

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

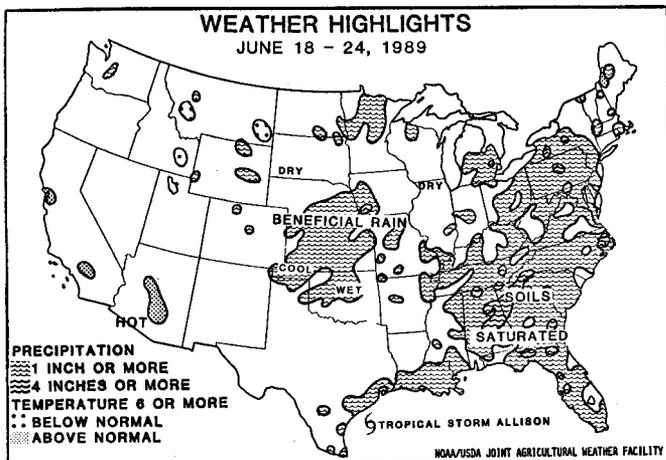
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June 27, 1989

National Weather Summary

June 18-24, 1989



HIGHLIGHTS: Showers and thunderstorms continued to develop in the warm muggy air over the eastern third of the Nation. Rains saturated the soil, swelled rivers, and caused local flooding. During the latter part of the week, beneficial rains spread across the central Plains and middle Missouri Valley behind a slow moving weather system. Dry weather or light rain, however, again covered much of the northern Plains and parts of the western Corn Belt. A tropical depression brought rain to the western Gulf coast at week's end.

SUNDAY: Severe thunderstorms erupted from the middle Mississippi Valley, across the Tennessee Valley, into central Florida. Rain showers were scattered from the upper Mississippi Valley to New England. A rare tornado near Farmington, ME, toppled trees and damaged homes.

MONDAY: Showers and thunderstorms continued soaking the eastern Great Lakes to the eastern Gulf coast as beneficial rain moved into southern Florida. A strong cold front scattered rain across the Northwest into the northern Rockies. The searing heat, which plagued the Southwest, reached into the Plains as temperatures climbed into triple digits.

TUESDAY: Showers and thunderstorms again drenched the East. The vigorous cold front spread needed rain from the northern Rockies into the middle Mississippi Valley. The extreme heat remained over the central and southern Plains.

WEDNESDAY: Thunderstorms were again widespread in the humid air over the eastern third of the Nation. Beneficial rain fell along the powerful cold front, extending from the Texas Panhandle to the upper Mississippi Valley. Cool air poured into the North Central States behind the front.

THURSDAY: Showers continued across the rain soaked eastern United States. The persistent rains swelled rivers and caused flooding. The eastward moving cold front became stationary and triggered more showers and thunderstorms from the southern Plains to the upper Great Lakes. Heavy rain at Oklahoma City, OK, brought their month's rainfall total to 14.25 inches, their wettest June on record.

FRIDAY: Heavy downpours of rain again fell over the Appalachians and Great Lakes and Atlantic Coast States. Rain at Pittsburgh, PA, raised their June rainfall total to 8.46 inches, their second wettest on record. Showers remained scattered along and ahead of the stationary front curving from the central Rockies, across the southern Plains, to the upper Great Lakes. Showers were also scattered over the northern Rockies and northern Plains.

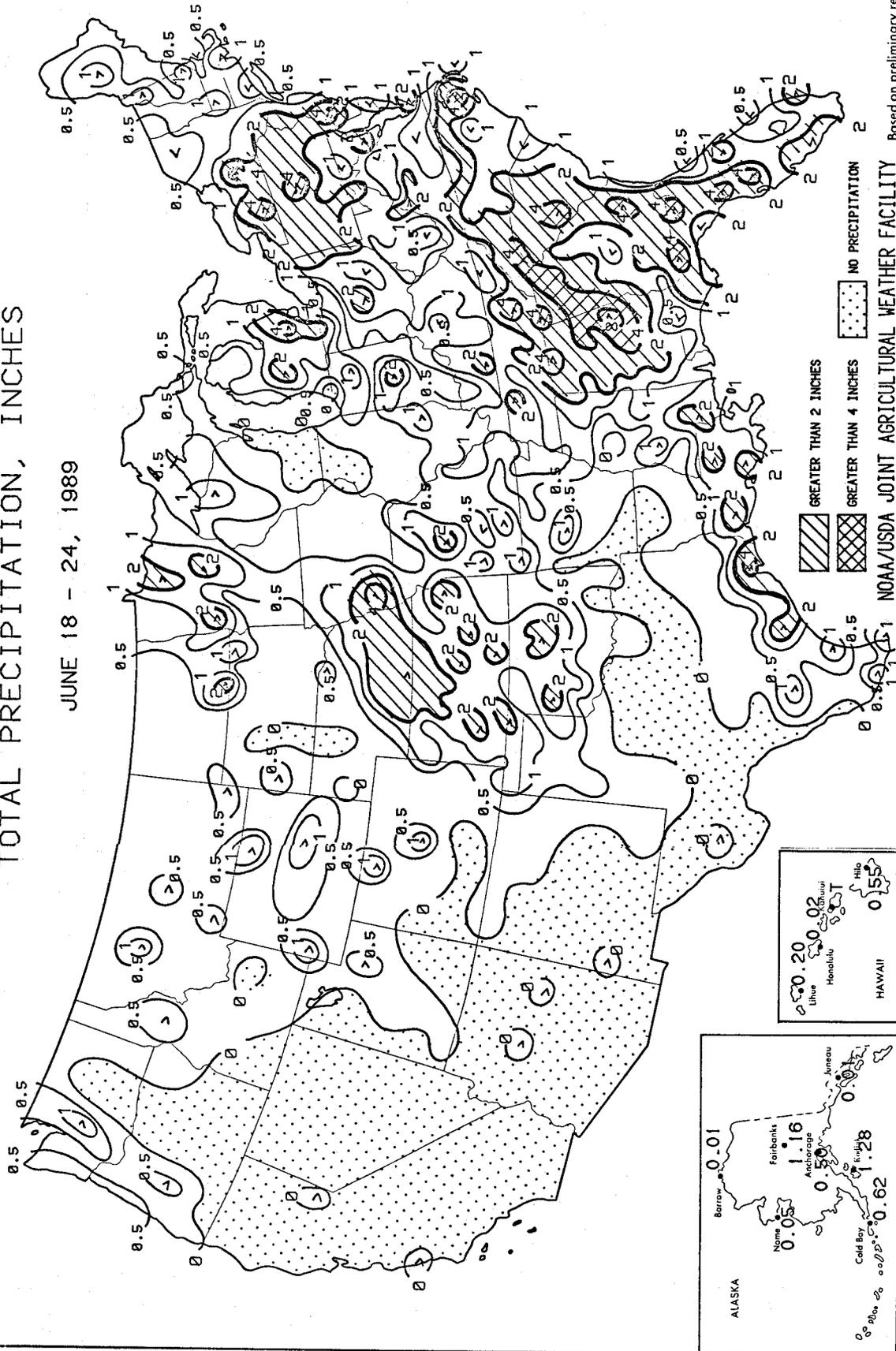
SATURDAY: Widespread thunderstorms caused severe weather but brought much needed rain into the central Plains and middle Missouri Valley. A tropical depression brought rain to the western Gulf coast. Thunderstorms were scattered down the eastern seaboard and across the Southeast.

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TOTAL PRECIPITATION, INCHES

JUNE 18 - 24, 1989



Station	Precipitation (inches)
Lincoln	0.20
Honolulu	0.02
Maui	0.02
Kauai	0.02
Hilo	0.15

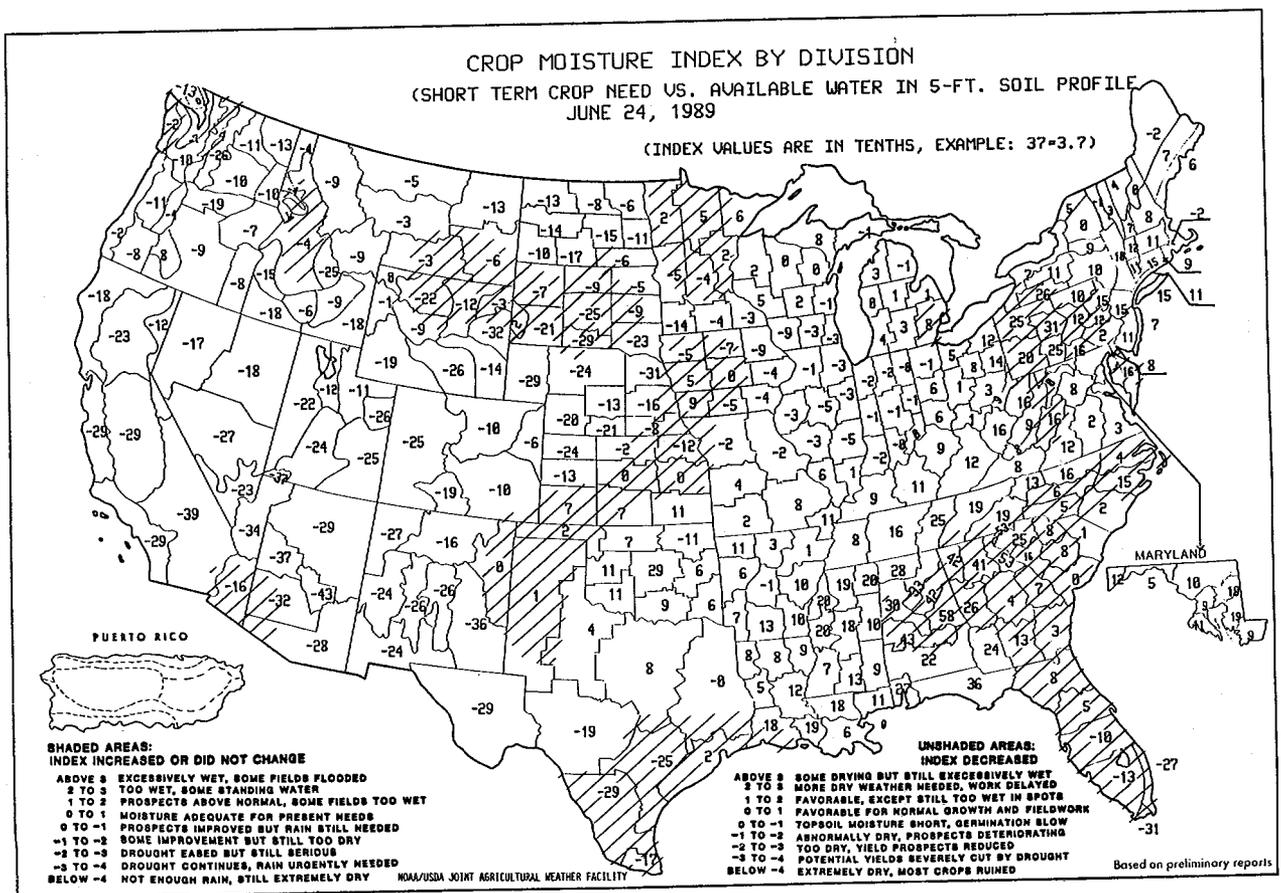
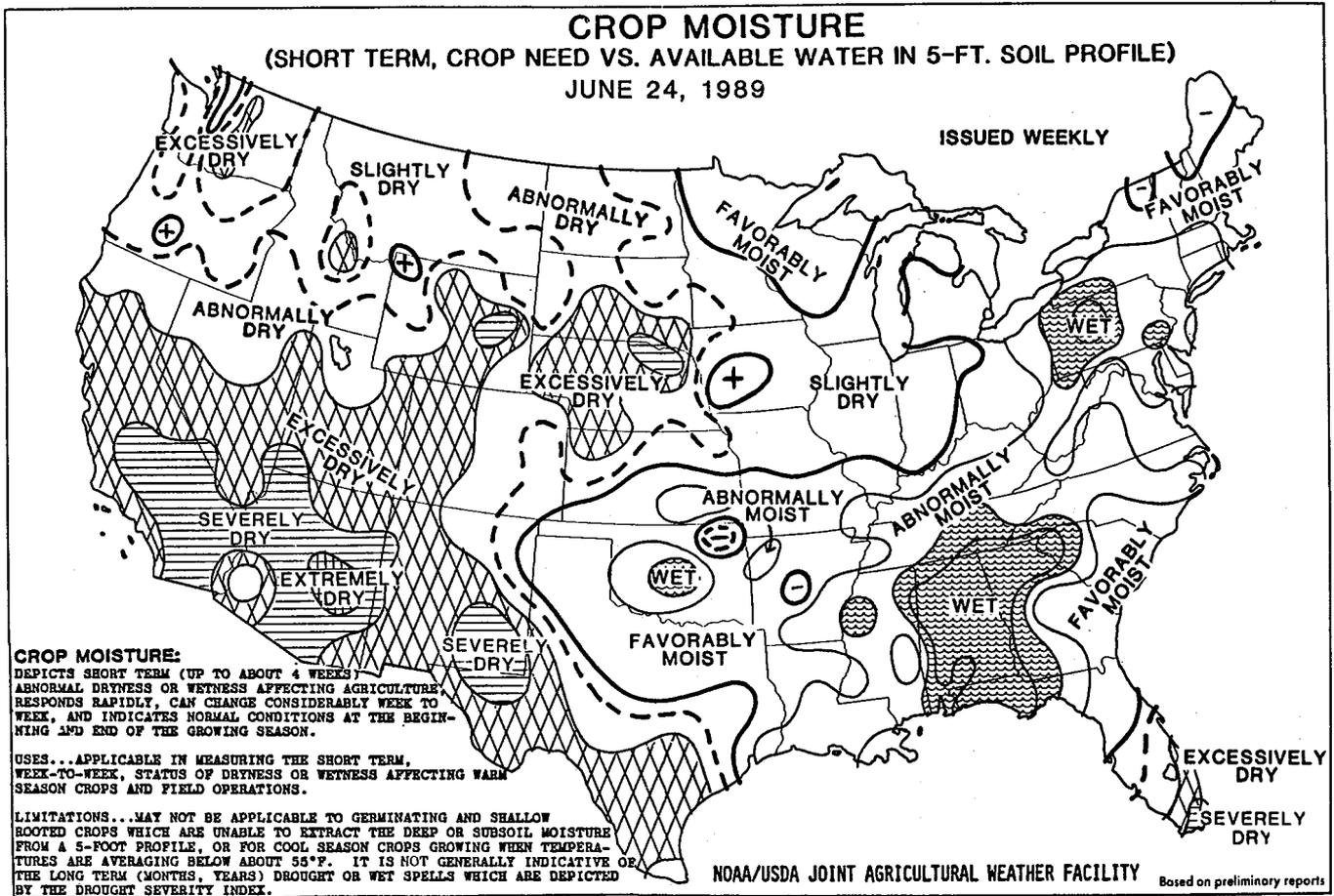
HAWAII

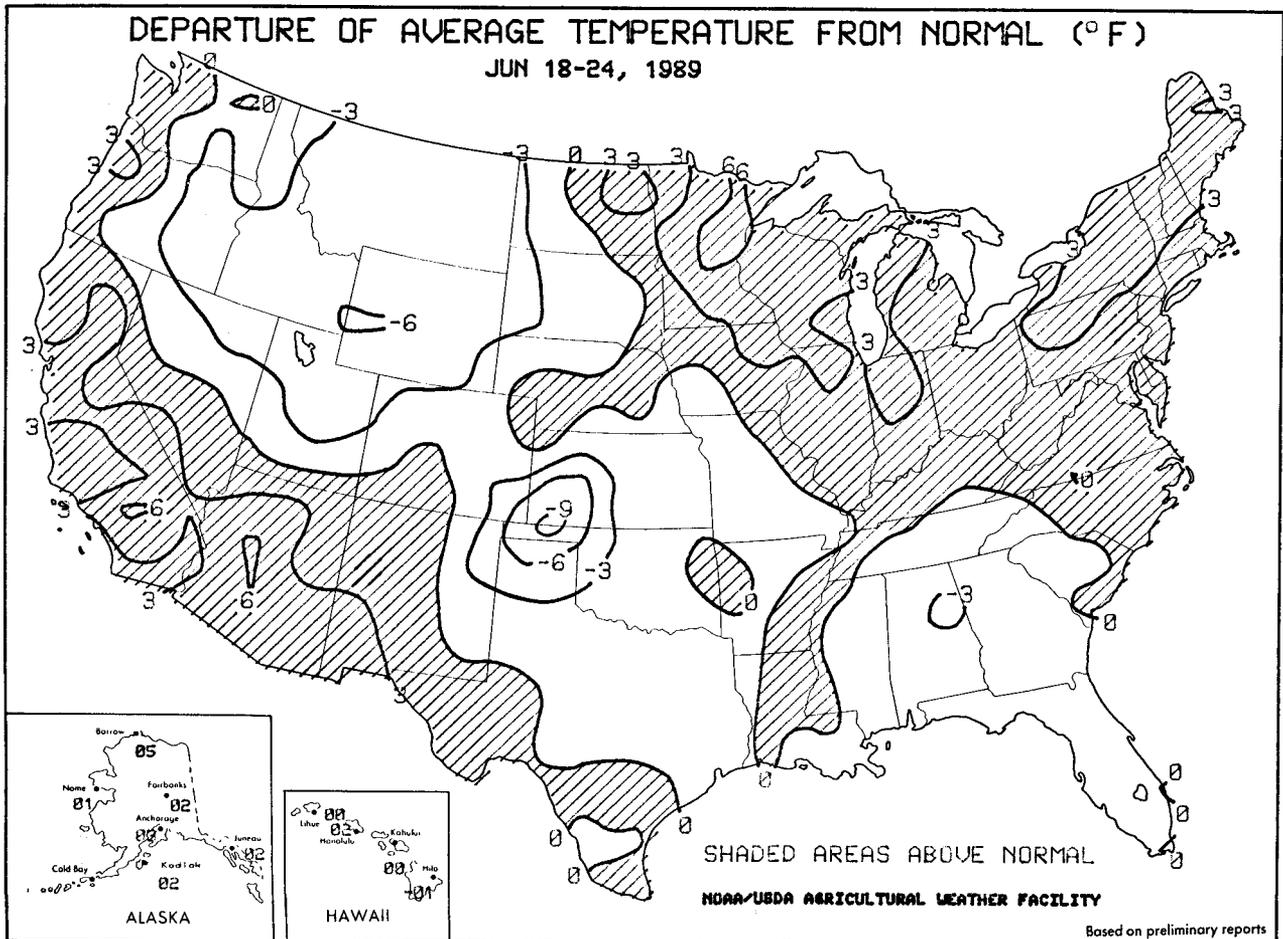
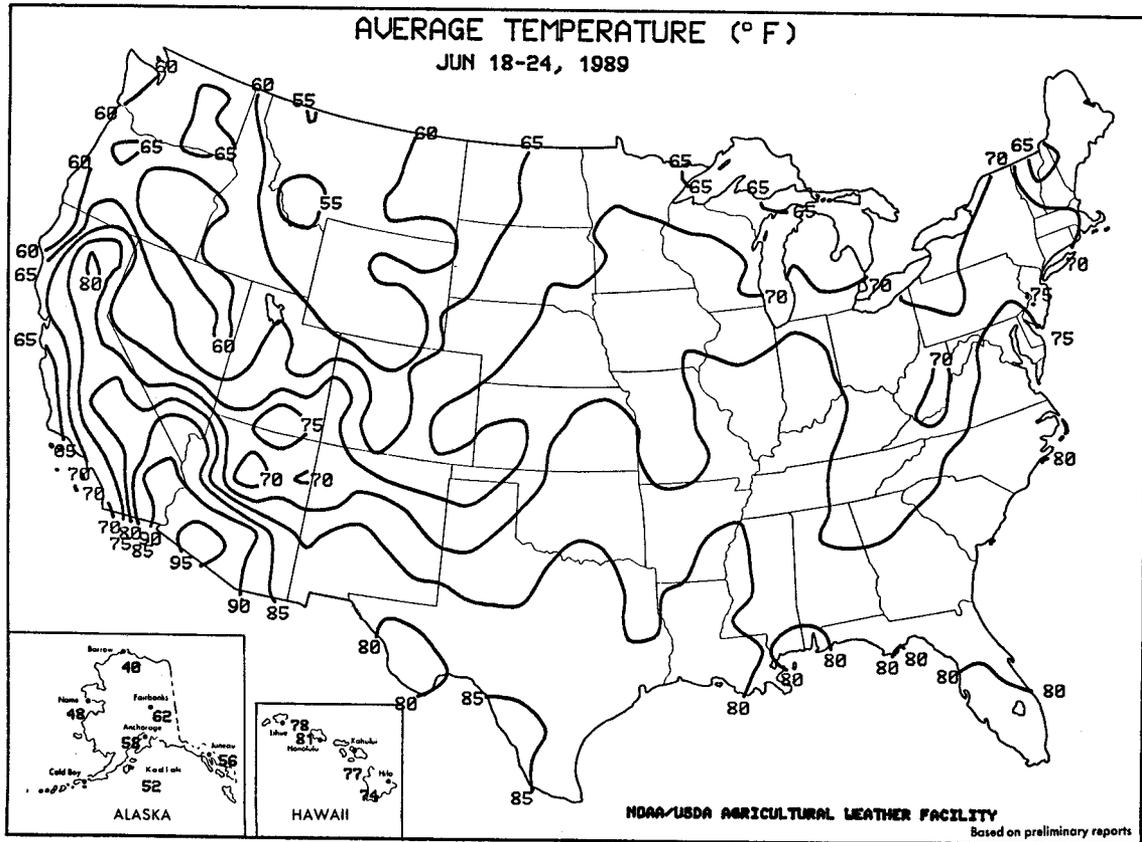
Station	Precipitation (inches)
Barrow	0.01
Fairbanks	0.05
Nome	0.05
Anchorage	1.16
Juneau	0.50
Cold Bay	1.28
Ugashik	0.62

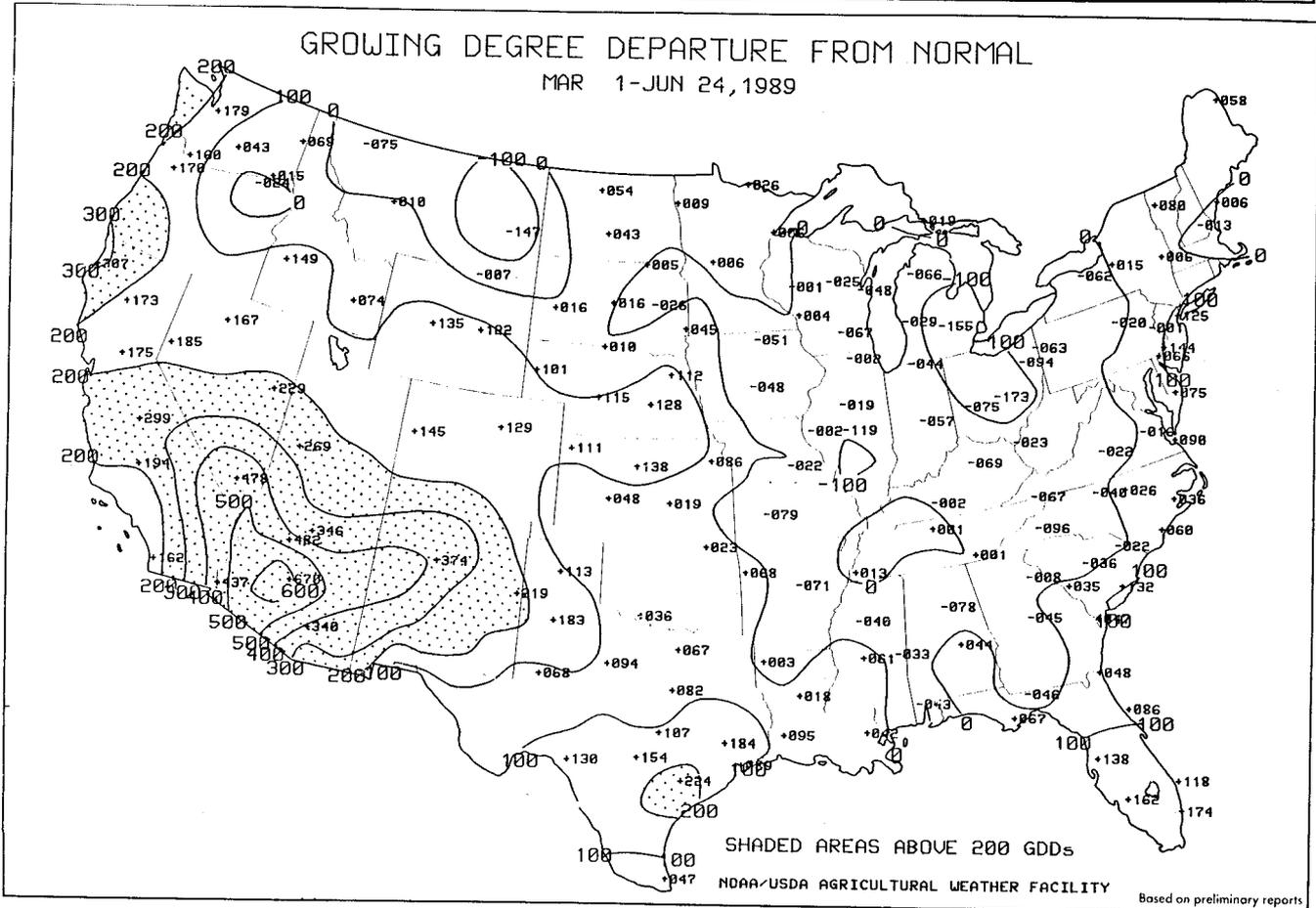
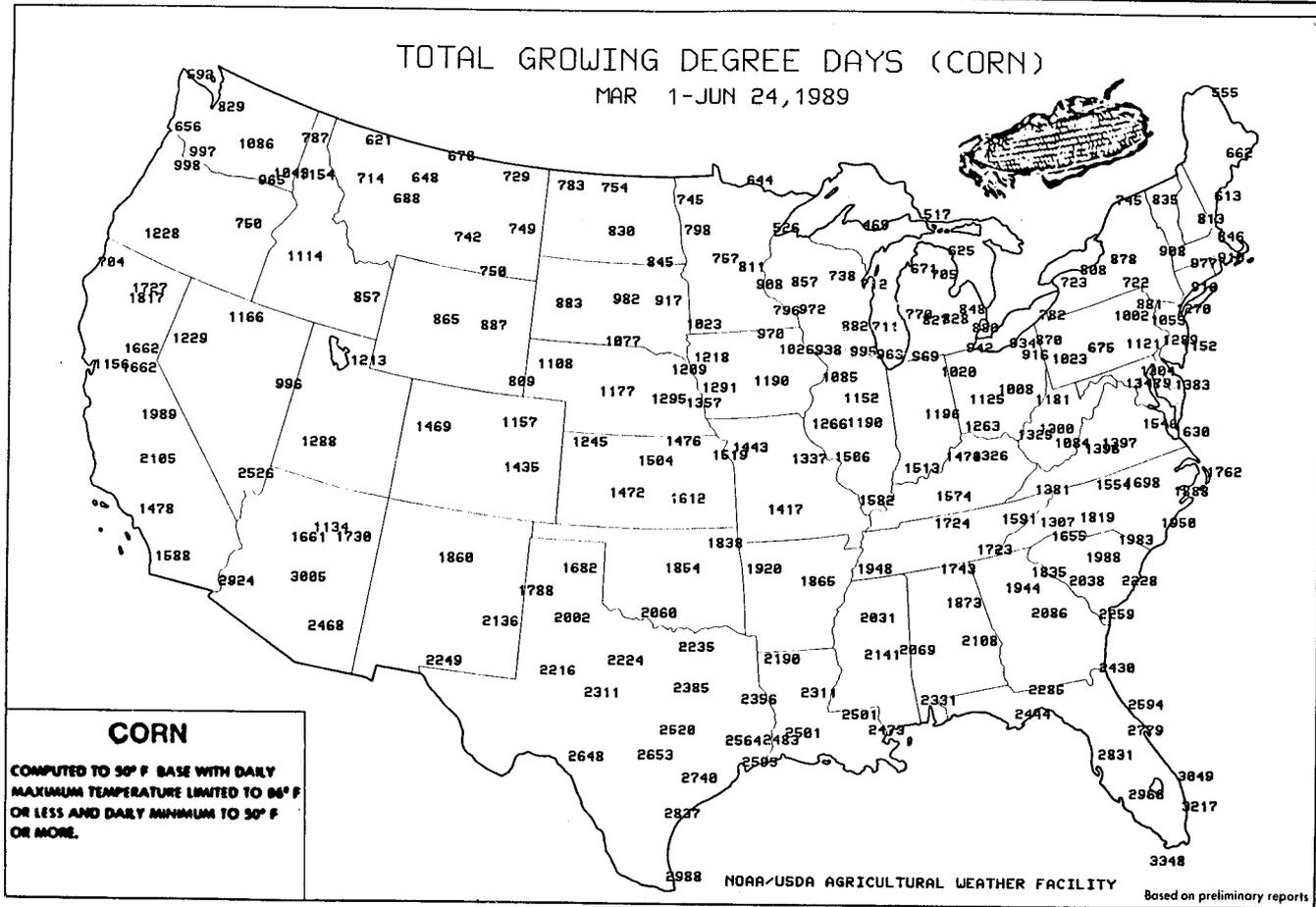
ALASKA

Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY







National Weather Data for Selected Cities

Weather Data for the Week Ending June 24, 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	TEMPERA- TURE °F		PRECIPITA- TION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	85	66	88	62	75	-3	3.9	3.0	1.7	7.1	254	30.1	104	96	64	0	0	5	3
MOBILE	87	71	90	70	79	.8	.8	-5	.3	8.7	224	27.9	91	99	61	1	0	5	0
MONTEGOMERY	86	69	91	67	78	-2	4.5	3.7	3.1	13.3	497	36.6	143	98	62	2	0	4	3
AK ANCHORAGE	65	52	71	48	58	3	.5	.2	.3	1.1	143	4.8	112	76	45	0	0	3	0
BAHROV	47	33	60	29	40	4	T	-1	T	.4	144	1.3	116	96	61	0	0	1	0
FAIRBANKS	73	52	81	44	63	2	1.2	.8	1.0	1.2	119	3.9	120	83	52	0	0	2	1
JUNEAU	61	50	66	47	56	2	.1	-7	0	1.0	44	13.4	69	94	59	0	0	2	0
KODIAK	60	45	72	38	52	2	1.3	.4	.5	6.6	197	20.0	74	96	61	0	0	4	1
NOME	55	41	62	36	48	1	.1	-3	.1	.2	25	7.3	190	95	60	0	0	1	0
AZ PHOENIX	109	81	115	76	95	7	0	-1	0	0	0	2.3	90	24	7	0	0	0	0
PRESCOTT	91	60	100	49	75	7	0	-2	0	0	0	2.8	44	31	8	4	0	0	0
TUCSON	107	73	113	68	90	6	0	-1	0	0	0	2.0	74	22	7	0	0	0	0
YUMA	108	78	115	73	93	4	0	0	0	0	0	.8	93	38	13	7	0	0	0
AR FORT SMITH	92	67	94	61	80	1	0	-8	0	5.1	171	31.9	158	97	43	6	0	0	0
LITTLE ROCK	89	70	91	67	79	-1	.4	-4	.4	4.9	165	32.3	124	83	53	4	0	2	0
CA BAKERSFIELD	96	65	105	60	80	0	0	0	0	0	0	2.3	59	57	19	6	0	0	0
EUREKA	64	51	68	49	58	3	0	-1	0	.1	16	19.0	86	83	64	0	0	0	0
FRESNO	97	64	105	59	80	4	0	0	0	0	0	4.8	69	58	16	6	0	0	0
LOS ANGELES	75	61	79	59	68	2	0	0	0	T	0	3.2	39	91	57	0	0	0	0
REDDING	95	67	103	59	81	3	0	-2	0	1.0	134	19.6	80	41	13	5	0	0	0
SACRAMENTO	93	60	102	52	77	4	0	0	0	.6	644	9.1	85	67	20	6	0	0	0
SAN DIEGO	75	62	84	59	68	2	0	0	0	T	0	2.0	31	91	60	0	0	0	0
SAN FRANCISCO	80	55	98	50	68	6	0	0	0	T	0	7.4	59	84	36	2	0	0	0
CO DENVER	82	55	98	46	68	0	-.1	-2	.1	2.1	163	9.3	118	70	24	3	0	3	0
GRAND JUNCTION	87	58	100	44	72	-2	0	-1	0	.2	80	3.7	101	33	13	3	0	0	0
PUEBLO	87	54	101	49	71	-2	0	-3	T	.7	82	3.6	79	66	18	4	0	0	0
CT BRIDGEPORT	78	63	83	61	70	1	1	T	-7	T	4.3	188	24.9	127	91	57	0	0	0
HARTFORD	83	61	89	57	72	2	.7	-1	.7	6.6	242	27.7	132	98	50	0	0	1	1
DC WASHINGTON	85	70	87	66	78	2	1.8	1.1	1.3	6.0	228	26.9	151	95	61	0	0	5	1
FL APALACHICOLA	88	73	89	71	80	0	1.7	.5	1.7	10.1	277	24.4	116	100	68	0	0	1	1
DAYTONA BEACH	87	70	88	68	79	-1	.2	-1.3	.2	1.8	36	16.2	85	96	62	0	0	3	0
JACKSONVILLE	89	68	92	66	79	-2	1.0	-4	.5	3.3	72	13.2	61	99	53	4	0	5	0
KEY WEST	88	78	89	74	83	-1	.7	-5	.6	1.5	37	7.6	55	84	63	0	0	3	1
MIAMI	88	76	90	71	82	0	3.3	1.1	1.9	5.2	70	10.6	46	85	57	1	0	3	2
ORLANDO	90	71	93	70	81	-1	2.3	.6	.8	6.1	112	16.0	80	97	53	4	0	6	1
TALLAHASSEE	90	68	94	67	79	-1	5.6	4.0	3.6	14.8	293	31.1	105	100	56	3	0	6	3
TAMPA	91	71	95	70	81	0	3.4	2.1	1.7	4.7	116	9.4	53	95	50	5	0	6	3
WEST PALM BEACH	88	74	90	73	81	0	.9	-1.0	.4	1.6	26	13.0	55	91	58	1	0	7	0
GA ATLANTA	83	67	89	64	75	-1	3.8	3.0	2.5	8.9	338	31.2	119	94	59	0	0	5	2
AUGUSTA	89	67	93	64	78	0	4.2	3.2	1.7	7.6	249	24.8	108	98	53	2	0	5	4
MACON	89	67	91	64	78	-2	.9	.1	.5	3.7	127	25.0	104	98	51	2	0	3	0
SAVANNAH	88	70	92	69	79	0	.6	-.8	.3	4.2	96	13.3	60	99	56	2	0	3	0
HI HILO	82	67	83	65	75	-1	-.6	-.8	.2	5.6	115	103.9	163	92	58	0	0	5	0
HONOLULU	89	73	91	69	81	2	0	T	-1	T	5	12.7	98	84	46	3	0	1	0
KAHULUI	87	68	89	64	77	0	T	-1	T	.1	32	26.2	229	89	52	0	0	0	0
LIHUE	83	73	84	70	78	0	.2	-1	.2	1.6	121	31.9	146	89	63	0	0	1	0
ID BOISE	77	48	89	40	63	-5	T	-2	T	.1	9	6.5	95	64	20	0	0	0	0
LEWISTON	78	54	87	49	66	-2	.1	-3	0	1.4	121	8.2	116	65	28	0	0	2	0
POCATELLO	73	41	88	30	57	-7	.1	-2	.1	.6	71	6.6	109	79	24	0	0	1	0
IL CHICAGO	84	62	91	57	73	3	.1	-1.0	0	2.0	59	8.2	52	90	52	2	0	2	0
MULINE	86	62	92	56	74	1	1	T	-1.0	T	3.3	97	14.6	85	94	45	2	0	0
PEORIA	87	64	92	61	76	3	.3	-.6	.3	1.0	31	10.9	66	93	44	1	0	1	0
QUINCY	88	64	92	61	76	2	T	-.9	T	.8	25	7.6	44	92	44	3	0	1	0
ROCKFORD	87	62	91	57	75	4	T	-1.1	T	2.0	56	9.8	59	93	46	1	0	0	0
SPRINGFIELD	88	65	91	62	76	2	T	-.8	T	.6	21	14.1	85	91	43	2	0	1	0
IN EVANSVILLE	89	67	93	64	78	2	.2	-.7	.1	3.6	128	28.2	129	98	52	4	0	2	0
FORT WAYNE	86	62	93	57	74	3	.4	-.5	.4	5.6	192	18.3	108	94	50	2	0	2	0
INDIANAPOLIS	86	66	92	63	76	3	1.5	.5	1.5	3.7	118	20.6	108	93	50	2	0	1	1
SOUTH BEND	86	63	91	58	74	4	T	-1.0	T	2.8	91	13.3	77	89	47	2	0	0	0
IA DES MOINES	83	62	90	57	73	0	.2	-.7	.2	1.3	38	9.6	65	91	46	1	0	3	0
SIoux CITY	86	61	99	53	73	1	1.0	0	.7	1.7	53	6.3	52	87	38	3	0	3	1
WATERLOO	88	61	92	53	74	4	T	-1.0	T	.7	21	7.0	46	91	37	3	0	1	0
KS CONCORDIA	86	62	99	53	74	-1	2.5	1.5	1.4	4.2	122	10.3	79	87	42	3	0	3	2
DODGE CITY	80	59	95	49	69	-7	1.9	1.2	1.5	6.0	250	11.2	113	91	51	2	0	3	1
GOODLAND	85	58	102	49	72	0	1.9	1.3	1.9	3.9	178	8.2	102	79	28	3	0	1	1
TOPEKA	87	63	96	57	75	-1	2.2	1.0	1.6	3.4	83	13.3	87	93	48	3	0	5	2
WICHITA	87	64	96	58	76	-2	1.3	.4	1.2	6.9	214	15.6	120	92	46	3	0	2	1
KY BOWLING GREEN	88	67	95	65	78	2	1.5	.5	1.2	6.9	192	37.4	144	96	57	3	0	3	1
LEXINGTON	83	66	88	61	75	1	.5	-.5	.5	4.1	121	32.2	138	95	59	0	0	3	0
LOUISVILLE	86	68	91	64	77	2	1.4	.5	1.0	5.2	184	32.7	146	98	54	3	0	4	1
LA ALEXANDRIA	92	73	94	69	82	1	T	-.8	T	2.4	76	34.6	124	98	53	6	0	2	0
BATON ROUGE	90	73	94	70	81	0	2.8	2.0	2.7	11.9	520	39.1	146	99	56	4	0	2	1
LAKE CHARLES	89	73	95	71	81	0	3.7	2.8	2.8	11.1	339	31.1	131	95	60	3	0	4	2
NEW ORLEANS	87	72	91	69	80	-1	.6	-.5	.5	4.5	126	21.0	75	100	66	2	0	2	0

Based on 1951-80 normals

Weather Data for the Week Ending June 24, 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
SHREVEPORT	91	69	92	65	80	-1	.1	-.7	.1	9.2	329	36.3	155	99	50	6	0	1	0
ME CARIBOU	79	53	87	46	66	4	.1	-.7	.1	2.3	95	13.5	91	94	52	0	0	2	0
PORTLAND	79	57	86	53	68	4	.1	-.6	.1	4.5	182	21.8	104	96	50	0	0	1	0
MD BALTIMORE	83	67	84	63	75	1	1.9	1.1	1.3	6.0	200	28.4	147	98	67	0	0	4	1
SALISBURY	83	68	85	63	76	3	.7	-.1	.4	4.9	174	22.1	110	99	61	0	0	3	0
MA BOSTON	79	63	86	60	71	1	.1	-.6	.1	2.7	115	16.0	75	92	52	0	0	2	0
CHATHAM	71	58	76	55	64	1	.9	-.3	.9	3.8	172	23.7	106	97	70	0	0	0	1
MI ALPENA	77	54	80	46	65	2	.6	-.2	.6	2.6	104	11.4	90	100	59	0	0	1	1
DETROIT	80	63	89	58	72	2	.5	-.3	.5	3.6	133	14.2	97	98	66	0	0	1	1
FLINT	78	60	88	53	69	2	1.6	.8	1.1	2.6	100	12.0	89	97	65	0	0	3	1
GRAND RAPIDS	81	60	89	57	70	1	3.3	2.4	3.2	4.4	151	15.0	97	98	58	0	0	3	1
HOUGHTON LAKE	79	57	84	45	68	4	.4	-.3	.4	2.7	110	11.6	94	94	54	0	0	1	0
LANSING	79	59	91	52	69	1	1.1	.1	.7	2.3	72	14.2	103	97	61	1	0	3	1
MARQUETTE	79	53	84	43	66	5	.6	-.3	.5	5.2	166	15.2	87	93	47	0	0	2	1
MUSKEGON	82	60	87	55	71	4	.1	-.5	.1	.8	41	10.8	76	90	53	0	0	2	0
SAULT ST. MARIE	75	51	82	45	63	4	.5	-.2	.5	2.6	100	13.1	96	98	61	0	0	2	0
MN ALEXANDRIA	84	60	96	55	72	6	.1	-.9	.1	1.1	33	6.9	62	88	39	2	0	2	0
DULUTH	78	56	83	51	67	6	.7	-.2	.5	2.9	92	12.1	100	94	47	0	0	4	1
INT'L FALLS	80	57	89	48	69	6	2.9	2.0	2.8	4.8	167	9.8	103	92	39	0	0	4	1
MINNEAPOLIS	84	64	92	58	74	5	T	-1.0	T	1.8	56	11.6	99	88	39	1	0	1	0
ROCHESTER	82	59	87	54	71	2	.3	-.6	.3	1.2	40	8.9	73	88	44	0	0	1	0
MS GREENWOOD	90	70	93	66	80	0	T	-8	T	12.2	460	39.0	135	93	50	4	0	0	0
JACKSON	91	69	93	66	80	0	.3	-.4	.2	7.5	304	28.9	104	100	53	4	0	2	0
MERIDIAN	90	69	93	67	80	0	.5	-.4	.4	6.5	243	33.7	118	97	53	4	0	4	0
MO CAPE GIRARDEAU	88	69	94	65	78	1	.9	.1	.6	7.3	258	31.2	136	97	54	4	0	3	1
COLUMBIA	85	63	89	56	74	-1	1.0	.1	.9	3.2	107	15.9	86	97	53	0	0	2	1
KANSAS CITY	84	64	91	57	74	-3	.6	-.5	.4	3.2	96	13.0	78	93	56	1	0	4	0
SAINT LOUIS	89	70	93	65	80	3	1.0	.1	1.0	1.6	53	16.3	95	85	45	4	0	1	1
SPRINGFIELD	85	62	89	58	73	-1	.2	-.9	.2	2.7	70	18.2	95	95	50	0	0	1	0
MT BILLINGS	74	48	100	45	61	-5	.3	-.1	.2	1.1	62	9.3	107	87	32	1	0	3	0
GLASGOW	76	48	97	44	62	-4	.3	-.3	.1	.9	45	6.2	118	85	33	1	0	4	0
GREAT FALLS	72	45	85	41	58	-5	.2	-.4	.2	1.6	69	9.9	112	82	33	0	0	2	0
HAVRE	75	46	91	39	60	-4	.1	-.4	.1	.7	38	5.4	87	66	27	1	0	1	0
HELENA	72	46	84	40	59	-3	T	-.5	T	1.4	86	6.7	108	76	28	0	0	1	0
KALISPELL	70	43	77	38	56	-3	.2	-.3	.1	1.4	78	9.5	117	89	34	0	0	2	0
MILES CITY	73	51	97	45	62	-6	T	-.6	T	.7	31	8.4	109	67	29	1	0	1	0
MISSOULA	71	42	80	40	56	-5	.3	-.2	.2	1.4	95	7.1	100	92	33	0	0	2	0
NE GRAND ISLAND	86	60	101	50	73	0	2.2	1.4	2.2	3.3	108	7.0	58	78	37	2	0	1	1
LINCOLN	87	61	100	53	74	0	3.0	2.1	2.7	4.2	134	7.5	56	91	39	3	0	3	1
NORFOLK	85	61	99	47	73	1	1.2	.2	1.2	1.5	42	6.8	55	81	38	2	0	2	1
NORTH PLATTE	87	54	101	40	70	0	.7	-.1	.7	1.9	65	6.7	66	84	31	3	0	1	1
OMAHA	84	62	97	56	73	-1	2.5	1.5	1.4	4.0	119	8.6	61	90	45	3	0	3	2
SCOTTSBLUFF	85	53	105	38	69	0	T	-.7	T	.2	7	4.5	54	64	21	3	0	0	0
VALENTINE	84	52	107	43	68	-2	.1	-.6	.1	.2	9	3.4	40	74	26	3	0	2	0
NV ELY	78	43	92	30	60	0	T	-.2	T	1.0	158	3.9	80	50	17	2	1	0	0
LAS VEGAS	102	75	112	63	88	3	0	0	0	T	0	1.3	72	17	11	7	0	0	0
RENO	82	48	91	43	65	1	0	-.1	0	1.0	371	3.9	90	49	11	1	0	0	0
WINNEMUCCA	82	44	93	39	63	-2	0	-.2	0	.4	46	2.8	61	43	10	1	0	0	0
NH CONCORD	82	56	91	52	69	3	.1	-.6	0	3.9	167	17.4	105	100	44	1	0	2	0
NJ ATLANTIC CITY	82	65	84	57	73	3	.7	0	.4	4.2	197	24.0	125	100	64	0	0	3	0
NM ALBUQUERQUE	94	64	103	54	79	2	T	-.1	T	T	6	1.4	58	48	12	6	0	0	0
CLOVIS	87	61	97	52	74	-2	.2	-.4	.1	2.5	123	3.8	59	85	35	3	0	3	0
ROSWELL	93	65	102	55	79	0	T	-.3	T	T	3	1.6	51	63	23	5	0	0	0
NY ALBANY	84	62	91	52	73	5	.7	0	.7	6.3	242	19.7	120	96	49	1	0	2	1
BINGHAMTON	79	62	83	55	70	5	1.8	1.0	.9	5.9	208	20.5	122	97	59	0	0	6	1
BUFFALO	79	61	87	54	70	2	1.2	.5	1.0	6.9	319	23.5	143	97	58	0	0	5	1
NEW YORK	82	68	87	66	75	2	1.0	.3	.9	6.2	248	27.1	136	93	55	0	0	2	1
ROCHESTER	81	61	87	54	71	3	1.9	1.2	1.2	5.6	246	19.7	135	96	62	0	0	4	1
SYRACUSE	82	63	86	54	72	4	.6	-.3	.3	4.2	148	15.9	90	97	58	0	0	5	0
NC ASHEVILLE	78	61	85	52	69	-2	3.4	2.6	2.1	10.0	336	27.9	129	100	64	0	0	4	2
CHARLOTTE	87	67	90	62	77	1	1.5	.7	1.1	3.2	113	22.4	102	89	46	2	0	3	1
GREENSBORO	84	65	88	60	75	0	2.3	1.3	1.0	7.1	230	27.8	137	97	55	0	0	3	2
HATTERAS	86	72	87	70	79	3	1.3	.3	.8	3.6	107	35.9	153	98	59	0	0	5	1
NEW BERN	86	70	89	68	78	2	4.6	3.3	1.3	8.1	202	29.5	128	100	65	0	0	6	4
RALEIGH	85	68	88	67	76	1	1.8	.9	.8	6.5	225	28.4	142	99	62	0	0	4	2
WILMINGTON	87	71	90	68	79	1	1.6	.2	1.0	6.9	158	29.0	128	98	62	1	0	4	1
ND BISMARCK	80	50	97	44	65	-1	.2	-.5	.2	.6	25	5.5	71	90	31	1	0	2	0
FAHO	83	57	93	51	70	3	.6	-.2	.4	.7	29	7.8	96	91	37	2	0	3	0
GRAND FORKS	80	57	89	51	68	3	.6	-.1	.5	1.4	61	6.5	85	87	41	0	0	2	0
WILLISTON	78	47	95	43	63	-3	.2	-.4	.2	1.4	64	6.4	96	90	32	1	0	2	0
OH AKRON-CANTON	80	61	89	55	71	2	1.8	1.1	1.1	7.3	284	23.9	138	97	59	0	0	3	1
CINCINNATI	84	66	90	59	75	2	.4	-.6	.4	2.9	90	27.0	133	97	59	1	0	2	0
CLEVELAND	82	62	89	57	72	2	T	-.8	T	3.8	135	23.9	141	98	60	0	0	2	0
COLUMBUS	80	62	89	51	71	-1	2.1	1.1	1.4	4.7	147	21.9	119	97	60	1	0	3	2

Weather Data for the Week Ending June 24, 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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	83	65	91	59	74	2	.1	-.8	.1	4.3	140	30.7	172	93	57	1	0	3	0
TOLEDO	83	61	91	54	72	3	3.6	2.8	3.1	6.7	242	19.7	131	99	55	2	0	2	1
YOUNGSTOWN	80	58	88	55	69	1	2.2	1.4	1.1	8.1	292	23.4	133	100	61	0	0	5	2
OK OKLAHOMA CITY	90	66	93	63	78	0	1.1	.3	1.1	14.6	461	25.0	158	88	41	4	0	2	1
TULSA	90	68	93	64	79	0	.9	-.1	.7	4.7	127	17.4	90	90	46	4	0	2	1
OR ASTORIA	70	49	87	43	60	2	.6	.1	.6	.9	44	31.1	88	95	55	0	0	2	1
BURNS	72	42	81	32	57	-5	0	-.1	0	1.0	194	5.9	110	74	23	0	1	0	0
MEDFORD	86	47	95	44	67	0	0	-.1	0	.2	26	10.4	103	79	20	2	0	0	0
PENDELTON	78	50	87	44	64	-4	0	-.1	T	.3	42	8.3	128	67	24	0	0	0	0
PORTLAND	77	53	93	47	65	2	.2	-.1	.2	.6	48	18.4	96	91	38	1	0	3	0
SALM	80	51	96	47	66	4	.1	-.1	.1	.4	41	15.4	73	90	31	2	0	2	0
PA ALLENTOWN	83	64	86	56	74	3	2.0	1.2	1.7	5.5	205	24.1	119	96	57	0	0	4	1
ERIE	78	62	84	57	70	3	2.4	1.4	1.7	5.0	158	22.8	133	94	61	0	0	4	2
HARRISBURG	84	65	86	57	75	2	1.1	.3	.3	5.4	184	23.1	121	97	56	0	0	5	0
PHILADELPHIA	86	68	88	62	77	4	.7	-.3	.2	4.6	148	23.7	122	98	56	0	0	5	0
PITTSBURGH	82	62	89	54	72	2	2.5	1.6	1.6	8.5	304	27.4	149	94	57	0	0	4	2
SCRANTON	81	61	83	50	71	2	2.3	1.5	.9	5.6	203	19.6	124	97	54	0	0	5	2
RI PROVIDENCE	80	62	85	59	71	3	1.3	.6	.9	5.8	260	25.1	116	100	55	0	0	3	1
SC CHARLESTON	88	71	91	70	80	1	1.5	-.1	1.1	6.5	128	19.5	85	98	57	1	0	4	1
COLUMBIA	90	68	92	67	79	0	2.8	1.7	.9	5.9	168	24.6	100	100	53	5	0	5	3
FLORENCE	90	69	91	67	79	1	1.0	-.1	.5	4.6	128	21.2	101	98	54	5	0	3	1
GREENVILLE	84	64	89	57	74	-2	2.8	1.7	1.8	6.0	173	23.7	90	98	56	0	0	4	2
SD ABERDEEN	81	55	92	48	68	0	.5	-.3	.3	2.4	91	9.3	101	91	48	2	0	2	0
HURON	83	55	98	48	69	0	.3	-.5	.2	1.6	58	7.3	75	91	40	2	0	3	0
RAPID CITY	78	49	102	39	63	-4	.6	-.1	.5	1.0	37	5.2	56	82	31	1	0	5	1
SIOUX FALLS	84	58	97	48	71	1	.4	-.5	.4	1.3	44	6.1	53	86	39	2	0	1	0
TN CHATTANOOGA	82	66	88	61	74	-2	3.9	3.2	2.6	9.2	354	36.1	132	100	62	0	0	4	2
KNOXVILLE	83	64	88	57	74	-2	.9	-.1	.4	7.2	233	31.0	124	100	61	0	0	4	0
MEMPHIS	90	71	94	68	81	1	.5	-.3	.5	4.5	158	33.2	119	93	52	5	0	2	1
NASHVILLE	86	67	91	66	77	0	.8	0	.4	6.6	222	33.0	127	93	56	2	0	4	0
TX ABILENE	91	68	95	65	79	-2	0	-.6	0	9.5	461	18.7	174	84	37	4	0	0	0
AMARILLO	83	61	95	51	72	-4	.8	0	.7	5.9	209	10.4	122	89	46	3	0	2	1
AUSTIN	91	73	96	72	82	0	.1	-.6	.1	3.0	118	19.1	123	99	52	5	0	1	0
BEAUMONT	90	73	95	71	81	0	.7	-.4	.4	4.2	110	30.0	123	94	57	5	0	4	0
BROWNSVILLE	93	74	95	72	84	0	1.3	-.7	1.2	1.9	85	9.1	100	96	51	6	0	3	1
CORPUS CHRISTI	92	74	96	72	83	0	.7	-.2	.3	2.0	63	8.8	72	100	55	5	0	3	0
DEL RIO	95	74	98	71	85	0	T	-.4	T	.3	22	5.3	74	67	29	6	0	0	0
EL PASO	103	69	106	61	86	3	0	-.2	0	0	0	2.1	112	45	11	7	0	0	0
FORT WORTH	83	71	98	68	82	0	T	-.5	T	8.6	441	30.0	184	88	43	7	0	0	0
GALVESTON	86	78	90	74	82	0	3.0	2.1	2.8	5.8	204	18.0	111	93	65	1	0	2	1
HOUSTON	91	73	95	71	82	0	.7	-.3	.5	4.8	132	29.5	137	100	64	5	0	3	0
LUBBOCK	90	64	98	58	77	-2	T	-.6	T	5.0	221	7.6	99	84	35	4	0	1	0
MIDLAND	97	66	102	60	82	1	.1	-.3	.1	.6	53	3.5	64	70	23	7	0	1	0
SAN ANGELO	95	68	98	64	81	-1	0	-.4	0	2.8	181	10.6	132	81	30	5	0	0	0
SAN ANTONIO	94	75	98	73	85	2	T	-.6	T	3.3	131	10.6	78	89	40	5	0	1	0
VICTORIA	91	75	99	74	83	1	2.1	1.1	1.3	4.0	106	11.9	73	95	52	5	0	3	2
WACO	93	73	97	70	83	0	0	-.5	0	3.9	179	22.0	134	94	49	6	0	0	0
WICHITA FALLS	92	68	95	65	80	-2	0	-.6	0	8.5	356	19.4	145	93	44	5	0	0	0
UT CEDAR CITY	84	51	96	36	67	-1	0	-.1	0	.7	206	3.4	73	35	11	3	0	0	0
SALT LAKE CITY	80	53	99	43	66	-4	T	-.2	T	.2	28	6.3	72	55	23	2	0	0	0
VT BURLINGTON	83	62	92	54	73	6	.1	-.7	.1	3.4	119	12.2	85	92	48	1	0	1	0
VA NORFOLK	85	70	89	66	77	2	1.2	.3	.4	4.4	164	28.6	143	97	59	0	0	5	0
RICHMOND	86	67	87	65	77	2	1.0	.2	.6	5.8	211	26.4	138	100	61	0	0	3	1
ROANOKE	84	64	88	55	74	1	1.6	.8	1.0	7.7	290	23.0	122	99	58	0	0	4	1
WA QUILLAYUTE	71	47	89	39	59	3	.7	.2	.7	2.6	111	43.6	82	95	49	0	0	2	1
SEATTLE-TACOMA	74	53	90	49	64	3	.3	0	.3	.6	53	18.2	96	83	38	1	0	2	0
SPOKANE	74	48	83	41	61	-2	T	-.3	T	.4	42	8.0	90	78	26	0	0	1	0
YAKIMA	79	47	89	37	63	-3	0	-.1	0	T	0	3.4	81	70	25	0	0	0	0
WV BECKLEY	78	61	82	50	70	3	.4	-.6	.3	3.5	111	21.9	106	95	58	0	0	3	0
CHARLESTON	84	63	88	51	73	1	.5	-.3	.4	7.5	296	33.2	164	100	56	0	0	4	0
HUNTINGTON	84	63	90	51	73	1	.7	-.1	.5	4.8	180	30.6	152	100	57	1	0	3	1
PARKERSBURG	83	63	90	51	73	1	1.3	.4	1.1	3.8	126	27.2	144	100	61	1	0	4	1
WI GREEN BAY	81	58	86	52	70	3	0	-.7	0	1.5	59	9.9	79	93	52	0	0	0	0
LACROSSE	87	62	90	56	74	4	.3	-.7	.3	.9	26	8.8	65	94	38	2	0	1	0
MADISON	86	56	91	49	71	2	T	-.9	T	1.2	38	8.4	62	94	41	1	0	0	0
MILWAUKEE	79	59	89	53	69	2	0	-.9	0	1.2	42	10.0	70	92	61	0	0	0	0
WAUSAU	83	59	86	55	71	5	.3	-.7	.3	2.7	87	11.0	81	93	42	0	0	1	0
WY CASPER	75	44	99	34	60	-5	1.2	1.0	.9	2.0	191	7.4	113	81	25	3	0	3	1
CHEYENNE	74	50	94	35	62	-2	.3	-.2	.2	2.3	144	6.2	89	74	29	1	0	4	0
LANDER	71	45	94	36	58	-6	.7	.4	.5	2.7	220	10.3	124	99	29	1	0	2	0
SHERIDAN	74	44	101	38	59	-5	1.2	.7	.5	1.4	74	7.8	87	91	34	1	0	4	0
PR SAN JUAN	-999	76	-999	74	-999	-	0	-1.1	0	0	0	8.9	43	87	4	0	0	0	0

National Agricultural Summary

JUNE 19-25, 1989

HIGHLIGHTS: Rain and wet field conditions continued to slow fieldwork in the Delta and the East. Soil moisture was mostly surplus to adequate in those areas. Soil moisture was adequate to short in the western Corn Belt and Great Plains. The number of days suitable for fieldwork averaged 2-3 in the Delta and the East and 5-7 in the Great Plains and the West.

Winter wheat was mostly fair to poor. Harvest was 25 percent (%) complete, 10 percentage points behind the 5-year average. Spring wheat was mostly good to fair with 21% of the acreage heading, 15 points behind normal. Corn was mostly good to fair with 3% of the acreage in the silking stage, 1 point behind normal. Soybeans were mostly good to fair. Planting was 88% complete, 6 points behind normal. Cotton was mostly fair with 33% of the acreage in the squaring stage, 7 points behind normal. Nine percent of the acreage was setting bolls, equal to the average. Sorghum was mostly good to fair and planting was 91% complete, equal to the average. Rain benefited citrus groves in Florida.

SMALL GRAINS: Winter wheat was mostly fair to poor. Harvest was 25% complete, 10 points behind normal. Harvest was underway in 12 of the 20 major producing States. With the exception of California, harvest lagged behind normal in those 12 States. Harvest was more than 20 points behind normal in Arkansas, Illinois, Missouri, and North Carolina.

In Kansas, winter wheat was very poor to poor. Harvest began and was 20% complete, 15 points behind normal. Wet field conditions slowed harvest. In Oklahoma, harvest was 65% complete, 5 points behind normal. In Texas, winter wheat harvest was 54% complete, 15 points behind normal. Harvest was nearly complete in the Blacklands area and just beginning in the High Plains area as fields dried. Harvest was just beginning in Illinois, Indiana, and Nebraska.

Spring wheat was mostly good to fair with 21% of the acreage heading, 15 points behind normal. Heading was behind normal in the five major producing States with exception of South Dakota. Spring wheat condition improved in Idaho and Montana but declined in Minnesota, North Dakota, and South Dakota. In Montana, spring wheat was good to excellent.

CORN: Corn was mostly good to fair. Three percent of the acreage was in the silking stage, 1 point behind normal. Silking had begun in Georgia, North Carolina, and Texas. Corn was mostly good in Illinois and Iowa and fair to good in Nebraska and Ohio. In Nebraska, most fields recovered from last week's light frost. In Ohio, worm infestations were a problem in the central and eastern areas.

SOYBEANS: Soybeans were mostly good to fair. Planting was 88% complete, 6 points behind normal. Planting lagged behind normal in the eastern Corn Belt, Delta and Southeast. In Ohio, planting was 60% complete, 39 points behind normal. Planting lagged 24 points behind normal in Mississippi. Planting was more than 10 points behind normal in Alabama, Arkansas, Louisiana, and North Carolina. Planting was complete or nearly complete in the western Corn Belt and northern Great Plains. Soybeans were mostly good to fair in Illinois, Indiana, and Iowa and fair to good in Arkansas, Minnesota, Missouri, and Ohio.

COTTON: Cotton was mostly fair. Thirty-three percent of the acreage had reached the squaring stage, 7 points behind normal. Nine percent of the acreage was setting bolls, equal to the average. Cotton squaring lagged behind normal in the Delta and Southeast. Squaring was more than 30 points behind normal in Arkansas, Mississippi, North Carolina, and South Carolina. Crop condition improved from last week in most of the Delta. Cotton was mostly fair to poor in Mississippi, fair to good in Texas, and good in California.

SORGHUM: Sorghum was mostly good to fair. Planting was 91% complete, equal to the average. Planting was complete in Nebraska and Tennessee. Crop condition improved in Kansas and Nebraska. Harvest continued in the Coastal Bend area of Texas. Planting resumed in the High Plains as fields dried.

OTHER FIELD CROPS: Rice was mostly good to fair with 4% of the acreage headed, 2 points behind normal. Heading had begun in Louisiana and Texas. Peanuts were good to excellent in Alabama and Georgia and fair to good in North Carolina. Peanut planting continued in Texas. Tobacco condition was fair to good in Kentucky. Flooding forced additional resetting in some low-lying areas. In North Carolina, tobacco was mostly good to fair. High winds damaged some tobacco fields in Georgia, but crop condition was still mostly good. Tobacco harvest was underway in Florida.

FRUIT AND NUTS: Rains improved citrus grove conditions in Florida. Producers were able to discontinue irrigation in some areas. New crop fruit sizes were varied. Peach harvest was 65% complete, slightly ahead of normal in Georgia. In North Carolina, peaches were mostly good to fair and harvest was 36% complete, 8 points ahead of normal. In South Carolina, peaches were fair to good and harvest was 23% complete, 5 points behind normal. Peach harvest continued in the Hill Country of Texas. Grape harvest continued in Arizona. In the San Joaquin Valley of California, peach, plum, and nectarine harvests were a third complete. Date bagging began in Riverside County. Cherry harvest continued in Idaho and Oregon. In Oregon, cherry harvest was complete in the Milton-Freewater area and underway in Wasco County. In Michigan, disease and heavy fruit drop have lowered cherry crop prospects.

VEGETABLES: Rain delayed vegetable harvests in northern Florida. Potato harvest was finished in the Hastings area. In Georgia, watermelon harvest was 7% complete, 19 points behind normal. In North Carolina, Irish potato harvest was 24% complete, 12 points behind normal. Onion harvest was nearly complete in the San Antonio-Winter Garden area of Texas. Onion and potato harvests were expected to begin soon in the High Plains area. In Arizona, cantaloupe and honeydew harvests were complete in the Yuma area. In California, sweet corn and processing tomato harvests began in the Kingsburg area. Cantaloupe, honeydew, and watermelon harvests were active in the desert area. In New York, heavy rains have delayed vegetable plantings.

PASTURE AND LIVESTOCK: Livestock was mostly good. Pastures were mostly good, except in the western Corn Belt and northern Great Plains where they were fair to good. In Nebraska, poor pasture conditions continued to force supplemental feeding in some areas.

Crop Progress

FOR WEEK ENDING JUNE 25, 1989

	SOYBEANS % PLANTED		
	1989	1988	AVG.
ALA	75	79	86
ARK	72	79	85
GA	80	81	88
ILL	99	100	99
IND	95	100	98
IOWA	100	100	100
KANS	85	90	85
KY	75	82	78
LA	80	81	91
MICH	90	100	99
MINN	99	99	99
MISS	59	78	83
MO	87	93	87
NEBR	100	100	98
N C	63	80	82
OHIO	60	100	99
S C	74	85	83
S DAK	100	100	95
TENN	78	84	84

19 STATES 88 94 94

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

	COTTON % SQUARING		
	1989	1988	AVG.
ALA	63	72	68
ARIZ	98	92	95
ARK	29	61	60
CALIF	70	35	56
GA	52	68	70
LA	42	43	54
MISS	33	55	64
MO	36	38	51
N MEX	57	50	37
N C	11	21	43
OKLA	20	10	2
S C	21	23	55
TENN	26	49	45
TEX	16	23	20

14 STATES 33 37 40

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

	CORN % SILKING		
	1989	1988	AVG.
COLO	0	0	0
GA	82	77	87
ILL	0	0	3
IND	0	0	0
IOWA	0	0	0
KANS	0	2	3
KY	0	1	1
MICH	0	0	0
MINN	0	0	0
MO	0	1	3
NEBR	0	1	0
N C	10	15	28
OHIO	0	0	0
PA	0	0	0
S DAK	0	0	0
TEX	63	62	62
WIS	0	0	0

17 STATES 3 3 4

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

	COTTON % SETTING BOLLS		
	1989	1988	AVG.
ALA	14	8	10
ARIZ	75	25	50
ARK	0	0	4
CALIF	5	2	4
GA	4	6	18
LA	0	2	8
MISS	0	0	NA
MO	0	0	1
N MEX	0	0	1
N C	0	0	3
OKLA	0	0	0
S C	0	1	10
TENN	0	0	0
TEX	10	11	10

14 STATES 8 7 NA

EXCL. STATES
WITH NA 9 7 9THESE 14 STATES PRODUCED 99%
OF THE 1988 COTTON CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM
% PLANTED

	1989	1988	AVG.
ARK	98	99	98
ILL	92	100	94
KANS	85	90	85
LA	97	100	100
MISS	94	99	98
MO	96	100	96
NEBR	100	100	97
OKLA	70	80	80
S DAK	94	96	90
TENN	100	100	100
TEX	93	95	94

11 STATES 91 94 91

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

WINTER WHEAT
% HARVESTED

	1989	1988	AVG.
ARK	66	95	89
CALIF	60	50	60
COLO	0	0	0
GA	88	97	97
IDAHO	0	0	0
ILL	8	63	45
IND	3	30	19
KANS	20	70	35
MICH	0	0	0
MO	19	61	50
MONT	0	0	0
NEBR	2	17	10
N MEX	69	60	NA
N C	45	69	74
OHIO	0	5	0
OKLA	65	95	70
OREG	0	0	0
S DAK	0	0	0
TEX	54	61	69
WASH	0	0	0

20 STATES 25 49 NA

EXCL. STATES
WITH NA 25 49 35

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

NA - NOT AVAILABLE.

SPRING WHEAT
% HEADED

	1989	1988	AVG.
IDAHO	20	33	28
MINN	24	89	49
MONT	9	46	19
N DAK	13	64	31
S DAK	59	98	59

5 STATES 21 70 36

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

RICE
% HEADED

	1989	1988	AVG.
ARK	0	0	0
CALIF	0	0	0
LA	10	14	15
MISS	0	0	NA
TEX	14	16	19

5 STATES 4 5 NA

EXCL. STATES
WITH NA 4 5 6

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

NA - NOT AVAILABLE.

Crop Condition

PERCENT
FOR WEEK ENDING JUNE 25, 1989

CORN

STATE	VP	P	F	G	EX
COLO	0	3	27	60	10
GA	0	0	9	59	32
ILL	0	1	11	78	10
IND	0	3	38	55	4
IOWA	0	1	22	73	4
KANS	1	1	16	46	36
KY	0	1	11	67	21
MICH	2	8	25	45	20
MINN	0	4	44	49	3
MO	0	5	26	66	3
NEBR	1	7	62	30	0
N C	0	0	29	65	6
OHIO	3	15	41	37	4
PA	2	10	33	39	16
S DAK	0	4	39	53	4
TEX	7	13	10	46	24
WIS	0	2	17	70	11
17 STATE	1	4	30	57	8
PREV YEAR	5	23	51	20	1

SPRING WHEAT

STATE	VP	P	F	G	EX
IDAHO	0	3	17	62	18
MINN	0	5	19	58	18
MONT	0	2	14	58	26
N DAK	0	0	16	80	4
S DAK	3	14	42	36	5
5 STATE	0	3	20	66	11
PREV YEAR	33	43	18	5	1

SOYBEANS

STATE	VP	P	F	G	EX
ALA	0	6	19	65	10
ARK	0	2	62	36	0
GA	0	0	14	71	15
ILL	0	0	25	69	6
IND	0	3	38	56	3
IOWA	0	3	33	61	3
KANS	0	2	21	44	33
KY	0	1	27	65	7
LA	0	14	55	29	2
MICH	5	10	25	40	20
MINN	1	7	53	38	1
MISS	0	10	75	15	0
MO	0	3	48	49	0
NEBR	0	3	47	48	2
N C	0	0	29	68	3
OHIO	2	12	43	39	4
S C	0	0	27	73	0
S DAK	0	4	44	49	3
TENN	0	7	34	58	1
19 STATE	0	4	40	52	4
PREV YEAR	6	27	50	16	1

RICE

STATE	VP	P	F	G	EX
ARK	0	2	38	60	0
CALIF	0	0	10	75	15
LA	0	0	28	64	8
MISS	0	10	40	50	0
TEX	0	0	11	66	23
5 STATE	0	2	28	63	7
PREV YEAR	0	6	44	47	3

WINTER WHEAT

STATE	VP	P	F	G	EX
ARK	0	15	56	29	0
CALIF	0	0	5	75	20
COLO	10	23	42	23	2
GA	10	38	30	22	0
IDAHO	0	6	30	50	14
ILL	0	0	6	75	19
IND	0	2	27	62	9
KANS	40	33	21	5	1
MICH	0	5	20	50	25
MO	0	5	45	49	1
MONT	1	10	22	51	16
NEB	23	34	35	8	0
N MEX	60	30	5	5	0
N C	4	17	45	33	1
OHIO	3	10	33	47	7
OKLA	10	25	40	25	0
OREG	0	0	57	29	14
S DAK	7	25	51	17	0
TEX	25	41	32	2	0
WASH	0	0	70	30	0
20 STATE	17	24	34	22	3
PREV YEAR	4	16	36	37	7

SORGHUM

STATE	VP	P	F	G	EX
ARK	0	2	69	29	0
ILL	0	0	21	76	3
KANS	0	8	20	47	25
LA	0	3	50	43	4
MISS	0	15	35	45	5
MO	0	5	54	40	1
NEBR	0	1	49	50	0
OKLA	0	0	9	90	1
S DAK	15	10	51	24	0
TENN	1	3	27	63	6
TEX	2	22	33	32	11
11 STATE	1	10	33	44	12
PREV YEAR	5	22	38	31	4

COTTON

STATE	VP	P	F	G	EX
ALA	0	31	42	27	0
ARIZ	0	0	0	50	50
ARK	0	17	70	13	0
CALIF	0	0	5	90	5
GA	0	0	21	75	4
LA	0	8	67	25	0
MISS	0	40	55	5	0
MO	9	18	55	18	0
N MEX	0	20	30	50	0
N C	0	3	53	44	0
OKLA	0	10	90	0	0
S C	0	0	26	74	0
TENN	0	6	68	26	0
TEX	0	24	46	29	1
14 STATE	0	18	45	34	3
PREV YEAR	2	18	34	39	7

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 over 2.00 in. except extreme south, coast; 3.00 to 5.00 in. local areas. Temperatures 2° below normal.

Days suitable for fieldwork 1.1. Soil moisture 3% adequate, 97% surplus. Heavy rains caused flooding in low lying fields, especially Autauga, Elmore, Montgomery, Tallapoosa counties; caused delays in weed, insect control. Corn 77% silked, 65% 1988, 68% avg.; 7% fair, 45% good, 48% excellent. Sorghum 80% planted, 84% 1988, 86% avg.; 3% fair, 88% good, 9% excellent. Cotton 63% squaring, 72% 1988, 68% avg.; 14% setting bolls, 8% 1988, 10% avg.; 31% poor, 42% fair, 27% good. Soybeans 75% planted, 79% 1988, 86% avg.; 6% poor, 19% fair, 65% good, 10% excellent. Peanuts 32% pegging, 34% 1988, 29% avg.; 7% fair, 65% good, 28% excellent. Winter wheat 68% harvested, 93% 1988, 88% avg. First hay 84% harvested, 100% 1988, 90% avg. Livestock, pastures good to excellent. Primary activities: Maintaining equipment, machinery; harvesting, marketing fruit, vegetable crops; general care of livestock, poultry, catfish.

ALASKA: Sunshine, warmer temperatures, generous rainfall. Promoted moderate to rapid growth. Highs 2° below normal to 4° above normal. Lows normal to 4° above normal. Seasonal precipitation 0.18 in. Drier than normal at Kenai to 2.27 in. Wetter than normal at Kenny lake; all areas 0.50 in. or greater, wetter than normal.

Days suitable for fieldwork 5.0. Topsoil 6% short, 62% adequate, 32% surplus. Subsoil 1% short, 96% adequate, 3% surplus. First crop hay nearing 25% complete. Small grains in pre-boot stage; nearly 25% barley reaching boot stage. Small grains 8 in. height; potatoes 3 in. behind 1988. Pasture, range good.

ARIZONA: Heat wave began 13th, peaked 18th; temperatures equaled or broke records. Sunny, except some clouds southeast, White Mountains. Cloudy north, west 19th, lowered temperatures 2 to 8°. Low pressure, dry cold front 21st with gusty winds 35-45 mph north, 25-35 mph south. Sunny, windy, cooler, drier 22nd to 24th. Temperatures 1 to 7° above normal.

Cotton 98% squaring, 92% 1988, 95% avg.; 75% setting bolls, 25% 1988, 51% avg.; operators monitored fields, sprayed for pink boll worms. Major activities cultivation, irrigation; 50% good, 50% excellent. Alfalfa good; activities included cutting, baling, irrigating. Insect, weed infestations light except moderate in Pima County. Hay, roughage adequate. Small grain harvest 99%, 91% 1988, 93% avg. Grape, watermelon harvest tapering off Yuma; cantaloupe, honeydew harvest completed Yuma, continued Parker. Processing tomatoes harvested west; mixed melons harvested west, central. Chipper potatoes, carrots harvested central; grape, melon harvest active central. Sweet corn, dry onion harvest completed; citrus harvest continued central. Dry onion, cabbage harvest continued eastern areas.

ARKANSAS: Sunshiny days. Temperatures near normal. Very little rainfall. Extremes 56°; 97°. Rainfall none to 1.00 in.

Days suitable for fieldwork 6.0. Soil moisture 2% short, 86% adequate, 12% surplus. Cotton 100% emerged. Rice 100% planted; 99% emerged, 100% 1988, 99% avg. Soybeans 59% emerged, 62% 1988,

73% avg. Oats 72% harvested, 99% 1988, 82% avg. Corn 17% fair, 60% good, 23% excellent. Sorghum 97% emerged, 97% 1988. Main activities: Wheat harvest; soybean planting, replanting; rice weed control, fertilization, flooding; fruit, vegetable harvest; cutting, baling hay. Crops making moderate growth. Favorable planting, harvest conditions. Cotton fields sprayed for boll weevils. Rice water weevils increased, weeds, grass pressure heavy. Spot replanting soybeans. Sorghum growing rapidly, weed problems. Wheat harvest rapid pace, yields better than expected. Tomato volume low, good prices. Peach harvest normal some split seeds. Hay regrowth excellent. Pastures above average. Livestock good.

CALIFORNIA: Strong high pressure over State warmed temperatures to above normal for most of area. No rain. Few cloud buildups.

Field activities normal entire week. Small grain harvest full swing. Stubble burning active as weather permitted. Preparation for seeding second crop Sudan, corn, grain sorghum, dry beans active. Rice, cotton good progress. Harvest overwintered sugarbeets; new crop weeded. Alfalfa, Sudan harvests active. Insect, weed controls applied as needed. San Joaquin Valley apricot harvest continued. Avocado picking slowed. Date bagging began, Riverside County. Coachella Valley table grape harvest continued. San Joaquin Valley grape growers treated vineyards, pests, mildew. Freestone peach, plum, nectarine harvests one-third complete. Lemon harvest progressed, San Joaquin Valley, southern coastal region. Valencia oranges harvested for export, San Joaquin Valley. Almond, walnut orchards treated for mite control. Cauliflower supplies light, Salinas-Watsonville, Santa Maria areas. Quality good, demand strong. Broccoli remained fairly heavy supply, varying quality. Potato harvest continued Kern-Tulare, Perris-Hemet areas. Processing tomato harvest underway, Kingsburg area. Tomato harvest continued Cutler-Orosi area, Coachella Valley. Lettuce, celery supplies Santa Maria, Salinas areas moderate, generally good quality. Cantaloupe harvest desert area continued full swing. Honeydews, watermelons also being harvested. Sweet corn harvest continued San Joaquin Valley, began Kingsburg area. Strawberries remained light volume Salinas, Santa Maria areas; quality variable, result of heat. Bell pepper, onion, squash, green bean, cucumber harvests continued. Livestock good, Statewide. Showers in mountain areas of northeastern interior improved rangeland feed. Water fair to good supply, supplemental feeding light. Sacramento, San Joaquin Valley range, pasture s poor, drying quickly due to high temperatures. Livestock being moved to other grazing areas, market to slow depletion of rangeland feed.

COLORADO: Spotty rain across State produced some severe storms on eastern plains on 24th, 25th. Rainfall none to 5.0 in. Temperatures 1 to 2° above normal in northeast, 1 to 2° below normal elsewhere.

Days suitable for fieldwork, 6.2. Soil moisture 30% very short, 43% short, 27% adequate. Alfalfa 60% first cutting complete. Spring barley 61% headed, 16% turning color. Oats 56% headed, 7% turning color. Spring wheat 38% headed, 4%

turning color. Winter wheat 10% very poor, 23% poor, 42% fair, 23% good, 2% excellent. Sorghum 89% planted, 67% emerged. Livestock good. Range, pasture fair to good.

FLORIDA: Rain during week, typical of summertime. Some locally heavy rains, other only small amounts. Heaviest rain 6.31 in., Inverness. Tallahassee, Gainesville, Clermont, Bradenton, Avon Park, Fort Myers all 4.00 to 5.00 in. of rain. Temperatures 1 to 3° cooler than normal; highest 97°, Lakeland; coolest, 55° Perry.

Topsoil surplus Panhandle, short to adequate, Peninsula where showers inadequate to relieve dry conditions some areas. Soybean planting active. Tobacco harvest underway. Hay harvest active. Row crops, sugarcane good progress. Rains over much of State improved pastures considerably, particularly Peninsula areas. Grazing continued good to mostly excellent, Panhandle; fair to generally good Peninsula. Cattle continue to improve as pastures improve due to rain. Panhandle herds good to excellent; Peninsula shows more variability, fair to good. Citrus grove, trees improved with several rains, some irrigation discontinued. Abundant new foliage on young tree groves. New crop fruit progressing well; sizes variable many blocks. Valencia harvest slowed. Grapefruit movement very slow. Caretakers active all areas with summer care activities. Rainfall continued to delay some northern vegetable, watermelon harvests. Scattered showers southern vegetable localities replenished soil moisture while temperatures 90s during the day, to 60s, 70s at night. Volume leaders: Watermelons, sweet corn. Lesser volume peppers, cucumbers, tomatoes, cherry tomatoes, celery, eggplant, squash. Hastings potato harvest finished.

GEORGIA: Wet week, 3.00 to 5.00 in. north, 1.00 to 3.00 in. east, 1.00 to 2.00 in. central, south. Greatest weekly total 8.90 in. Tallulah Falls. Rain 3 to 7 days. Temperatures 1 to 3° below normal. Extremes 55° Blairsville; 95° Toccoa.

Days suitable for fieldwork 1.4. Soil moisture 1% short, 22% adequate, 77% surplus. Corn 39% dough, 35% 1988, 54% avg.; 11% dent, 9% 1988, 17% avg. Sorghum grain 4% fair, 81% good, 15% excellent; 89% planted, 85% 1988, 89% avg. Peanuts 9% fair, 67% good, 24% excellent; 79% blooming, 65% 1988, 73% avg.; 36% pegging, 27% 1988, 36% avg.; Rains delayed fungicide spraying. Soybean planting delayed by rain, earliest fields beginning to bloom. Tobacco 7% fair, 93% good; 7% harvested, 7% 1988, 8% avg.; Some fields damaged by high winds. Watermelons 1% poor, 25% fair, 72% good, 2% excellent; 7% harvested, 14% 1988, 26% avg. Heavy rains delayed wheat harvest. Remaining wheat deteriorating rapidly. Rye, other small grains declined. Apples fair to good. Peaches 4% poor, 2% fair, 94% good; 65% harvested, 51% 1988, 61% avg. Pasture 77% good, 23% excellent. Hay 1% very poor, 8% poor, 11% fair, 60% good, 20% excellent. Cattle, hogs good to excellent.

HAWAII: Hot days, beneficial showers combined with active spraying, irrigation provided, fair to good growing conditions. Temperatures high 60s to low 90s with variable winds 5-20 mph. Daily rainfall none to 1.50 in.

Days suitable for fieldwork 7.0. Papaya production steady. Sugar, pineapple harvesting full-swing.

IDAHO: Temperatures 2 to 6° below normal, some below freezing. Northern areas up to an inch of rain. Precipitation well below normal elsewhere.

Days suitable for fieldwork 6.0. Soil moisture 2% very short, 14% short, 81% adequate, 3%

surplus. Winter wheat fair, good; 81% headed, 80% 1988, 69% avg.; 3% turning. Spring wheat good; 20% headed, 33% 1988, 28% avg. Spring barley 22% headed, 37% 1988, 28% avg. Potatoes 90% emerged, 93% 1988, 95% avg.; 26% twelve inches high, beyond. First cut alfalfa 66% harvested, 69% 1988, 64% avg. Virtually all dry beans planted, 94% emerged. Sugarbeet thinning wrapping up. Cherries 17% harvested. Frost damage on potatoes, grains, alfalfa. Nearly all range cattle turned out on summer ranges. New calf branding, tagging wrapping up. Livestock good. Timely rains maintained pasture, rangeland growth.

ILLINOIS: Temperatures 2 to 5° above normal north, near normal south. Precipitation 0.10 to 0.20 in. most areas, few isolated heavy thunderstorms.

Days suitable for fieldwork 6.0. Soil moisture 61% short, 29% adequate, 10% surplus. Corn height avg. 31 in., 39 in. 1988, 39 in. avg.; most advanced 46 in., 52 in. 1988, 55 in. avg. Soybeans blooming 4%, 9% 1988, 11% avg. Winter wheat turning yellow 97%, 100% 1988, 96% avg.; ripe 55%, 95% 1988, 72% avg. Alfalfa 2nd crop cut 25%, 36% 1988, 25% avg.; 9% poor, 37% fair, 1% good, 3% excellent. Red clover 1st crop cut 75%, 90% 1988, 85% avg.; 2% poor, 20% fair, 71% good, 7% excellent. Oats headed 94%, 100% 1988, 97% avg.; filled 54%, 80% 1988, 78% avg.; turning yellow 8%, 39% 1988, 35% avg.; 15% fair, 75% good, 10% excellent. Pasture 10% poor, 24% fair, 60% good, 6% excellent.

INDIANA: Temperatures 3 to 5° above normal. Lows upper 50s to lower 60s, highs lower 90s. Precipitation highly variable, 0.25 to 2.00 in.

Days suitable for fieldwork 5.8. Topsoil 7% short, 73% adequate, 20% surplus. Subsoil 2% short, 79% adequate, 19% surplus. Corn, soybean improved; 20 in. high, 28 in. 1988, 32 in. avg. Soybeans 84% emerged, 97% 1988, 95% avg.; 6 in. high, 8 in. 1988, 8 in. avg. Alfalfa hay 90% cut once, 100% 1988, 97% avg. Pasture 11% fair, 64% good, 25% excellent. Wheat 25% ripe, 70% 1988, 46% avg. Wheat harvest underway. Ideal conditions for planting crops.

IOWA: Temperatures 1 to 4° below normal. Extremes 49°, 99°. Wet west half with excessive rains southwest, none to 6.90 in., 1.35 in.

Days suitable for fieldwork 5.9. Topsoil 70% short, 30% adequate; subsoil 95% short, 5% adequate. Oats 8% poor, 32% fair, 50% good, 10% excellent. Winter wheat fair to good. Hay 4% very poor, 17% poor, 56% fair, 22% good, 1% excellent. First crop alfalfa 98% harvested, 100% 1988, 91% avg. First crop clover hay 85% harvested, 90% 1988, 72% avg. Corn 95% cultivated first time, 100% 1988, 85% avg.; 24 in. height, tallest corn 35 in. Soybeans 79% cultivated first time, 89% 1988, 64% avg. Oats 97% headed, 96% 1988, 89% avg. Livestock good to excellent. Pasture 12% very poor, 32% poor, 45% fair, 10% good, 1% excellent.

KANSAS: Temperatures 6° below normal southwest, 3° below south central to 3° above normal northwest, normal elsewhere. Thunderstorms covered most of State; rainfall 0.05 northwest, 0.07 east central, 0.38 west central, 0.50 in. to 1.50 in. elsewhere.

Days suitable for fieldwork 5.5. Topsoil 26% short, 69% adequate, 5% surplus. Subsoil 48% short, 50% adequate, 2% surplus. Wheat ripening 60%. Harvest delayed by wet fields. Corn planting complete, most stands good growth with adequate moisture; 82% good to excellent, 17% fair to poor, 1% very poor. Sorghum planting good

progress, 85% complete; 72% good to excellent, 28% fair to poor. Soybean planting 85% complete; 77% good to excellent; 23% fair to poor. First cutting alfalfa 96% complete; second cutting 25% complete.

KENTUCKY: Hot, humid. High temperatures 80s, lows 60s. Temperatures near normal, lows 3 to 5° above normal. Widely varying rainfall, generally 0.33 to 0.66 in. Heat, humidity brought livestock safety index to danger category.

Days suitable for fieldwork 2.9. Soil moisture 43% adequate, 57% surplus. Earliest corn tasseling, weeds in many fields. Double crop soybean seeding active following small grain harvest. Wheat 20% harvested, well behind last year, avg. Small grain yields good. Lodging problem. Tobacco fair to good. Flea beetles, fireworm active. Low areas drowned, additional resetting required. Haying active on weekend. Second cutting alfalfa underway. Quality fair to good, supplies ample. Pasture good to excellent.

LOUISIANA: Temperatures near normal northeast to 1 to 3° below normal elsewhere. Extremes 56°; 96°. Rainfall 0.57 to 2.31 in. south, less than 0.36 in. rest of State.

Days suitable for fieldwork 4.3. Soil moisture 73% adequate, 27% surplus. Corn silked 83%, 71% 1988, 83% avg.; dough stage 34%, 22% 1988, 44% avg.; mature 2%, 3% 1988, 2% avg.; 22% fair, 62% good, 16% excellent. Cotton squaring 42%, 43% 1988, 54% avg.; setting bolls none, 2% 1988, 8% avg.; 8% poor, 67% fair, 25% good. Weed control, spraying for boll weevils. Hay first cutting 68%, 82% 1988, 88% avg. Peaches harvested 24%, 37% 1988, 40% avg.; 11% very poor, 6% poor, 50% fair, 33% good. Rice headed 10%, 14% 1988, 15% avg.; 28% fair, 64% good, 8% excellent. Sheath blight, blast remain a concern in a few parishes. Sorghum planted 97%, 100% 1988, 100% avg.; emerged 94%, 94% 1988, 99% avg.; headed 4%, 4% 1988, 23% avg.; 3% poor, 50% fair, 43% good, 4% excellent. Soybeans planted 80%, 81% 1988, 91% avg.; emerged 70%, 62% 1988, 82% avg.; blooming 0%, 1% 1988, 2% avg.; 14% poor, 55% fair, 29% good, 2% excellent. Sugarcane 19% fair, 69% good, 12% excellent. Sweet potatoes planted 82%, 79% 1988, 90% avg.; 5% poor, 17% fair, 78% good. Spraying for cucumber beetles. Wheat harvested 92%, 100% 1988, 97% avg. Vegetable 7% poor, 51% fair, 42% good. Pasture 10% fair, 81% good, 9% excellent. Rains are providing lush grazing for livestock. Livestock 7% fair, 88% good, 5% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 2.01 in. Temperature 74°, normal 72°. Extremes 43°; 88°.

Days suitable for fieldwork 2.0. Topsoil 12% adequate, 88% surplus. Subsoil 27% adequate, 73% surplus. Corn planted 97%, 99% 1988, 100% avg. Soybeans planted 57%, 74% 1988, 78% avg. Tobacco transplanted 80%, 94% 1988, 91% avg. Wheat, barley fair. Oats good. Rye fair to good. Wheat turned color 94%, 87% 1988, 94% avg. Wheat harvested 3%, 12% 1988, 30% avg. Barley harvested 39%, 66% 1988, 77% avg. Apples, peaches good, below average fruit set.

DELAWARE: Precipitation 2.41 in. Temperature 75°, normal 73°. Extremes 61°; 88°.

Days suitable for fieldwork 1.9. Topsoil 36% adequate, 64% surplus. Subsoil 56% adequate, 44% surplus. Soybeans planted 80%, 68% 1988, 80% avg. Wheat fair to good. Rye good. Barley fair. Barley harvested 39%, 74% 1988, 86% avg. Apples good, average fruit set. Peaches fair, below average fruit set.

MICHIGAN: Temperatures 1 to 6° above normal. Extremes 45°; 91°. Precipitation none to 3.59 in. across the State.

Days suitable for fieldwork 2.5. Soil moisture 30% adequate, 70% surplus. Corn 2% very poor, 8% poor, 25% fair, 45% good, 20% excellent. Soybeans 90% planted, 100% 1988, 99% avg.; 5% very poor, 10% poor, 25% fair, 40% good, 20% excellent. Wheat 5% poor, 20% fair, 50% good, 25% excellent; 3% turning, 55% 1988, 35% avg. Major activities: Limited hay, strawberry harvest; anhydrous applications, cultivation as soils permitted; routine farm chores. Heavy drop on cherry trees has led to industry expectations of a small crop. Disease has also been a problem. Vegetable crops being harvested include early peas, cabbage.

MINNESOTA: Temperatures 2 to 6° above normal. Extremes 40°; 100°. Precipitation 0.20 to 0.52 in. below normal southern one-third, near normal to 0.79 in. above elsewhere. Greatest weekly total 4.21 in.

Days suitable for fieldwork 5.5. Topsoil 29% very short, 42% short 26% adequate, 3% surplus. Spring wheat 85% jointing, 99% 1988, 86% avg.; 24% heading, 89% 1988, 49% avg. Oats 94% jointing, 99% 1988, 90% avg.; 51% heading, 92% 1988, 63% avg. Barley 81% jointing, 99% 1988, 87% avg.; 26% heading, 91% 1988, 54% avg. Corn 85% cultivated, 99% 1988, 77% avg.; 17 in. height, 33 in. 1988, 24 in. avg. Soybeans 59% cultivated, 90% 1988, 59% avg.; 6 in. height, 12 in. 1988, 8 in. avg. Alfalfa Hay 85% cut, 97% 1988, 83% avg. Soybean 1% very poor, 7% poor, 53% fair, 38% good, 1% excellent. Corn none very poor, 4% poor, 44% fair, 49% good, 3% excellent. Spring Wheat none, very poor, 5% poor, 19% fair, 58% good, 18% excellent.

MISSISSIPPI: Hot days warm nights. Temperatures 1° below normal. Extremes 55°; 96°. Rainfall .69 in.

Days suitable for fieldwork 4.1, 6.4 1988, 5.1 avg. Soil moisture 50% adequate, 45% surplus, 5% excessive. Corn good; 35% silking, 43% 1988, 50% avg. Cotton fair; 100% planted, 100% 1988, 100% avg. Rice good; 99% planted, 100% 1988, 100% avg. Sorghum good; 94% planted, 99% 1988, 98% avg. Soybeans fair, 59% planted, 78% 1988, 83% avg. Sweet potatoes 85% planted, 92% 1988, 90% avg. Wheat fair; 63% harvested, 97% 1988, 91% avg. Peaches fair; 41% harvested, 26% 1988, 32% avg. Pastures, livestock good. Activities: Wheat harvesting, soybean planting, weed, insect control.

MISSOURI: Temperatures 3° below normal southeast to 2° above normal northeast. Rainfall light, less than 0.50 in. most areas.

Days suitable for fieldwork 5.1. Topsoil 35% short, 56% adequate, 9% surplus. Subsoil 66% short, 32% adequate, 2% surplus. Late crop planting virtually complete except double crop. Small grain harvest behind normal, moving rapidly. Wheat harvest barely started north, 58% complete southeast. Oats harvested 7%, 26% 1988, 17% avg. Alfalfa Hay 2nd cutting 25%, 47% 1988, 34% avg. Other Hay harvested 65%, 83% 1988, 69% avg. Condition of pasture 4% very poor, 6% poor, 49% fair, 40% good, 1% excellent.

MONTANA: Temperatures 3 to 7° below normal. Most areas had some moisture 0.01 to 1.75 in., heavier east.

Days suitable for fieldwork 5.6. Topsoil 20% short, 79% adequate, 1% surplus. Subsoil 22% short, 77% adequate, 1% surplus. Barley none very poor, 1% poor, 12% fair, 60% good, 27% excellent. Barley 10% headed, 40% 1988, 18% avg. Oats none very poor, 2% poor, 14% fair, 61% good, 23% excellent. Oats 4% headed, 48% 1988, 26% avg. Pasture, range feed 4% poor, 19% fair, 47% good,

30% excellent. First cutting alfalfa 17% cut, 62% 1988, 35% avg. Other hay 13% cut, 32% 1988, 15% avg.

NEBRASKA: Temperatures 3° below to 2° above normal. Extremes 38°; 108°. Most areas received substantial rainfall 1.00 to 4.00 in. south, east.

Days suitable for fieldwork 6.1. Topsoil 82% short, 18% adequate. Subsoil 93% short, 7% adequate. Winter wheat 76% turning, 95% 1988, 83% avg.; 21% ripe, 53% 1988, 31% avg. Alfalfa hay 9% very poor, 30% poor, 57% fair, 4% good. 96% first cutting, 98% 1988, 95% avg.; 1% second cutting, 11% 1988, 8% avg. Alfalfa weevils northeast. Pasture, range 83% short, 17% adequate. Most corn recovering from last weeks frost. Chinch bugs moving from wheat to sorghum, soybeans in southeast. Northern ranchers selling yearlings, some calves due to short pastures. Supplementing pastures, others shipping cattle to pastures in other areas. Farmers cutting small grains fields for hay silage. Main activities: Cultivating, spraying; cutting hay; irrigating, sidedress fertilizing, working summer fallow.

NEVADA: Mostly sunny skies, warm temperatures early beginning of summer changed rapidly to cold, gusty winds. Extreme north below freezing minimums under mostly clear skies midweek. Light rain fell central areas. Mostly warm again all areas.

Alfalfa hay harvest slowed by scattered showers, low night temperatures, gusty winds. Marketing potatoes active. Cattle good.

NEW ENGLAND: Precipitation 0.90 to 1.30 in. south, 0.30 to 0.70 in. north. Temperatures mid 60s northern Maine to mid 60s to low 70s remainder. Temperatures 2° above normal northern Maine, 4° below normal Maine coast, normal remainder.

Days suitable for fieldwork 6.5. Soil moisture 3% short, 70% adequate, 27% surplus. Grazing availability 75% adequate, 25% surplus. Fieldwork progress 7.0 behind. Maine potatoes 100% emerged, 97% 1988, 90% avg.; good. Rhode Island potatoes good. Connecticut River Valley potatoes 100% emerged, 100% 1988, 100% avg.; fair. Maine oats good. Field corn 95% planted, 98% 1988, 97% avg.; 90% emerged, 97% avg.; 90% emerged, 97% 1988, 92% avg.; good. Sweet corn 90% planted, 96% 1988, 93% avg.; 85% emerged, 95% 1988, 89% avg.; good. First crop hay 40% cut, 86% 1988, 65% avg.; good. Outdoor tobacco 90% transplanted; poor to fair. Shade tobacco 100% transplanted; fair to good. Apple set average; fruit drop average; scab infection average. Strawberries 35% harvested; average set. Blueberry set light to average. Major farm activities: Haying, spraying, cultivating.

NEW JERSEY: Temperatures above normal. Extremes 52°; 89°. Rainfall 1.71 in. north, 0.68 in. central, 2.03 in. south. Heaviest 24-hour total 2.12 in. on 23th, 24th. Estimated soil moisture percent field capacity averaged 92% north, 81% central, 87% south. Four inch soil temperatures 71° north, 72° central, 75° south.

Crops drowned out in low areas of fields. Soil moisture ample to excessive. Fieldwork active as conditions permitted. Summer vegetable harvest increased. Harvest of spring crops neared completion. Very limited strawberry harvest continued from northern areas. Blueberry harvest began. Soybean planting active. Hay making, grain combining continued to be delayed. First cutting hay put into silos. Pasture growth excellent.

NEW MEXICO: Temperatures below normal in extreme east, near normal in the west, 4 or 5° above

normal in central mountains. Reports of measurable precipitation in east.

Days suitable for fieldwork 6.3. Soil moisture 77% short, 23% adequate. Wheat harvest underway, estimated 69% complete; 60% very poor, 30% poor, 5% fair, 5% good. Cotton squaring 57%, well ahead of 5 year average of 37%, none setting bolls; 20% poor, 30% fair, 50% good. Cattle 8% poor, 69% fair, 15% good, 8% excellent. Sheep 10% poor, 60% fair, 20% good, 10% excellent. Ranges, pastures 8% very poor, 59% poor, 25% fair, 8% good.

NEW YORK: Near normal temperatures highs 90s. Cooler at weekend. Precipitation abundant, heaviest western areas, Long Island. Rochester received 2.27 in.

Days suitable for fieldwork 2.6. Soil moisture mostly excessive. Wet fields continued to delay planting progress. Corn 78% planted, 100% 1988, 100% avg. Alfalfa harvest 24% complete, 74% 1988, 59% avg. Clo-Tim harvest 17% complete, 56% 1988 40% avg. Grass silage 27% complete, 74% 1988, 60% avg. Pasture, hay, wheat good. Tree fruit good. Sweet cherry harvest to start July 6. Vegetable planting far behind schedule due to heavy rains. Muck super-saturated. Vegetable fields underwater in western New York, Orange county, Long Island.

NORTH CAROLINA: Temperatures and precipitation information unavailable.

Days suitable for fieldwork 2.8. Soil moisture 34% adequate, 66% surplus. Pasture 3% fair, 87% good, 10% excellent. Livestock feed from pasture 88%. Burley transplanted 98%, 99% 1988, 97% avg. Field tobacco 1% very poor, 2% poor, 38% fair, 59% good. Irish potato 30% fair, 65% good, 5% excellent; 24% harvest, 45% 1988, 36% avg. Sweet potatoes 80% transplanted, 95% 1988, 92% avg.; 17% fair, 83% good. Peaches 7% very poor, 21% poor, 21% fair, 48% good, 3% excellent. Apple 10% very poor, 3% poor, 37% fair, 47% good, 3% excellent. Truck crops 29% fair, 71% good. Sorghum 75% planted, 94% 1988, 86% avg. Peanut 51% fair, 49% good. Hay 1% very poor, 5% poor, 16% fair, 71% good, 7% excellent. First cutting 84% complete, second cutting 20% complete. Hay, roughage 87% adequate, 13% surplus. Harvesting completed: peaches 36%, 24% 1988, 28% avg.; wheat 45%, 69% 1988, 74% avg.; oats 52%, 79% 1988, 80% avg.; barley 60%, 82% 1988, 85% avg.; rye 50%, 65% 1988, 70% avg.. Major activities: Planting soybeans, cultivating tobacco, harvesting small grains, cutting hay. Other activities: Spraying crops; planting sweet potatoes, vegetables, sorghum; harvesting peaches; tending livestock; general farm maintenance. Continued wet weather has slowed planting progress, hay cutting, small grain harvest, tobacco cultivation. Drowning out of crops is becoming a problem.

NORTH DAKOTA: Temperatures 2° below southwest, 3° above east central, northeast. Extremes 37° west central; 97° south central. Precipitation 0.16 to 0.94 in. Statewide, majority less than 0.50 in. State below for growing season.

Days suitable for fieldwork 5.9. Topsoil near average, 2% very short, 48% short, 50% adequate; subsoil below average 7%, 82%, 11%. Small grains good, development behind average. Spring wheat 16% fair, 80% good, 4% excellent; durum 18%, 81%, 1%; barley 14%, 81%, 5%; oats 25%, 73%, 2%; corn 28% fair, 72% good; flax 32%, 68%; sunflower 19%, 81%; soybeans 26%, 74%; dry edible beans 12%, 88%; potatoes 100% good. Spring wheat 53% boot and beyond, 13% heading and beyond; durum 30%, 5%; oats 46%, 10%; barley 57%, 19%. Row crop progress slightly behind avg. Crop height: dry edible beans 6 in., 8 in. last year, 7 in. avg.; corn 10 in., 19 in., 14 in.; flax 5 in., 7 in., 6 in.; potatoes 8 in., 11 in., 9 in.; soybeans 6 in., 9 in., 7

in.; sunflower 6 in., 10 in., 8 in. Pasture 1% very poor, 14% poor, 51% fair, 34% good, furnished 99% roughage requirements.

OHIO: Temperatures high 70s to mid 80s, 3 to 5° above normal. Low temperatures upper 50s to lower 60s. Rainfall 0.02 to 2.26 in., with over 1.80 in. central, northeast. Accumulation of growing degree days between 150, 180, representing nearly a day's growth above normal. Moist soil temperatures low to mid 70s.

Days suitable for fieldwork 2.2. Soil moisture 24% adequate, 76% surplus. Flooding in central, south, east. Emerged corn fair to good, with worm, slug infestations in central, east. Soybeans fair to good, with scattered outbreaks of septoria glumeblotch, head scab. First cut hay fair to good, poor to fair in east; damp weather, suspended fieldwork, insects, disease causing low hay yields to date. Planting of potatoes, tomatoes progressed rapidly. Strawberry harvest almost complete. Tobacco setting behind schedule. Aphids, scab affected fruit trees in north, west.

OKLAHOMA: Temperatures 5° below normal Panhandle to 2° above normal east central. Precipitation none southeast to 1.90 in. central.

Days suitable for fieldwork 5.6. Topsoil 2% short, 68% adequate, 30% surplus. Subsoil 5% short, 95% adequate. Wheat 10% very poor, 25% poor, 40% fair, 25% good; 65% harvested, 95% 1988, 70% avg. Cotton 10% poor, 90% fair; 20% squaring, 10% 1988, 2% avg. Growers replanting after recent heavy rains. Sorghum 9% fair, 90% good, 1% excellent; 70% planted, 80% 1988, 80% avg. Soybeans 70% planted, 80% 1988, 85% avg. Peanuts 80% planted, 90% 1988, 95% avg. Row crop plantings delayed because of wheat harvest. Pastures improving with warm temperatures, ample soil moisture. Cattle good; marketings stable, prices up from preceding week.

OREGON: Temperatures 2° above normal west, 4° below normal east. Rainfall trace amounts south coast; 0.30 to 0.60 in. central to north coast; 1.30 in. coastal range; 0.20 in. Willamette Valley, north Cascades; little or none elsewhere west; northeast mountains up to 0.40 in.; rest of east dry.

Soil moisture 16% short, 84% adequate. Winter wheat, 57% fair, 29% good, 14% excellent. Winter wheat, other grains fair to excellent east, fair to good west. Grass seed fields being swathed. Combining early fields expected this week with dry weather Willamette Valley. Wheat began turning. Barley harvest could start late this week with continued warm, dry weather. Shallow spots in grain showed up fast last week. Russian wheat aphid populations low most areas. Cool, damp weather slowed haying but yields good. Most first crop alfalfa harvested, native hay harvest started. Many weevils showing up Lake County. Second cut alfalfa started, bees emerged for alfalfa seed crop Malheur County. Second cutting alfalfa close Willamette Valley. Crimson clover harvest started Washington County. Strawberry harvest continued, neared completion Willamette Valley. Disappointing yields some fields, shortage labor. Raspberry, blueberry harvests began Willamette Valley. Finished cherry harvest Milton-Freewater. Cherry harvest underway Wasco County. Excellent crop with large, firm cherries, near record yields. Royal Anne cherry harvest expected soon Washington County, major splitting Lane County. Average pear crop Medford, with some scab, fire blight showing up. Sweet corn still being planted Willamette Valley. Snap beans, sweet corn, green peas growing well despite more weeds without dinoseb Willamette Valley. Table beets, carrots looking good, also. Walla Walla

sweet onion harvest started last week Milton-Freewater. Storage onion crop looking good Malheur. Seed potatoes all planted, not emerged Wallowa County. Hail damage to sugarbeets, potatoes Nyssa area. Green pea harvest continued Milton-Freewater. Livestock fair to good west, good to excellent east. Heavy yearling cattle being shipped Lake County. Range, pasture good to excellent east as recent rains improved conditions. Range, pasture fair to good west; non-irrigated pastures starting to dry.

PENNSYLVANIA: Above average rainfall for eight straight weeks. Central received the most rain, 3.00 in. Temperature 72°, 5° above normal. Extremes 47°; 89°. Precipitation 2.29 in., 1.35 in. above normal.

Days suitable for fieldwork 2.0. Soil moisture 8% adequate, 92% surplus. Corn 87% planted, 99% 1988, 99% avg.; 9 in. height, 12 in. 1988, 17 in. avg.; 2% very poor, 10% poor, 33% fair, 39% good, 16% excellent. Tobacco 75% transplanted, 79% 1988, 89% avg. Soybeans 59% planted, 88% 1988, 90% avg.; 1% very poor, 6% poor, 30% fair, 51% good, 12% excellent. Barley 36% heading or headed, 25% 1988; 44% turning yellow, 36% 1988; 18% ripe, 24% 1988; 2 harvested, 15% 1988. Wheat 71% heading or headed, 49% 1988; 29% turning yellow, 45% 1988; none ripe, 6% 1988; 5% poor, 19% fair, 48% good, 28% excellent. Oats 100% heading or headed, 92% 1988; none turning yellow, 8% 1988; 1% very poor, 8% poor, 23% fair, 52% good, 16% excellent. First cutting alfalfa 44% complete, 90% 1988. Second cutting alfalfa 4% complete, 14% 1988. First cutting clover-timothy 30% complete, 80% 1988. Hay quality poor. Feed from pastures above average to average. Activities: Fruit tree average. Planting corn, soybeans, potatoes, other vegetables; transplanting tobacco; harvesting hay, haylage, strawberries, vegetables; weed control; fence work; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

PUERTO RICO: Rainfall 0.86 in. was 0.41 in. below normal. Highest weekly total 4.04 in. at San Sebastian, 3.79 in. at Isabela Aes, 2.22 in. at Pico Del Este-Luquillo. Highest 24 hour total 1.96 in. at San Sebastian. Temperatures 80° minus 2°. Divisional temperatures 79 to 80° on coasts, 73 to 77° in Interior. Maricao 72°, 84° at San Juan City. Extremes 61° Gurabo Aes; 94° Coloso.

SOUTH CAROLINA: Rainfall less than 1.00 to 5.00 in. across State. Temperatures near normal.

Days suitable for fieldwork 3.8. Soil moisture 2% very short, 11% short, 71% adequate, 16% surplus. Cotton 26% fair, 74% good; 21% squaring, 23% 1988, 55% avg. Soybeans 27% fair, 73% good; 74% planted, 85% 1988, 83% avg. Corn good; 43% silked, 46% 1988, 56% avg.; 3% dough stage, 3% 1988, 11% avg. Peanuts fair to good. Sorghum good; 45% planted, 70% 1988, 80% avg. Sweet potatoes good; 81% planted, 77% 1988, 82% avg. Watermelons good; 15% harvested, 17% 1988, 13% avg. Tomatoes good; 42% harvested, 27% 1988, 40% avg. Peaches fair to good; 23% harvested, 27% 1988, 28% avg. Wheat fair to good; 73% harvested, 90% 1988, 89% avg. Oats good; 96% ripe, 94% 1988, 98% avg.; 67% harvested, 86% 1988, 87% avg. Pastures good.

SOUTH DAKOTA: Temperatures normal to 3° above normal. Extremes 32°; 106°. Rainfall below normal; 0.10 to 1.80 in. Growing season precipitation 2 to 4 in. below normal; localized areas above normal.

Winter wheat fair to poor, spring wheat fair to good, corn, soybeans good to fair, grain sorghum fair to good. Spraying, cultivating, haying, fencing major activities.

TENNESSEE: Weak low pressure brought rain 19th, 20th. High pressure 21st brought warm, humid weather. Afternoon thundershowers remainder week. Temperatures slightly above normal west, slightly below normal east. Precipitation slightly below normal west, middle; slightly above normal east.

Days suitable for fieldwork 1.3. Soil moisture 22% adequate, 78% surplus. Corn 8% tasseling, 12% 1988, 26% avg.; 16% fair, 66% good, 18% excellent. Tobacco 90% transplanted, 100% 1988, 99% avg. Wheat 94% ripe, 93% 1988, 93% avg., 22% harvested, 85% 1988, 72% avg.; 1% very poor, 9% poor, 48% fair, 41% good, 1% excellent. Hay 6% poor, 25% fair, 59% good, 10% excellent. Fieldwork slowed by rain. Pastures excellent. Cattle good.

TEXAS: Variety of weather. Early week partly cloudy, warm, humid with isolated thunderstorms near New Mexico border. Cool front triggered few showers Panhandle. Late week cool, cloudiness northeast; warm, humid, thunderstorms southeast. Temperatures at or below normal over State. Rain fell over most areas, below normal north, west. South received better rains, Upper Coast, Lower Valley above normal.

Crops: Small grain harvest winding down Blacklands with open weather. Harvest resumed Cross Timbers, Low Plains with low yields. Harvest getting underway High Plains as fields dried. Yields poor. Corn showing some improvement northern, central areas with recent rains. Some insect problems Blacklands. Fields south into Coastal Bend, Valley suffered from dry conditions. Harvest begins these areas, many fields cut only for hay or abandoned. Plants falling over because poor root development. Corn 47% doughing, 47% 1988, 48% avg. Corn 14% dented, 16% 1988, 22% avg.; 1% mature, 2% 1988, 3% avg. Grain sorghum harvest increasing Coastal Bend, Valley as hot, dry conditions increased maturity. Fields turning color central, Blacklands. Planting resumed Plains, crop later than normal because planting delays. Early planted fields coming up to stands, recent moisture helped. Grain sorghum 47% headed, 50% 1988, 52% avg.; 34% turning color, 23% 1988, 30% avg.; 2% mature, 5% 1988, 11% avg.; none harvested, none 1988, 1% avg. Cotton planting, replanting resumed Plains, after several weeks wet weather. Irrigated fields squaring. Many stands that missed hail, high winds look good. Producers Blacklands, central busy with insect controls, cultivation. Hot weather advanced boll opening Coastal Bend, Valley. Cotton 97% planted, 96% 1988, 96% avg.; none open bolls, 1% 1988; none avg. Rice producers spraying for weeds Upper Coast. Many fields heading. Peanut planting increasing many parts State with recent moisture. Early stands look good. Weeds increasing Cross Timbers. Many cotton producers replanted to beans. Fields Upper Coast currently look good, more rain needed. Other field crops: Oats 72% harvested, 76% 1988, 72% avg. Peanuts 80% planted, 84% 1988, 76% avg. Soybeans 85% planted, 87% 1988, 82% avg. Sunflowers 64% planted, 48% 1988, 74% avg.

Commercial Vegetables: Rio Grande Valley, some melons, tomatoes, peppers harvested. Irrigation steady citrus groves. San Antonio-Winter Garden, harvest watermelons, cantaloupes, cucumbers, cabbage continued. Onion harvest winding down. East Texas, harvest increased most vegetables. High Plains, onion, potato harvest begin soon. Many onion fields coming back after being hit by hail. Potatoes improved progress. Trans-Pecos, onion harvest increasing. Melon harvest nearing. Late variety peaches ripening Hill Country,

harvest continued on early varieties. Picking winding down east because short crop. Pecans good progress most areas. Wind, hail caused minor damage. Producers getting ready for second generation casebearers. First generation numbers lower than normal.

Range and Livestock: Pastures, ranges good portion State improving rapidly with recent rain. South remained very dry, grasses remained very short. Haying operations increased. Livestock good. Markets good.

UTAH: Precipitation none to light. Temperatures 2° below to 4° above normal.

Days suitable for fieldwork 6.8. Soil moisture 90% short, 10% adequate. Winter wheat 34% turned color, 56% 1988, 46% avg. Spring wheat 89% headed, 96% 1988, 80% avg. Barley 86% headed, 83% 1988, 69% avg. Oats 87% booted, 78% 1988, 61% avg.; 50% headed, 34% 1988, 37% avg. Corn 18 in. high, 18 in. 1988, 15 in. avg. Alfalfa 1st cutting 95% completed, 81% 1988, 76% avg. Second cutting underway extreme south. Other hay harvest beginning. Livestock good. Movement to summer range completed. Ranges, pastures dry. Major farm activities: Irrigation, harvesting hay, spraying alfalfa weevil, cultivating row crops, summer fallow.

VIRGINIA: Warm, humid with above normal temperatures, rainfall. Temperatures 46 to 91°. Rainfall 1.50 in., 0.40 in. to 3.80 in.

Days suitable for fieldwork 1.5. Topsoil moisture 27% adequate, 73% surplus. Soybeans 60% planted, 67% 1988, 64% avg. Wheat 15% harvested, 24% 1988, 53% avg. Oats 17% harvested, 28% 1988, 36% avg. Barley 64% harvested, 59% 1988, 69% avg. Reports of low test weight wheat, barley. Corn 2% poor, 36% fair, 53% good, 9% excellent. Soybeans 71% fair, 29% good. Tobacco 24% poor, 32% fair, 44% good, wetness delaying cultivation. Pastures 3% fair, 58% good, 39% excellent. Alfalfa 30% fair, 55% good, 15% excellent. Other hay 13% fair, 69% good, 18% excellent. Wetness hampering haying activities.

WASHINGTON: Temperatures 2° above normal to 4° below normal, east; 2° above normal to 3° below normal, west. Precipitation none to 0.03 in., east; 0.01 to 0.98 in., west.

Days suitable for fieldwork 6.5. Soil moisture 30% short, 70% adequate. Range, pasture 25% short, 75% adequate. Hay, other roughage 9% short, 90% adequate, 1% surplus. Small grains continued to advance ahead of normal. Winter wheat 99% headed, 92% 1988, 90% avg. Spring wheat 80% headed, 77% 1988, 72% avg. Barley 90% headed, 84% 1988, 76% avg. First cutting of alfalfa hay 96% complete. Second cutting started, 10% complete. Major activities: Completion of apple thinning; harvest of cherries, strawberries, raspberries; harvest of leafy vegetables, asparagus, green peas, Walla Walla sweet onions. Central portion of State continues to be dry; pastures, crops in rest of State in good.

WEST VIRGINIA: Temperature 73°, 3 to 5° above normal. Extremes 48° Weston; 95° Creston. Precipitation 1.19 in.

Days suitable for fieldwork 1.3. Soil moisture 37% adequate, 63% surplus. Wheat, oats, barley good. Wheat 20% ripe, barley 59% ripe. Oats 63% jointed; 54% headed. Corn good, 92% planted; 91% emerged. Tobacco fair to poor, 80% set. Hay good, 1st cut 39%. Apples fair, peaches poor. Farm activities corn planting, haying, maintenance.

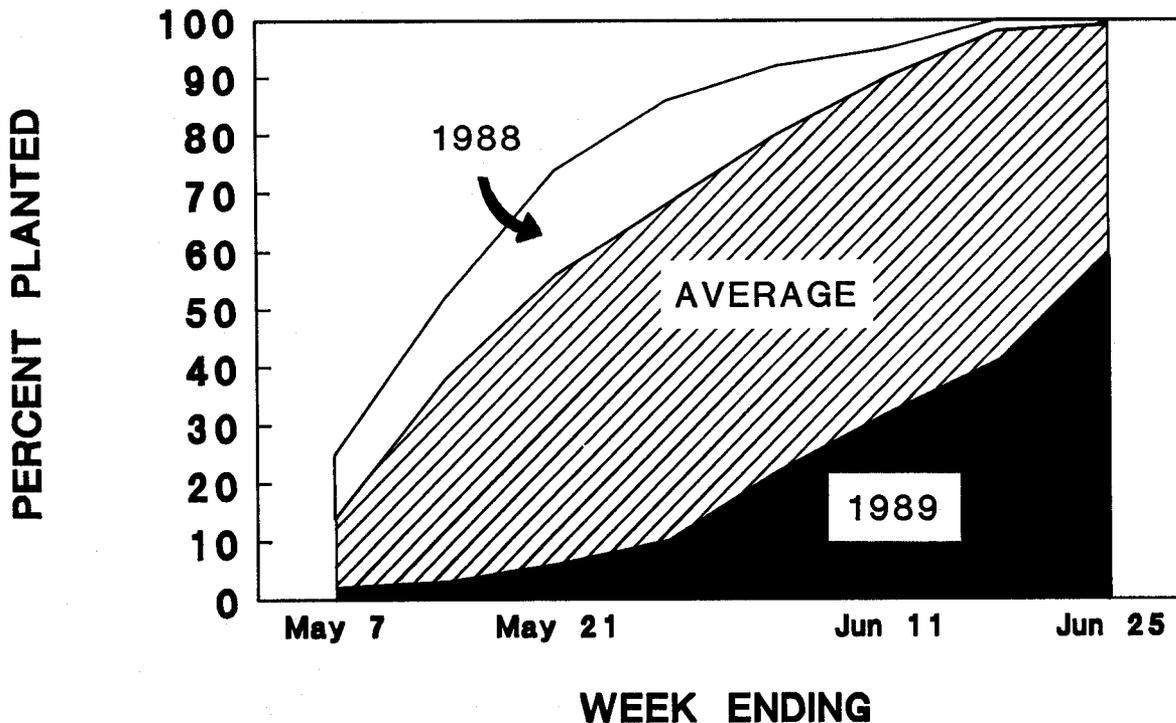
WISCONSIN: Temperature 71°, 2° above normal. Extremes: 46°; 94°. Precipitation 0.10 to 0.90.

Days suitable for fieldwork 6.4. Soil moisture 37% short, 59% adequate, 4% surplus. Pasture 75% of normal, 37% 1988, 70% avg. General condition of crops 1% poor, 17% fair, 76% good, 6% excellent. Soybean 2% poor, 24% fair, 66% good, 8% excellent. Corn 2% poor, 17% fair, 70% good, 11% excellent; 16 in. height, 23 in. 1988, 20 in. avg. Oats 39% headed, 85% 1988, 61% avg. First cut hay 72% completed, 92% 1988, 79% avg.

WYOMING: Temperatures below normal. Rainfall Statewide, below normal.

Days suitable for fieldwork 6.0. Topsoil 54% short, 46% adequate. Small grain crops fair. Row crops fair to good. Alfalfa good. Winter wheat 5% not jointed, none 1988, none avg.; 10% jointed, 10% 1988, 5% avg.; 30% boot, 15% 1988, 20% avg.; 55% headed, 75% 1988, 75% avg. Barley 10% not jointed, 5% 1988, 15% avg.; 20% jointed, 20% 1988, 20% avg.; 30% boot, 30% 1988, 25% avg.; 40% headed, 45% 1988, 40% avg. Spring wheat 5% not jointed, 10% 1988, 10% avg.; 40% jointed, 20% 1988, 30% avg.; 40% boot, 35% 1988, 30% avg.; 15% headed, 35% 1988, 30% avg. Oats 10% not jointed, 20% 1988, 20% avg.; 40% jointed, 25% 1988, 25% avg.; 40% boot, 35% 1988, 35% avg.; 10% headed, 20% 1988, 20% avg. Sugarbeets 85% thinned, 95% 1988, 90% avg. Alfalfa first cutting 25%, 55% 1988, 45% avg. Other hay 5%, 15% 1988, 15% avg. Livestock good. Range, pasture fair to good. Stockwater 60% short, 40% adequate.

PERCENTAGE OF SOYBEANS PLANTED IN OHIO



International Weather and Crop Summary

June 18-24, 1989

HIGHLIGHTS

USSR ... In Western USSR, widespread showers and thunderstorms continue over most crop areas. In the New Lands, hot, dry weather continues in the southern Urals. Elsewhere, mostly light showers cover vegetative spring wheat.

EUROPE ... Continuing dryness stresses summer and winter crops in the northwest. Moderate to heavy rain covers much of the east.

SOUTH ASIA ... Pockets of dry, warm weather persist over southern India, reducing topsoil moisture reserves for vegetative summer crops.

EASTERN ASIA ... Heavy rain causes flooding and planting delays in sections of Japan.

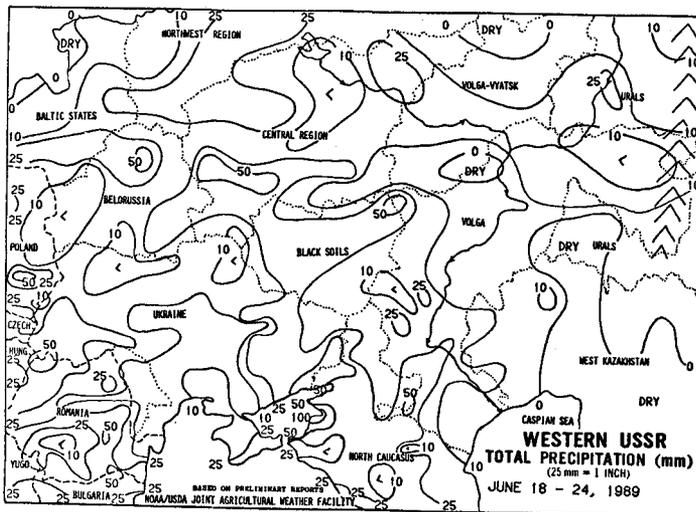
SOUTHEAST ASIA ... Mostly dry, warmer-than-normal weather covers vegetative Thai grains, increasing crop moisture demands.

SOUTH AMERICA ... In south-central Brazil, light showers benefit vegetative wheat. In Argentina, soaking rain in northern and central Buenos Aires provides ample topsoil moisture for wheat establishment.

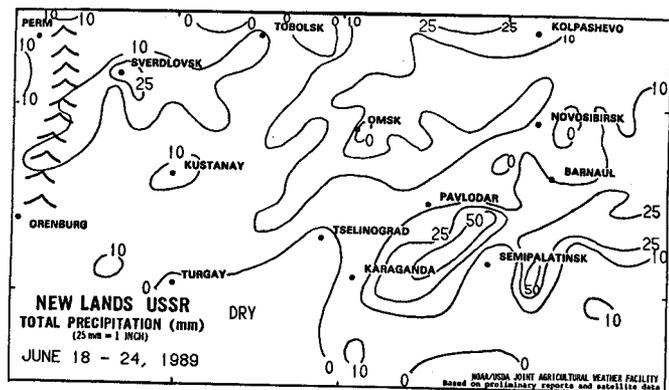
AUSTRALIA ... Rain and fieldwork delays continue in the southeast. Dry weather favors sugarcane harvest in the northeast.

CANADA ... Growing conditions continue generally favorable for vegetative grains and oilseeds.

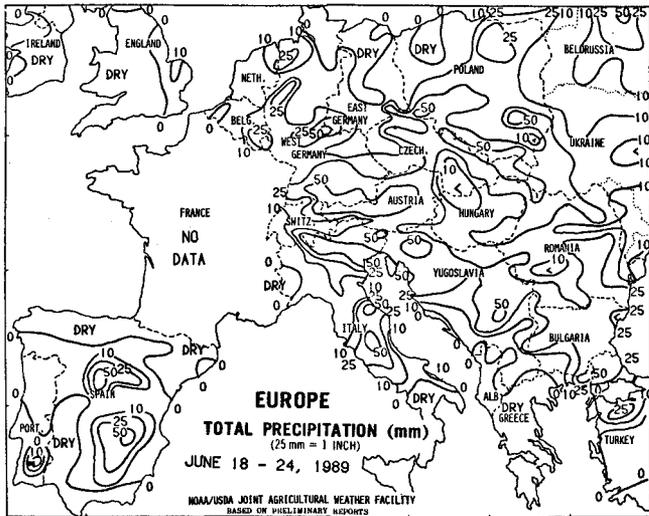
MEXICO ... Hurricane Cosme moves across southern Mexico, causing local flooding. Heat stress continues in the northwest.



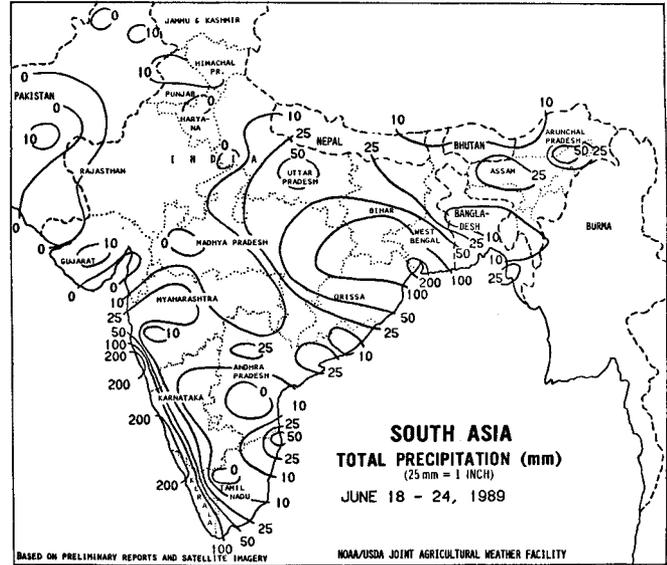
USSR ... In Western USSR, winter grains were maturing over the southern Ukraine and the North Caucasus, and were filling over the remainder of the region. Spring grains were filling in the south, while crop progress ranged from jointing to heading in central and northern crop areas. Widespread showers and thunderstorms continued over most areas, producing variable amounts of precipitation. Greatest amounts of precipitation (40-60mm) covered crops in northern Belorussia, the southwestern portion of the Central Region, the eastern Ukraine, and the central North Caucasus. The precipitation was mostly beneficial; however, local thunderstorms accompanied by gusty winds in the eastern Ukraine and central North Caucasus may have caused some lodging of winter grains that were maturing. Weekly average temperatures were below normal in the south and above normal in the north.



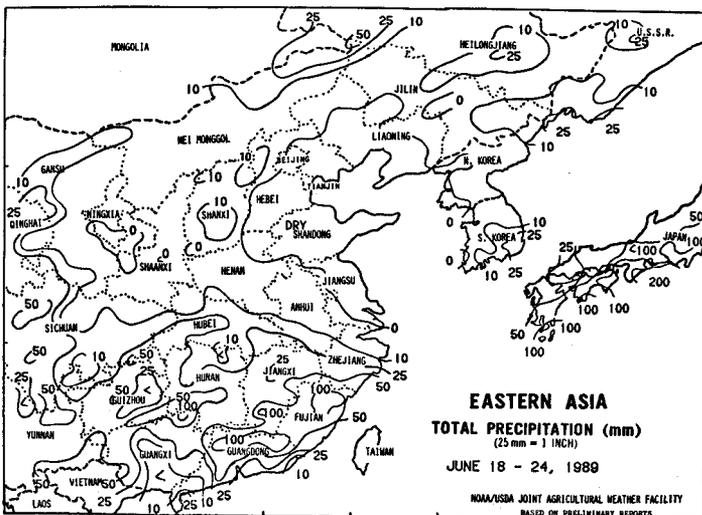
In the New Lands, spring grains were jointing in the Urals and Kazakhstan, and were in the tillering to jointing stages in West Siberia. Widespread, light precipitation (5-22mm) covered crops in the northern Urals, western Kazakhstan, and most of West Siberia. Moderate to heavy rain (40-94mm) fell in a narrow band that stretched eastward from Karaganda, through crop areas just north of Semipalatinsk, and south of Barnaul. The weather continued unfavorably hot and dry in the southern Urals where a brief episode of hot weather (maximum temperatures ranging from 31 to 33 degrees Celsius) covered crops on June 21. Weekly average temperatures were 2 to 4 degrees C above normal in the west and 2 to 4 degrees C below normal in the east.



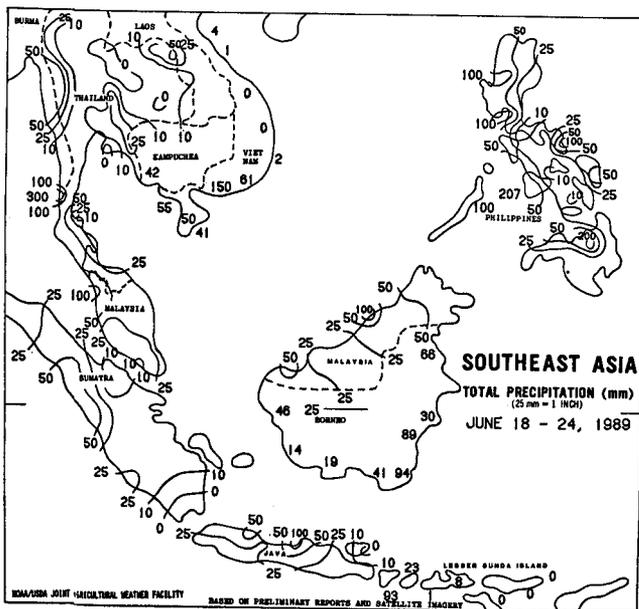
EUROPE ... Mostly dry weather continued over sections of the United Kingdom, northern France, Benelux, northern West and East Germany, and northwestern Poland. Combined with above normal temperatures (1-3 degrees C above normal), the dryness stressed vegetative spring and filling winter grains. A weak frontal system brought isolated showers (5-30mm) and cooler temperatures to much of the region late in the week, although areal coverage of rainfall was low. Elsewhere, widespread moderate to heavy rain (15-40mm, with scattered amounts in excess of 40mm) covered much of eastern Europe, favoring filling winter grains in the northeast but delaying winter grain harvest in the southeast. In the south, scattered showers (5-60mm, with isolated amounts in excess of 60mm) favored summer crops in sections of central Spain and northern and central Italy, while southern Italy and Greece remained seasonably dry.



SOUTH ASIA ... Highly variable rainfall continued across the region with light rain (10mm or less) persisting over a large area in the south from Maharashtra to Tamil Nadu. Temperatures were seasonably warm, increasing evaporation losses, with high temperatures in Andhra Pradesh and Tamil Nadu averaging in the middle 30's C, stressing newly planted crops. Drier, warmer weather also covered Gujarat and western Madhya Pradesh where early fieldwork was likely underway following last week's widespread rain. Elsewhere, moderate to heavy rain (25-50mm or more) covered a large area from eastern Madhya Pradesh and eastern Uttar Pradesh eastward to Assam, increasing irrigation reserves for planting. Excessive rain (100-200mm or more), however, from southern Bihar to southern West Bengal likely caused flooding. Scattered showers (1-17mm) boosted irrigation reserves in the north, but periods of hot weather maintained high evaporation rates.

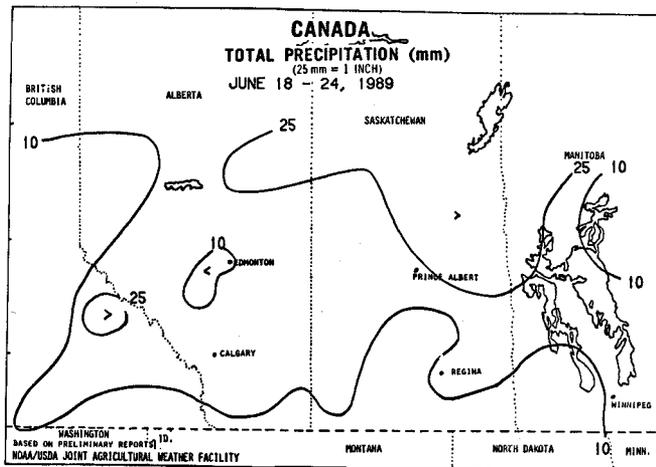


EASTERN ASIA ... Remnants of a tropical disturbance brought torrential rain (75-200mm, with isolated amounts in excess of 200mm) and flooding to southern and eastern Honshu Island, Japan on the 23rd and 24th. Lighter rainfall (15-50mm) associated with the system covered much of the remainder of Japan and South Korea, causing delays in rice planting. In China, light to moderate rain (5-20mm) favored summer crops in northwestern crop areas and northern Manchuria, while the North China Plain and southern Manchuria remained mostly dry. Seasonal rains (10-70mm) continued over the Yangtze Valley and southern China, delaying winter grain harvest and early rice harvest. Weekly mean temperatures were below normal over western, southern, and eastern growing areas and above normal in the north.

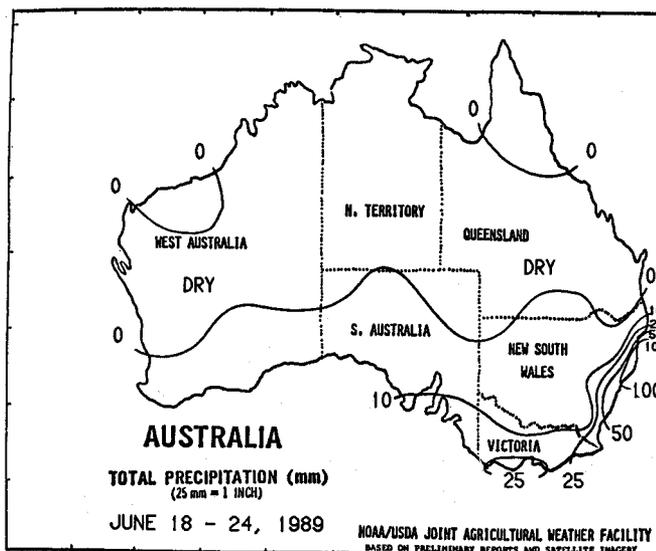


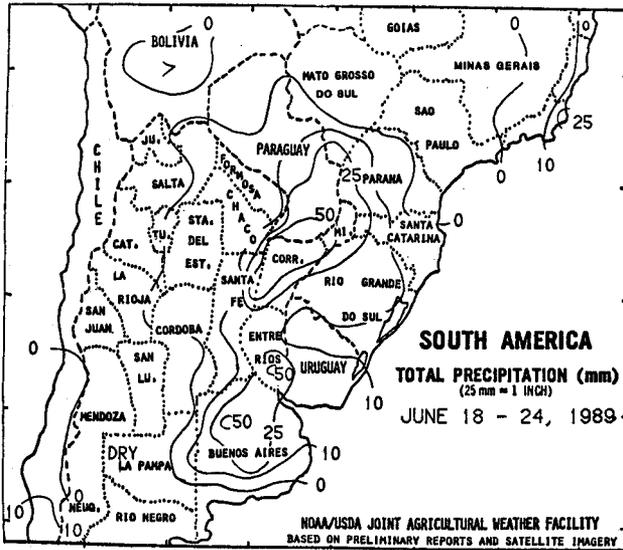
SOUTHEAST ASIA ... Dry, warmer-than-normal weather covered a large area of Thailand's main season grain region, with scattered, highly variable showers limited to only local crop areas in the northeast, far north, and south. Temperatures across the region averaged in the middle 30's C, increasing evaporation rates and crop moisture demands. Early planted corn was in or nearing reproduction, necessitating a return to more seasonable weather. In the Philippines, moderate to heavy showers (25-50mm or more) continued over Luzon's primary grain region, benefiting vegetative main season crops. Variable showers fell elsewhere, with heaviest rainfall (100-200mm or more) over north-central Mindanao and Luzon's west and south coast, causing local flooding.

AUSTRALIA ... Light to moderate rain (5-20mm) continued over southeastern crop areas, causing further fieldwork delays due to excessive soil moisture in Victoria and southern New South Wales. Growing areas of northern New South Wales and southern Queensland remained mostly dry, although heavy rain (75-125mm) in coastal New South Wales may have caused localized flooding. Near freezing minimum temperatures late in the week may have caused scattered frost in sections of central and southern New South Wales. In coastal eastern Queensland, dry weather allowed rapid progress in early sugarcane harvest. Mostly dry weather returned to crop areas in Western Australia. Below normal mean temperatures slowed growth and development of winter grains in most growing areas.

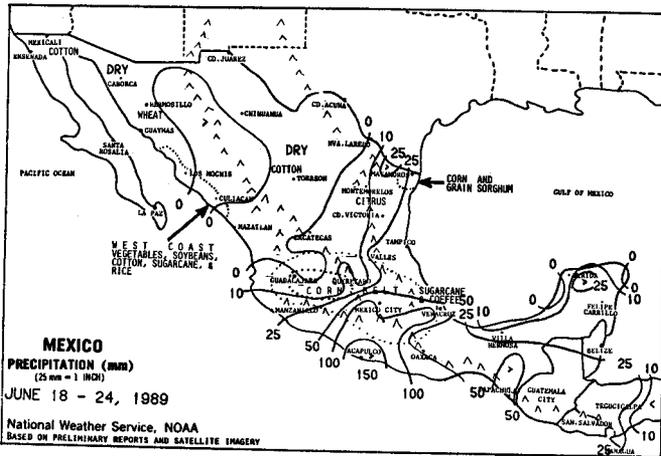


CANADA ... Rainfall tapered off from the previous week over most Prairie crop regions, although moderate rain (10-20mm) covered northern and central Alberta, western and much of northeastern Saskatchewan, and Manitoba's eastern and northern crop regions. Rainfall elsewhere averaged less than 10mm, but conditions were generally favorable for vegetative grains and oilseeds following the recent weeks of beneficial rainfall that covered most growing areas. Temperatures averaged near to as much as 2 degrees C below normal in Alberta and Saskatchewan, but periods of seasonally warmer weather stimulated vegetative growth. Temperatures averaged 1-2 degrees C above normal over Manitoba.





SOUTH AMERICA ... In south-central Brazil, light showers (10-25mm) benefited vegetative wheat in Parana, Santa Catarina, and Rio Grande do Sul. Dry weather in Sao Paulo continued to favor the citrus and coffee harvests. In Argentina, soaking rain (25-50mm) covered wheat areas in northern and central Buenos Aires. Although the rain may have caused some planting delays, it provided ample topsoil moisture for crop establishment. Minimal rain covered wheat in southern Santa Fe and southern Buenos Aires, helping planting.



MEXICO ... Hurricane Cosme struck southern Mexico near Acapulco and moved northeastward into the Gulf of Mexico, bringing moderate to heavy rain (25-100mm or more) and likely causing some local flooding and crop damage. Moderate showers (25-50mm or more) from the storm benefited eastern portions of the Southern Plateau Corn Belt and local areas of the northeast. Light rain (1-11mm) dominated the remainder of the Corn Belt, allowing planting to progress. More rain is needed, however, in central and western portions of the Corn Belt for germination and establishment. Hot, dry weather persisted over the west coast farming areas, stressing livestock and maintaining high irrigation demands.

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