2	-1.6	.1	0	0	11.4	63	85	51	2	0	2	0	
GA ATLANTA	83	67	94	60	78	5	.1	-.7	.1	.1	30	22.4	94	86	39	3	0	1	0	
AUGUSTA	93	64	98	60	78	4	.1	-.8	.1	.1	19	17.4	86	95	37	5	0	1	0	
MACON	93	67	97	64	80	4	T	-.9	T	T	0	21.3	99	91	37	5	0	1	0	
SAVANNAH	92	70	98	67	81	5	.4	-.8	.4	.4	76	9.5	52	95	43	4	0	1	0	
HI HILO	81	68	82	66	75	1	1.4	-.2	.8	.8	127	99.1	167	94	66	0	0	4	1	
HONOLULU	89	72	90	69	80	3	T	-1.2	T	0	0	12.7	100	84	49	2	0	0	0	
KAHULUI	86	69	87	64	77	1	.1	.1	.1	0	0	26.0	231	91	57	0	0	1	0	
LIHUE	82	72	83	69	77	1	1.3	.7	1.3	1.3	630	31.6	152	89	65	0	0	1	1	
ID BOISE	73	43	86	38	58	-3	T	-.2	T	T	33	6.5	105	80	28	0	0	1	0	
LEWISTON	72	52	86	42	62	0	1.0	.7	.9	T	0	6.7	112	79	42	0	0	2	1	
POCATELLO	65	41	80	38	53	-5	1.0	.7	.5	.5	433	6.5	122	96	41	0	0	4	1	
IL CHICAGO	77	56	85	42	67	3	1.7	.9	.7	1.2	283	7.4	58	94	57	0	0	4	1	
MOLINE	80	58	91	44	69	2	2.3	1.3	.9	1.2	293	12.5	88	93	51	1	0	5	2	
PEORIA	80	60	88	48	70	3	.4	-.5	.2	.2	61	10.2	73	92	58	0	0	5	0	
QUINCY	80	61	89	50	71	3	1.1	-.1	.8	.3	68	7.1	49	89	55	0	0	3	1	
ROCKFORD	78	58	87	45	68	3	1.9	1.0	1.0	.9	212	8.7	65	97	60	0	0	2	2	
SPRINGFIELD	80	62	87	49	71	3	1.0	.3	.7	.3	91	13.8	98	97	57	0	0	4	1	
IN EVANSVILLE	87	64	92	50	76	5	1.0	.1	.5	.8	214	25.5	131	94	50	3	0	4	0	
FORT WAYNE	78	58	86	41	68	3	6.0	5.2	4.4	4.7	17.4	121	96	62	0	0	4	2		
INDIANAPOLIS	82	61	88	45	72	4	1.1	.3	.9	1.1	295	18.0	110	94	54	0	0	3	1	
SOUTH BEND	77	57	86	40	67	2	3.6	2.9	1.6	2.3	663	12.8	87	97	62	0	0	5	3	
IA DES MOINES	76	58	87	51	67	0	1.2	.3	.4	.3	77	8.7	73	91	52	0	0	5	0	
SIOUX CITY	76	55	95	48	65	-1	1.1	.3	.9	T	0	4.6	49	89	43	1	0	2	1	
WATERLOO	78	57	89	48	68	3	.2	-.8	.1	.1	32	6.4	53	90	49	0	0	3	0	
KS CONCORDIA	84	61	94	54	73	4	.9	-.1	.6	.9	193	6.9	69	85	45	3	0	4	1	
DODGE CITY	82	61	94	54	72	2	.1	-.6	.1	.1	45	5.3	68	85	47	2	0	3	0	
GOODLAND	79	52	95	45	65	1	.2	-.5	.2	.2	69	4.5	74	97	39	2	0	1	0	
TOPEKA	84	63	94	57	73	4	.5	-.6	.2	.3	66	10.2	87	89	53	2	0	4	0	
WICHITA	84	64	91	59	74	3	1.8	.9	1.0	.8	195	9.5	93	91	54	2	0	3	2	
KY BOWLING GREEN	87	64	95	50	76	5	.2	-.8	.1	.2	39	30.6	134	92	52	3	0	2	0	
LEXINGTON	84	64	90	48	74	5	.4	-.6	.4	.4	88	28.5	140	86	50	1	0	1	0	
LOUISVILLE	85	66	91	50	76	6	1.1	.2	1.1	1.1	295	28.6	144	85	47	1	0	2	1	
LA ALEXANDRIA	89	71	94	69	80	2	.3	-.7	.2	.3	74	32.5	129	96	55	5	0	3	0	
BATON ROUGE	91	72	96	69	81	4	1.5	.7	.6	1.5	503	28.7	115	99	61	5	0	3	2	
LAKE CHARLES	91	73	96	71	82	4	3.9	2.8	2.4	3.9	891	23.9	114	96	57	4	0	3	2	
NEW ORLEANS	90	72	93	70	81	3	.8	-.3	.4	.4	93	16.9	68	98	56	4	0	3	0	

Based on 1951-80 normals

Weather Data for the Week Ending June 3, 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			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	91	70	92	67	80	3	.7	-.2	.7	.7	182	27.9	132	99	51	6	0	1	1
ME CARIBOU	86	49	74	41	57	1	.8	-.1	.8	.8	260	10.9	87	93	59	0	0	1	1
PORTLAND	72	51	79	42	62	4	T	-.7	T	T	6	17.4	93	91	51	0	0	1	0
MD BALTIMORE	83	61	91	50	72	4	T	-.8	T	T	11	22.5	134	93	53	2	0	1	0
SALISBURY	85	61	94	45	73	5	T	-.8	T	T	0	17.3	98	91	40	2	0	0	0
MA BOSTON	77	58	84	53	68	4	.3	-.5	.3	.3	78	13.6	70	80	46	0	0	1	0
CHATHAM	70	55	80	52	63	6	.2	-.6	.1	.1	39	20.0	98	88	69	0	0	3	0
MI ALPENA	73	49	81	31	61	4	.7	0	0	0	40	8.9	85	96	54	0	1	3	3
DETROIT	77	57	86	42	67	4	4.3	3.6	1.6	1.9	584	12.5	102	93	53	0	0	5	5
FLINT	76	55	82	36	66	4	2.1	1.4	1.0	.4	123	9.7	87	96	59	0	0	5	2
GRAND RAPIDS	75	55	82	38	65	2	3.4	2.7	1.6	.6	174	11.2	87	98	60	0	0	5	2
HOUGHTON LAKE	73	54	78	34	64	5	1.5	.8	1.4	.1	23	8.9	88	90	55	0	0	2	1
LANSING	76	54	83	34	65	3	5.5	4.8	4.1	.5	142	12.5	114	96	57	0	0	5	1
MARQUETTE	64	42	74	38	53	-3	.4	-.5	.2	T	3	10.0	68	93	47	0	0	4	0
MUSKOGON	71	52	76	36	61	0	3.6	3.1	1.9	.4	172	10.4	84	99	60	0	0	5	2
SAULT ST. MARIE	68	44	75	32	56	2	.8	-.1	.4	.4	125	10.9	96	96	53	0	1	3	0
MN ALEXANDRIA	69	50	80	45	59	-2	.4	-.4	.4	T	0	5.8	71	90	51	0	0	1	0
DULUTH	65	45	72	37	55	0	.3	-.5	.2	T	11	9.3	99	91	45	0	0	4	0
INT'L FALLS	65	42	75	36	54	-3	.5	-.3	.3	T	13	5.1	73	96	40	0	0	3	0
MINNEAPOLIS	72	52	82	47	62	-1	.7	-.2	.6	0	0	9.8	110	83	46	0	0	2	1
ROCHESTER	72	51	84	44	61	-1	.3	-.6	.2	.2	65	7.9	83	93	56	0	0	3	0
MS GREENWOOD	90	70	93	65	80	4	1.5	.6	1.4	1.5	425	28.4	106	88	50	4	0	2	1
JACKSON	90	69	93	64	79	3	1.5	.6	1.3	1.5	438	23.0	89	100	55	4	0	2	1
MERIDIAN	90	66	92	58	78	3	.9	-.1	.7	.9	261	28.0	107	96	49	4	0	2	1
MO CAPE GIRARDEAU	89	66	93	52	77	-1	T	-1.0	T	T	3	23.9	116	89	45	5	0	1	0
COLUMBIA	80	62	88	50	71	2	.4	-.6	.3	.1	24	12.7	81	92	57	0	0	3	0
KANSAS CITY	81	62	91	56	72	1	1.4	.3	.7	1.3	266	11.0	83	92	60	1	0	4	2
SAINT LOUIS	85	67	93	55	76	5	2.0	1.2	2.0	T	11	14.8	102	84	45	3	0	2	1
SPRINGFIELD	83	62	86	55	73	3	.2	-.9	.1	.2	43	15.8	99	94	54	0	0	2	0
MT BILLINGS	65	44	76	39	54	-5	.7	-.2	.3	.3	133	8.6	119	90	46	0	0	3	0
GLASGOW	64	44	72	41	54	-6	.4	-.1	.3	.1	48	5.4	155	91	44	0	0	3	0
GREAT FALLS	61	39	72	32	50	-7	1.2	.5	.5	.2	60	8.5	124	96	52	0	2	4	1
HAVRE	63	41	74	33	52	-7	1.0	.5	.7	T	0	4.7	102	75	42	0	0	3	1
HELENA	63	41	76	32	52	-4	.4	0	.3	.3	133	5.6	117	86	38	0	2	3	0
KALISPELL	62	43	76	34	52	-3	.5	0	.2	.2	88	8.3	127	94	48	0	0	4	0
MILES CITY	64	44	75	40	54	-7	.4	-.3	.2	.3	96	8.0	139	80	43	0	0	5	0
MISSOULA	65	42	76	36	54	-2	.6	-.1	.3	.3	130	5.9	103	90	46	0	0	2	0
NE GRAND ISLAND	81	56	101	47	68	2	.3	-.6	.3	.3	69	4.0	42	91	41	2	0	2	0
LINCOLN	82	57	99	52	70	2	.3	-.7	.3	.3	63	3.6	34	90	42	1	0	1	0
NORFOLK	76	53	99	45	65	-1	.5	-.5	.3	T	9	5.3	59	93	43	1	0	3	0
NORTH PLATTE	77	50	94	43	63	0	.4	-.5	.2	.1	32	4.9	65	94	43	1	0	2	0
OMAHA	80	57	98	53	69	0	.9	-.1	.8	.8	184	5.5	49	90	45	1	0	2	1
SCOTTSBLUFF	75	46	92	37	61	-2	.2	-.5	.1	T	0	4.3	70	88	32	1	0	2	0
VALENTINE	72	45	89	35	58	-5	.2	-.5	.1	.1	23	3.3	50	86	44	0	0	3	0
NV ELY	66	35	74	28	50	-4	.3	0	.3	T	0	2.9	66	75	27	0	4	1	0
LAS VEGAS	88	62	95	57	75	-3	T	0	T	T	0	1.3	74	26	11	4	0	0	0
RENO	71	40	85	31	56	-2	.2	.1	.2	T	40	2.8	70	77	20	0	1	2	0
WINNEMUCCA	72	37	87	26	55	-4	T	-.2	T	T	30	2.4	64	65	19	0	2	1	0
NH CONCORD	78	51	85	36	64	4	.1	-.6	.1	.1	30	13.6	94	96	43	0	0	2	0
NJ ATLANTIC CITY	83	58	93	42	70	6	0	-.6	0	0	0	19.8	114	91	45	2	0	0	0
NM ALBUQUERQUE	89	59	93	55	74	4	0	-.1	0	0	0	1.4	66	42	10	3	0	0	0
CLOVIS	87	62	96	56	75	5	.7	.1	.4	.7	271	1.9	41	80	35	4	0	2	0
ROSWELL	95	67	98	60	81	7	T	-.2	T	T	0	1.1	47	63	18	6	0	0	0
NY ALBANY	77	55	84	40	66	4	.9	.1	.5	.8	245	14.2	100	94	48	0	0	5	1
BINGHAMTON	75	54	83	40	65	5	.9	.1	.3	.7	203	15.4	107	92	47	0	0	5	0
BUFFALO	72	54	78	42	63	1	2.1	1.5	.7	.7	263	17.3	119	92	51	0	0	5	2
NEW YORK	83	64	94	56	74	7	.2	-.6	.2	.2	47	21.6	122	77	38	2	0	1	0
ROCHESTER	77	55	82	41	66	4	1.7	1.1	.8	.3	89	14.3	113	93	51	0	0	5	2
SYRACUSE	79	55	82	41	67	5	1.7	1.0	.8	1.2	359	12.9	86	98	54	0	0	5	1
NC ASHEVILLE	82	57	86	52	69	2	.2	-.7	.2	.2	54	18.1	95	96	45	0	0	1	0
CHARLOTTE	98	66	95	58	77	5	0	-.8	0	0	0	19.2	98	84	42	4	0	0	0
GREENSBORO	86	61	93	54	73	3	.9	0	.9	.9	235	21.6	123	88	43	2	0	1	1
HATTERAS	81	65	88	57	73	3	.2	-.8	.2	.2	49	32.5	159	94	53	0	0	1	0
NEW BERN	89	64	101	54	77	4	T	-.1	T	T	9	21.5	110	94	43	4	0	1	0
RALEIGH	87	62	95	52	75	4	.1	-.7	.1	.1	40	22.1	126	89	40	3	0	1	0
WILMINGTON	88	65	97	56	76	2	T	-.1	T	T	0	22.1	118	95	50	4	0	0	0
ND BISMARCK	64	43	75	37	54	-6	1.0	.4	.7	T	13	4.9	88	93	45	0	0	3	1
FARGO	68	47	74	39	58	-3	.3	-.3	.2	0	0	7.2	117	91	46	0	0	3	0
GRAND FORKS	70	46	78	38	58	-2	.2	-.3	.1	T	4	5.1	92	87	32	0	0	3	0
WILLISTON	64	43	73	40	54	-6	.6	0	.3	.3	119	5.3	110	96	46	0	0	3	0
OH AKRON-CANYON	79	58	85	41	68	5	1.8	1.0	1.5	1.8	547	8.3	121	92	51	0	0	5	1
CINCINNATI	83	64	90	49	74	6	.1	-.8	.1	.1	23	24.2	138	90	52	1	0	1	0
CLEVELAND	80	58	87	42	69	5	3.0	2.2	1.7	1.9	562	22.0	152	96	51	0	0	5	2
COLUMBUS	80	59	87	43	69	3	.8	-.1	.6	.8	200	8.0	115	92	47	0	0	2	1

Weather Data for the Week Ending June 3, 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		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	81	63	88	46	72	5	1.2	.3	.7	1.1	289	27.5	181	89	50	0	0	4	1	
TOLEDO	78	56	85	38	67	3	4.4	3.7	1.6	2.2	676	15.2	121	97	54	0	0	5	4	
YOUNGSTOWN	79	54	85	38	66	4	2.9	2.1	1.2	1.7	509	17.0	112	96	50	0	0	3	3	
OK OKLAHOMA CITY	85	67	90	63	76	3	4.6	3.5	2.6	4.2	902	14.5	111	87	49	2	0	3	2	
TULSA	86	69	90	63	78	4	.7	-.5	.3	.7	130	13.3	83	84	52	1	0	3	0	
OR ASTORIA	66	49	80	43	57	3	.2	-.5	T	0	0	30.2	90	95	63	0	0	2	0	
BURNS	69	38	80	28	53	3	.6	.4	.5	.5	771	5.5	111	78	25	0	0	1	1	
MEDFORD	81	47	93	42	64	3	T	-.2	T	0	0	10.3	107	88	28	3	0	1	0	
PENDLETON	74	46	85	38	61	3	-.1	-.1	-.1	0	0	8.1	135	82	37	0	0	1	0	
PORTLAND	74	51	84	43	62	3	T	-.4	T	0	0	17.8	98	95	50	0	0	0	0	
SALEM	76	46	88	43	61	4	T	-.4	T	0	0	15.0	74	95	42	0	0	1	0	
PA ALLENTOWN	81	56	90	43	69	4	1.4	.6	1.4	T	0	18.6	104	91	43	1	0	1	1	
ERIE	76	57	82	41	66	6	1.7	-.9	1.0	1.1	297	18.9	132	90	50	0	0	4	1	
HARRISBURG	83	57	92	45	70	3	.1	-.7	.1	.1	38	17.8	109	90	43	1	0	2	0	
PHILADELPHIA	84	61	93	48	73	5	0	-.8	0	0	0	19.1	114	88	44	2	0	0	0	
PITTSBURGH	82	59	88	42	70	6	.6	-.5	.5	.5	153	19.4	122	89	44	0	0	2	1	
SCRANTON	78	55	89	42	67	4	.6	-.2	.3	.3	94	14.3	107	90	46	0	0	4	0	
RI PROVIDENCE	77	57	89	49	67	5	.7	0	.4	.4	100	19.5	99	87	49	0	0	3	0	
SC CHARLESTON	90	69	97	63	79	4	T	-.3	T	2	13.0	70	95	47	4	0	1	0		
COLUMBIA	93	65	99	59	79	4	0	-.9	0	0	0	18.7	87	90	34	5	0	0	0	
FLORENCE	91	65	98	60	78	3	.4	-.5	.4	.4	100	17.0	96	92	39	4	0	1	0	
GREENVILLE	88	61	94	55	74	2	0	-.9	0	0	0	17.7	76	96	41	4	0	0	0	
SD ABERDEEN	69	49	82	40	58	2	.2	-.5	.2	.1	16	6.8	99	89	51	0	0	3	0	
HURON	70	47	82	36	58	2	.1	-.7	.1	0	0	5.8	79	98	51	0	0	1	0	
RAPID CITY	67	43	83	36	55	2	.3	-.4	.2	.1	15	4.2	62	91	48	0	0	4	0	
SIoux FALLS	73	50	90	44	62	2	.5	-.4	.4	T	0	4.8	54	93	45	1	0	2	0	
TN CHATTANOOGA	87	62	92	52	74	3	T	-.8	T	T	0	26.9	107	97	51	2	0	0	0	
KNOXVILLE	85	61	90	53	73	2	.7	-.2	.7	.7	176	24.5	110	95	51	1	0	1	1	
MEMPHIS	90	69	93	56	79	4	.2	-.8	.2	.2	49	28.8	113	82	51	4	0	1	0	
NASHVILLE	85	65	91	53	75	3	.2	-.8	.2	.2	46	26.7	114	89	49	2	0	2	0	
TX ABILENE	90	69	92	62	80	3	1.2	.5	1.1	1.2	400	10.3	115	79	37	4	0	3	1	
AMARILLO	84	61	97	55	73	2	1.4	-.7	.7	.9	266	5.4	90	87	42	3	0	4	2	
AUSTIN	93	73	95	69	83	4	0	-.9	0	0	0	16.1	121	98	41	7	0	0	0	
BEAUMONT	90	73	94	68	82	4	.8	-.4	.5	.8	160	26.6	127	94	57	4	0	3	0	
BROWNSVILLE	92	76	93	73	84	3	T	-.6	T	T	0	7.3	101	94	50	7	0	0	0	
CORPUS CHRISTI	92	74	94	70	83	3	0	-.9	0	0	0	6.8	72	100	52	7	0	0	0	
DEL RIO	94	73	96	70	83	3	T	-.4	T	0	0	4.5	75	71	30	7	0	1	0	
EL PASO	93	65	95	57	79	2	T	-.1	T	0	0	2.1	137	49	15	7	0	0	0	
FORT WORTH	92	71	93	67	81	4	.1	-.7	.1	.1	37	21.5	147	88	41	7	0	1	0	
GALVESTON	87	78	88	75	83	4	.4	-.4	.4	.4	106	12.6	91	87	67	0	0	1	0	
HOUSTON	92	72	94	65	82	4	.1	-1.0	.1	-.1	21	24.8	135	95	47	6	0	3	0	
LUBBOCK	92	65	99	57	78	5	2.7	2.0	1.5	2.7	954	5.3	94	78	38	5	0	3	2	
MIDLAND	93	68	97	63	81	4	.2	-.2	.2	.2	124	3.1	69	74	32	6	0	3	0	
SAN ANGELO	92	69	93	65	80	3	1.1	-.5	.8	.8	345	8.5	127	81	35	6	0	2	1	
SAN ANTONIO	97	75	99	72	86	7	0	-.8	0	0	0	7.3	64	85	30	7	0	0	0	
VICTORIA	93	74	95	72	84	5	T	-1.1	T	T	0	7.9	61	96	41	7	0	0	0	
WACO	93	72	95	66	82	4	.3	-.6	.3	.3	71	18.3	126	94	42	7	0	1	0	
WICHITA FALLS	91	69	94	61	80	4	1.8	-.9	1.0	1.8	497	12.7	112	87	44	5	0	3	2	
UT CEDAR CITY	73	43	80	32	58	3	T	-.1	T	T	0	2.7	62	62	16	0	1	0	0	
SALT LAKE CITY	74	48	87	44	60	3	.7	.5	.4	T	0	6.1	75	87	27	0	0	0	0	
VT BURLINGTON	74	55	83	41	64	4	1.5	.8	1.2	1.3	394	10.1	86	96	51	0	0	4	1	
VA NORFOLK	87	63	98	50	75	5	.4	-.4	.3	.4	121	24.6	139	89	37	4	0	2	0	
RICHMOND	88	61	96	47	74	4	.4	-.5	.4	.4	106	20.9	125	94	41	3	0	1	0	
ROANOKE	85	61	91	48	73	4	.1	-.7	0	-.1	18	15.4	93	90	44	3	0	2	0	
WA QUILLAYUTE	69	48	89	44	59	5	.1	-.8	.1	0	0	41.0	80	98	55	0	0	1	0	
SEATTLE-TACOMA	71	52	83	46	61	4	.3	0	.3	0	0	17.3	96	94	51	0	0	2	0	
SPOKANE	70	48	82	38	59	1	.7	.4	.6	.1	86	8.0	100	91	41	0	0	2	1	
YAKIMA	79	47	89	36	63	2	.1	-.1	.1	0	0	3.4	91	83	31	0	0	1	0	
WV BECKLEY	80	58	84	40	69	6	.9	0	.9	.9	230	19.3	108	88	41	0	0	1	1	
CHARLESTON	85	61	90	44	73	5	.4	-.3	.4	.4	147	26.2	145	94	44	1	0	2	0	
HUNTINGTON	84	62	90	46	73	5	0	-.8	0	0	0	25.8	145	89	45	1	0	0	0	
PARKERSBURG	84	60	90	43	72	4	.1	-.8	.1	.1	24	23.5	145	89	45	1	0	0	0	
WI GREEN BAY	69	51	80	43	60	0	1.9	1.1	1.0	.2	63	8.6	84	94	60	0	0	5	2	
LACROSSE	74	55	88	44	64	0	1.8	.9	1.7	.1	20	8.1	75	96	55	0	0	3	1	
MADISON	75	56	81	40	66	3	1.0	.1	.4	.3	73	6.5	59	93	54	0	0	4	0	
MILWAUKEE	75	53	83	46	64	4	2.2	1.5	1.2	.6	172	9.3	79	95	56	0	0	5	1	
WAUSAU	68	50	77	42	59	1	3.0	2.1	1.4	.5	133	8.8	81	95	57	0	0	4	3	
WY CASPER	65	40	87	34	53	3	1.1	.7	.3	.4	225	5.9	102	81	38	0	0	5	0	
CHEYENNE	68	44	87	40	56	1	1.1	.6	.6	.6	255	4.4	79	82	42	0	0	5	1	
LANDER	64	41	83	33	53	3	4.1	3.6	1.8	1.7	850	9.3	127	87	41	0	0	5	3	
SHERIDAN	66	41	82	34	54	1	-.2	-.3	.1	.1	19	6.0	83	91	42	0	0	5	0	
PR SAN JUAN	-999	75	-999	72	-999	1	0	-1.3	0	0	0	8.9	52	95	76	0	0	5	0	

May Weather and Crop Summary

Weather

HIGHLIGHTS: Severe thunderstorms brought drenching rains from the central Plains to the central Gulf coast and from the Great Lakes and middle Mississippi Valley to the northern and middle Atlantic coast. These storms dumped torrential rain and caused severe flooding in the Red River Valley of the South and the eastern Corn Belt. Dry weather covered much of the northern Plains, northwestern Corn Belt, and the southern Atlantic seaboard. Omaha, NE, received the least amount of precipitation for the month on record. Temperatures were abnormally high in the Southwest, southern Plains, southern Florida, northern Plains, and New England. Cool weather prevailed over the eastern Corn Belt and central and southern Appalachians.

MAY 1-6: Two slow moving weather systems brought heavy rain and severe weather across the Gulf and Atlantic Coast States. Intense thunderstorms spawned tornadoes from the southern Plains into the Southeast. Beneficial showers were scattered across the Corn Belt. A large, cold high pressure system moved into the central portions of the country at the end of the period and dropped temperatures below freezing in the North Central States. Hot, dry weather remained over the Southwest.

MAY 7-13: A stagnant weather pattern during the last half of the week caused persistent rain from the Northeast into the Ohio Valley. Flooding resulted from the steady rain in northern New England. This pattern also brought cool air into the East, dry weather over the western Corn Belt, and scattered showers and thunderstorms from the northern Rockies to the western Gulf coast. Intense thunderstorms produced severe weather and heavy rain across the southern Plains into the Southeast.

MAY 14-20: A low pressure system continued to bring drenching rain to the Middle Atlantic States early in the week. Violent weather struck from the southern Plains into the Southeast with tornadoes and torrential rain. Severe flooding occurred in the Red River Valley. Much needed rain soaked the parched central Plains and lower Missouri Valley, and thunderstorms caused locally heavy rain over dry southern Florida. Temperatures were unseasonably high from the northern Plains to New England and along the Gulf coast, while a powerful cold front brought cool air into the Intermountain Plateau during the latter part of the week.

MAY 21-27: Severe thunderstorms brought soaking rains to the central Plains and much of the eastern half of the Nation. Rainfall was especially beneficial in the dry central Plains and western Corn Belt, but heavy amounts caused flooding in the Ozarks and Ohio Valley. The South suffered from hot, humid conditions, while cool air covered the Northwest and moved into the Central States behind a strong cold front during the latter half of the week.

MAY 28-31: A slow moving frontal system separated cool air across the North Central States from hot, muggy air across the central and southern Plains to the middle and southern Atlantic coast. Showers and thunderstorms developed along the system extending from the Plains, across the middle Mississippi Valley, Great Lakes, and the Northeast. Heavy rains caused flooding in lower Michigan and northern Indiana.

Fieldwork

Rain slowed fieldwork in the eastern Corn Belt and portions of the Delta and Southeast during May. Soil moisture was adequate to surplus in those areas. In the central and southern Great Plains, soil moisture was mostly short to adequate in early May. During the last half of the month, rain improved soil moisture in the central and southern Great Plains and the western Corn Belt. In the northern Great Plains and the West, soil moisture was mostly adequate to short.

At the beginning of May, corn planting was 25 percent (%) complete, 3 percentage points behind the 5-year average. Rain slowed planting in the eastern Corn Belt and portions of the Delta and Southeast. By the end of May, planting was 89% complete, 4 points behind normal. Planting was 20 points and 62 points behind normal in Indiana and Ohio, respectively. Planting was complete in Georgia, Iowa, Missouri, and Texas and nearly complete in Illinois, Kansas, Michigan, and Nebraska.

Cotton planting lagged behind normal in the Delta and Southeast during May. About midmonth, cool temperatures slowed germination and growth in the Delta. Hail and heavy rains forced some replanting. By the end of May, planting was 73% complete, slightly behind the 76% average. Planting was complete in Arizona, California, New Mexico, and Tennessee and nearly complete in Alabama and Missouri.

Soybean planting was underway in all major producing States except Minnesota and North Carolina by the end of the first week in May. By the end of May, planting was 55% complete, 3 points behind normal. Planting progress was near or ahead of normal in the major producing States except in Indiana, Louisiana, Mississippi, North Carolina, and Ohio. Rain slowed planting in the eastern Corn Belt and portions of the Delta and Southeast during the month. Planting was 30 points and 58 points behind normal in Indiana and Ohio, respectively.

Sorghum planting was underway in all 11 major producing States by the end of the first week in May. Dry soil conditions slowed planting in the central and southern Great Plains in early May. Rain slowed planting in the Delta during the month. By the end of May, planting was 52% complete, 3 points ahead of normal.

Rice planting was 95% complete, equal to the average, by the end of May. Planting was complete in Texas by midmonth. Planting lagged behind normal in Louisiana and Mississippi.

Spring wheat planting lagged behind normal in four of the five major producing States during the first half of May. By the end of May, planting was nearly complete and emergence was near or ahead of normal except in Montana. Condition of the crop was mostly good to fair.

Winter wheat was mostly fair to poor during May. Inadequate soil moisture stressed winter wheat in the central and southern Great Plains. About midmonth, rain and cool temperatures reduced moisture stress in Oklahoma. Late in May, rain improved crop conditions in Kansas, but wheat was still mostly very poor to poor. At the end of May, harvest was underway in California, Georgia, Oklahoma, and Texas. Heading was 74% complete, 3 points ahead of normal.

May Weather in Historical Perspective

Precipitation averaged across the United States for May was near the long-term mean (fig. 1) but considerably wetter than May 1988, according to preliminary data supplied by NOAA's National Climatic Data Center. The areally averaged temperature for the nation was slightly warmer than the long-term mean (fig. 2).

The temperature and precipitation rankings for May 1989 for the nine U.S. regions are listed in table 1. Regional temperature patterns were generally near the median values.

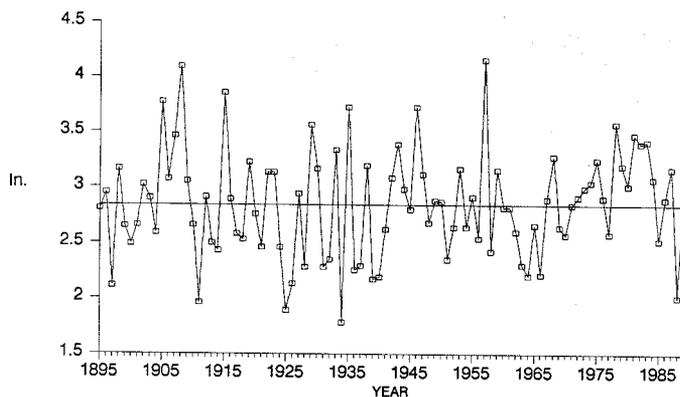
A notable exception is the Southwest region, with the 16th coldest May on record. The precipitation pattern was also generally near the median values, except in the unusually wet Northeast and rather dry West North Central and Southwest regions.

Despite scattered heavy thunderstorms during May in Kansas, the period from October 1988 through May 1989 still ranks as the 4th driest such period for this key agricultural State in the past 95 years. In Nebraska (fig. 3), this was the driest such period of record.

Figure 1

U.S. NATIONAL PRECIPITATION

MAY, 1895-1989

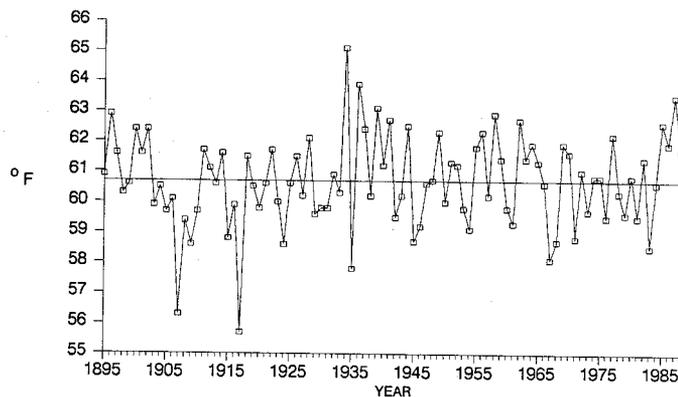


National Climatic Data Center, NOAA

Figure 2

U.S. NATIONAL TEMPERATURE

MAY, 1895-1989



National Climatic Data Center, NOAA

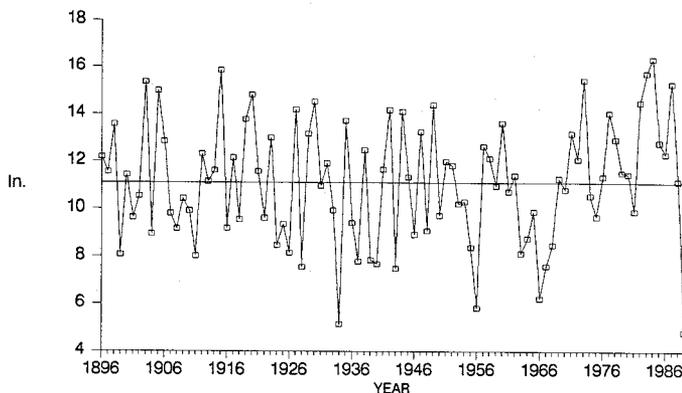
Table 1. Temperature and Precipitation Rankings for May 1989, based on the period 1895-1989. 1 = driest/coldest, 95 = wettest/hottest.

Region	Precipitation	Temperature
National	43	60
Northeast	94	53
East North Central	28	51
Central	55	23
Southeast	48	16
West North Central	16	56
South	56	81
Southwest	16	90
Northwest	50	39
West	46	65

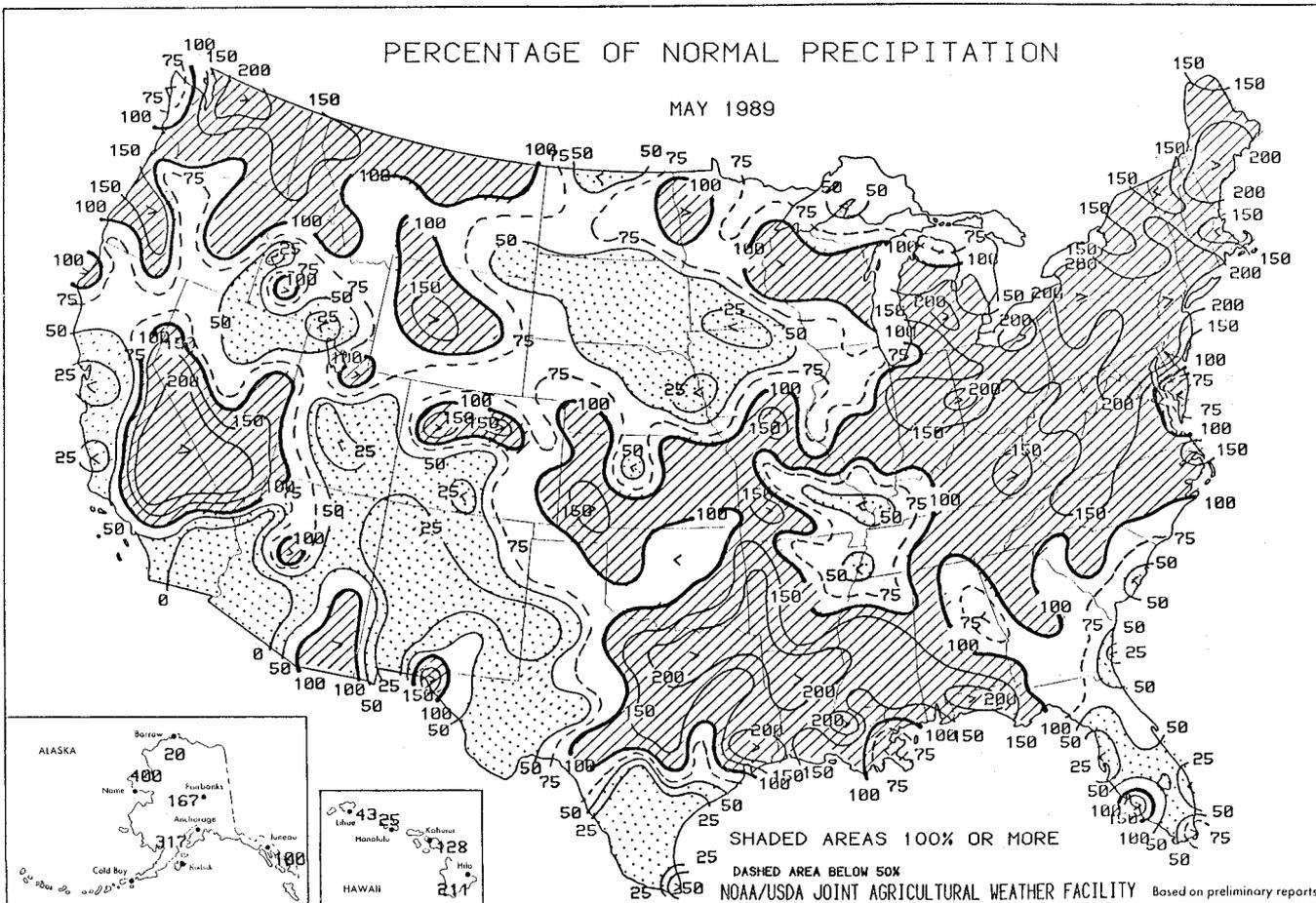
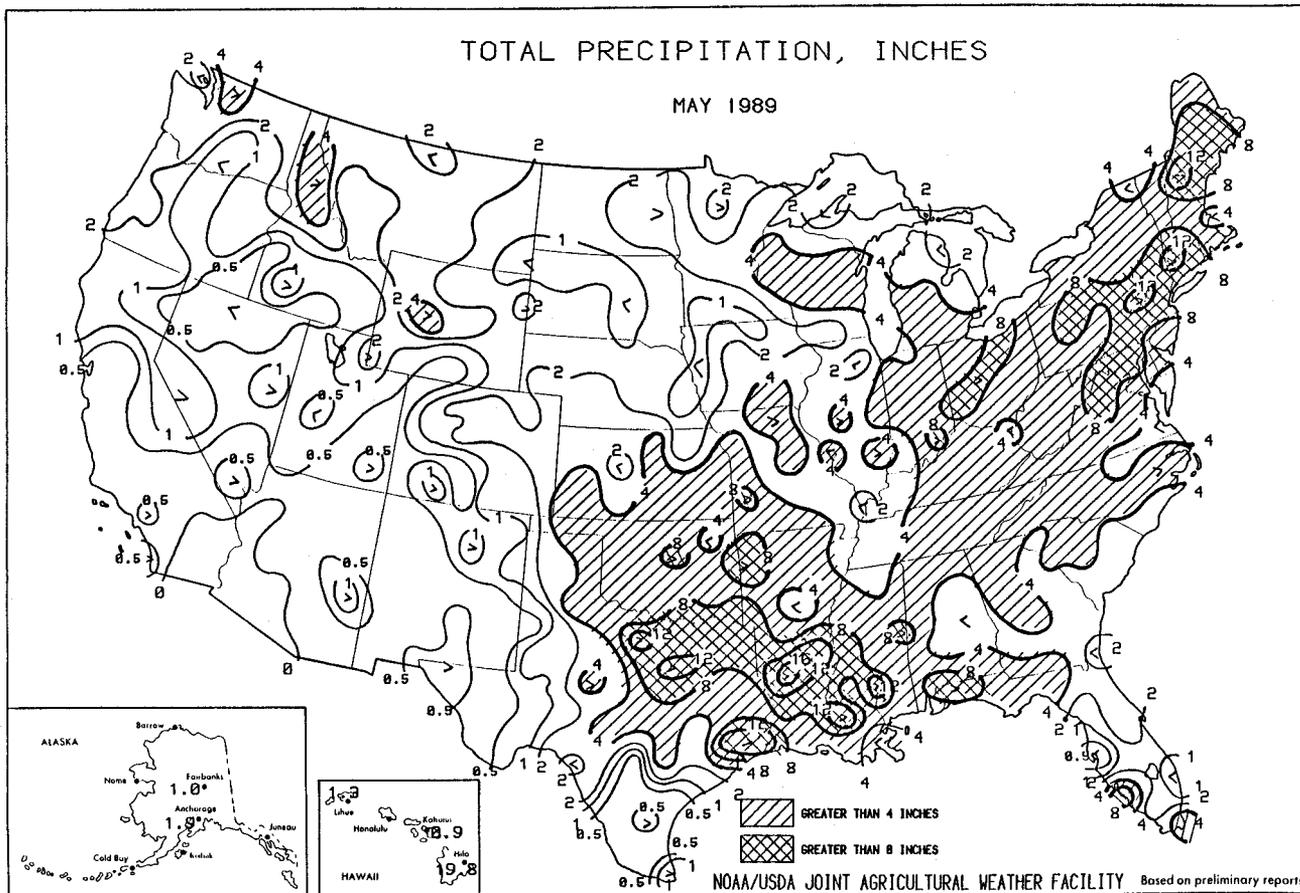
Figure 3

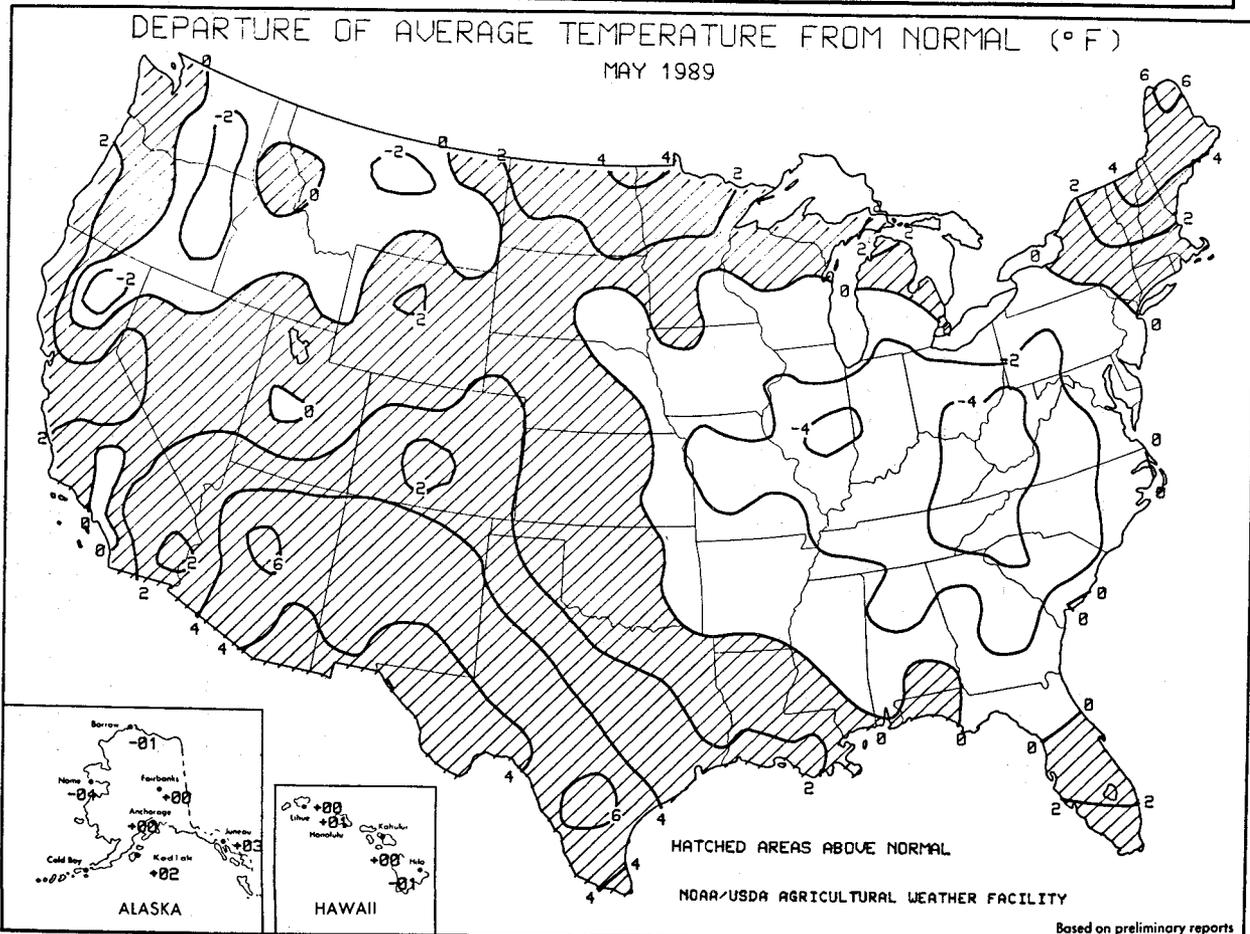
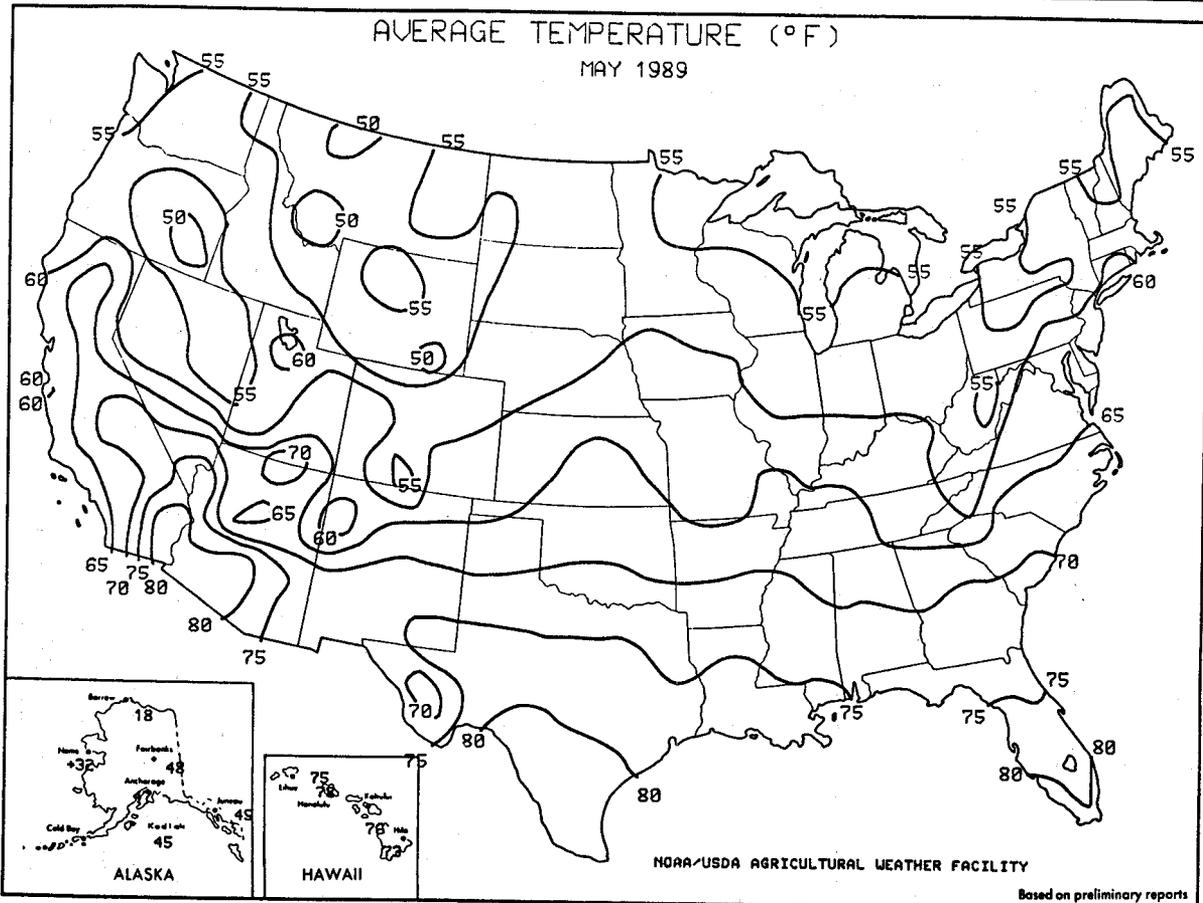
NEBRASKA STATEWIDE PRECIPITATION

OCT-MAY, 1895-96 to 1988-89



National Climatic Data Center, NOAA





Temperature and Precipitation Data for May 1989

States and Stations	Temperature of		Precipitation Inches		States and Stations	Temperature of		Precipitation Inches		States and Stations	Temperature of		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	68	-2	3.8	-0.7	LA ALEXANDRIA	76	1	9.6	4.4	COLUMBUS	57	-4	4.7	1.0
MOBILE	74	-1	6.5	1.0	BATON ROUGE	76	2	14.7	9.9	DAYTON	59	-3	8.6	4.9
MONTGOMERY	71	-1	3.9	-0.1	LAKE CHARLES	77	2	7.6	2.0	TOLEDO	57	-2	4.9	2.0
AK ANCHORAGE	47	0	1.9	1.4	NEW ORLEANS	76	2	3.5	-1.6	YOUNGSTOWN	56	-1	6.3	3.0
BARROW	18	-1	T	-0.1	SHREVEPORT	74	1	10.1	5.4	OK OKLAHOMA CITY	69	1	4.3	-1.1
FAIRBANKS	48	0	1.0	0.4	ME SHREVEPORT	75	7	4.1	1.7	TULSA	69	0	4.0	-1.2
JUNEAU	49	3	3.4	0.0	MD PORTLAND	56	3	8.7	5.5	OR ASTORIA	53	1	3.0	0.1
KODIAK	45	2	2.0	-3.2	MD BALTIMORE	62	-1	8.7	5.3	MEDFORD	59	1	1.0	-0.2
NOME	32	-4	2.0	1.5	MA SALSIBURY	62	-1	2.1	-1.3	PENDLETON	56	-2	1.5	0.4
AZ FLAGSTAFF	54	4	0.6	-0.2	MA BOSTON	59	1	3.5	0.0	PORTLAND	58	1	2.9	0.8
PHOENIX	83	6	T	-0.1	MI CHATHAM	54	1	4.4	0.7	SALEM	56	1	1.1	-0.9
PRESOTT	63	6	0.6	0.1	MI ALPENA	53	1	1.9	-0.9	PA ALLENTOWN	59	-1	9.5	6.0
TUCSON	77	4	0.1	0.0	MI DETROIT	57	-1	4.2	1.4	ERIE	56	0	6.1	3.0
WINSLOW	66	4	0.1	-0.2	MI FLINT	56	0	3.9	1.2	HARRISBURG	60	-2	9.7	6.0
YUMA	81	3	0.0	0.0	MI GRAND RAPIDS	56	-2	4.3	1.5	PHILADELPHIA	62	-1	6.8	3.6
AR FORT SMITH	69	0	10.2	5.4	MI HOUGHTON LAKE	55	1	3.2	0.6	PITTSBURGH	58	-2	6.6	3.1
LITTLE ROCK	69	-2	5.4	0.2	MI LANSING	55	-2	6.6	4.2	SCHRANTON	57	-1	8.0	4.9
CA BAKERSFIELD	70	-1	0.5	0.2	MI MARQUETTE	50	0	2.2	-1.8	RI PROVIDENCE	59	1	6.1	2.6
EUREKA	56	4	1.7	0.1	MI MUSKOGON	55	-2	4.6	2.1	SC CHARLESTON	72	0	2.1	-2.3
FRESNO	70	2	0.9	0.6	MI SAULT ST. MARIE	52	3	2.1	-0.8	COLUMBIA	69	-3	4.4	0.6
LOS ANGELES	62	0	T	-0.1	MN ALEXANDRIA	56	1	1.9	-1.1	FLORENCE	69	-2	3.0	-0.3
REDDING	67	-2	0.7	-0.6	MN DULUTH	52	2	3.5	0.4	GREENVILLE	64	-5	3.6	-0.3
SACRAMENTO	66	1	0.1	-0.3	MN INT'L FALLS	53	2	1.9	-0.5	SD ABERDEEN	57	0	1.2	-1.4
SAN DIEGO	64	0	T	-0.2	MN MINNEAPOLIS	58	-1	3.4	0.2	HURON	56	-1	1.0	-1.7
SAN FRANCISCO	60	2	T	-0.3	MN ROCHESTER	56	-1	1.7	-1.7	RAPID CITY	55	0	1.4	-1.2
STOCKTON	67	1	0.1	-0.2	MS ST. CLOUD	55	-1	3.3	0.0	SIoux FALLS	58	0	1.4	-1.8
CO DENVER	59	2	3.8	1.4	MS GREENWOOD	71	-2	5.2	0.3	TN BRISTOL	60	-5	4.1	0.5
GRAND JUNCTION	64	2	0.4	-0.4	MS JACKSON	72	-1	7.9	3.0	CHATTANOOGA	65	-3	4.6	0.6
PUEBLO	63	2	1.5	0.0	MS MERIDIAN	70	-1	7.4	3.2	KNOXVILLE	62	-5	5.3	1.6
CT BRIDGEPORT	60	1	9.5	6.1	MS TUPELO	69	-2	3.8	-1.4	MEMPHIS	70	-2	2.3	-2.7
HARTFORD	60	1	12.0	8.7	MO COLUMBIA	62	-3	4.8	0.3	NASHVILLE	66	-2	4.6	0.1
DC WASHINGTON	64	-2	7.8	4.3	MO KANSAS CITY	63	-3	4.6	0.2	TX ABILENE	76	3	3.1	-0.2
FL APALACHICOLA	74	0	4.2	1.3	MO SAINT LOUIS	64	-1	4.1	0.6	AMARILLO	67	2	2.5	-0.3
DAYTONA BEACH	75	0	2.0	-1.4	MO SPRINGFIELD	63	-2	6.9	2.6	AUSTIN	78	3	6.9	2.7
FT. MYERS	80	2	8.0	3.9	MT BILLINGS	55	0	2.1	-0.3	BEAUMONT	77	2	12.7	8.2
JACKSONVILLE	74	-2	1.6	-2.7	MT GLASGOW	55	1	2.1	0.5	BROWNSVILLE	82	3	1.2	-0.9
KEY WEST	82	1	2.9	-0.4	MT GREAT FALLS	51	-2	2.4	-0.1	CORPUS CHRISTI	82	4	0.1	-3.3
MIAMI	81	3	1.0	-5.5	MT HAVRE	53	-2	1.8	0.1	DEL RIO	81	4	1.9	-0.1
ORLANDO	78	0	2.4	-1.3	MT HELENA	52	-1	1.0	-0.7	EL PASO	74	2	0.7	0.4
TALLAHASSEE	73	-1	5.0	-0.2	MT KALISPELL	51	-1	2.7	0.9	FORT WORTH	74	1	9.6	5.3
TAMPA	78	1	0.2	-3.1	MT MILES CITY	56	-1	1.4	-0.9	GALVESTON	78	3	2.7	-0.6
GA WEST PALM BEACH	79	1	0.8	-5.2	MT MISSOULA	52	0	1.4	-0.3	HOUSTON	78	2	13.6	8.8
ATHENS	67	-2	4.0	-0.8	NE GRAND ISLAND	62	1	1.9	-1.8	LARDO	87	6	0.1	-2.4
ATLANTA	69	-1	6.4	2.4	NE LINCOLN	63	0	0.9	-2.9	LUBBOCK	73	4	0.4	-2.2
AUGUSTA	69	-2	3.0	-0.7	NE NORFOLK	60	-1	1.7	-2.0	MIDLAND	77	5	1.0	-1.1
MACON	70	-3	4.4	0.6	NE NORTH PLATTE	59	1	3.0	-0.3	SAN ANGELO	78	4	1.1	-1.4
SAVANNAH	72	-1	3.0	-1.6	NE OMAHA	63	0	0.6	-3.7	SAN ANTONIO	82	6	0.3	-3.3
HI HILO	73	-1	19.8	10.4	NE SCOTT'SBLUFF	59	1	1.9	-0.8	VICTORIA	81	4	0.7	-3.8
HONOLULU	78	1	0.3	-0.9	NV VALENTINE	58	0	1.2	-1.7	WACO	77	2	9.3	4.6
KAHULUI	76	0	0.9	0.2	NV ELKO	52	0	0.4	-0.6	WICHITA FALLS	73	1	4.5	0.2
LIHUE	75	0	1.3	-1.7	NV ELY	51	1	1.4	0.3	UT CEDAR CITY	58	2	0.6	-0.2
ID BOISE	57	-1	0.2	-1.0	NV LAS VEGAS	76	3	0.6	0.5	SALT LAKE CITY	60	1	1.8	0.4
LEWISTON	59	1	2.6	1.2	NV RENO	57	3	1.3	0.6	VT BURLINGTON	60	4	3.2	0.3
POCATELLO	53	-1	0.8	-0.4	NV WINNEMUCCA	55	0	0.4	-0.4	VA LYNCHBURG	62	-3	5.6	1.9
IL CAIRO	--	-	1.8	-3.1	NH CONCORD	58	3	5.1	2.2	NORFOLK	66	-1	3.0	-0.8
CHICAGO	58	-1	1.6	-1.5	NJ ATLANTIC CITY	60	0	4.6	1.6	RICHMOND	64	-2	5.0	1.5
MOLINE	59	-3	3.4	-0.8	NM ALBUQUERQUE	69	4	T	-0.4	ROANOKE	61	-4	6.5	3.0
PEORIA	59	-2	2.2	-1.6	NY CLOVIS	70	4	0.2	-1.8	WA COLVILLE	51	-4	2.8	-1.2
QUINCY	61	-2	2.3	-2.1	NY ROSWELL	74	5	0.4	-0.4	OMAK	59	2	3.1	2.1
ROCKFORD	59	-1	2.9	-0.9	NY ALBANY	59	2	5.9	2.6	QUILLAYUTE	52	1	3.3	-1.9
SPRINGFIELD	59	-4	4.2	0.7	NY BINGHAMTON	55	0	5.8	2.6	SEATTLE-TACOMA	56	1	2.7	1.1
IN EVANSVILLE	63	-2	3.7	-0.7	NY BUFFALO	55	-1	7.2	4.4	SPOKANE	53	-1	2.2	0.8
FORT WAYNE	57	-3	4.8	1.4	NY NEW YORK	62	1	8.8	5.4	YAKIMA	56	-1	0.6	0.2
INDIANAPOLIS	59	-3	5.8	2.2	NY ROCHESTER	56	-1	6.0	3.4	WALLA WALLA	58	-2	1.6	0.2
SOUTH BEND	57	-2	2.7	-0.1	NY SYRACUSE	58	1	4.3	1.1	WV BECKLEY	56	-4	4.6	1.0
IA DES MOINES	61	-1	3.6	-0.3	NC ASHEVILLE	59	-4	5.5	1.5	CHARLESTON	59	-5	6.8	3.1
DUBUQUE	58	0	2.3	-2.1	NC CHARLOTTE	67	-2	5.4	1.8	ELKINS	55	-3	6.1	2.3
SIoux CITY	61	0	1.5	-1.9	NC GREENSBORO	63	-3	6.4	3.0	HUNTINGTON	60	-5	4.0	0.1
WATERLOO	58	-1	1.5	-2.6	NC HATTERAS	67	0	5.4	1.4	PARKERSBURG	59	-5	4.8	1.3
KS CONCORDIA	64	1	4.1	0.1	NC NEW BERN	68	-1	4.3	-0.1	WI GREEN BAY	55	0	4.2	1.1
DOUGE CITY	65	1	3.4	0.1	NC RALEIGH	65	-2	3.9	0.2	LA CROSSE	59	0	3.0	-0.6
GOODLAND	61	2	2.8	-0.1	NC WILMINGTON	69	-2	3.6	-0.6	MADISON	56	-1	1.7	-1.6
TOPEKA	64	0	4.1	0.1	ND BISMARCK	56	1	1.9	-0.3	MILWAUKEE	55	0	2.9	0.2
WICHITA	66	0	5.0	1.1	ND FARGO	58	3	2.6	0.4	WAUSAU	55	0	4.3	0.6
KY BOWLING GREEN	64	-2	5.5	1.3	ND GRAND FORKS	58	3	1.9	0.0	WY CASPER	54	1	2.8	0.7
JACKSON	60	-2	6.4	2.9	ND WILLISTON	56	2	1.7	-0.1	CHEYENNE	54	2	1.4	-1.0
LEXINGTON	61	-4	5.4	1.2	OH AKRON-CANTON	57	-2	6.0	2.5	LANDER	54	1	5.3	2.6
LOUISVILLE	62	-3	4.4	0.3	OH CINCINNATI	60	-3	4.6	0.8	SHERIDAN	53	0	1.7	-0.7
					OH CLEVELAND	57	-1	9.1	5.9	PR SAN JUAN	80	0	4.9	-0.7

Based on 1951-80 normals.

Heating Degree Days (Base 65°) For May 1989

States and Stations	TOTAL	Depart	States and Stations	TOTAL	Depart	States and Stations	TOTAL	Depart
AL. Birmingham . . .	56	20	MD. Baltimore . . .	145	30	OK. Okla. City . . .	38	-3
Mobile . . .	2	2	MA. Boston . . .	196	-22	Tulsa . . .	53	13
Montgomery . . .	20	10	Chatham . . .	417	39	OR. Astoria . . .	363	-34
AK. Anchorage . . .	573	-7	MI. Alpena . . .	345	-74	Burns . . .	469	64
Barrow . . .	1435	3	Detroit . . .	254	7	Medford . . .	222	-23
Fairbanks . . .	530	9	Flint . . .	289	1	Pendleton . . .	279	59
Nome . . .	1030	-83	Grand Rapids . . .	297	35	Portland . . .	219	-44
AZ. Flagstaff . . .	330	-138	Houghton Lake . . .	328	-36	Salem . . .	267	-50
Phoenix . . .	0	0	Lansing . . .	320	51	PA. Allentown . . .	204	14
Tucson . . .	4	4	Marquette . . .	432	-37	Erie . . .	301	-22
Winslow . . .	64	-68	S. Ste. Marie . . .	388	-92	Harrisburg . . .	196	46
Yuma . . .	0	0	MN. Duluth . . .	405	-51	Philadelphia . . .	138	11
AR. Fort Smith . . .	52	19	Internatl Falls . . .	363	-76	Pittsburg . . .	260	59
Little Rock . . .	48	30	Minneapolis . . .	251	13	Scranton . . .	251	24
CA. Bakersfield . . .	22	-13	Rochester . . .	290	13	RI. Providence . . .	181	-58
Eureka . . .	277	-120	St. Cloud . . .	305	0	SC. Charleston . . .	14	8
Fresno . . .	14	-38	MS. Jackson . . .	20	11	Columbia . . .	50	28
Los Angeles . . .	72	-34	Meridian . . .	40	23	Greenville . . .	104	63
Redding . . .	49	-10	MO. Columbia . . .	169	49	SD. Aberdeen . . .	244	-30
Stockton . . .	38	-14	Kansas City . . .	135	23	Huron . . .	262	3
San Diego . . .	40	-31	St. Louis . . .	128	18	Rapid City . . .	303	5
San Francisco . . .	160	-66	Springfield . . .	156	49	Sioux Falls . . .	235	-5
CO. Denver . . .	213	-40	MT. Billings . . .	308	-10	TN. Chattanooga . . .	92	36
Pueblo . . .	134	-29	Glasgow . . .	297	-35	Knoxville . . .	148	85
CO. Bridgeport . . .	180	-40	Great Falls . . .	431	62	Memphis . . .	46	21
Hartford . . .	175	-22	Havre . . .	360	27	Nashville . . .	90	35
DC. Washington . . .	112	44	Helena . . .	407	10	TX. Abilene . . .	4	-7
FL. Apalachicola . . .	0	0	Kalispell . . .	438	19	Amarillo . . .	59	-33
Jacksonville . . .	5	5	Miles City . . .	272	1	Austin . . .	0	0
Key West . . .	0	0	Missoula . . .	386	-14	Beaumont . . .	0	0
Miami . . .	0	0	NE. Grand Island . . .	152	-17	Brownsville . . .	0	0
Orlando . . .	0	0	Lincoln . . .	140	-11	Corpus Christi . . .	0	0
W. Palm Beach . . .	0	0	Norfolk . . .	190	9	Del Rio . . .	0	0
Tallahassee . . .	14	14	North Platte . . .	211	-24	El Paso . . .	9	9
Tampa . . .	0	0	Omaha . . .	127	-31	Fort Worth . . .	4	4
GA. Atlanta . . .	44	7	Valentine . . .	234	-19	Galveston . . .	0	0
Augusta . . .	41	24	NV. Ely . . .	425	-37	Houston . . .	0	0
Macon . . .	31	21	Las Vegas . . .	16	-6	Lubbock . . .	17	-16
Savannah . . .	13	13	Reno . . .	256	-77	Midland . . .	2	-6
ID. Boise . . .	276	23	Winnemucca . . .	336	2	San Angelo . . .	1	-4
Lewiston . . .	184	-41	NH. Concord . . .	219	-95	San Antonio . . .	0	0
Pocatello . . .	355	7	NJ. Atlantic City . . .	184	19	Victoria . . .	0	0
IL. Chicago . . .	261	37	NM. Albuquerque . . .	31	-50	Waco . . .	0	0
Moline . . .	240	63	NY. Albany . . .	194	-58	Wichita Falls . . .	16	-2
Peoria . . .	231	55	Binghamton . . .	322	9	UT. Salt Lake City . . .	193	-27
Rockford . . .	246	19	Buffalo . . .	321	27	VT. Burlington . . .	188	-138
Springfield . . .	224	75	New York . . .	137	-12	VA. Lynchburg . . .	155	58
Fort Wayne . . .	268	56	Rochester . . .	288	14	Norfolk . . .	80	27
Indianapolis . . .	226	68	Syracuse . . .	242	-27	Richmond . . .	108	43
South Bend . . .	271	41	NC. Asheville . . .	200	86	Roanoke . . .	172	73
IA. Des Moines . . .	170	5	Charlotte . . .	77	27	WA. Quillayute . . .	407	-27
Dubuque . . .	247	12	Greensboro . . .	133	60	Seattle-Tacoma . . .	273	-40
Souix City . . .	164	5	Hatteras . . .	38	1	Spokane . . .	364	25
KS. Concordia . . .	108	-29	Raleigh . . .	102	49	Walla Walla . . .	221	46
Dodge City . . .	111	-13	Wilmington . . .	44	34	Yakima . . .	269	15
Goodland . . .	189	-26	ND. Bismark . . .	274	-50	WV Beckley . . .	298	112
Topeka . . .	125	8	Fargo . . .	224	-87	Charleston . . .	221	96
Wichita . . .	90	1	Williston . . .	275	-60	Huntington . . .	213	88
KY. Lexington . . .	196	75	OH. Akron-Canton . . .	280	52	WI. Green Bay . . .	315	-10
Louisville . . .	156	58	Cincinnati . . .	211	68	La Crosse . . .	218	2
LA. Baton Rouge . . .	0	0	Cleveland . . .	272	28	Madison . . .	290	17
Lake Charles . . .	0	0	Columbus . . .	274	96	Milwaukee . . .	324	-10
New Orleans . . .	0	0	Dayton . . .	241	70	WY Casper . . .	336	-48
Shreveport . . .	2	-7	Toledo . . .	270	33	Cheyenne . . .	334	-63
ME. Caribou . . .	257	-202	Youngstown . . .	306	39	Lander . . .	342	-42
Portland . . .	286	-92			Sheridan . . .	359	-13	

National Agricultural Summary

May 29-June 4, 1989

HIGHLIGHTS: Rain and wet field conditions limited fieldwork in the Corn Belt. Soil moisture was adequate to short in the western Corn Belt and adequate to surplus in the eastern Corn Belt. The number of days suitable for fieldwork averaged 2-4 in the Corn Belt and 5-7 in other areas. Soil moisture was mostly short to adequate in the Southeast. Heavy rains improved soil moisture in Oklahoma and the Plains area of Texas.

Winter wheat was mostly fair to poor with 83 percent (%) of the acreage headed, 1 percentage point behind the 5-year average. Harvest was 3% complete, 1 point behind normal. Spring wheat was mostly good to fair. Ninety-one percent of the crop was emerged, 2 points behind normal. Corn was mostly good to fair and planting was 93% complete, 4 points behind normal. Soybean planting was 68% complete, 4 points behind normal. Planting of both corn and soybeans lagged behind normal in the eastern Corn Belt. Cotton was mostly fair to good and planting was 84% complete, 1 point ahead of normal. Sorghum planting was 68% complete, 9 points ahead of normal. Florida's citrus and vegetable producing areas remained dry.

SMALL GRAINS: Winter wheat was mostly fair to poor with 83% of the acreage headed, slightly behind the 84% average. Heading had begun in all the major producing States except Montana. Heading lagged more than 20 points behind normal in Michigan, Montana, and Ohio. Harvest was 3% complete, 1 point behind normal. Harvest continued in California, Georgia, Oklahoma, and Texas and began in North Carolina.

Winter wheat was turning color in Kansas. In Texas, harvest was 8% complete, 15 points behind normal. Hail and high winds damaged some unharvested fields in the High Plains. Harvest was nearing completion in the Low Plains. Rain slowed Oklahoma's harvest and reduced the quality of the unharvested crop. In Nebraska, Russian wheat aphids and wheat streak mosaic were continuing problems in the Panhandle.

Spring wheat was mostly good to fair. Ninety-one percent of the crop was emerged, slightly behind the 93% average. In Montana, spring wheat was mostly good to excellent with 74% of the acreage emerged, 18 points behind normal. Spring wheat was mostly good to fair in North Dakota.

CORN: Corn was mostly good to fair and planting was 93% complete, 4 points behind normal. Planting continued to lag behind normal in Indiana, Ohio, and Pennsylvania. Planting was complete or nearly complete in the other major producing States. In Ohio, planting was 50% complete, 45 points behind normal. Planting was 17 and 29 points behind normal in Indiana and Pennsylvania, respectively. In Nebraska, corn was mostly fair to good. Dry soil conditions caused uneven emergence and slower-than-normal growth.

SOYBEANS: Soybean planting was 68% complete, 4 points behind normal. Rain and wet field conditions continued to slow planting in Indiana and Ohio. Planting was 35 and 58 points behind normal in Indiana and Ohio, respectively. In Georgia, dry soil conditions slowed planting progress. Planting was over 90% complete in Iowa, Minnesota, and Nebraska.

COTTON: Cotton was mostly fair to good. Planting was 84% complete, 1 point ahead of normal. Planting was complete or nearly complete except in Oklahoma and Texas. Nine percent of the acreage

had reached the squaring stage, slightly behind the 11% average. Arkansas producers were spraying for thrips. In Oklahoma, continued heavy rains will force some replanting. In Texas, fields were setting bolls in the Rio Grande Valley and Coastal Bend area. Heavy rain and hail may force some replanting in the Plains area.

SORGHUM: Sorghum planting was 68% complete, 9 points ahead of normal. Producers planted one-fourth of their acreage in Kansas and Nebraska. In Texas, heavy rains may force some replanting in the Plains area. Fields were heading in the Blacklands and central area and turning color in the Rio Grande Valley and Coastal Bend area.

OTHER FIELD CROPS: Rice was mostly good to fair, with 91% of the crop emerged, 1 point behind normal. In Louisiana, sheath blight was a problem in some fields. In Georgia, peanuts were mostly good to fair and planting was nearly complete. Peanuts were mostly good to fair in North Carolina and mostly good in Alabama. In Texas, peanut planting was 21% complete, 18 points behind normal. Tobacco was mostly fair to good in Georgia and South Carolina and mostly good to fair in North Carolina. In Tennessee, tobacco transplanting was 58% complete, 14 points behind normal.

FRUIT AND NUTS: Florida's citrus groves remained dry. Rain was needed in all areas. Irrigation was active. New crop fruit sizes varied and very few late blooms were present. Valencia orange harvest slowed and grapefruit harvest was nearly complete. In Georgia, peaches were mostly good to fair and harvest was 30% complete, 4 points ahead of normal. In South Carolina, peaches were fair to good and harvest was 10% complete, 5 points ahead of normal. Peach harvest continued in east Texas. Valencia orange, grapefruit, and grape harvests were active in central and western Arizona. In California, the Bing cherry harvest was nearly complete in the San Joaquin Valley. Table grape harvest continued in the Coachella Valley. Desert grapefruit harvest was nearly complete. In Oregon, hail damaged strawberries, blueberries, and cherries in portions of the Willamette Valley.

VEGETABLES: Vegetable harvest was active in northern Florida. Volume leaders were watermelons, potatoes, sweet corn, peppers, cucumbers, and celery. Watermelons were good to fair in Georgia and fair to good in South Carolina. Melon harvest reached its peak in the Rio Grande Valley of Texas. Onion harvest was nearly complete in the San Antonio-Winter Garden area. Hail damaged some onion and potato fields in the High Plains. Melon harvests continued in Arizona. Lettuce and cabbage harvests were active in eastern Arizona. Broccoli and cauliflower harvests continued in the Salinas and Santa Maria areas of California. Potato planting was complete in the Tulalake-Butte Valley.

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. Supplemental feeding was still required in portions of Nebraska where range feed supplies were mostly short. In Iowa, pastures were mostly fair to poor.

Crop Progress

FOR WEEK ENDING JUNE 4, 1989

SOYBEANS
% PLANTED

	1989	1988	AVG.
ALA	58	53	55
ARK	49	49	50
GA	53	58	62
ILL	83	100	86
IND	40	96	75
IOWA	99	100	87
KANS	50	65	40
KY	52	66	48
LA	59	51	66
MICH	75	90	70
MINN	91	98	89
MISS	39	48	54
MO	69	79	60
NEBR	94	91	78
N C	34	52	50
OHIO	22	92	80
S C	36	52	46
S DAK	89	92	69
TENN	48	59	49

19 STATES 68 83 72

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

GRAIN SORGHUM
% PLANTED

	1989	1988	AVG.
ARK	94	94	93
ILL	65	90	68
KANS	50	50	35
LA	92	93	96
MISS	86	95	91
MO	82	89	76
NEBR	90	86	75
OKLA	55	50	45
S DAK	58	50	49
TENN	80	82	81
TEX	77	75	78
11 STATES	68	67	59

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

CORN
% PLANTED

	1989	1988	AVG.
COLO	97	98	99
GA	100	100	100
ILL	99	100	98
IND	80	100	97
IOWA	100	100	100
KANS	98	98	95
KY	95	98	95
MICH	98	99	97
MINN	98	99	96
MO	100	100	95
NEBR	100	99	100
N C	95	100	100
OHIO	50	100	95
PA	55	82	84
S DAK	97	96	88
TEX	100	100	100
WIS	95	98	96

17 STATES 93 99 97

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

SPRING WHEAT
% EMERGED

	1989	1988	AVG.
IDAHO	99	99	93
MINN	98	99	94
MONT	74	96	92
N DAK	91	94	92
S DAK	100	100	98

5 STATES 91 96 93

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

WINTER WHEAT
% HEADED

	1989	1988	AVG.
ARK	100	100	NA
CALIF	99	100	100
COLO	71	76	82
GA	100	100	100
IDAHO	10	14	12
ILL	97	100	96
IND	88	95	89
KANS	100	99	95
MICH	15	55	50
MO	100	100	100
MONT	0	60	22
NEBR	95	89	82
N MEX	100	100	NA
N C	100	99	NA
OHIO	60	88	82
OKLA	100	100	99
OREG	63	67	72
S DAK	37	50	46
TEX	99	97	99
WASH	55	45	43

20 STATES 83 88 NA

EXCL. STATES
WITH NA 83 87 84

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

NA - NOT AVAILABLE.

WINTER WHEAT
% HARVESTED

	1989	1988	AVG.
ARK	0	0	10
CALIF	5	5	8
COLO	0	0	0
GA	51	44	56
IDAHO	0	0	0
ILL	0	0	0
IND	0	0	0
KANS	0	0	0
MICH	0	0	0
MO	0	0	1
MONT	0	0	0
NEBR	0	0	0
N MEX	0	0	0
N C	3	0	0
OHIO	0	0	0
OKLA	10	2	5
OREG	0	0	0
S DAK	0	0	0
TEX	8	19	23
WASH	0	0	0

20 STATES 3 3 4

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

RICE			
% EMERGED			
	1989	1988	AVG.
ARK	91	90	90
CALIF	80	75	81
LA	94	96	97
MISS	92	92	94
TEX	100	100	100
5 STATES	91	90	92

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

COTTON			
% PLANTED			
	1989	1988	AVG.
ALA	100	100	98
ARIZ	100	100	100
ARK	97	99	99
CALIF	100	100	100
GA	95	94	96
LA	93	95	98
MISS	94	100	100
MO	100	100	100
N MEX	100	100	97
N C	90	99	100
OKLA	60	70	40
S C	94	100	100
TENN	100	100	100
TEX	71	76	69

COTTON			
% SQUARING			
	1989	1988	AVG.
ALA	8	7	7
ARIZ	80	45	70
ARK	0	0	3
CALIF	5	1	7
GA	3	10	18
LA	1	10	10
MISS	9	3	12
MO	0	0	0
N MEX	0	0	5
N C	0	0	0
OKLA	0	0	0
S C	1	0	5
TENN	0	0	0
TEX	8	12	11

14 STATES 84 88 83
 THESE 14 STATES PRODUCED 99% OF THE 1988 COTTON CROP.

14 STATES 9 9 11
 THESE 14 STATES PRODUCED 99% OF THE 1988 COTTON CROP.

Crop Condition

SPRING WHEAT					
STATE	VP	P	F	G	EX
IDAHO	1	4	21	60	14
MINN	0	0	10	71	19
MONT	0	2	13	55	30
N DAK	0	0	13	86	1
S DAK	2	2	23	71	2
5 STATE	0	1	14	76	9
PREV YEAR	5	29	45	20	1

PERCENT FOR WEEK ENDING JUNE 4, 1989

CORN					
STATE	VP	P	F	G	EX
COLO	1	4	22	66	7
GA	1	10	46	43	0
ILL	0	0	13	78	9
IND	2	6	41	46	5
IOWA	0	3	22	70	5
KANS	1	2	18	45	34
KY	0	1	25	63	11
MICH	1	4	20	50	25
MINN	0	1	35	60	4
MO	0	8	55	35	2
NEBR	1	10	60	29	0
N C	0	1	56	41	2
OHIO	2	12	42	42	2
S DAK	0	2	22	71	5
TEX	2	8	22	47	21
WIS	1	1	18	69	11
16 STATE	1	4	31	57	7
PREV YEAR	1	6	38	49	6

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	0	7	36	57	0
CALIF	0	0	5	75	20
COLO	16	19	37	25	3
GA	1	28	30	41	0
IDAHO	3	6	26	53	12
ILL	0	0	7	61	32
IND	1	1	25	61	12
KANS	59	25	11	2	3
MICH	0	5	20	50	25
MO	3	3	34	55	5
MONT	7	16	33	35	9
NEB	33	35	30	2	0
N MEX	50	35	10	5	0
N C	1	4	53	42	0
OHIO	1	8	32	50	9
OKLA	10	10	40	40	0
OREG	0	0	52	30	18
S DAK	5	26	36	33	0
TEX	22	31	40	7	0
WASH	0	0	45	55	0
20 STATE	22	18	30	26	4
PREV YEAR	2	17	34	42	5

COTTON					
STATE	VP	P	F	G	EX
ALA	0	0	81	19	0
ARIZ	0	0	0	67	33
ARK	0	27	69	4	0
CALIF	0	0	5	90	5
GA	0	4	58	37	1
LA	0	18	65	17	0
MISS	0	10	75	15	0
MO	0	8	54	38	0
N MEX	0	11	45	33	11
N C	0	8	58	31	3
OKLA	0	0	80	20	0
S C	0	10	52	38	0
TENN	8	6	51	35	0
TEX	0	33	33	34	0
14 STATE	0	19	43	36	2
PREV YEAR	2	12	42	36	8

THESE 16 STATES PRODUCED 93% OF THE 1988 CORN CROP.

RICE					
STATE	VP	P	F	G	EX
ARK	0	0	60	40	0
CALIF	0	0	10	80	10
LA	0	4	33	63	0
MISS	0	0	60	40	0
TEX	0	0	12	74	14
5 STATE	0	1	41	55	3
PREV YEAR	0	8	41	47	4

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 0.50 in. north; less than 0.30 in. central, south; 1.00 to 2.00 in. local areas. Temperatures 2 to 5° above normal.

Days suitable for fieldwork 6.3. Soil moisture 58% short, 42% adequate. Corn 46% silked, 31% 1988, 22% avg.; 6% very poor, 1% poor, 33% fair, 40% good, 20% excellent. Sorghum 75% planted, 66% 1988, 64% avg.; 3% poor, 14% fair, 83% good. Cotton 8% squaring, 7% 1988, 7% avg.; 81% fair, 19% good. Soybeans 58% planted, 53% 1988, 55% avg.; 9% fair, 85% good, 6% excellent. Peanuts 99% planted, 98% 1988, 95% avg.; 3% pegging, 1% 1988, 1% avg.; 100% good. Winter wheat 98% turning color, 95% 1988, 95% avg.; 63% harvested, 47% 1988, 34% avg.; 2% very poor, 10% poor, 55% fair, 33% good. First hay 73% harvested, 78% 1988, 57% avg. Livestock, pastures good. Primary activities: Planting soybeans, sorghum; controlling weeds, insects in row crops, vegetables; cutting, baling hay; harvesting wheat, oats, peaches, early vegetables; general equipment repair; general care of livestock, poultry, catfish.

ALASKA: Cloudiness, wind, showers prevailed, varying areas, amounts. Highs 3° cooler than normal to 4° warmer than normal. Lows above normal all areas, 2 to 7° above normal. Seasonal precipitation above normal. Anchorage 1.66 in. wetter than normal, also broke record for rain accumulation in May in 55 years.

Days suitable for fieldwork 5.0. Topsoil 8% short, 76% adequate, 16% surplus. Subsoil 94% adequate, 6% surplus. Fieldwork on schedule. Small grain seeding for forage underway. Commercial potato planting nearly complete. Commercial vegetables planting, transplanting continued. Crop growth varied, moderate.

ARIZONA: Gusty winds prevailed 28th to 30th. Temperatures 30th, 7 to 15° lower than 27th. Isolated showers, thunderstorms extreme north 2nd. Temperatures 70 to 80° higher elevations, 95 to 103° lower western deserts. Low pressure system northern areas 3rd, isolated showers, thunderstorms. Trace of rain McNary 3rd, none elsewhere for period. Temperatures 3° below normal to 3° above.

Cotton 80% squared, 45% 1988, 70% avg.; bolls setting 30%, 1% 1988; cultivation, irrigation, spraying for pink boll worms; crops 67% good, 33% excellent. Small grains harvested 65%, 50% 1988; turning color 99%, 95% 1988, 99% avg.; good. Alfalfa harvest continued; crop good. Honeydew, watermelon, cantaloupe harvest continued western areas. Honeydew harvest underway central. Dry onions harvested Salt River Valley. Table, chipper potato harvest continued central. Watermelon, sweet corn harvested central. Lettuce, cabbage harvested east. Valencia oranges, grapefruit, grapes harvested west, central.

ARKANSAS: Warm, temperatures 2 to 6° above normal. Scattered showers. Extremes 56°; 94°. Rainfall none to 3.15 in.

Days suitable for fieldwork 6.0. Soil moisture 6% short, 90% adequate, 4% surplus. Main farming activities: Planting soybeans, sorghum; cultivating, spraying cotton; fertilizing rice, applying weed control; harvesting hay; preparing

for wheat harvest; working cattle. Cotton 88% emerged, 93% 1988, 95% avg.; replanting complete, thrips heavy, spraying required. Rice producers applied herbicides, fertilizer, flooded fields. Soybeans 32% emerged, 30% 1988, 38% avg.; 2% poor, 43% fair, 55% good; rain showers helped germination; Group III varieties blooming. Wheat crop maturing rapidly; leaf rust pressure heavy; few fields harvested; yields fair to average. Oats 36% fair, 64% good; harvest started; yields slightly above average. Corn 100% planted, 98% avg.; downy mildew symptoms present; European corn borers found in leaf mid-veins. Blueberry harvest started. Watermelons replanted. Few tomatoes picked. Rains, warm weather boosted pastures. Hay yields good. Livestock good.

CALIFORNIA: Weak low pressure trough brought scattered rain early in week. High pressure allowed heating, drying through 2nd. Upper level low pressure system returned over weekend.

Open weather, rapid progress field activities entire week. Wheat, barley grain harvests increased rapidly south, matured rapidly rest of State. Hay, green chop, silage harvest small grains, winter forage tapered off seasonally. Rice emerged good stands. Some yet to plant. Weed, insect, shrimp controls applied. Thinning, cultivating cotton active. Fields southern area pin-square stage, mite controls applied. Harvest overwintered sugarbeets progressed. Fields corn, dry beans seeded. Grass, sudan, alfalfa harvests seasonally active. San Joaquin Valley apricot harvest active. Avocado picking, steady. Bing cherry harvest nearly complete, San Joaquin County. Coachella Valley table grape harvest continued. Grape growers treated vineyards, pests, mildew. Freestone peaches, plums, nectarines harvested, San Joaquin Valley. Cling peach growers thinned fruit to improve sizing. Desert grapefruit harvest nearly complete. Lemon harvest progressed, desert, southern coastal region. Valencia oranges harvested for export, San Joaquin Valley. Almond orchards treated for mite control. Broccoli, cauliflower harvests continued, Salinas, Santa Maria area. Supplies in Salinas heavy-moderate, variable quality. Supplies in Santa Maria light-moderate, generally good quality. Celery movement Santa Maria continued, good quality. Potato planting Tulare-Butte Valley area completed. Harvest Kern-Tulare area continued. Processing tomato fields Sacramento, San Joaquin Valley continued to progress. Lettuce Salinas-Watsonville, Santa Maria heavy with variable quality. Melons Westside area in all stages development, earlier planted fields maturing. Desert cantaloupe, honeydew, watermelon harvests continued, Palo Verde area. Strawberry harvest continued Sacramento Valley, Santa Maria area. Supplies Santa Maria moderate, variable quality. Cucumber, squash, red, yellow onions, green beans, zucchini, sweet corn, bell pepper harvests active throughout State. Livestock good. Movement to summer feeding areas continued. Range, pasture dry, Sacramento, San Joaquin Valley. North coast, north eastern interior received some rain, rangeland water good. Water levels very low most other areas. Supplemental feeding continued.

COLORADO: Dry, western area, rain eastern areas. Rainfall 0.50 to 2.00 in. over major wheat areas

during weekend. Temperatures near normal west 2 to 6° above normal elsewhere.

Days suitable for fieldwork, 5.7. Soil moisture 25% very short, 51% short, 24% adequate. Winter wheat 16% very poor, 19% poor, 37% fair, 25% good, 3% excellent; 71% headed, 3% turning color. Corn 97% planted, 87% emerged. Barley 24% headed, 2% turning color. Oats 18% headed, fall potatoes 40% emerged. Summer potatoes 70% emerged, sugar beets 48% thinned. Dry beans 49% planted, 10% emerged. Sorghum 45% planted, 31% emerged. Spring wheat 25% headed. Livestock good, range, pastures fair to good.

FLORIDA: Hot, temperatures 2 to 4° above normal. Highs 90s common; some middle, upper 90s inland areas. Extreme lows middle 60s with some low, mid 70s along southeast coast. Thunderstorms widely scattered. Rainfall 0.50 in. or less, several areas none; heaviest rains 1.20 in. Tallahassee, Stuart.

Soil moisture short to adequate Panhandle; elsewhere short. Crop plantings delayed many areas, Panhandle; some areas too wet, others too dry. Soybean planting active. Farmers completing cotton, peanut planting, winter wheat harvest. Hay harvest limited, many areas, insufficient soil moisture for plant growth. Corn, tobacco irrigated. Sugarcane good progress. Higher temperatures, particularly warm nights, summer showers some areas promoted pasture growth. Dry soils, however, kept pastures short many areas. Generally reduced rainfall, pastures varied poor to good. Cattle fair to good Panhandle, central, eastern Peninsula. Herds in some dry western Peninsula areas remained poor to fair. Citrus groves dry, hot. Rain needed all areas; irrigating around clock. New crop fruit variable, many sizes; very little late bloom observed. Valencia harvest slowing. Grapefruit movement almost over. Caretakers very active with summer grove care. Typical summer weather prevailed over major vegetable producing areas. Rainfall limited. Harvest active most northern areas. Volume leaders: Watermelons, potatoes, tomatoes, sweet corn, peppers, cucumbers, celery. Also available: Squash, eggplant, cabbage, snap beans. Quincy tomato harvest underway.

GEORGIA: Hot, humid. Temperatures 3 to 6° above normal. Extreme highs, mid, upper 80s north, mid, upper 90s south. Coolest lows mid, upper 50s mountains, low, mid 60s elsewhere. Significant rain northern third, most areas 0.25 in., over 1.00 in. local areas. Central, south under 0.25 in.

Days suitable for fieldwork 6.4. Soil moisture 28% very short, 55% short, 17% adequate. Corn 18% silked, 19% 1988, 37% avg.; 3% dough, 2% 1988, 9% avg.; much lower, moisture needed at pollination stage. Sorghum grain 65% planted, 71% 1988, 71% avg. Peanuts 3% poor, 25% fair, 64% good, 8% excellent; 99% planted, 96% 1988, 98% avg.; 13% blooming 12% 1988, 23% avg. Soybeans 5% poor, 54% fair, 41% good; planting slowed in southeast by dry soils. Tobacco 62% fair, 34% good, 4% excellent; irrigating heavily. Watermelons 6% poor, 35% fair, 57% good, 2% excellent. Wheat 51% harvested, 44% 1988, 56% avg.; yields variable, harvest progressing on schedule. Rye, other small grains fair to good. Apples fair to good. Peaches 4% poor, 23% fair, 72% good, 1% excellent; 30% harvested, 21% 1988, 26% avg. Pasture 7% poor, 30% fair, 61% good, 2% excellent. Hay 3% poor, 27% fair, 68% good, 2% excellent; excellent for harvest. Cattle, hogs good.

HAWAII: Favorable weather for crops. Light trade winds, sunny mornings produced humid conditions, late afternoon showers. Record high temperatures

late in week made fieldwork uncomfortable. Irrigation normal pace. Crops fair to good. Temperatures low 70s to 90s. Rainfall 0.01 to 4.80 in. Winds unusually light 5 to 15 mph.

Days suitable for fieldwork 7.0. Head cabbage output steady, good quality. Chinese cabbage production remains moderate. Tomato output decrease as major fields have passed peak production. Banana harvesting expected to increase. Watermelon crop helped by sunny weather, output forecast to increase.

IDAHO: Temperatures below normal. Significant cooling north. Precipitation below normal except north well above.

Days suitable for fieldwork 6.0. Soil moisture 18% short, 74% adequate, 8% surplus. Spring wheat 99% emerged, 99% 1988, 93% avg. Spring barley 99% emerged, 99% 1988, 88% avg. Winter wheat 10% headed, 14% 1988, 12% avg. Spring barley 9% boot stage or beyond. Spring wheat 9% boot stage or beyond. Oats 89% emerged, 98% 1988, 89% avg. Potatoes 94% planted, 97% 1988, 92% avg. Potatoes 33% emerged, 50% 1988, 45% avg. Sugarbeets 52% thinned, 69% 1988, 55% avg. Alfalfa 1st cutting 16% harvested, 16% 1988, 16% avg. Dry beans 57% planted, 41% 1988, 54% avg. Dry beans 15% emerged, 13% 1988, 11% avg. Field corn 98% planted, 85% emerged, near normal. Spring wheat, winter wheat, fair good. Branding, sheep shearing primary livestock activities. Pasture short in cooler areas. More rain, warm weather needed all but north area. Livestock good.

ILLINOIS: Temperatures 2 to 4° above normal, mid 80s high to upper 50s low. Precipitation 0.25 in. or less west, central, 1.00 to 2.00 in. north, south.

Days suitable for fieldwork 3.8. Soil moisture 28% short, 57% adequate, 15% surplus. Corn 9 in. height, 13 in. 1988, 12 in. avg.; most advanced 13 in., 20 in. 1988, 20 in. avg. Soybeans 88% full stand; 17% fair, 75% good, 8% excellent. Winter wheat 60% filled, 86% 1988, 74% avg.; 10% turning yellow, 46% 1988, 35% avg. Alfalfa 62% 1st crop cut, 85% 1988, 66% avg.; 3% very poor, 7% poor, 36% fair, 50% good, 4% excellent. Red clover 40% 1st crop cut, 73% 1988, 55% avg.; 5% poor, 25% fair, 64% good, 6% excellent. Oats 20% headed, 45% 1988, 43% avg; 16% fair, 70% good, 14% excellent; 8% filled, 16% 1988, 17% avg. Pasture 23% fair, 58% good, 19% excellent.

INDIANA: Temperatures 3 to 6° above normal. Highs mid 80 to 90°, lows upper 40 to upper 50°. Precipitation heavy, 2.00 to 6.00 in.

Days suitable for fieldwork 2.3. Topsoil 33% adequate, 67% surplus. Subsoil 3% short, 61% adequate, 36% surplus. Corn fair to good; 78% emerged, 96% 1988, 91% avg.; 6 in. high, 10 in. 1988, 9 in. avg. Soybean fair. Oats 11 in. high, 11 in. 1988, 13 in. avg. Alfalfa hay 35% cut, 83% 1988, 55% avg. Pasture 21% fair, 61% good, 18% excellent. Wet fields continue to slow plantings.

IOWA: Temperatures 2° below normal northwest to 4° above southeast. Extremes 44°; 98°. Precipitation 0.02 to 3.90 in., average 0.82 in.

Days suitable for fieldwork 4.5. Topsoil 40% short, 59% adequate, 1% surplus. Subsoil 96% short, 4% adequate. Oats 2% very poor, 8% poor, 39% fair, 46% good, 5% excellent. Winter wheat fair to good. Hay 4% very poor, 15% poor, 56% fair, 23% good, 2% excellent. First crop alfalfa 28% harvested, 47% 1988, 35% avg. First crop clover hay 8% harvested, 15% 1988, 10% avg. Corn 27% cultivated first time, 56% 1988, 29% avg. Soybeans 80% emerged, 90% 1988, 64% avg.; 10% cultivated first time, 17% 1988, 3% avg. Oats 14% headed, 32% 1988, 20% avg. Livestock good

to excellent. Tornadoes caused losses in livestock. Pasture 9% very poor, 23% poor, 51% fair, 15% good, 2% excellent.

KANSAS: Temperatures 67° northwest to 74° northeast, normal to 3° above normal. Precipitation low 0.14 in. southwest to 1.46 in. east central. Scattered, moderate to light rain. Days suitable for fieldwork 5.5. Topsoil 48% short, 51% adequate, 1% surplus. Subsoil 84% short, 16% adequate. Wheat stands 35% turning color, signal the of maturity. Wheat 59% very poor, 25% poor, 11% fair, 2% good, 3% excellent; 100% headed. Corn 98% planted; 1% very poor, 20% fair to good, 79% good to excellent; recent rains helped corn progress. Feed grains 24% short, 75% adequate, 1% surplus. Range, pasture 72% short, 28% adequate.

KENTUCKY: Above normal temperatures. Daytime highs mid to upper 80s, lows 60s. Precipitation varied, rainfall 2.00 in. west, little or no rain extreme east.

Days suitable for fieldwork 5.4. Soil moisture 18% short, 77% adequate, 5% surplus. Shortages primarily west. Corn emerged 9 in. height. Few fields being replanted. Planting single crop soybeans nearing completion western counties. Burley setting active, nearly two-thirds acreage set. Plant supply adequate. Barley harvest beginning. Wheat prospects good, some disease, insect problems. Pastures good, supplying nearly all roughage needs.

LOUISIANA: Temperatures 68 to 94°. Extremes 61°; 97°. Rainfall 0.54 to 3.16 in.

Days suitable for fieldwork 5.7. Soil moisture 18% short, 63% adequate, 19% surplus. Spring plowing 98%, 100% 1988, 100% avg. Corn 100% emerged, 100% 1988, 100% avg.; 14% silked, 12% 1988, 32% avg.; 2% poor, 41% fair, 54% good, 3% excellent. Cotton 93% planted, 95% 1988, 98% avg.; 83% emerged, 77% 1988, 93% avg.; 1% squaring, 10% 1988, 10% avg.; 18% poor, 65% fair, 17% good. Cultivation has commenced. Hay 57% first cutting, 70% 1988, 67% avg. Peaches 2% harvested, 12% 1988, 12% avg.; 7% very poor, 7% poor, 73% fair, 13% good. Rice 97% planted, 100% 1988, 99% avg.; 94% emerged, 96% 1988, 97% avg.; 4% poor, 33% fair, 63% good. Sheath blight problem in some fields. Sorghum 92% planted, 93% 1988, 96% avg.; 87% emerged, 86% 1988, 91% avg.; 68% fair, 32% good. Soybeans 59% planted, 51% 1988, 66% avg.; 40% emerged, 32% 1988, 52% avg.; 3% poor, 46% fair, 51% good. Sugarcane 13% fair, 80% good, 7% excellent. Lay by operations near complete. Sweet potatoes 41% planted, 36% 1988, 63% avg.; 6% poor, 25% fair, 69% good. Wheat 100% turning color, 100% 1988, 100% avg.; 63% harvested, 80% 1988, 65% avg.; 3% very poor, 14% poor, 49% fair, 34% good. Vegetables 5% poor, 42% fair, 53% good. Pasture 17% fair, 83% good. Livestock 7% fair, 91% good, 2% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.29 in. Temperature 72°, normal 67°. Extremes 35°; 96°.

Days suitable for fieldwork 6.3. Topsoil 16% short, 84% adequate. Subsoil 100% adequate. Corn 86% planted, 94% 1988, 96% avg. Soybeans 32% planted, 48% 1988, 41% avg. Tobacco 30% transplanted, 66% 1988, 49% avg. Wheat, barley, rye good. Wheat 89% headed, 97% 1988, 88% avg. Barley 66% turned color, 73% 1988, 85% avg.

DELAWARE: Precipitation 0.45 in. Temperature 73°, normal 67°. Extremes 43°; 95°.

Days suitable for fieldwork 6.8. Topsoil 33% short, 66% adequate. Subsoil 100% adequate. Corn 93% planted, 95% 1988, 96% avg. Soybeans 39% planted, 49% 1988, 39% avg. Wheat, barley, rye

good. Barley 79% turned color, 76% avg. Apples good, average fruit set. Peaches good, below average fruit set.

MICHIGAN: Temperatures 1° below to 5° above normal. Extremes 34°; 86°. Precipitation 0.41 to 6.83 in. across State.

Days suitable for fieldwork 2.5. Soil moisture 35% adequate, 65% surplus. Corn 1% very poor, 4% poor, 20% fair, 50% good, 25% excellent; 98% planted, 99% 1988, 97% avg.; 85% emerged. Soybeans 75% planted, 90% 1988, 70% avg. Wheat 15% headed, 55% 1988, 50% avg.; 5% poor, 20% fair, 50% good, 25% excellent. Dry beans 5% planted, 15% 1988, 15% avg. Major activities: Limited hay harvest, corn, soybean planting, routine farm chores.

MINNESOTA: Temperatures near normal to 3° below normal. Extremes 33°; 87°. Precipitation 0.15 to 0.68 in. Greatest weekly total 1.10 in.

Days suitable for fieldwork 4.5. Topsoil 9% very short, 25% short 60% adequate, 6% surplus. Subsoil 26% very short, 45% short, 27% adequate, 2% surplus. Spring wheat 23% jointing, 36% 1988, 24% avg. Oats 27% jointing, 59% 1988, 34% avg. Barley 21% jointing, 25% 1988, 20% avg. Corn 98% planted, 99% 1988, 96% avg.; 89% emerged, 97% 1988, 86% avg.; 16% cultivated, 41% 1988, 24% avg. Soybeans 91% planted, 98% 1988, 89% avg.; 58% emerged, 83% 1988, 59% avg.; 6% cultivated, 14% 1988, 7% avg. Sunflowers 85% planted, 99% 1988, 82% avg. Flax 82% planted, 98% 1988, 83% avg. Dry edible beans 89% planted, 97% 1988, 89% avg. Sweet corn 77% planted, 90% 1988, 79% avg. Alfalfa hay 12% cut, 28% 1988, 23% avg. Soybean 4% very poor, none poor, 36% fair, 58% good, 2% excellent. Corn 1% poor, 35% fair, 60% good, 4% excellent. Spring wheat 10% fair, 71% good, 19% excellent.

MISSISSIPPI: Warm, dry north, south; warm, wet central. Temperatures 78°. Extremes 50°; 96°. Rainfall 0.93 in., maximum 4.62 in.

Days suitable for fieldwork 6.2, 6.3 1988, 5.1 avg. Soil moisture 5% short, 95% adequate. Corn good; 3% silking, 2% 1988, 10% avg. Cotton fair; 94% planted, 100% 1988, 100% avg.; 9% squaring, 3% 1988, 12% avg. Hay 24% harvested, 30% 1988, 31% avg. Rice fair; 95% planted, 100% 1988, 100% avg. Sorghum good; 86% planted, 95% 1988, 91% avg. Soybeans 39% planted, 48% 1988, 54% avg. Sweet potatoes 70% planted, 75% 1988, 71% avg. Wheat fair; 20% harvested, 20% 1988, 20% avg. Peaches poor; 5% harvested, 3% 1988. Pastures, livestock good. Activities: Planting soybeans, harvesting wheat, finishing cotton planting, spraying for thrips.

MISSOURI: Temperatures 2 to 5° above normal. Precipitation 2.00 to 3.00 in. north, 0.50 elsewhere.

Days suitable for fieldwork 3.6. Topsoil 34% short, 64% adequate, 2% surplus. Subsoil 58% short, 42% adequate. Soybean 75% planted except west central, southwest, south central. Wheat 49% turning color, 59% 1988, 57% avg.; 30% turning northern areas, all turning southeast. Sorghum 2% poor, 68% fair, 29% good, 1% excellent. Alfalfa hay 70% first cutting, 85% 1988, 71% avg. Other hay 31% harvested, 48% 1988, 35% avg. Pasture 7% very poor, 12% poor, 54% fair, 27% good. Livestock water 19% critically short, 18% short, 63% adequate.

MONTANA: Temperatures below normal. Precipitation 0.10 in. to 2.15 in., heaviest north central, central.

Days suitable fieldwork 3.2. Topsoil 3% short, 81% adequate, 16% surplus. Subsoil 12% short, 86%

adequate, 2% surplus. Barley 1% poor, 19% fair, 52% good, 28% excellent. Oats 1% poor, 19% fair, 55% good, 25% excellent. Sugarbeet 1% poor, 9% fair, 74% good, 15% excellent. Barley 93% planted, 100% 1988, 99% avg. Barley 65% emerged. Corn 70% planted, 94% 1988, 92% avg.; 24% emerged. Dry beans 86% planted, 100% 1988, 98% avg.; 42% emerged. Oats 92% planted, 100% 1988, 98% avg.; 52% emerged. Potatoes 66% planted, 92% 1988, 83% avg.; 7% emerged. Pasture, range feed 1% very poor, 5% poor, 20% fair, 55% good, 19% excellent. Cattle, calves moved to summer pastures 78%, 82% 1988, 79% avg. Sheep, lambs moved to summer pastures 75%, 90% 1988, 88% avg.

NEBRASKA: Temperatures 6° below normal west to 2° above normal east. Extremes 35°; 101°. Scattered thunderstorms produced up to 1.00 in. of rain east, lesser amounts elsewhere.

Days suitable for fieldwork 6.2. Topsoil 77% short, 23% adequate. Subsoil 89% short, 11% adequate. Winter wheat 8% turning, 17% 1988, 8% avg. Russian wheat aphids, wheat streak mosaic in Panhandle. Wheat streak mosaic southwest. Chinch bugs southeast wheat fields also corn, sorghum replanted from destroyed wheat. Corn 98% emerged, 97% 1988, 89% avg. Reports of uneven stands, purple corn, stunted growth, all caused by dry conditions. Cutworms northeast. Sorghum 55% emerged, 65% 1988, 53% avg. Soybeans 2% very poor, 5% poor, 70% fair, 23% good; 65% emerged, 74% 1988, 56% avg. Bean leaf beetle damage to early planted beans east central. Alfalfa hay 10% very poor, 30% poor, 46% fair, 14% good. 30% first cutting, 55% 1988, 48% avg. Alfalfa weevils northeast. Yields below, rain needed to produce second cutting. Wild hay 4% very poor, 78% poor, 17% fair, 1% good. Pasture, range feed 71% short, 29% adequate. Cattlemen who have hay are feeding cattle on pastures, others are selling or moving to pastures in other States. Main activities: Planting soybeans, sorghum; cutting alfalfa; cultivating, spraying weeds; irrigating.

NEVADA: Temperatures 5° below normal, some freezing weather northern, central valleys. Widely scattered showers, thunderstorms fell northern, central areas early, late in period. Extremes 19°; 104°.

Lower temperatures slowed vegetative growth. Haying operations temporarily delayed. Showers beneficial to ranges.

NEW ENGLAND: Precipitation 1.00 to 1.50 in. Vermont, northern New Hampshire, central Massachusetts, 0.50 to 1.00 in. remainder. Temperatures upper 50s near Canadian border to low 60s coastal south. Temperatures near normal.

Days suitable for fieldwork 5.5. Fieldwork progress 4.0 days behind. Soil moisture 8% short, 70% adequate, 22% surplus. Grazing 80% adequate, 20% surplus. Maine potatoes 80% planted, 97% 1988, 88% avg.; less than 5% emerged; good. Connecticut River Valley potatoes 99% planted, 100% 1988, 97% avg.; 85% emerged, 95% 1988, 83% avg.; fair to good. Rhode Island potatoes 100% planted, 100% 1988, 100% avg.; 75% emerged, 69% 1988, 75% avg.; good. Maine oats 72% sown, 89% 1988, 85% avg.; good. Field corn 75% planted, 80% 1988, 80% avg.; 55% emerged, 58% 1988, 53% avg.; good. Sweet corn 70% planted, 78% 1988, 76% avg.; 50% emerged, 65% 1988, 57% avg.; good. First crop hay 10% cut, 12% 1988, 10% avg.; good. Shade tobacco 90% transplanted; fair. Outdoor tobacco 30% transplanted; fair. Apple set average; scab infection light to average. Strawberries average to heavy set; picking started Rhode Island. Blueberry set average. Lowbush Maine blueberries 80% full bloom, 20% early bloom. Major farm activities: Planting, spraying, fertilizing, spreading manure.

NEW JERSEY: Temperatures well above normal. Extremes 40°; 95°. Rainfall 0.08 in. north, 0.56 in. central, 0.02 in. south. Heaviest 24-hour total 1.00 in. on 3rd, 4th. Estimated soil moisture 80% north, 76% central, 63% south. Four inch soil temperatures 66° north, 69° central, 71° south.

Precipitation consisted of scattered thunderstorms. Hot weather advanced crop growth. Fieldwork very active. Iceberg lettuce harvest began. Strawberry picking increased. Apples, peaches, blueberries continued to size. Early planted field corn up about 6 in.; planting continued behind schedule. Soybean planting became general. Hay making very active as conditions permitted. Pasture growth good.

NEW MEXICO: Temperatures above normal most areas; scattered precipitation over northeastern quarter of State.

Days suitable for fieldwork 6.8. Soil moisture 89% short, 11% adequate. Some hail damage to onions, cotton, chile, pecans, apples. Wheat 50% very poor, 35% poor, 10% fair, 5% good, unchanged previous week; harvest barely underway. Cotton planting 100% complete; 11% poor, 45% fair, 33% good, 11% excellent. Cattle 11% poor, 67% fair, 22% good. Sheep 75% fair, 25% good. Ranges, pastures 22% very poor, 45% poor, 33% fair.

NEW YORK: Temperatures slightly above normal. Precipitation above normal. Rainfall 1.00 to 2.00 in. common. Much of the rain fell in showers, thunderstorms midweek.

Days suitable for fieldwork 3.7. Soil moisture surplus. Pasture, hay, wheat good. Corn 54% planted, 70% 1988, 72% avg. Oat seeding 94% complete, 89% 1988, 87% avg. Hay cutting underway some areas. Apples exhibit good crop potential in Lake Ontario region. Recent warm, wet weather increased disease pressure for tree fruits. Wet weather delayed vegetable planting. Early lettuce, spinach ready for harvest. Strawberries escaped late season frosts, look good. Snap beans planting underway. Sweet corn planting behind schedule. Heavy rains flooded some muck areas in western parts of the State.

NORTH CAROLINA: Temperatures 1° to 3° above normal across State. Extremes 38°; 101°. Precipitation none to 1.30 in.

Days suitable for fieldwork 6.3. Soil moisture 3% very short, 32% short, 65% adequate. Pasture 26% fair, 71% good, 3% excellent. Livestock feed pasture 77%. Tobacco plantbeds 8% very poor, 15% poor, 51% fair, 25% good, 1% excellent. Supply 1% very short, 40% short, 58% adequate, 1% surplus. Flue-cured 95% transplanted, 100% 1988, 100% avg. Burley 62% transplanted, 73% 1988, 60% avg. Field tobacco 3% poor, 44% fair, 53% good. Irish potato 9% poor, 26% fair, 65% good. Sweet potatoes 52% transplanted, 97% 1988, 97% avg.; 40% fair, 60% good. Peaches 10% very poor, 10% poor, 38% fair, 42% good. Apple 4% very poor, 4% poor, 46% fair, 46% good. Truck crops 2% poor, 45% fair, 53% good. Sorghum 52% planted, 65% 1988, 63% avg. Peanuts 92% planted, 95% 1988, 96% avg.; 31% fair, 69% good. Hay 2% poor, 20% fair, 70% good, 8% excellent. First cutting 71% complete, second cutting 10% complete. Major activities: Planting corn, transplanting tobacco; planting soybeans, cotton, peanuts, sorghum, other spring crops. Other activities: Spraying crops; cultivating tobacco; harvesting small grain silage, strawberries, blueberries, wheat; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures 2 to 6° below normal. Precipitation fell across State. Southern two

thirds of State 0.50 to 0.93 in. of rain. Northern third 0.33 to 0.45 in. Extremes 33° northeast; 81° southeast.

Days suitable for fieldwork 5.5. Soil moisture improved. Topsoil 8% short, 92% adequate. Subsoil 8% very short, 71% short, 21% adequate. Spring wheat 13% fair, 86% good, 1% excellent; durum 19%, 79% 1988, 2% avg.; oats 24%, 72% 1988, 4% avg.; barley 13%, 86% 1988, 1% avg. Winter wheat 16% poor, 41% fair, 43% good. Pasture 26%, 41% 1988, 33% avg. Spring wheat 91% emerged, 7% jointed and beyond; durum wheat 87%, 4% 1988; oats 89%, 8% 1988; barley 95%, 11% 1988; winter wheat 75% jointed and beyond, 20% boot and beyond. Row crop planting near average. Row crop emergence slightly behind average. Corn 65% emerged; flax 43%; soybeans 43%; potatoes 45%; sunflower 28%; dry edible beans 31%. Pastures 26% poor, 41% fair, 33% good; furnished 88% of roughage requirements. Stockwater 13% short, 87% adequate; mostly good. Broadleaf spraying 29% complete; wild oats 46%.

OHIO: Temperatures 3 to 6° above normal, mid 80s to upper 40s or lower 50s. Precipitation heaviest north 2.00 to 4.00 in.; south 0.25 to 1.50 in. Growing days 140 to 180°; 40° above normal.

Days suitable for fieldwork 3.8. Soil moisture 47% adequate, 53% surplus. Corn planting reached halfway point; fair to good. Soybeans fair to good; bean leaf beetle attacked emerged plants. Winter wheat fair to good; powdery mildew persisted, control sprays applied. Hay, pastures fair to good. Hay curing a problem, harvest as green chop or haylage. Alfalfa weevils caused severe damage to first alfalfa. Fruit, vegetables crops developing later than usual, looks good. Humid weather stressed livestock.

OKLAHOMA: Temperatures 1° below normal Panhandle to 4° above normal east central. Precipitation 0.46 in. northeast to 5.29 in. central.

Days suitable for fieldwork 4.7. Topsoil 65% adequate, 35% surplus. Subsoil 5% short, 95% adequate. Wheat 10% very poor, 10% poor, 40% fair, 40% good; 100% heading, 100% 1988, 99% avg; 90% soft dough, 75% 1988, 80% avg.; 10% harvested, 2% 1988, 5% avg. Harvest delayed by rain saturated fields. Quality deteriorated from excess rain. Cotton 80% fair, 20% good; 60% planted, 70% 1988, 40% avg. Rain washout caused replanting. Sorghum 55% planted, 50% 1988, 45% avg. Soybeans 50% planted, 40% 1988, 50% avg. Peanuts 70% planted, 70% 1988, 65% avg. Corn 98% up to stand, 98% 1988, 90% avg. Tasseling just beginning. Pastures good to fair. Cattle good; marketing stable, prices down slightly from preceding week.

OREGON: Temperatures normal to slightly above west, mostly below normal east. Rainfall statewide, heaviest east. Northeastern mountains had up to 0.75 in. precipitation, surrounding area received up 0.50 in.

Soil moisture 20% short, 80% adequate. Winter wheat, grass seeds, other grains improved from cooler weather, rain all areas still in need of moisture east. Winter wheat still spotty from winterkill east. Russian wheat aphid more prevalent in spring wheat than winter wheat. Rust showing in grass seed, grain crops west. Winter wheat in boot stage lower elevations east. Making hay most areas, second cutting lower elevations northeast, some rain damage southeast, becoming over matured west. Strawberry harvest underway but late in far west areas. Hail damage to fruit of strawberries, blueberries, cherries; foliage, blossoms on caneberries some locations in Willamette Valley. Strawberries ripened rapidly with warm conditions over weekend. Cherry crop sizing well, cherry fruit fly emerged May 30 The Dallas. Pears, apples good Hood River, no insect

problems. Excellent apple crop anticipated Gilliam County. Seed potato planting progressed Wallawa County. First planting potatoes coming up Jefferson County; potato emergence slowed by continued cool weather Klamath Basin. Harvest of salad vegetables underway Clackamas County, look good Lincoln County. Onions, other vegetables planted, west. Third snap bean plantings emerging; some hail damage Lane County. Table beets 2 in. Sweet corn, snap beans, potatoes excellent. Range, pasture good to excellent east but cool weather Klamath County slowed pasture growth. Recent rains helpful to pasture west some south slope pastures browned off.

PENNSYLVANIA: Bermuda high transported warm, humid air throughout State. Showers, thunderstorms during midweek, weekend. Temperature 68°; 6° above normal. Extremes 33°; 93°. Precipitation 1.07 in., 0.24 in. above normal.

Days suitable for fieldwork 4.0. Soil moisture none short, 56% adequate, 44% surplus. Plowing 89% complete, 97% 1988, 95% avg. Corn 55% planted, 82% 1988, 84% avg. Soybeans 19% planted, 44% 1988, 54% avg. Oats 95% planted, 100% 1988, 98% avg. Potatoes 79% planted, 92% 1988, 93% avg. Barley 17% pre-boot, 7% 1988, 16% avg.; 5% boot, 5% 1988, 6% avg.; 78% heading or headed, 88% 1988, 78% avg. Wheat 23% pre-boot, 8% 1988, 9% avg.; 24% boot, 21% 1988, 18% avg.; 53% heading or headed, 71% 1988, 73% avg.; none very poor, 4% poor, 18% fair, 52% good, 26% excellent. Oats none very poor, 5% poor, 23% fair, 53% good, 19% excellent. Hay stands good. Feed from pastures average. Peaches none pre-pink, none 1988, none avg.; 2% pink, none 1988, none avg.; 98% full bloom or past, 100% 1988, 100% avg. Cherries none pre-pink, none 1988, none avg.; 2% pink, none 1988, none avg.; 98% full bloom or past, 100% 1988, 100% avg. Apples none pre-pink, none 1988, none avg.; 3% pink, none 1988, none avg.; 97% full bloom or past, 100% 1988, 100% avg. Activities: Spring plowing; planting corn, soybeans, oats, hay, potatoes, other vegetables; harvesting alfalfa haylage, ryelage; fence work; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

PUERTO RICO: Rainfall 4.07 in., 2.62 in. above normal. Highest rainfall 14.57 in. Pico Del Este-Luquillo, 9.30 in. Canovanas, 6.72 in. San Juan City. Highest 24-hour total 5.85 in. Maricao. San Juan WSFO mean temperatures 78° minus 3°, rainfall 4.65 in. plus 3.42 in. Temperatures 75 to 78° coast, 71 to 74° interior with mean temperature 63° Pico Del Este-Luquillo to 80° San Juan City. Maximum temperature 91° San Sebastian, minimum temperature 53° Arecibo Ionospheric Observatory.

SOUTH CAROLINA: Temperatures 5 to 10° hotter than usual; little or no rain.

Days suitable for fieldwork 6.2. Soil moisture 28% very short, 61% short, 11% adequate. Corn fair to good. Tobacco fair to good. Cotton 10% poor, 52% fair, 38% good; 94% planted, 100% 1988, 100% avg.; 1% squaring, none 1988, 5% avg. Soybeans 36% planted, 52% 1988, 46% avg. Peanuts fair to good; 93% planted, 97% 1988, 93% avg. Sorghum 29% planted, 47% 1988, 54% avg. Watermelons fair to good, 92% planted, 93% 1988, 98% avg. Sweet potatoes fair to good; 41% planted, 46% 1988, 53% avg. Tomatoes good. Peaches fair to good; 10% harvested, 4% 1988, 5% avg. Wheat good; 96% turning color, 96% 1988, 95% avg.; 75% ripe, 60% 1988, 65% avg.; 31% harvested, 20% 1988, 18% avg. Oats good; 93% turning color, 91% 1988, 91% avg.; 72% ripe, 62% 1988, 64% avg.; 15% harvested, 26% 1988, 23% avg. Pastures declined to fair to good.

SOUTH DAKOTA: Temperatures 1° to 6° below normal. Extremes 29°; 98°. Precipitation 2.00 to 3.50 in. below normal south, 0.50 to 2.00 in. below normal north. 0.50 in. or less fell over most of State.

Winter wheat fair, declining. Spring wheat good. Corn good. Spraying, row crop planting, moving cattle, some alfalfa cutting, fencing major activities.

TENNESSEE: High pressure dominated early week. Scattered thunderstorms 2nd. Stronger thunderstorms, some severe, 3rd, 4th. Temperatures 3 to 8° above normal. Rainfall 0.25 to 0.75 in. above normal west, middle; 0.50 in. below normal east.

Days suitable for fieldwork 5.1. Soil moisture 7% short, 90% adequate, 3% surplus. Corn 2% tasseling, 1% 1988, 1% avg.; 1% very poor, 17% fair, 79% good, 3% excellent. Tobacco 58% transplanted, 79% 1988, 72% avg. Wheat 66% turning color, 85% 1988, 85% avg.; 2% poor, 27% fair, 68% good, 3% excellent. Hay 9% fair, 77% good, 14% excellent. Sorghum, soybean planting; tobacco transplanting; alfalfa cutting primary activities.

TEXAS: Hot, dry weather prevailed across State early as summer like upper level high pressure remained in control. Latter part of week, upper level high began to weaken, allowing daily heating to trigger thunderstorms southeastern counties. Slow moving cold front, upper level brought thunderstorms High Plains, spread north. Dry weather persisted parched counties south, Lower Valley. Temperatures close to normal High, Low Plains, Lower Valley; above normal elsewhere. Rainfall above normal west, north; below normal south, southeast.

Crops: Small grain harvest steady, hot temperatures rapidly dried down fields. Yields low most areas. Hail, high winds caused further damage to fields High Plains. Harvest wind down Low Plains, many fields cut for hay. Corn good progress parts central, Blacklands, many fields silking. Another good rain soon ensure good crop. Fields Coastal Bend, Valley, south stressed for moisture. Some poorer dryland fields abandoned or cut for hay. Progress good areas of Plains where heavy rain, hail not hit. Corn 34% silked, 34% 1988, 42% avg. Corn 2% doughing, 11% 1988, 15% avg. Corn none dented, 1% 1988, 1% avg. Grain sorghum producers some planting completed Plains before rain arrived. Isolated heavy showers some replanting necessary. Fields beginning head Blacklands, central. Some dry stress showing up these areas. Fields drying out Coastal Bend, Valley, south. Fields Valley beginning to turn color. Some dryland fields abandoned or cut for hay. Grain sorghum 27% headed, 27% 1988, 32% avg. Turning color 2%, 7% 1988, 8% avg. Cotton producers Plains continued lose their battle with Mother Nature. Dry conditions past two weeks slowed gemination many fields. Latest round of bad weather damaged emerging fields, additional replanting necessary if not too late when ground dries. Irrigated fields not hit by hail look good. Warm temperatures Trans-Pecos allowed crop make good progress. Fields setting bolls Valley, Coastal Bend. Fields Blacklands look good, make good crop with another rain. Cotton setting bolls 5%; 5% 1988; 4% avg. Irrigating, fertilizing rice fields continued along coast. Peanut planting conditions dry central, south. Irrigation necessary for emergence. Dryland fields need rain. Dry conditions Cross Timbers slowed beginning of planting. Soybean planting progress Plains through midweek. Early fields emerging. Hail caused isolated damage. Fields Upper Coast need moisture. Planting winding down. Sunflowers

emerging to good stands High Plains. Other field crops: Oats 28% harvested, 38% 1988, 35% avg. Peanuts 21% planted, 37% 1988, 39% avg. Soybeans 48% planted, 47% 1988, 49% avg. Sunflowers 29% planted, 18% 1988, 35% avg.

Commercial Vegetables: Rio Grande Valley, melon harvest peaked. Harvest peppers, cucumbers, tomatoes light. Late freeze hurt these spring crops. San Antonio-Winter Garden, watermelons making slow progress because dry conditions. Onion harvest winding down. East Texas, planting, harvesting continued. Insect, disease problems continued. High Plains, hail damaged some onions, potatoes. Carrots making good progress. Trans-Pecos, cabbage, onion harvest continued. Chiles making good progress. Early variety peaches being picked east. Crop ripening Hill Country, some light harvesting beginning. Pecan spraying programs continued. Fair to good crop expected most areas.

Range and Livestock: Hot, drying winds slowed improvement many areas. Haying operations remained active much east, central. Rain Plains benefit native ranges, pastures. Livestock good. Markets steady.

UTAH: Precipitation light south, moderate north. Temperatures 2 to 5° below normal.

Days suitable for fieldwork 6.3. Soil moisture 87% short, 13% adequate. Winter wheat 71% booting, 85% 1988, 65% avg.; 41% headed, 42% 1988, 38% avg. Spring wheat 42% booting, 62% 1988, 43% avg.; 16% headed, 17% 1988, 14% avg. Barley 56% booting, 55% 1988, 37% avg.; 22% headed, 27% 1988, 17% avg. Oats 54% jointed, 58% 1988, 30% avg.; 20% booting, 34% 1988, 13% avg. Corn 91% emerged, 85% 1988, 71% avg.; 6 in. high 1988, 7 in. avg. Alfalfa first cutting 42% complete, 22% 1988, 22% avg. Movement to summer range 50% cattle, 35% sheep. Winter wheat 17% very poor, 59% poor, 12% fair, 13% good. Spring wheat 4% very poor, 9% poor, 54% fair, 33% good. Barley 8% poor, 45% fair, 47% good. Oats 18% poor, 42% fair, 40% good. Alfalfa 10% poor, 44% fair, 39% good, 7% excellent. Apricots 70% fair, 30% good. Sweet cherries 25% fair, 75% good. Tart cherries 78% fair, 22% good. Peaches, apples, good. Pastures, ranges dry. Livestock good. Major farm activities: Harvesting hay, irrigating, spraying weeds in small grains, spraying fruit for insects, moving livestock.

VIRGINIA: Warm, humid. Temperatures 5° above normal. Rainfall less than 0.25 in.

Days suitable for fieldwork 6.3. Topsoil 41% short, 55% adequate, 4% surplus. Corn 89% planted, 88% 1988, 90% avg. Soybeans 34% planted, 34% 1988, 33% avg. Peanuts 100% planted, 99% 1988, 100% avg. Flue-cured tobacco 96% transplanted, 84% 1988, 79% avg. Fire-cured tobacco 70% transplanted, 62% 1988, 62% avg. Burley tobacco 55% transplanted, 61% 1988, 50% avg. Corn 4% very poor, 23% poor, 50% fair, 21% good, 2% excellent. Soybean 8% poor, 60% fair, 32% good. Tobacco 9% poor, 50% fair, 41% good. Alfalfa 3% poor, 40% fair, 49% good, 8% excellent. Other hay 41% fair, 51% good, 8% excellent. Barley harvest just starting.

WASHINGTON: Temperatures 4° below normal to 2° above normal, west; 4° below normal to 1° above normal, east. Precipitation 0.37 to 1.80 in., west; none to 1.97 in., east. Temperatures increased throughout the week.

Days suitable for fieldwork, 5.9. Soil moisture 100% adequate. Range, pasture 15% short, 85% adequate. Hay, other roughage 20% short, 80% adequate. First cutting of alfalfa hay was 50% completed. Winter wheat 45% fair, 55% good; 55% headed, 45% 1988, 43% avg. Barley 50% fair, 50%

good. Barley 30% headed, 30% 1988, 26% avg. Spring wheat 20% headed, 23% 1988, 24% avg. Potatoes 100% planted; 95% emerged. Corn, 95% planted. Dry beans, 85% planted. Major activities: Weed control; cutting hay, alfalfa, silage; harvest of asparagus, cherries, spinach, lettuce, radishes, strawberries. Summer fallow ground was worked and fertilizer applied for fall planting.

WEST VIRGINIA: Temperature 71°, 4 to 7° above normal. Extremes 34° Terra Alta, Greenbank; 94° Creston. Precipitation 0.26 in., 0.50 in. below normal.

Days suitable for fieldwork 5.5. Soil moisture 6% short, 94% adequate. Wheat 97% jointed; 95% headed; good. Barley 100% headed; good. Oats good, 93% planted, 83% emerged. Corn good to fair; 77% planted, 57% emerged. Tobacco fair, 16% set. Hay good. Apples fair. Peaches poor. Livestock good. Feed supplies adequate. Farm activities: Plowing, corn planting, tobacco setting, cutting hay.

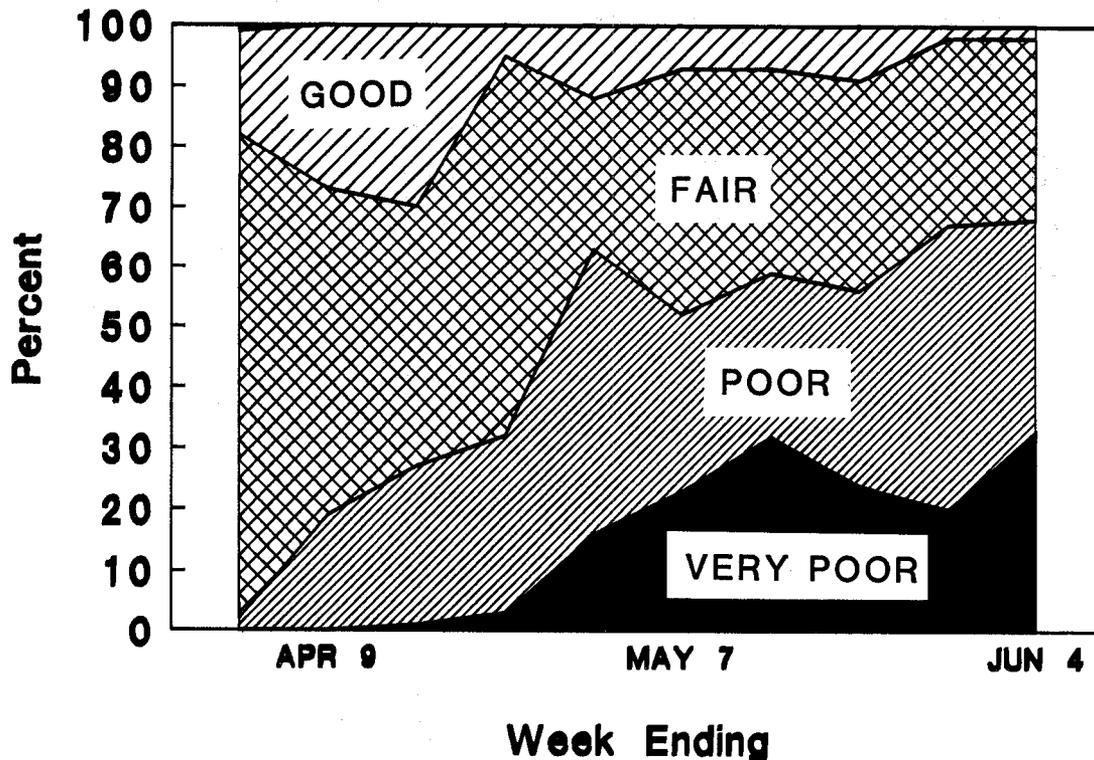
WISCONSIN: Temperature 62°, 1° below normal. Extremes 34°; 88°. Precipitation 0.70 to 3.80 in. Heavy rains in central.

Days suitable for fieldwork 2.5. Soil moisture 17% short, 64% adequate, 19% surplus. Pasture 81% of normal, 59% 1988, 80% avg. Crops 1% poor, 27% fair, 65% good, 7% excellent. Winter wheat 2% poor, 21% fair, 64% good, 13% excellent. Corn 1% very poor, 1% poor, 18% fair, 69% good, 11% excellent; 95% planted, 98% 1988, 96% avg.; 5 in. height, 6 in. 1988, 5 in. avg. Soybeans 80% planted, 91% 1988, 78% avg. First cut hay 9% completed, 39% 1988, 23% avg.

WYOMING: Temperatures generally below normal. Rainfall general Statewide.

Days suitable for fieldwork 5.0. Topsoil 55% short, 45% adequate. Irrigation water limited many areas. Spring wheat 90% emerged, 95% 1988, 90% avg. Oats 90% emerged, 90% 1988, 90% avg. Barley 90% emerged, 95% 1988, 95% avg. Sugarbeets 95% emerged, most 1988, 95% avg.; 30% thinned, 35% 1988. Lost Big Horn Basin are due to short water supplies. Corn 95% planted, 90% 1988, 95% avg.; 60% emerged, 70% 1988, 75% avg. Potatoes 95% planted, 80% 1988; 60% emerged, 65% 1988, 60% avg. Dry beans 75% planted, 55% 1988, 70% avg.; 15% emerged, 15% 1988, 30% avg. Winter wheat 5% poor, 50% fair, 45% good. Livestock good. Calf, lamb losses light to normal. Ranges, pastures 15% poor, 55% fair, 30% good. Stockwater short 70% State. Livestock moved to summer pasture: 50% cattle, 50% sheep.

Crop Condition Nebraska Winter Wheat



International Weather and Crop Summary

May 1989

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA

*** = DATA NOT AVAILABLE

May 28 - June 3, 1989

HIGHLIGHTS

USSR ... In Western USSR, widespread, beneficial precipitation covers crops in the North Caucasus, while a drying trend continues in central crop areas. In the New Lands, subfreezing temperatures briefly cover emerging spring grains as far south as central Kazakhstan. Highly beneficial rain covers eastern areas.

EUROPE ... Moderate to heavy rain helps reduce dryness in the northeast.

SOUTH ASIA ... Light to moderate rain from a tropical cyclone covers the east. Showers return to the south, improving planting conditions.

EASTERN ASIA ... Beneficial rain falls in sections of Manchuria. Heavy rain continues in southern China.

SOUTHEAST ASIA ... Widespread, moderate to heavy showers maintain favorable early growing conditions in Thailand.

SOUTH AMERICA ... Substantial rain falls over Argentina's wheat areas. Mostly dry weather prevails throughout south-central Brazil, although moisture benefits wheat in western Rio Grande do Sul.

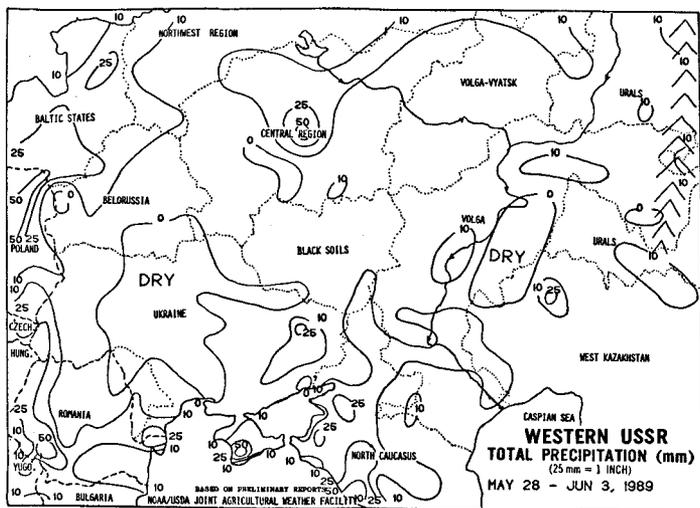
AUSTRALIA ... Widespread rain continues across southern crop areas. Seasonable dryness develops in sections of the east.

CANADA ... Beneficial rain reaches southern Alberta, but dry weather continues over Manitoba. Spring crop planting progresses but cold weather slows development.

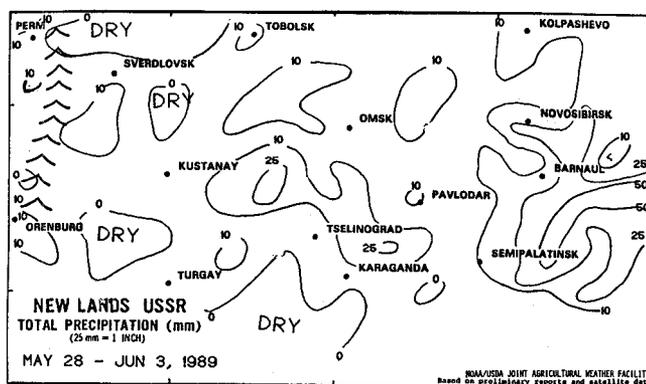
MEXICO ... Dry weather in the north favors the wheat harvest. Beneficial rain for corn growth falls in eastern portions of the Southern Plateau.

COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY OSLO	16	5	23	0	10	1.1	20.2	-41.4
SWEDEN STOCKHOLM	17	6	26	0	12	1.7	28.7	-1.9
FINLND HELSINKI	17	5	25	-1	11	1.3	36.3	2.4
U KING GLASGOW	16	6	24	-1	11	-0.2	32.6	-38.5
EDINBURGH	16	7	21	0	11	1.2	30.6	-20.1
BIRMINGHAM	19	7	26	1	13	2.1	14.5	-41.3
LONDON	20	8	28	2	14	3.1	2.8	-53.2
IRELND DUBLIN	16	8	22	2	12	1.4	13.6	-44.1
ICELND REYKJAVIK	7	3	11	-2	5	-1.6	125.5	85.6
DENMRK COPENHAGEN	17	8	23	1	12	0.4	9.6	-32.3
LUXEMB LUXEMBOURG	20	10	26	3	15	2.7	31.3	-34.9
SWITZL ZURICH	20	9	25	2	15	2.2	49.1	-52.7
GENEVA	22	9	27	4	16	2.1	22.2	-46.7
FRANCE PARIS	23	10	29	4	16	2.9	16.9	-38.0
STRASBOURG	23	10	28	1	16	2.6	42.2	-20.0
BOURGES	23	10	29	3	17	3.0	18.0	-53.7
BORDEAUX	25	12	30	7	19	4.6	40.0	-29.7
TOULOUSE	24	12	28	5	18	3.0	18.8	-53.7
MARSEILLE	25	13	30	7	19	2.2	0.1	-42.2
SPAIN VALLADOLID	24	10	29	5	17	3.0	22.1	-21.9
MADRID	25	10	30	3	17	0.8	89.6	49.3
SEVILLE	29	14	34	9	21	1.7	12.6	-22.9
E GRMY LEIPZIG	21	8	27	2	14	1.5	23.6	-27.1
DRESDEN	20	8	27	1	14	1.2	21.8	-41.2
W GRMY HAMBURG	19	8	27	2	14	1.7	7.8	-46.7
BERLIN	21	10	27	3	15	1.5	4.0	-49.5
DUSSELDORF	22	10	29	3	16	1.9	11.6	-48.3
STUTTGART	21	8	26	0	14	1.4	30.5	-48.7
NURNBERG	21	8	26	0	15	1.7	26.4	-33.1
MUNICH	19	7	25	1	13	1.1	44.1	-55.3
AUSTRI VIENNA	20	9	25	5	14	-0.7	78.5	16.5
INNSBRUCK	20	7	27	1	14	0.5	55.2	-30.0
CZECH PRAGUE	19	7	26	1	13	0.7	39.0	-28.0
POLAND WARSAW	20	8	26	1	14	0.9	26.5	-25.7
LODZ	20	8	25	2	14	1.1	46.7	-4.4
KATOWICE	19	8	24	4	13	0.6	76.4	8.3
PRZEMYSL	18	9	23	5	14	0.6	112.3	41.9
HUNGAR BUDAPEST	21	11	25	5	16	0.1	62.2	13.7
YUGOSL SARAJEVO	19	6	27	-1	13	-1.1	123.1	39.0
ROMANI BUCHAREST	22	10	31	5	16	-0.7	21.5	-49.6
BULGAR SOFIA	19	9	30	3	14	-0.9	61.7	-20.7
ITALY MILAN	24	12	28	5	18	1.8	4.4	-83.1
VERONA	25	12	29	6	18	1.7	74.0	-7.2
VENICE	22	13	26	8	18	1.0	30.7	-40.0
GENOA	23	16	29	11	19	1.6	11.9	-96.1
ROME	22	11	26	6	17	-0.7	20.0	-17.9
NAPLES	25	12	30	7	18	1.3	20.1	-32.1
GREECE THESSALONIKA	23	12	29	9	17	-2.1	26.8	-22.5
LARISSA	25	10	35	4	18	-2.1	32.8	-7.5
ATHENS	23	14	29	7	19	-2.1	12.3	-8.7
TURKEY ISTANBUL	21	13	31	6	17	0.9	61.1	31.1
ANKARA	21	7	29	1	14	-2.8	45.1	3.1
CYPRUS LARNACA	28	16	38	11	22	1.3	2.3	-8.6
USSR TALLINN	17	6	25	1	11	2.3	5.7	-31.8
LENINGRAD	17	8	26	0	13	2.4	27.6	-10.4
KAUNAS	19	7	26	2	13	0.8	18.4	-34.6
MINSK	19	8	25	2	14	1.6	48.1	-13.3
KAZAN	17	8	24	0	13	-0.5	102.0	63.9
MOSCOW	19	8	25	0	14	0.9	33.2	-27.2
SVERDLOVSK	17	5	26	-3	11	-0.5	45.8	4.4
OMSK	17	7	28	-6	12	-0.3	39.4	12.9
KUSTANAY	19	8	28	-2	14	-0.5	40.8	17.3
KRASNOYARSK	18	6	30	-6	12	2.6	13.1	-30.0
NOVOSIBIRSK	18	7	28	-3	12	2.8	37.1	4.1
BARNAUL	18	8	30	-3	13	1.1	32.6	-3.3
KHABAROVSK	16	5	24	-1	10	-1.4	19.6	-42.2
VLADIVOSTOK	15	7	22	1	11	1.8	34.2	-39.4
KLEV	20	10	24	5	15	0.6	28.6	-23.2
LVOV	19	8	24	5	14	0.9	132.7	60.6
KIROVOGRAD	21	9	26	2	15	-0.6	36.4	-11.5

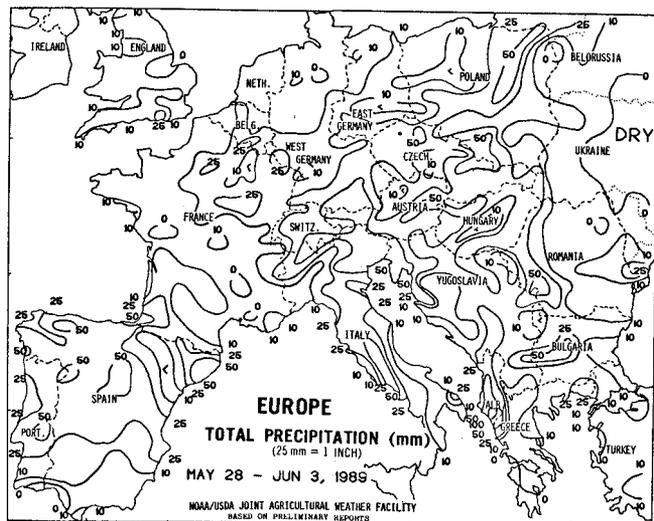
COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
	AVG	AVG	HI	LO	DPART	DPART	TOTAL	F/NRM		May 1989	AVG	AVG	HI	LO	DPART	DPART	TOTAL
May 1989																	
USSR	19	12	27	8	15	0.5	25.0	-18.5	TANZAN	28	21	31	20	25	-0.7	190.8	26.0
	19	13	27	8	16	-0.2	43.6	18.7	GABON	30	23	31	21	27	-0.1	235.0	-32.9
	19	7	25	1	13	-1.2	33.1	-18.0		32	25	37	22	28	1.0	361.2	213.2
	18	10	24	3	14	-0.8	90.2	46.5	TOGO	40	27	41	22	33	2.2	37.8	-49.9
	20	9	24	4	15	-0.9	36.1	-10.9	B FASO	31	25	33	22	28	1.0	165.5	-157.3
	19	9	24	1	14	-2.8	44.7	12.9	IVRY C	29	17	34	14	23	2.1	0.4	-28.2
	20	11	26	5	15	-1.7	43.5	-6.3	MOZAMB	25	11	30	9	18	0.2	0.1	-4.9
	21	11	26	2	16	-2.4	53.0	32.3	ZAMBIA	24	11	26	8	18	1.7	9.2	-2.7
	20	11	28	1	15	-1.7	99.4	36.6	ZIMBAB	22	10	27	7	16	2.2	8.3	-12.7
	21	9	27	0	15	-0.6	56.9	28.6	S AFRI	21	6	25	2	14	1.5	20.0	-3.0
	19	9	27	-4	14	1.2	51.6	24.9		19	9	24	5	14	1.7	32.0	11.0
	19	7	26	-3	13	-0.1	35.5	4.8		21	5	24	1	13	0.9	16.1	-2.9
	24	13	31	9	18	0.4	34.6	-44.0		24	16	29	9	20	1.4	21.1	-35.8
	26	12	36	-2	19	-1.0	26.6	-18.3		20	9	27	1	14	0.3	38.6	-37.4
	30	15	39	1	22	-1.1	10.9	-17.1	CANADA	19	7	27	1	13	0.8	79.4	13.4
SYRIA	31	10	37	4	20	-0.4	0.1	-5.3		20	9	31	3	15	1.5	84.0	18.5
ISRAEL	27	14	36	7	21	0.7	0.1	-4.1		21	6	31	-10	14	2.4	15.9	-49.8
PAKIST	36	25	45	19	31	0.0	0.1	0.1		20	5	29	-7	13	1.4	56.1	9.6
INDIA	39	19	43	12	29	-0.9	8.6	-5.8		18	5	27	-10	11	0.1	93.8	54.3
	40	26	43	20	33	0.2	3.3	-13.6		18	3	26	-2	11	-0.4	42.7	-8.1
	42	26	45	16	34	0.3	0.1	-6.1		16	2	26	-2	9	-0.4	41.4	-7.2
	42	24	45	19	33	0.6	10.3	0.9		17	5	27	-1	11	-0.3	68.1	25.6
	36	26	42	21	31	-0.2	83.0	0.8		17	9	22	5	13	0.7	78.2	26.6
	33	23	41	16	28	-1.0	0.1	-1.6	MEXICO	31	14	38	8	22	-0.9	0.4	-26.2
	34	27	39	24	30	0.6	0.1	-19.8		25	13	32	9	19	0.7	40.5	-11.1
	37	22	41	19	29	-0.5	27.2	-18.8		33	24	38	21	28	-0.1	0.1	-31.6
	40	27	44	23	34	1.5	0.3	-37.9		26	21	29	12	24	1.8	64.6	-37.6
	39	28	42	23	33	0.7	3.0	-42.2		31	22	33	19	27	1.3	31.0	-85.9
	34	25	35	22	29	0.3	72.7	-160.2		30	24	33	19	27	1.4	20.0	-94.9
H KONG	27	24	31	21	26	-0.4	349.6	46.1		32	24	34	22	28	0.1	50.2	-45.2
N KREA	22	9	27	2	15	1.1	45.5	-31.5		**	25	**	21	**	**	1.0	-148.5
S KREA	23	13	30	9	18	2.1	41.5	-44.6		31	23	32	20	27	0.6	13.3	-82.1
JAPAN	16	8	24	4	12	0.0	53.0	-6.1		30	24	31	21	27	1.3	14.6	-89.0
	23	14	28	10	19	0.5	195.0	33.3		30	24	30	21	27	-0.2	3.1	-51.5
	21	15	25	10	18	-0.3	215.5	67.6		32	23	33	22	28	0.7	32.6	-78.0
	21	15	24	10	18	-0.3	210.4	46.7		18	8	21	1	13	-0.5	51.2	-25.3
	23	14	28	10	18	1.0	205.3	62.5		29	23	33	21	26	-0.2	67.5	34.3
	23	15	28	12	19	0.3	177.5	36.6		28	24	29	23	26	0.0	140.7	-444.7
THAILN	35	25	38	22	30	0.2	366.3	215.1		29	23	30	22	26	-0.6	168.2	-115.1
	34	26	38	24	30	0.6	179.0	-5.9		28	23	30	21	26	0.2	421.6	110.1
MALAYS	31	25	34	22	28	0.6	80.0	-116.7		26	16	31	12	21	1.4	2.6	-22.8
VIETNM	30	24	36	21	27	-0.9	178.6	-17.0		27	16	30	6	22	1.2	18.5	-62.5
CHINA	21	7	32	-1	14	0.5	18.1	-19.4		24	13	28	9	18	-0.4	45.2	5.3
	30	13	34	8	21	0.8	1.4	-0.3		25	20	31	17	22	-0.2	59.0	-26.6
	24	11	31	7	18	1.2	5.1	-31.1		25	14	28	8	19	1.0	41.0	-49.5
	27	15	35	11	21	1.2	33.0	-0.1		22	11	29	4	17	0.0	18.2	-144.9
	27	16	35	10	21	1.1	23.0	-7.6		24	12	24	8	**	**	19.4	-95.7
	21	6	26	-2	14	1.6	16.6	-5.0	PERU	20	16	23	14	18	-0.5	0.1	-0.2
	23	14	29	9	19	-0.3	133.3	40.2		14	-1	16	-4	7	-1.7	2.3	-11.4
	27	14	35	8	20	-0.8	43.8	0.8		18	4	26	-1	11	-0.3	19.0	-25.3
	26	18	32	14	22	0.1	102.5	-33.5		24	13	29	5	18	**	39.4	***
	25	17	31	11	21	-0.6	169.1	7.1		24	14	30	6	19	0.3	36.6	-80.4
	26	17	33	11	21	0.1	102.3	-132.8		23	10	30	2	17	0.5	25.0	-7.3
	23	16	27	13	19	0.6	104.5	-17.7		21	9	28	-2	15	0.7	19.0	-4.5
	25	19	33	14	22	-0.6	299.1	-2.9		19	8	26	2	14	0.7	13.1	-11.5
	29	23	39	18	26	1.5	300.5	81.6		20	8	28	-2	14	0.7	40.0	-5.0
	29	23	34	18	26	-0.1	570.5	294.6		20	8	27	-1	14	1.0	8.4	-68.6
	29	22	34	18	26	-0.3	176.7	-10.1		18	6	25	-3	12	0.6	74.0	50.9
CNRY I	24	17	27	15	20	0.2	5.1	2.1		17	7	24	-1	12	1.3	110.3	51.2
MOROCC	22	15	28	11	19	0.6	2.3	-16.6		25	21	27	17	23	1.2	170.9	61.1
	29	15	38	12	22	1.7	0.1	-21.7		25	20	29	16	22	0.3	117.8	23.6
ALGERI	25	13	33	5	19	0.7	8.6	-26.4		27	21	31	17	24	0.0	437.3	178.2
	26	9	34	-3	17	1.5	8.9	-30.2		30	25	31	22	27	0.5	196.8	-83.9
TUNISI	24	14	28	9	19	0.2	11.1	-15.3		31	23	32	22	27	1.0	55.0	-50.9
NIGER	41	28	44	26	35	1.2	16.0	-18.2		17	11	22	3	14	0.0	95.9	-21.7
MALI	42	**	45	**	**	**	0.0	-3.8		30	23	32	18	27	-0.2	50.6	-14.2
	39	27	41	23	33	1.9	12.8	-43.4	AUSTRL	32	23	33	19	27	0.2	2.0	-21.9
MAURIT	36	20	44	12	28	2.3	0.1	0.1		22	12	26	4	17	2.0	64.6	25.4
SENEGL	26	20	30	15	23	0.3	0.1	0.1		23	16	25	12	20	0.9	168.6	87.2
CHAG A	30	26	31	23	28	0.3	136.6	-53.3		22	11	29	7	16	0.4	116.0	6.4
LIBYA	30	17	43	9	23	1.2	0.1	-4.5		19	10	24	4	15	0.0	35.0	-8.4
	29	17	38	10	23	0.4	0.1	-3.3		18	11	21	5	14	0.4	86.8	23.1
EGYPT	33	19	41	13	26	0.9	0.1	-1.7		16	9	21	2	13	0.2	39.6	-17.7
	38	25	43	18	32	0.9	0.1	0.1		17	8	21	1	13	1.4	71.2	16.4
ETHIOP	24	11	27	8	17	-1.6	1.3	-75.2		16	7	22	2	11	2.6	44.0	-2.2
KENYA	24	14	26	10	19	-0.4	176.1	49.2	PHILIP	34	25	36	20	29	-0.1	134.5	9.9



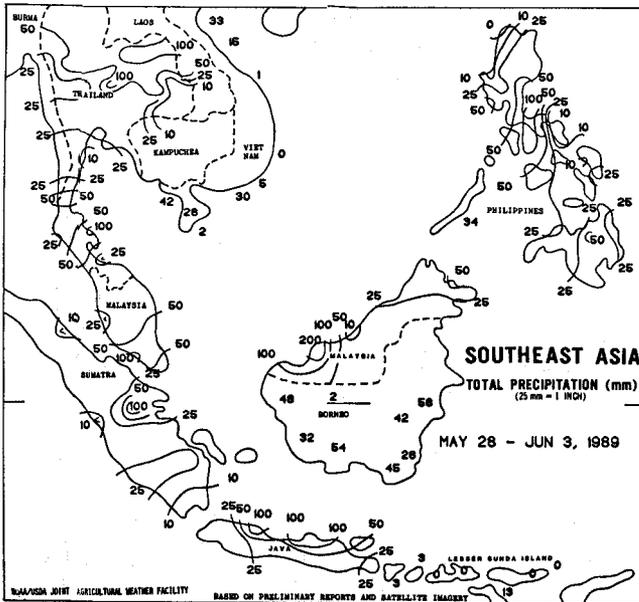
USSR ... In Western USSR, showers and local thunderstorms continued to produce widespread precipitation (10-34mm) over the North Caucasus and the lower Volga, benefiting winter grains in the reproductive to filling stages, corn in the vegetative stage, and spring grains in the jointing stage. Minimal rain covered southern Belorussia, the northern Ukraine, the southern portion of the Central Region and most of the Black Soils Region, continuing a drying trend which has covered these areas since early May. In addition, weekly average temperatures in these areas were 2-4 degrees Celsius (C) above normal, increasing evapotranspiration rates. Although subsoil moisture was likely adequate to meet the crop moisture demands of winter grains entering the reproductive phase, topsoils are becoming unfavorably dry for spring grains in the early vegetative stage. In contrast, widespread precipitation (10-35mm) in the Baltic States reversed a drying trend, benefiting spring and winter crops.



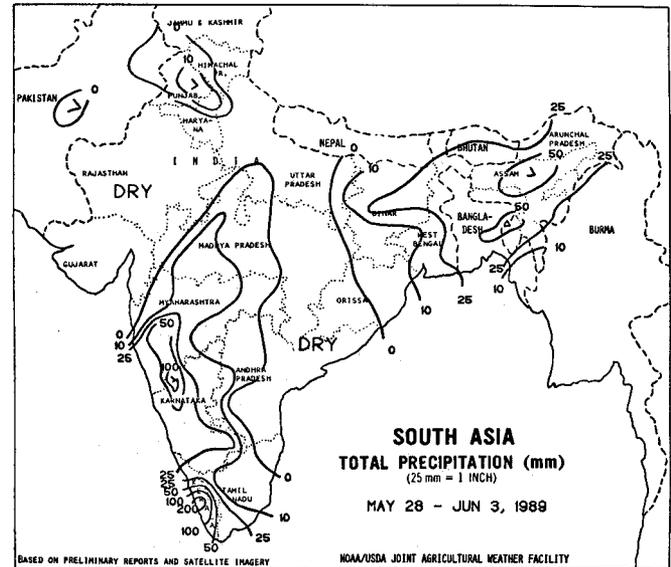
In the New Lands, unseasonably cool weather covered most spring grain areas, except for those in the Urals, where weekly average temperatures were around 2 degrees C above normal. On May 28, frost and subfreezing temperatures occurred as far south as central Kazakhstan where minimum temperatures ranged from 2 to -3 degrees C. Based on climatological record, the average date of the last spring frost in central Kazakhstan is May 21. Minimal, if any, damage to spring grains likely occurred because temperatures were not low enough to harm the crop in the early vegetative stage and the extreme cold only lasted 1 day. However, some vegetative growth may have been burned. Light precipitation covered spring grains over much of the region except for crop areas in the extreme east where widespread beneficial precipitation (25-60mm) occurred.



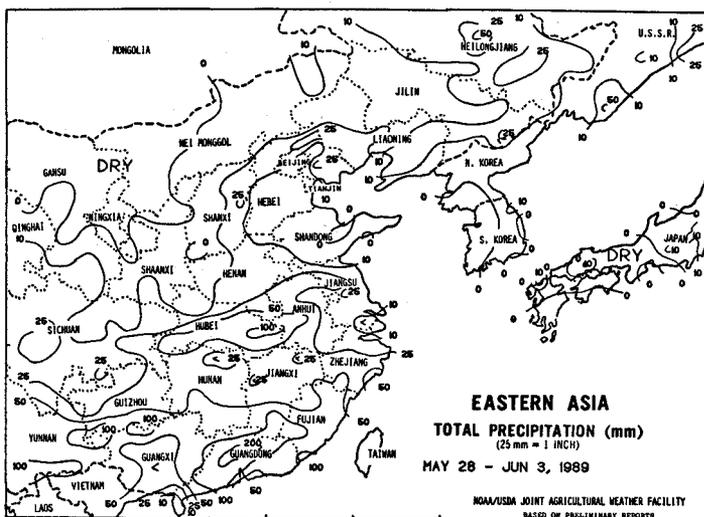
EUROPE ... Moderate to heavy rain (15-50mm, with isolated amounts in excess of 50mm) fell over much of eastern Europe, benefiting reproductive to filling winter grains and vegetative summer crops. The rain also helped reduce dryness in sections of Poland and East Germany. Scattered rain (5-20mm, with isolated rainfall in excess of 20mm) fell across much of the remainder of northern Europe, although amounts were generally insufficient to alleviate topsoil moisture deficiencies which have developed in some areas of West Germany and England following as many as 5 consecutive weeks of below-normal rainfall. In the southwest, widespread rain (20-60mm, with scattered amounts in excess of 50mm) favored filling winter grains and vegetative summer crops. Mean temperatures turned cooler than normal over most crop areas.



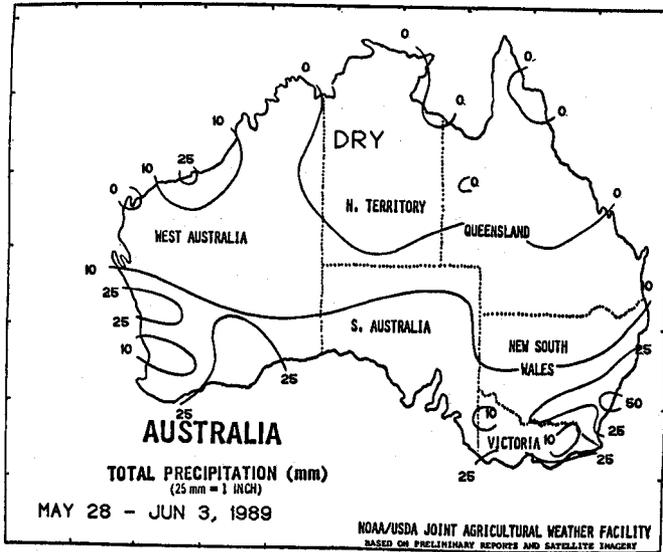
SOUTHEAST ASIA ... Above-normal rainfall continued over most Thai main season growing areas, with amounts ranging from 50 to 149mm over most northern, northeastern, and central crop regions. The showers maintained favorable conditions for early crop growth and establishment. Weekly temperatures averaged near to slightly below normal with high temperatures averaging in the low to middle 30's C. In the Philippines, variable, light to moderate rain (10-50mm or more) covered the islands with the heaviest rain (50-100mm or more) concentrated over southern Luzon and the west-central islands. Drier and warmer-than-normal weather continued over local areas of northern and central Luzon, reducing moisture reserves for early vegetative grains.



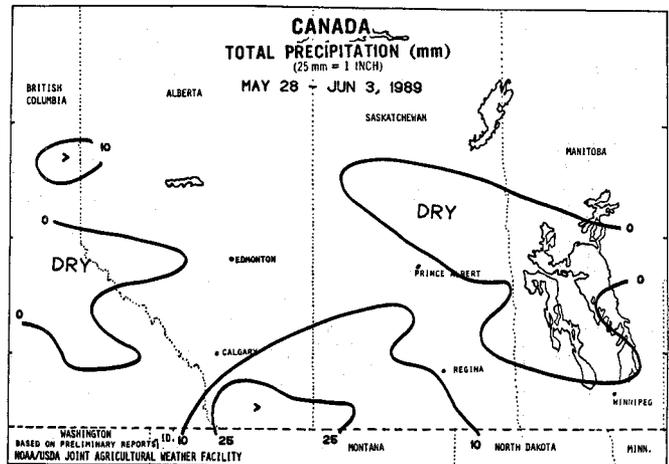
SOUTH ASIA ... Remnants of a tropical cyclone brought mostly light to moderate rain (10-25mm or more) to eastern crop areas from Bihar eastward, with only local areas in Assam and Bangladesh reporting greater than 50mm. Showers returned to a large part of the south, with moderate rainfall (25-50mm or more) extending from western Madhya Pradesh to Kerala, improving conditions for summer crop planting and establishment. Locally heavy showers (100-200mm or more) persisted over central Kerala, promoting flooding. Scattered, light rain (1-11mm) covered crop regions of northern Pakistan and northern India, but temperatures continued hot, with maximum temperatures averaging in the low 40's C. Elsewhere, temperatures averaged 1-3 degrees C below normal in eastern areas affected by the tropical cyclone and near normal over southern India's main growing areas.



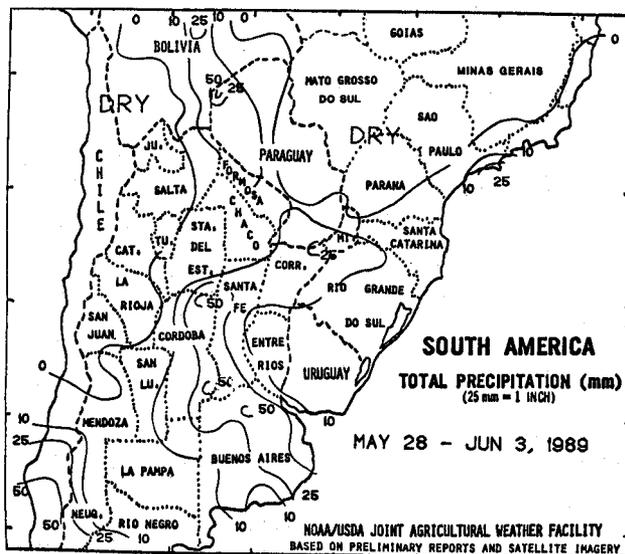
EASTERN ASIA ... Heavy rain (25-75mm, with scattered amounts in excess of 75mm) continued across much of southern China and the Yangtze Valley, keeping soils abnormally wet and causing delays in early winter wheat harvest in the Yangtze Valley. Very heavy rainfall (100-250mm) likely caused flooding in sections of Guangdong. It was the 5th consecutive week of above-normal precipitation in sections of the southeast. In the north, heavy rain (20-45mm) favored vegetative summer crops in Heilongjiang, while scattered, mostly light rain covered remaining Chinese crop areas. Mostly dry weather favored rapid planting progress across the Korean Peninsula and Honshu in Japan. Moderate to heavy rain (25-50mm) fell over much of Hokkaido. Mean temperatures were above normal in northern crop areas and below normal in the south.



AUSTRALIA ... Widespread rain (5-30mm, with scattered totals in excess of 30mm) fell over crop areas of Western Australia, South Australia, Victoria, and southern New South Wales, delaying winter grains planting but maintaining near optimal conditions for those crops already planted. Mostly light rain (less than 10mm) fell over northern sections of New South Wales and extreme southern Queensland, while central Queensland turned seasonably dry, allowing late harvest of summer crops to resume following several weeks of above-normal rainfall. Sugarcane growing areas of northeastern Queensland also remained mostly dry. Mean temperatures were below normal in southeastern crop areas and normal to above normal elsewhere.



CANADA ... Beneficial rainfall (10-25mm or more) covered the spring crop regions of western Saskatchewan and extended into southern Alberta, providing much needed moisture to areas in the southwest that had been trending dry recently. Light, scattered rain (1-10mm) continued elsewhere in Alberta and Saskatchewan, allowing planting to progress. Manitoba was dry, however, reflecting the recent drying trend that has reduced moisture reserves for newly planted spring wheat in the Province's southeastern crop areas. Temperatures continued to average 1-2 degrees C below normal over primary crop areas, slowing germination and emergence. Low minimum temperatures ranged from 0 to -3 degrees C in northern crop areas of Alberta and Saskatchewan, but little of the crop should be affected because of the slow development of the recently planted grains.



SOUTH AMERICA ... Substantial rain (25-55mm, with isolated amounts reaching 57-91mm) fell over most of Buenos Aires, western Sante Fe, and eastern Cordoba. Weekly rainfall generally averaged 9-25mm over the remainder of Argentina's grain area, although less than 5mm of rain fell in extreme southwestern Buenos Aires and southeastern La Pampa. Corn harvesting was delayed by the rain, but the harvest pace was reportedly similar to the previous year at slightly over 80 percent by late May. The moisture was beneficial for wheat establishment. In south-central Brazil, showers (10-17mm) in western Rio Grande do Sul promoted wheat growth. Rain diminished further east and north. Dry weather prevailed throughout the coffee and citrus growing areas, favoring harvesting.

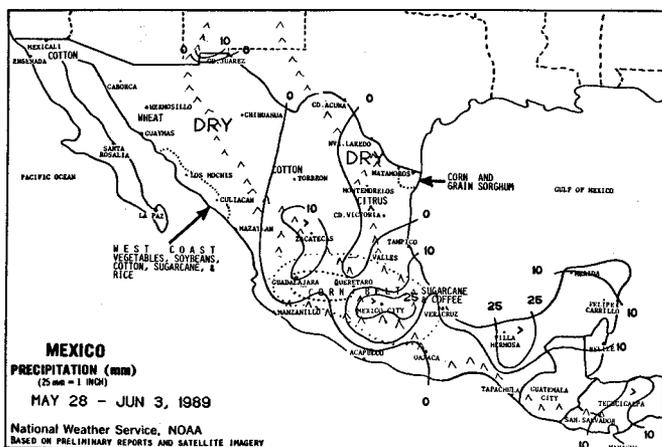
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MEXICO ... Dry weather prevailed in northwestern Mexico, favoring the wheat harvest. Extreme high temperatures reached the middle to upper 30's C throughout northern Mexico. The west coast farming area continued seasonably dry, with crops relying on irrigation. Light, scattered rain fell in the western and northern portions of the Southern Plateau corn belt. Beneficial rain (10-43mm) fell in southeastern portions of the major Southern Plateau corn area. Variable rainfall (1-39mm) covered southern Mexico, as tropical shower activity remained weak and sporadic.

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