

WEEKLY WEATHER AND CROP BULLETIN

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

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

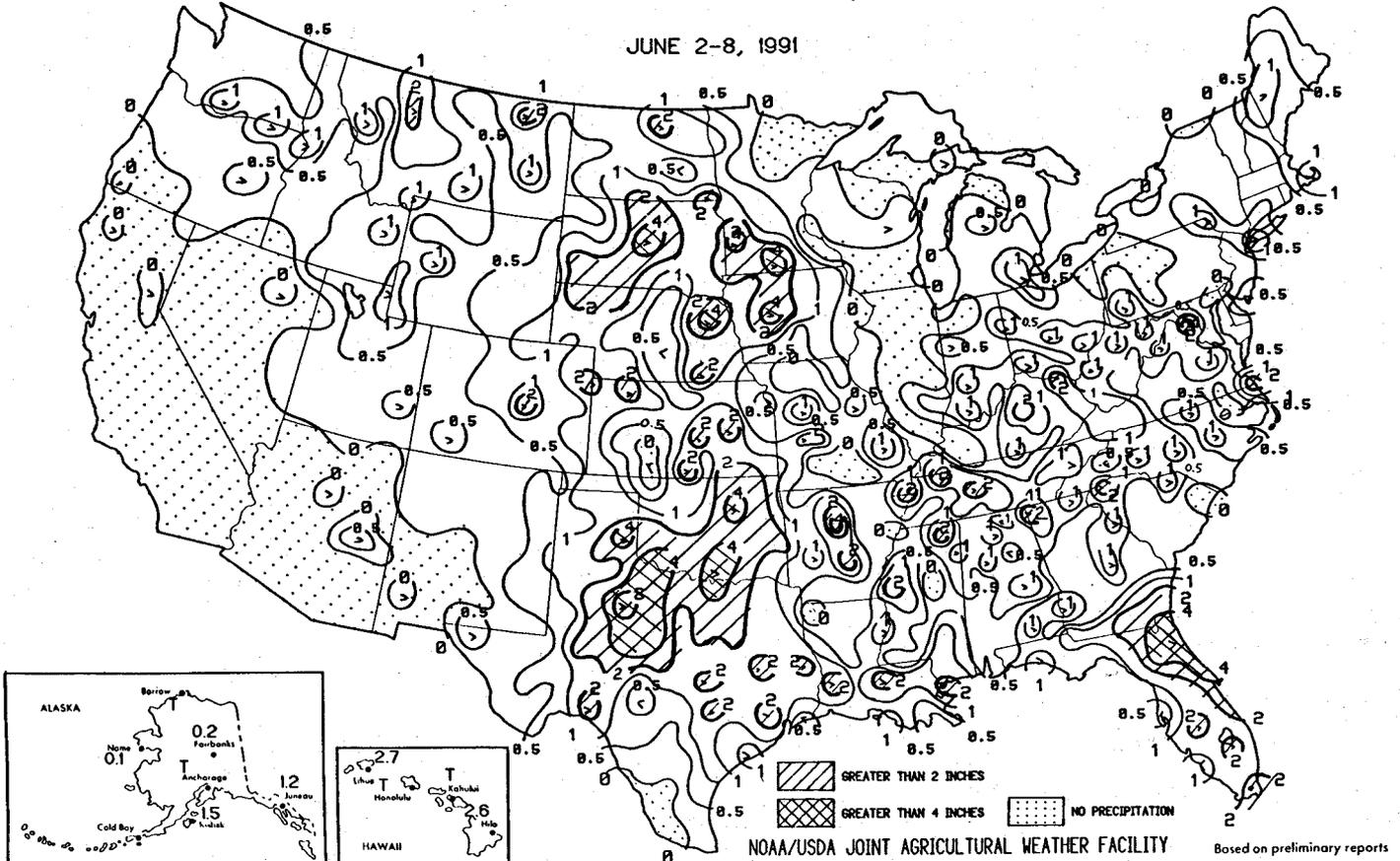
Volume 78, No. 23

Washington, D.C.

June 11, 1991

TOTAL PRECIPITATION, INCHES

JUNE 2-8, 1991



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

June 2-8, 1991

Potent thunderstorms thrashed the Plains and locally intense rainfall pounded the Southeast and the northern Rockies. Sporadic flash flooding was reported from the Dakotas and southern Minnesota southward into Texas. Early week storms dumped up to 8 inches of rain in north central Texas and up to 10 inches in southwestern Minnesota. Midweek storms lashed the central and southern Plains. Heavy rain belted north central Texas and southern Oklahoma a third time at week's end. In the East, a cold front sagged southward from the Great Lakes to the Gulf coast, sparking storms. For the first time since late April, weekly temperatures averaged below normal along the East coast. The front stalled in the Southeast, inducing heavy rain and flash flooding in parts of Florida. Chilly air once again settled across the Northwest. Valley minimums east of the Cascades dipped to 30° F in Oregon. Spring snowmelt and rain

caused some flooding in western Montana, and rain caused mudslides in eastern Washington. Dry, cool weather covered the Northeast. The Southwest was warm and dry.

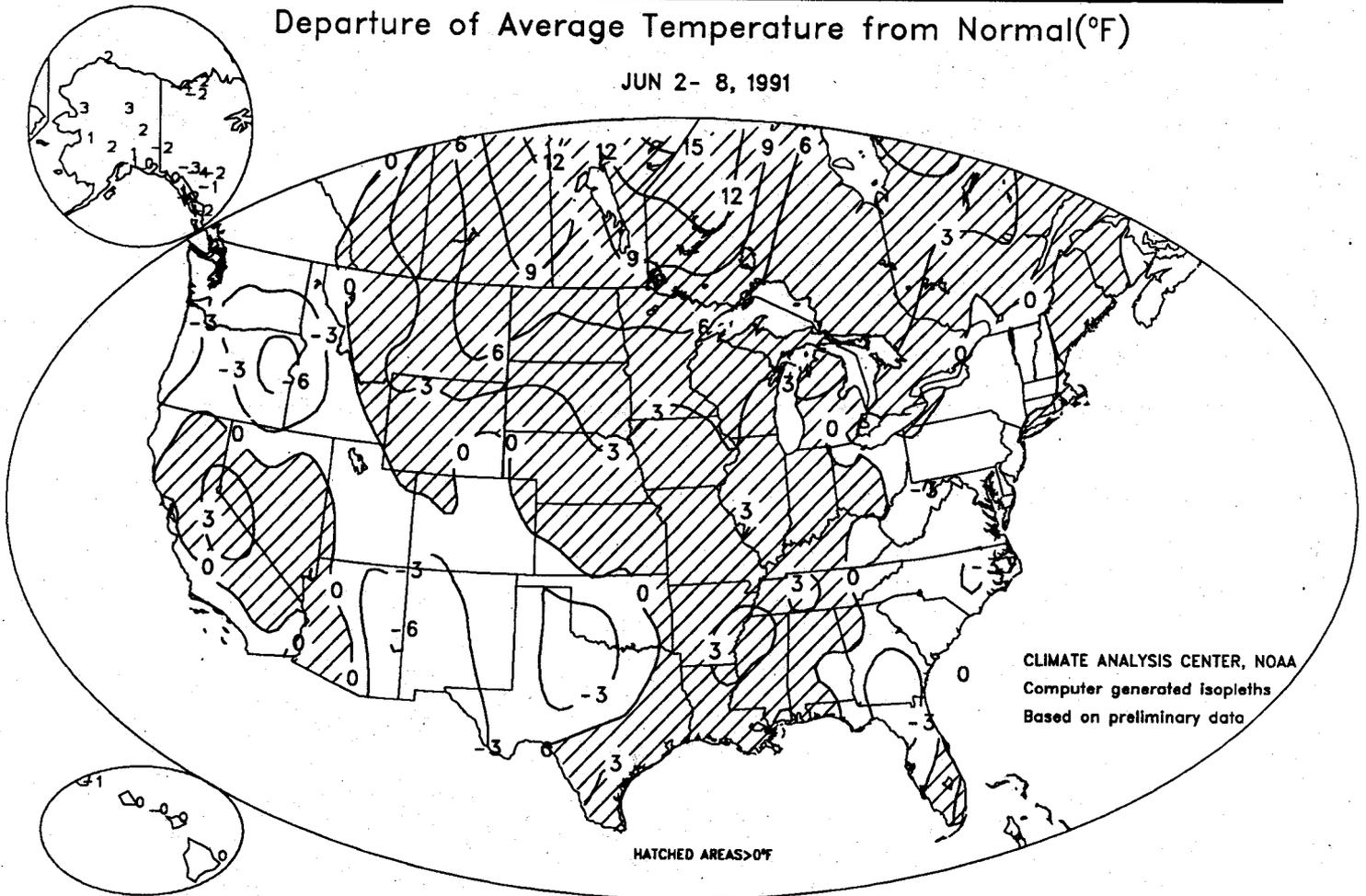
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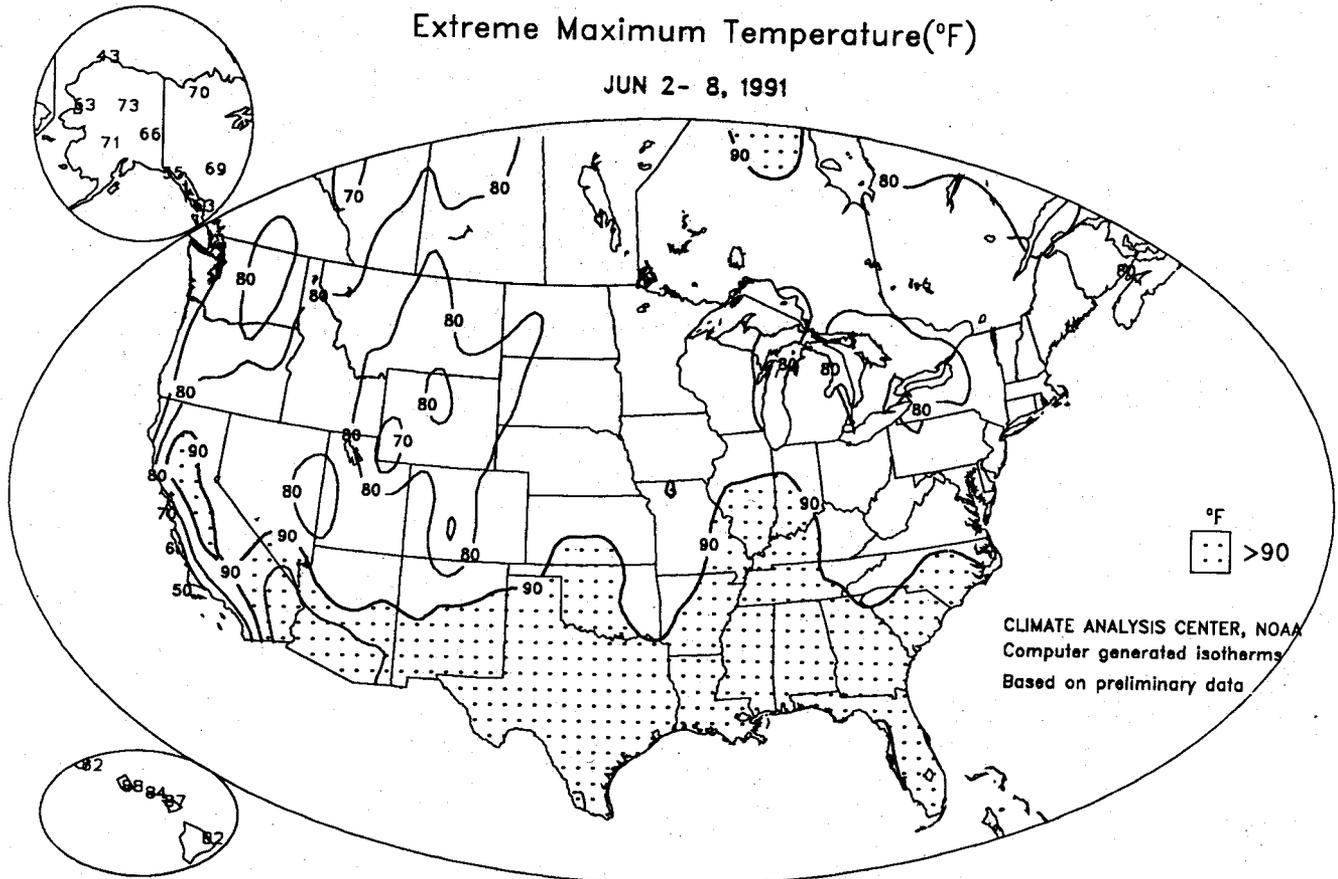
Departure of Average Temperature from Normal(°F)

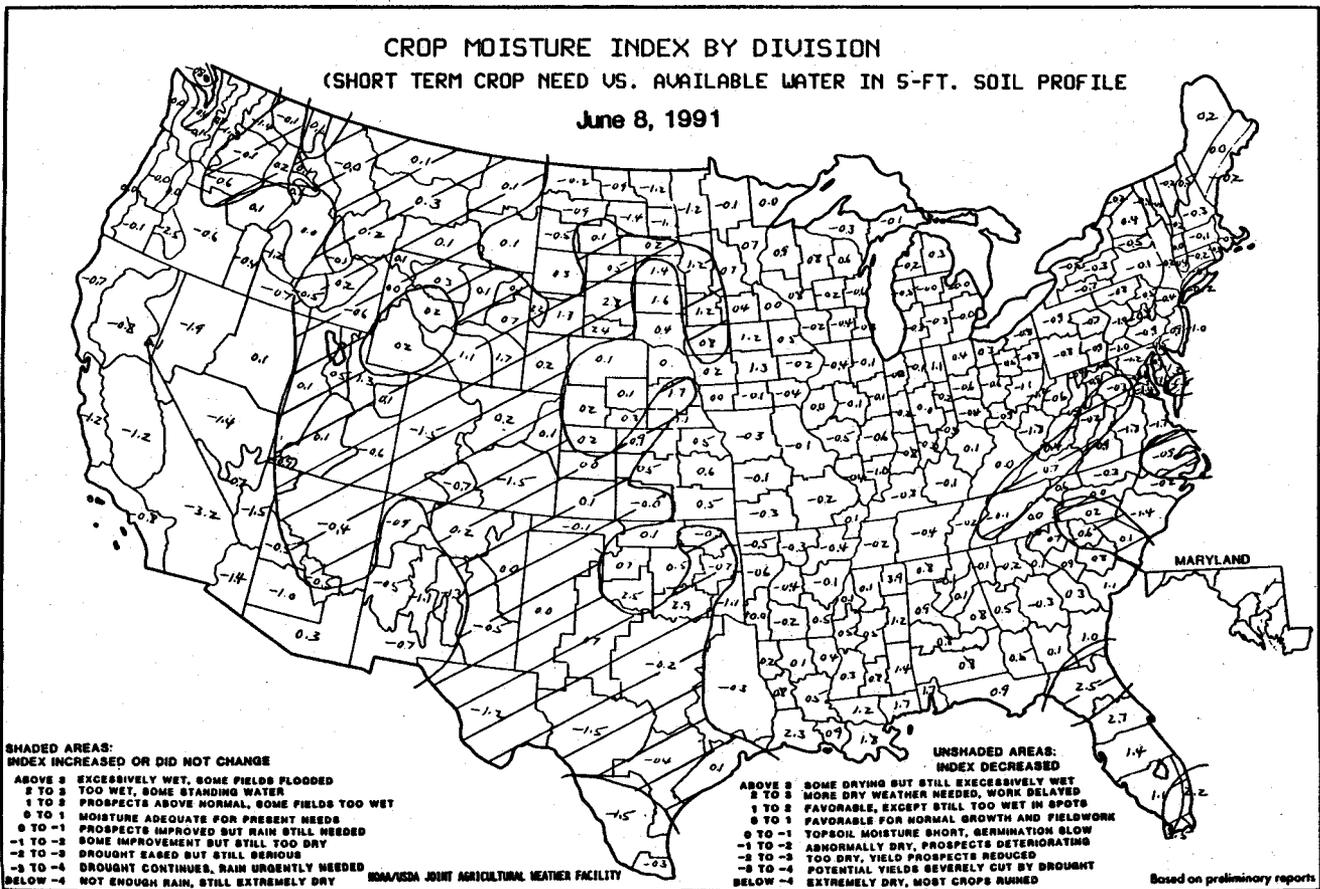
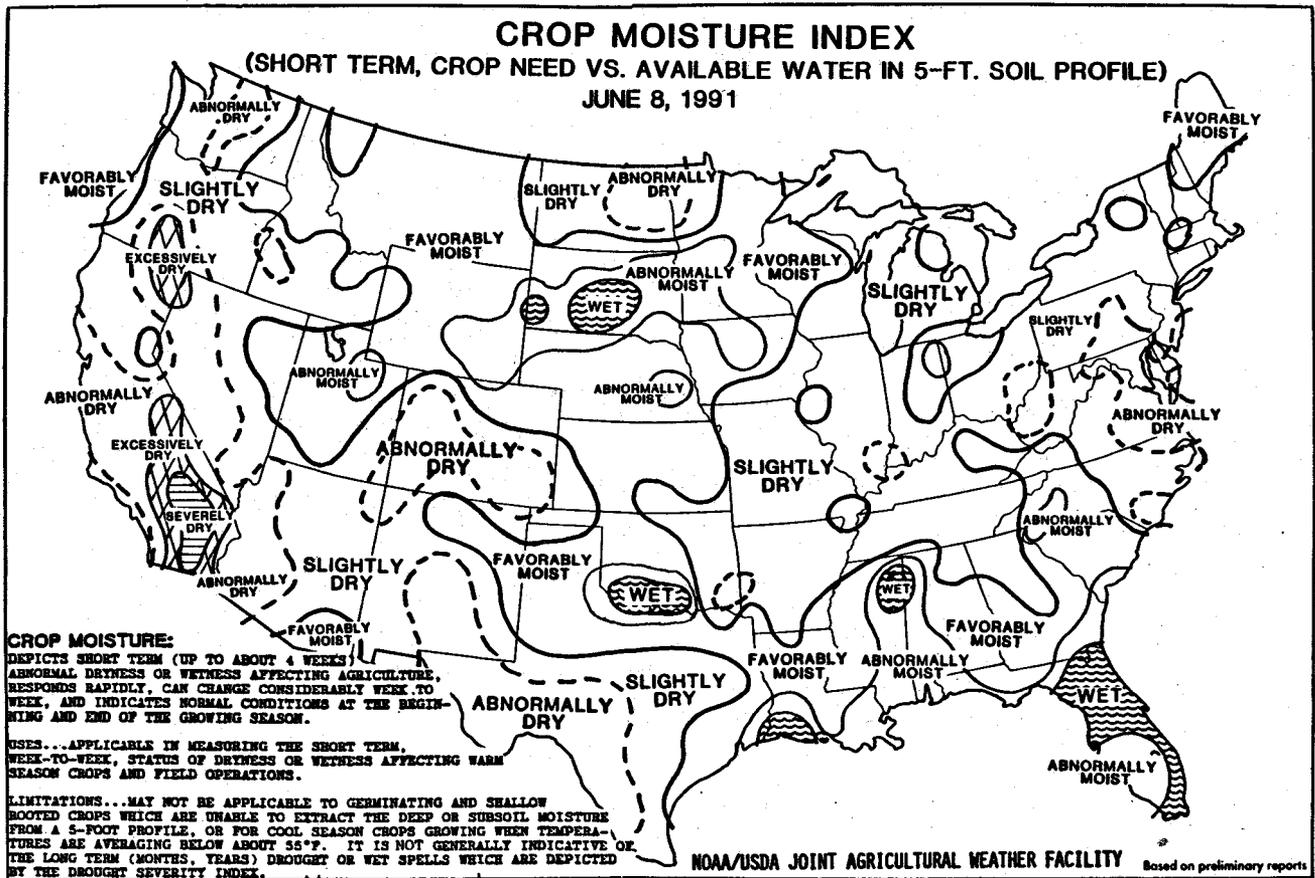
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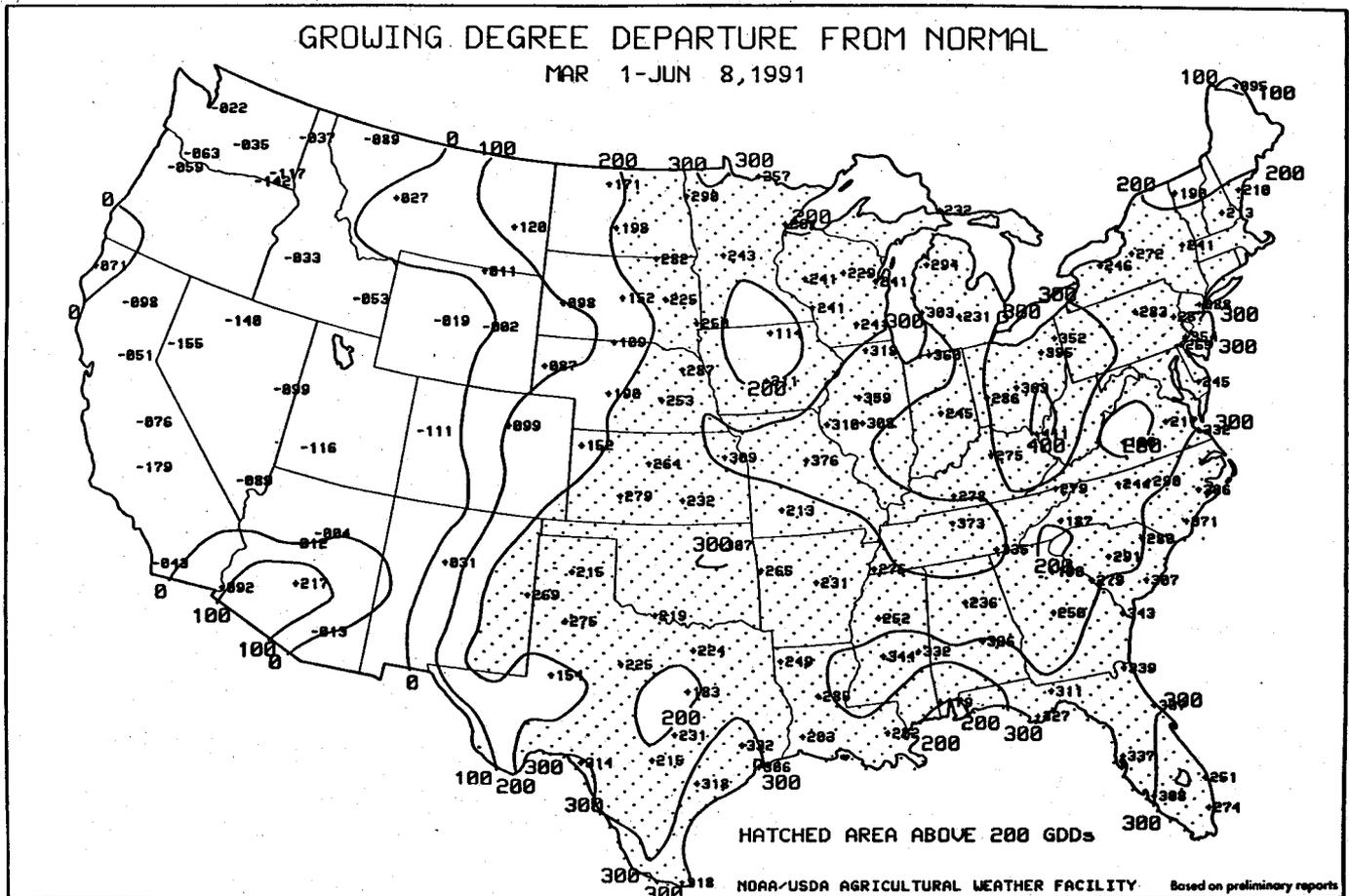
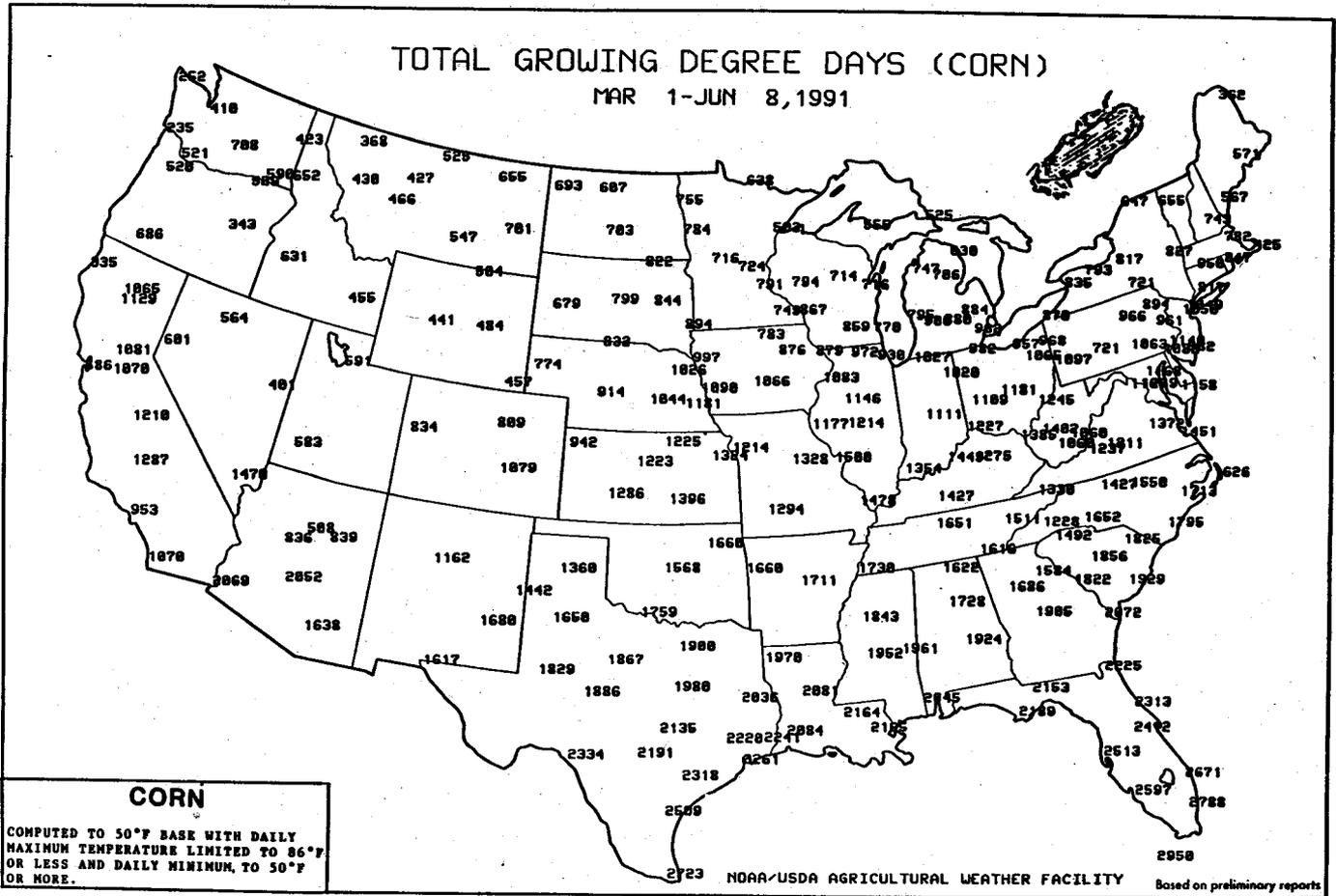


Extreme Maximum Temperature(°F)

JUN 2- 8, 1991







National Weather Data for Selected Cities

Weather Data for the Week Ending June 8, 1991

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	92 AND BELOW	.01 INCH OR MORE
															.50 INCH OR MORE					.50 INCH OR MORE
AL BIRMINGHAM	87	65	94	55	76	1	.3	-.7	.2	.5	50	26.6	99	91	45	3	0	1	0	
MOBILE	89	69	94	64	79	0	.4	-.5	.3	31	50.1	180	87	45	3	0	3	0		
MONTGOMERY	88	66	95	57	77	0	1.1	-.3	.8	1.1	122	38.7	163	91	47	3	0	2	1	
AK ANCHORAGE	58	44	63	41	51	-1	T	-.2	T	5	2.1	56	84	49	0	0	1	0		
BARROW	36	27	43	24	32	2	T	-.1	T	0	.4	45	96	72	0	7	0	0		
FAIRBANKS	70	48	74	44	59	2	.2	.0	.3	107	4.0	161	82	33	0	0	3	0		
JUNEAU	55	42	62	36	49	-2	1.6	1.0	1.0	210	25.8	145	98	59	0	0	4	2		
KODIAK	50	42	57	38	46	-1	1.5	.5	.9	1.5	127	40.8	164	94	69	0	0	4	1	
WOME	61	42	70	36	51	9	-.1	-.1	-.1	.2	74	3.3	102	84	45	0	0	2	0	
AZ PHOENIX	100	73	106	66	86	3	.0	.0	.0	0	3.2	131	32	12	6	0	0	0	0	
PRESCOTT	81	46	87	39	64	0	.0	.0	.0	.2	>1000	6.3	105	61	21	0	0	0	0	
TUCSON	97	59	104	52	78	-2	T	.0	T	.2	>1000	3.5	137	34	10	6	0	0	0	
YUMA	100	72	106	69	86	2	.0	.0	.0	0	1.8	203	33	14	7	0	0	0	0	
AR FORT SMITH	86	66	91	64	76	1	.5	-.5	.3	.5	43	18.2	100	94	51	1	0	2	0	
LITTLE ROCK	89	69	91	65	79	3	.2	-.8	.2	.2	15	25.5	106	81	49	4	0	1	0	
CA BAKERSFIELD	93	62	96	58	78	2	.0	.0	.0	.0	0	4.6	119	42	22	7	0	0	0	
EUREKA	57	46	59	42	52	-2	.0	.0	.0	0	16.0	73	90	67	0	0	0	0	0	
FRESNO	92	60	95	58	76	4	.0	.0	.0	.0	0	8.5	122	58	17	7	0	0	0	
LOS ANGELES	66	56	67	55	61	-4	.0	.0	.0	0	7.9	95	89	66	0	0	0	0	0	
REDDING	89	60	96	54	75	1	.0	.0	.0	.0	0	17.2	71	60	17	3	0	0	0	
SACRAMENTO	89	53	98	47	71	2	.0	.0	.0	.0	0	10.2	96	85	25	3	0	0	0	
SAN DIEGO	88	58	70	55	63	-2	.0	.0	.0	.0	0	10.5	163	84	62	0	0	0	0	
SAN FRANCISCO	70	50	76	47	60	0	.0	.0	.0	.0	0	10.9	89	89	50	0	0	0	0	
CO DENVER	77	51	86	49	64	0	.8	.4	.7	1.7	361	7.6	108	89	33	0	0	3	1	
GRAND JUNCTION	81	54	91	50	68	-1	.2	.1	.1	.2	136	3.0	88	65	25	1	0	4	0	
FURDO	82	50	88	45	66	-2	.9	.6	.9	.9	300	3.3	84	85	26	0	0	1	1	
CT BRIDGEPORT	76	57	84	52	66	1	.9	.2	.8	.9	117	16.7	92	88	44	0	0	2	0	
HARTFORD	78	52	87	47	65	-1	.2	-.6	.2	.2	24	17.7	93	92	37	0	0	2	0	
DC WASHINGTON	81	63	88	57	72	0	.2	-.6	.2	.6	73	11.8	73	85	42	0	0	1	0	
FL APALACHICOLA	87	70	94	63	78	0	.8	-.2	.8	.8	71	56.8	307	92	55	2	0	1	1	
DAYTONA BEACH	86	72	92	70	79	1	6.2	4.8	4.5	6.3	406	30.7	196	95	61	2	2	6	2	
JACKSONVILLE	85	68	96	62	77	-2	6.4	5.2	2.3	6.4	449	41.2	221	96	54	2	2	5	4	
KEY WEST	89	77	90	72	83	0	1.8	.6	1.2	1.8	133	16.7	151	84	56	2	0	4	2	
MIAMI	92	74	95	72	83	3	1.3	-.8	1.0	1.3	54	14.9	82	86	45	6	0	3	1	
ORLANDO	86	71	91	69	79	-2	1.1	-.4	.7	1.1	69	28.3	175	95	51	2	0	4	1	
TALLAHASSEE	89	66	97	57	78	0	1.0	-.4	.5	1.0	63	49.0	189	93	47	4	0	3	1	
TAMPA	87	72	90	67	79	-1	.1	-.9	-.1	.1	12	16.1	108	92	53	1	0	3	0	
WEST PALM BEACH	90	73	94	71	81	2	1.5	-.4	.8	1.5	70	38.7	201	93	50	5	0	3	1	
CA ATLANTA	84	65	93	60	75	1	.1	-.7	.1	1.0	117	28.4	116	83	41	2	0	1	0	
AUGUSTA	87	62	94	52	75	-1	T	-.9	T	.2	15	27.1	130	90	40	3	0	1	0	
MACON	86	64	94	53	75	-2	.1	-.7	.1	.7	74	30.1	136	93	43	3	0	2	0	
SAVANNAH	84	68	94	59	76	-2	.4	-.8	.4	.9	67	33.3	173	91	49	2	0	1	0	
HI HILO	81	67	83	65	74	0	2.6	1.1	1.7	3.0	178	73.1	121	93	66	0	0	7	1	
HONOLULU	86	72	88	71	79	1	T	-.1	T	T	18	10.6	83	78	49	0	0	1	0	
KAHULUI	85	67	87	63	76	0	T	-.1	T	T	0	7.9	69	84	55	0	0	0	0	
LIHUE	80	71	82	70	76	-1	2.7	2.3	1.6	2.7	544	18.8	89	89	65	0	0	5	3	
ID BOISE	73	45	85	38	59	-4	.1	-.2	.1	.1	30	5.3	84	79	27	0	0	1	0	
LEWISTON	69	48	83	40	58	-5	.4	.0	.2	.4	95	6.5	104	83	36	0	0	3	0	
POCATELLO	73	45	80	38	59	0	.5	.2	.3	.5	161	9.3	169	84	37	0	0	3	0	
IL CHICAGO	77	54	83	50	65	0	.0	-1.0	.0	.4	36	15.2	112	87	44	0	0	0	0	
MOLINE	84	57	91	50	70	2	.0	-1.0	.0	T	0	15.5	104	89	39	1	0	0	0	
PEORIA	82	60	88	54	71	2	.0	-.9	.0	.0	0	14.3	99	83	44	0	0	0	0	
QUINCY	81	62	88	56	71	2	.1	-.9	.1	.1	7	18.1	118	79	43	0	0	1	0	
ROCKFORD	81	56	86	50	69	2	.0	-1.0	.0	T	0	11.2	79	85	38	0	0	0	0	
SPRINGFIELD	84	60	91	54	72	2	.0	-.8	.0	.0	0	14.0	95	90	41	1	0	0	0	
IN EVANSVILLE	86	61	93	54	74	1	.0	-.8	.0	T	1	16.0	80	87	41	2	0	0	0	
FORT WAYNE	80	58	85	53	69	2	.6	-.3	.6	.6	59	20.4	136	83	40	0	0	1	1	
INDIANAPOLIS	80	60	90	55	70	1	T	-.9	T	T	2	18.9	111	84	40	1	0	1	0	
SOUTH BEND	80	56	85	51	68	2	.0	-.9	.0	.0	0	14.9	97	84	39	0	0	0	0	
IA DES MOINES	80	61	88	57	71	2	.2	-.8	.2	.5	40	20.9	166	86	48	0	0	1	0	
SIOUX CITY	79	61	87	57	70	1	1.3	.4	.8	1.9	173	12.1	120	91	57	0	0	3	1	
WATERLOO	81	57	87	51	69	3	.6	-.4	.6	1.0	94	22.4	176	91	44	0	0	1	1	
KS CONCORDIA	83	62	86	55	72	2	.1	-.9	.1	3.0	257	10.9	101	94	49	0	0	1	0	
DODGE CITY	84	60	91	56	72	0	.0	-.7	.0	.2	18	4.7	56	94	37	2	0	0	0	
GOODLAND	79	55	86	54	67	1	1.8	1.1	.9	1.9	247	8.2	125	96	49	0	0	3	2	
TOPEKA	83	64	87	57	73	2	T	-1.2	T	.1	8	14.6	116	93	51	0	0	2	0	
WICHITA	82	65	90	62	74	1	T	-.9	T	.3	28	8.0	73	92	48	1	0	1	0	
KY BOWLING GREEN	83	62	91	55	73	0	.0	-1.0	.0	.5	39	23.8	101	93	54	1	0	0	0	
LEXINGTON	81	59	87	53	70	0	1.2	-.2	1.1	1.7	153	20.6	98	89	45	0	0	2	1	
LOUISVILLE	86	63	94	56	74	3	T	-.8	T	T	0	18.5	90	81	38	2	0	0	0	
LA ALEXANDRIA	91	72	95	64	82	3	T	-1.0	T	T	0	47.1	182	92	44	5	0	0	0	
BATON ROUGE	91	72	95	66	82	3	1.8	1.2	1.8	1.8	252	42.4	168	93	49	5	0	1	1	
LAKE CHARLES	88	71	92	66	79	1	1.6	-.6	.7	1.6	135	42.2	195	97	56	3	0	3	2	
NEW ORLEANS	91	72	97	67	81	2	.3	-.7	.3	.3	27	60.8	238	95	48	4	0	3	0	

Based on 1951-80 normals

Weather Data for the Week Ending June 8, 1991

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	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	91	69	95	64	80	2	T	-.9	T	T	T	0	48.3	223	93	45	5	0	0	0	0	
ME CARIBOU	70	46	84	40	58	0	T	-.7	T	T	T	1	14.1	108	83	38	0	0	0	1	0	
PORTLAND	74	51	84	47	62	3	T	-.8	T	T	T	6	22.2	116	82	41	0	0	0	3	0	
MD BALTIMORE	81	59	88	51	70	0	T	-.9	T	T	T	5	12.9	74	86	37	0	0	0	0	0	
SALISBURY	77	55	85	44	66	-3	T	-.6	T	T	T	35	17.9	98	99	49	0	0	0	2	0	
MA BOSTON	76	57	89	50	67	2	T	-.7	T	T	T	78	15.6	78	81	38	0	0	0	3	0	
CHATHAM	69	54	77	46	62	3	T	-.9	T	T	T	196	16.9	81	87	59	0	0	0	2	1	
MI ALPENA	76	50	81	46	63	4	T	-.7	T	T	T	0	13.3	121	95	40	0	0	0	0	0	
DETROIT	78	55	84	51	66	1	T	-.9	T	T	T	101	13.6	106	79	39	0	0	0	1	1	
FLINT	78	51	84	47	65	1	T	-.3	T	T	T	40	12.7	108	89	42	0	0	0	1	0	
GRAND RAPIDS	79	53	85	48	66	1	T	-.8	T	T	T	4	15.6	116	88	43	0	0	0	1	0	
HOUGHTON LAKE	76	52	84	47	64	4	T	-.4	T	T	T	52	15.0	141	82	43	0	0	0	1	0	
LANSING	77	49	82	44	63	0	T	-.5	T	T	T	39	12.4	107	97	44	0	0	0	1	0	
MARQUETTE	73	46	83	40	60	3	T	-.9	T	T	T	0	12.6	82	85	46	0	0	0	0	0	
MUSKEGON	79	53	83	48	66	3	T	-.5	T	T	T	6	13.6	106	92	43	0	0	0	1	0	
SAULT ST. MARIE	76	47	81	43	62	6	T	-.8	T	T	T	0	10.8	91	89	39	0	0	0	0	0	
MN ALEXANDRIA	76	58	80	54	67	5	T	-.5	T	T	T	52	10.4	117	90	49	0	0	0	2	0	
DULUTH	73	49	80	42	61	5	T	-.8	T	T	T	4	12.3	122	87	44	0	0	0	1	0	
INT'L FALLS	79	52	83	46	66	7	T	-.8	T	T	T	20	9.6	128	86	39	0	0	0	0	0	
MINNEAPOLIS	79	60	84	55	70	4	T	-.9	T	T	T	2	13.7	143	84	47	0	0	0	0	0	
ROCHESTER	79	56	86	50	68	4	T	-.9	T	T	T	16	13.2	130	88	45	0	0	0	0	0	
MS GREENWOOD	91	70	96	64	80	3	T	-.5	T	T	T	36	39.5	145	92	50	4	0	0	1	0	
JACKSON	90	69	94	60	79	2	T	-.5	T	T	T	32	41.1	157	99	47	4	0	0	1	0	
MERIDIAN	90	68	95	60	79	2	T	-.7	T	T	T	3	40.5	152	90	42	3	0	0	1	0	
MO CAPE GIRARDEAU	87	66	94	57	76	1	T	-.3	T	T	T	33	19.7	93	89	39	3	0	0	1	0	
COLUMBIA	84	62	89	55	73	2	T	-.9	T	T	T	8	12.5	76	87	45	0	0	0	0	0	
KANSAS CITY	81	62	86	56	72	-1	T	-.6	T	T	T	117	14.1	100	94	57	0	0	0	1	1	
SAINT LOUIS	87	67	93	61	77	5	T	-.8	T	T	T	1	12.9	85	73	37	3	0	0	1	0	
SPRINGFIELD	82	61	87	54	72	1	T	-1.1	T	T	T	0	15.8	94	93	50	0	0	0	0	0	
MT BILLINGS	75	54	78	51	64	4	T	-.9	T	T	T	224	9.5	125	92	48	0	0	0	5	2	
GLASGOW	77	59	82	54	68	7	T	1.5	T	T	T	2.0	317	5.8	149	91	42	0	0	6	2	
GREAT FALLS	68	48	81	43	58	-1	T	-.2	T	T	T	114	6.1	82	87	45	0	0	0	3	1	
HAVER	74	52	81	47	63	2	T	-.1	T	T	T	4	6.8	134	88	45	0	0	0	3	0	
HELENA	70	48	83	43	59	2	T	-.6	T	T	T	1.1	191	4.8	93	84	41	0	0	0	5	1
KALISPELL	65	45	77	30	55	0	T	-.1	T	T	T	6	95	6.7	97	89	42	0	1	4	0	
MILES CITY	80	61	83	57	71	8	T	-.4	T	T	T	1.1	139	8.9	143	88	49	0	0	0	3	1
MISSOULA	68	47	83	43	58	1	T	-.6	T	T	T	1.1	200	5.7	94	86	40	0	0	0	3	1
NE GRAND ISLAND	81	61	87	56	71	3	T	1.0	T	T	T	1.0	4.4	424	15.8	155	91	52	0	0	1	1
LINCOLN	84	63	92	57	74	4	T	-.3	T	T	T	1.7	157	10.9	97	91	46	2	0	2	2	
NORFOLK	80	62	86	57	71	3	T	4.4	T	T	T	5.4	486	19.3	196	90	53	0	0	0	1	1
NORTH PLATTE	78	57	82	50	68	3	T	-.3	T	T	T	9	90	10.8	133	97	54	0	0	0	3	0
OMAHA	79	62	86	58	71	1	T	1.4	T	T	T	2.3	201	17.1	144	87	56	0	0	0	2	2
SCOTTSDUFF	75	52	84	47	64	0	T	1.6	T	T	T	1.6	198	8.5	126	96	48	0	0	0	4	1
VALENTINE	79	57	87	52	68	3	T	1.8	T	T	T	2.2	268	12.2	171	95	53	0	0	0	4	1
NV RLY	73	40	79	33	56	1	T	-.2	T	T	T	2	183	5.8	128	86	32	0	0	0	4	0
LAS VEGAS	94	68	100	61	81	1	T	-.0	T	T	T	2	>1000	2.0	116	38	17	6	0	0	0	0
RENO	82	43	87	36	63	3	T	-.1	T	T	T	0	0	2.6	63	65	14	0	0	0	0	0
WINDHECCA	79	40	85	27	59	-1	T	-.2	T	T	T	0	4.0	99	73	16	0	1	0	0	0	0
NH CONCORD	76	47	85	42	61	-1	T	-.5	T	T	T	25	11.6	78	99	37	0	0	0	3	0	
NJ ATLANTIC CITY	77	52	85	43	65	-2	T	-.7	T	T	T	101	16.5	93	97	49	0	0	0	1	1	
NM ALBUQUERQUE	84	53	91	46	69	-3	T	-.1	T	T	T	11	2.0	90	59	16	1	0	0	1	0	
CLOVIS	85	59	94	57	72	0	T	-.8	T	T	T	1.6	252	3.6	72	85	35	2	0	0	3	2
ROSWELL	91	61	97	56	76	0	T	-.5	T	T	T	7	323	2.3	92	60	20	4	0	0	1	1
NY ALBANY	77	50	83	44	64	-1	T	-.8	T	T	T	1	13.3	90	93	38	0	0	0	1	0	
BINGHAMTON	71	49	78	45	60	-2	T	-.9	T	T	T	101	14.7	99	94	42	0	0	0	3	1	
BUFFALO	77	53	84	48	65	2	T	-.5	T	T	T	15	19.2	128	85	38	0	0	0	1	0	
NEW YORK	78	62	85	54	70	2	T	-.8	T	T	T	1.5	184	16.2	89	77	38	0	0	0	3	1
ROCHESTER	77	51	83	47	64	0	T	-.7	T	T	T	0	14.1	107	90	38	0	0	0	0	0	0
SYRACUSE	76	51	80	48	63	0	T	-.7	T	T	T	10	15.9	102	94	42	0	0	0	1	0	
NC ASHEVILLE	78	56	88	46	67	-1	T	-.9	T	T	T	4	18.9	96	90	47	0	0	0	1	0	
CHARLOTTE	84	64	90	56	74	0	T	-.1	T	T	T	2.0	214	24.9	124	82	40	1	0	0	2	1
GREENSBORO	81	59	91	52	70	-1	T	-.7	T	T	T	68	24.6	135	87	43	1	0	0	1	1	
RATTERAS	80	66	89	54	73	1	T	-.8	T	T	T	13	22.7	107	86	55	0	0	0	3	0	
NEW BERN	83	63	92	57	73	-1	T	-.8	T	T	T	60	19.4	96	91	48	1	0	0	1	1	
RALEIGH	82	58	90	52	70	-2	T	-.4	T	T	T	1.5	154	14.8	82	91	41	1	0	0	1	0
WILMINGTON	85	63	92	57	74	-1	T	-.9	T	T	T	9	24.4	124	91	47	3	0	0	1	0	
ND BISMARCK	75	58	81	51	67	6	T	-.7	T	T	T	81	6.6	109	94	53	0	0	0	4	1	
FARGO	78	60	85	55	69	6	T	-.5	T	T	T	69	8.6	130	82	47	0	0	0	2	0	
GRAND FORKS	78	58	85	51	68	7	T	-.2	T	T	T	24	8.5	141	85	47	0	0	0	2	0	
WILLISTON	78	59	83	52	68	7	T	-.3	T	T	T	9	129	6.1	115	92	46	0	0	0	2	1
OH AKRON-CANTON	78	55	84	52	67	2	T	-.7	T	T	T	1	11.6	74	89	35	0	0	0	1	0	
CINCINNATI	81	59	88	53	70	1	T	-.3	T	T	T	6	61	20.7	114	84	43	0	0	0	1	1
CLEVELAND	75	54	81	51	65	-1	T	-.3	T	T	T	3	34	15.9	105	91	40	0	0	0	1	0
COLUMBUS	81	58	90	52	69	1	T	1.3	T	T	T	1.3	129	16.2	100	87	40	1	0	0	1	1

Based on 1951-80 normals

Weather Data for the Week Ending June 8, 1991

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	TEMP. °F		PRECIP.	
																			90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	80	57	90	52	69	0	.1	-8	.1	.1	13	19.5	123	85	39	1	0	1	0	0	0	
TOLEDO	78	54	84	50	66	.2	.2	-6	.2	.2	23	13.6	103	91	46	0	0	1	0	0	0	
YOUNGSTOWN	78	48	83	42	63	-1	T	-8	T	T	0	10.8	68	94	36	0	0	0	0	0	0	
OK OKLAHOMA CITY	81	65	88	61	73	-2	1.5	.5	1.1	2.6	214	13.5	98	95	58	0	0	3	1	0	1	
TULSA	84	67	91	66	76	1	2.4	1.3	1.2	3.0	226	13.5	81	92	52	1	0	4	2	0	2	
OR ASTORIA	58	46	65	40	52	-3	.1	-6	.0	.1	11	33.2	98	94	68	0	0	2	0	0	0	
BURNS	63	40	81	33	51	-6	.6	.4	.4	.6	295	4.1	81	81	37	0	0	2	0	0	0	
MEDFORD	78	44	85	37	61	-1	.0	-2	.0	.0	0	8.6	88	87	27	0	0	0	0	0	0	
FENDLETON	68	46	79	35	57	-6	1.1	.9	1.0	1.1	457	7.5	122	80	37	0	0	2	1	0	1	
PORTLAND	67	48	73	43	58	-2	.1	-3	.1	.1	17	18.4	100	84	48	0	0	1	0	0	0	
SALEM	69	44	74	33	56	-3	.1	-3	.1	.1	20	19.8	96	94	48	0	0	1	0	0	0	
PA ALLENTOWN	78	53	85	48	65	-1	.1	-6	.1	.1	16	13.8	74	92	38	0	0	2	0	0	0	
ERIE	75	54	79	49	64	2	.0	-9	.0	.4	40	12.2	82	86	41	0	0	0	0	0	0	
HARRISBURG	80	56	86	49	68	0	.0	-7	.2	.2	20	13.4	79	87	33	0	0	2	0	0	0	
PHILADELPHIA	82	60	91	53	71	2	.3	-6	.3	.2	25	13.9	80	86	31	1	0	1	0	0	0	
PITTSBURGH	78	56	84	49	67	1	T	-8	T	T	0	13.2	80	82	38	0	0	0	0	0	0	
SCRANTON	76	50	82	47	63	-2	.2	-6	.1	.2	21	11.5	82	90	36	0	0	2	0	0	0	
RI PROVIDENCE	75	54	87	46	64	0	.3	-4	.3	.3	40	20.8	103	88	40	0	0	2	0	0	0	
SC CHARLESTON	84	67	92	60	76	0	.1	-1.3	.1	.8	53	24.2	124	87	47	2	2	2	0	0	0	
COLUMBIA	86	64	93	53	75	0	.1	-8	.1	1.5	139	28.1	127	88	38	3	2	1	0	0	0	
FLORENCE	85	63	91	54	74	0	T	-1.0	T	.9	79	18.0	98	86	38	2	0	0	0	0	0	
GREENVILLE	83	61	89	54	72	-1	.1	-9	.1	.1	17	25.0	104	86	44	0	0	1	0	0	0	
SD ABERDEEN	76	60	81	57	68	5	1.1	.3	.7	1.1	126	13.7	185	90	59	0	0	3	1	2	1	
HURON	78	61	83	59	69	5	1.3	.5	.7	4.5	501	15.4	195	88	52	0	0	2	2	1	2	
RAPID CITY	75	54	79	52	65	3	1.2	.7	.7	1.5	166	10.6	142	96	64	0	0	5	5	1	2	
SIoux FALLS	78	61	88	59	70	4	2.3	1.4	1.6	2.3	227	12.1	127	90	51	0	0	2	2	1	2	
TN CHATTANOOGA	87	65	94	57	76	3	.8	.0	.7	.8	92	29.6	115	92	42	3	0	2	2	1	1	
KNOXVILLE	83	62	89	56	72	0	1.1	.0	1.0	1.3	131	24.3	106	91	46	0	0	2	2	1	1	
MEMPHIS	89	70	94	66	80	3	T	-9	T	T	0	37.3	143	83	42	3	0	0	0	0	0	
NASHVILLE	87	67	94	61	77	3	T	-9	T	T	4	21.6	90	85	46	0	0	0	0	0	0	
TX ABILENE	84	63	93	60	74	-4	6.5	5.8	1.7	6.5	861	12.6	134	94	53	2	0	6	1	5	0	
AMARILLO	81	58	89	56	70	0	.7	-2	.6	1.5	164	5.9	89	95	37	0	0	2	2	1	1	
AUSTIN	90	71	94	66	81	1	1.5	.7	.9	1.5	154	23.5	168	94	54	4	0	2	2	2	0	
BRAUNSWORTH	91	74	95	72	82	3	.8	-3	.4	.8	61	42.5	195	94	59	5	0	2	0	0	0	
BROWNSVILLE	94	77	95	74	86	4	T	-6	T	T	4	16.4	213	92	48	7	0	1	0	0	0	
CORPUS CHRISTI	91	75	94	72	83	2	.6	-4	.6	.6	50	16.1	158	95	56	6	0	1	1	1	1	
DEL RIO	93	71	96	67	82	0	1.5	1.1	1.2	1.5	308	7.1	111	75	40	6	0	2	1	1	1	
EL PASO	91	56	96	51	74	-6	T	-1	T	T	0	1.8	115	50	11	4	0	0	0	0	0	
FORT WORTH	88	67	94	63	78	-1	2.4	1.7	1.9	2.4	309	19.6	130	95	53	4	0	4	1	0	1	
GALVESTON	87	78	90	76	83	3	.1	-7	.1	.1	9	31.7	221	83	67	1	0	3	0	0	0	
HOUSTON	91	73	94	69	82	2	1.2	.1	.8	1.2	98	30.7	160	99	56	5	0	2	1	1	1	
LUBBOCK	85	61	96	59	73	-2	2.1	1.4	1.0	2.1	276	5.8	94	99	40	2	0	4	2	1	1	
MIDLAND	91	65	96	60	78	0	1.0	.6	.8	1.0	236	3.6	76	90	31	4	0	2	1	1	1	
SAN ANGELO	87	65	93	61	76	-3	3.5	3.0	2.1	3.5	609	8.1	116	93	51	3	0	5	2	0	0	
SAN ANTONIO	93	72	96	66	82	2	.1	-7	.1	.1	10	18.8	157	92	47	5	0	3	0	0	0	
VICTORIA	91	73	96	68	82	2	.6	-5	.4	.6	47	27.9	202	97	55	5	0	3	0	0	0	
WACO	90	67	95	64	79	-1	1.5	.7	.6	1.5	165	15.6	103	96	52	4	0	4	2	0	0	
WICHITA FALLS	85	66	95	62	75	-3	2.7	1.9	1.3	2.7	295	11.2	94	96	56	2	0	5	3	0	0	
UT CEDAR CITY	77	48	83	41	63	0	.2	.1	.1	.3	282	4.3	97	73	29	0	0	2	0	0	0	
SALT LAKE CITY	74	53	82	47	63	-1	.9	.6	.9	1.1	357	9.4	113	82	43	0	0	1	1	1	1	
VT BURLINGTON	75	48	84	42	61	-1	T	-8	T	T	1	11.3	91	97	37	0	0	1	0	0	0	
VA NORFOLK	78	63	86	55	70	-2	.5	-3	.4	1.2	131	18.4	101	96	52	0	0	2	0	0	0	
RICHMOND	81	58	89	50	70	-2	1.0	.3	.8	1.0	118	13.4	78	93	42	0	0	2	1	0	0	
ROANOKE	80	56	89	50	68	-2	.3	-5	.3	.3	38	18.9	110	89	41	0	0	1	0	0	0	
WA QUILLAYUTE	60	45	72	41	53	-1	.3	-5	.3	.3	37	48.8	94	97	60	0	0	2	0	0	0	
SEATTLE-TACOMA	63	49	70	42	56	-3	.1	-3	.1	.1	24	21.8	120	86	54	0	0	1	0	0	0	
SPOKANE	66	45	78	35	56	-3	.4	.1	.2	.4	103	8.2	100	80	36	0	0	3	0	0	0	
YAKIMA	71	45	81	36	58	-3	.8	.7	.4	.8	519	3.4	88	85	32	0	0	3	0	0	0	
WV BECKLEY	75	52	84	44	63	0	.2	-7	.2	.2	20	18.2	98	94	49	0	0	1	0	0	0	
CHARLESTON	81	57	90	50	69	0	.3	-4	.3	.3	33	17.0	92	92	40	1	0	2	0	0	0	
HUNTINGTON	82	58	89	53	70	0	.5	-2	.5	.8	93	19.3	105	90	39	0	0	1	1	1	1	
PARKERSBURG	80	56	89	48	68	-1	.9	.0	.9	.9	87	17.2	102	94	41	0	0	1	1	1	1	
WI GREEN BAY	76	53	83	49	64	2	.4	-3	.4	.4	52	9.5	88	89	46	0	0	1	0	0	0	
LACROSSE	80	57	86	53	69	3	T	-1.0	T	.1	6	16.5	145	90	44	0	0	0	0	0	0	
MADISON	79	51	85	44	65	1	.0	-9	.0	.1	12	13.0	112	89	44	0	0	0	0	0	0	
MILWAUKEE	71	56	77	52	63	1	T	-8	T	.6	65	14.5	117	81	53	0	0	1	0	0	0	
WAUSAU	77	53	80	49	65	3	.0	-9	.0	.1	10	13.7	120	94	45	0	0	0	0	0	0	
WY CASPER	73	49	79	46	61	2	.6	.3	.4	1.6	390	9.1	152	92	40	0	0	4	0	0	0	
CHEYENNE	68	47	76	43	57	-1	2.0	1.5	.9	3.2	567	9.1	153	93	49	0	0	6	2	0	0	
LANDER	72	49	77	45	60	2	.3	-2	.2	.6	122	9.5	125	85	42	0	0	2	0	0	0	
SHERIDAN	73	50	76	48	62	3	.4	-2	.2	.4	65	9.4	122	91	55	0	0	3	0	0	0	

Based on 1951-80 normals

May Weather and Crop Summary

Weather

Residents of the East will remember May 1991 for its exceptional heat, but those west of the Rockies endured cooler-than-normal weather. Plains dwellers kept a wary eye on the sky as strong thunderstorms developed almost daily. Isolated downpours threatened flash flooding throughout the Midwest and the Southeast.

Precipitation in May was plentiful along the primary storm track, which extended roughly from the Pacific Northwest to the Great Lakes. Thunderstorm outbreaks were common throughout the Plains, focusing along the convergence zone of dry air from the Western Plateau and moisture-laden air of Gulf of Mexico origin. Gulf-moistened air also contributed to above-normal rainfall in most of the Southeast. Among the areas garnering below-normal precipitation for May were the Southwest, the Rocky Mountain rain shadow (a narrow strip east of the Great Divide), and large portions of the Ohio Valley and the Northeast.

Prolonged warmth in the East--especially during the latter half of May--resulted in significant positive temperature anomalies. Departures exceeded +8° F in some Great Lakes States. Temperatures at most locations from the Plains eastward averaged greater than 2° F above normal. For the third month in a row, cooler-than-normal air was confined to the western third of the Nation. The Great Basin's temperature averaged about 4° F below normal in May.

Storm systems became less organized in May as the weather pattern evolved toward a summer-like air flow. But an early-month storm produced rain and snow from the Rockies eastward, pounding the rain-soaked lower Mississippi Valley especially hard. Denver, CO, and Rapid City, SD, reported about 6 inches of snow. A storm drenched the Oregon coast on the 7th before sliding into the northern Rockies and northern Plains. A subsequent system dropped significant rain from northern California to the western Corn Belt. Inland portions of the Pacific Northwest were deluged from the 16th through the 19th, contributing to snowmelt and runoff flooding. During the final 12 days of May, daily thunderstorm outbreaks affected parts of the Plains, Midwest, and Great Lakes. Although the storms were scattered, considerable localized flooding occurred. In the Southeastern and Gulf Coast States, convective outbreaks were observed on every day of the month.

Weather-weary Shreveport, LA, had its fourth wettest May on record (10.71 inches), pushing the year-to-date total rainfall (48.27 inches) past the normal annual total (43.84 inches). Montgomery, AL, was wet and cloudy in May, tying a record with an 83-percent cloud cover. Twelve inches of rain in Apalachicola, FL, were 417 percent of normal for the month, while yearly rainfall has reached 56 inches (319 percent of normal). Record or near-record monthly rainfall was also recorded at several sites in the northern Plains and the Pacific Northwest. In contrast, Norfolk, VA, had its third driest May on record (0.64 inches).

A bona fide heat wave scorched the East toward the end of the month. Record May warmth occurred in several locations from the Northeast to the central Appalachians, and in the upper Midwest. The new record high monthly mean temperature of 68.7° F in New York City topped a record that had stood for 111 years. In Milwaukee, WI, the old record monthly mean of 62.1° F--set in 1896--was bested by

1.1° F. Cape Hatteras, NC, set 10 daily record highs in May; Beckley, WV, set 9. The mercury reached 90° F 12 times in Williamsport, PA (old mark, 6 times). And numerous cities in the East shattered alltime May high temperature records, including Philadelphia, PA (97° F), Washington, DC (99° F), and Norfolk, VA (100° F). Although it was only the second warmest May on record in Raleigh-Durham, NC, it marked the 17th consecutive month with an above-normal average temperature, dating back to January 1990.

Fieldwork

Frequent rain in the Mississippi Valley and Southeast delayed spring planting, and some flooding occurred in the lower Delta and Midwest. Mostly clear weather across the West allowed planting and early harvest activities to progress rapidly. Planting progress was behind normal in the Corn Belt, Delta, and Southeast, but ahead of normal in the Ohio Valley and most of the western half of the country.

Predominately wet weather during the early part of the month resulted in increased occurrence of foliar diseases in parts of the Corn Belt and Ohio Valley, and continuous wet field conditions stressed crops in the lower Mississippi Valley. Above-normal temperatures traversing the Nation in the latter half of the month promoted crop development.

Winter wheat maturity continued to progress ahead of schedule across most of the Nation and harvest got underway in the southernmost States. Heading advanced rapidly in the Midwest during the warm weather interval, but lagged behind normal in the Pacific Northwest. Condition of the 1991 winter wheat crop deteriorated during the month as disease problems intensified. At the end of May winter wheat condition rated fair to good for the Nation, but mostly poor in Arkansas and poor to fair in Illinois.

Spring wheat condition remained good in the five major producing States. Barley and oats harvests were underway in the East, while planting neared completion in the Northwest.

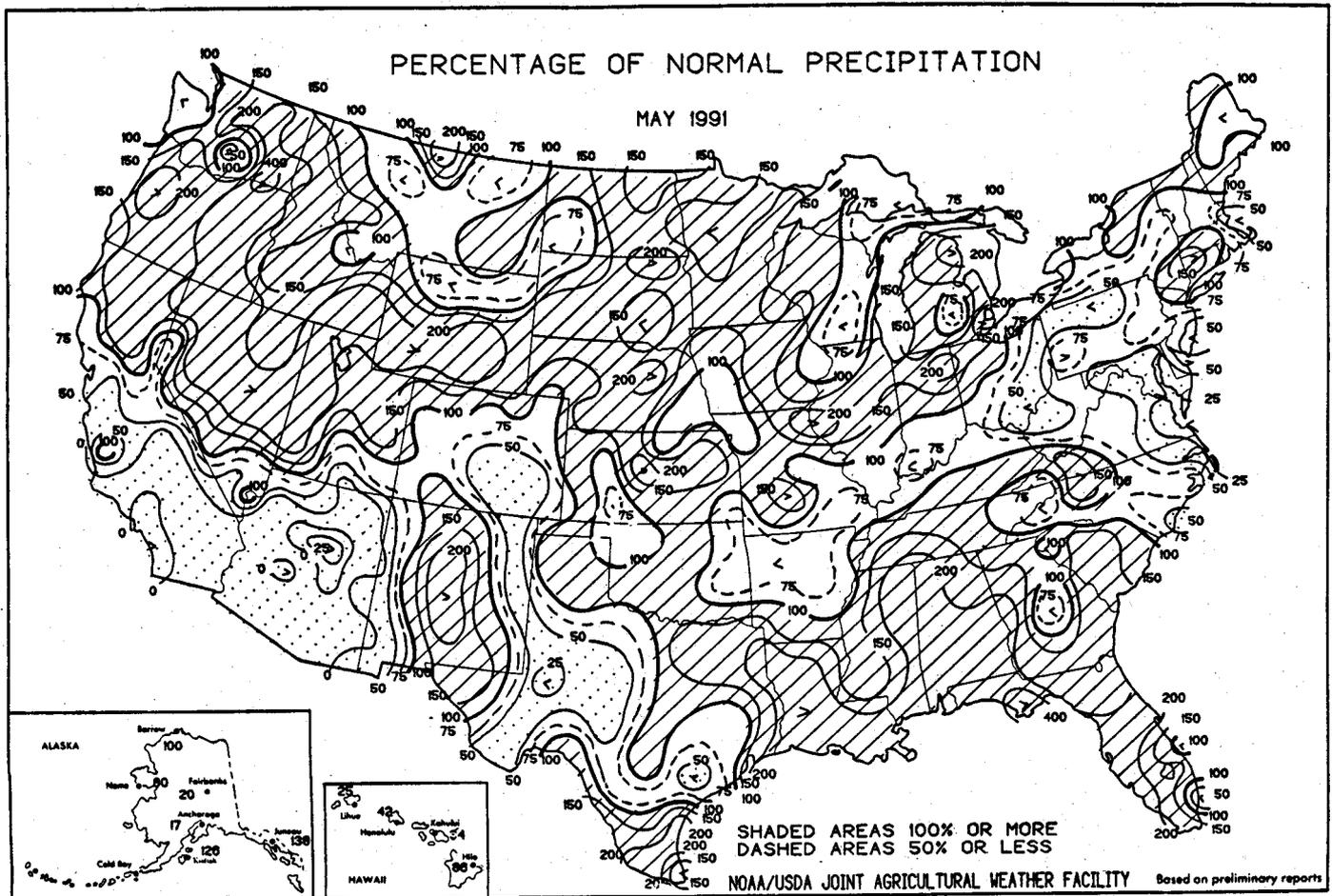
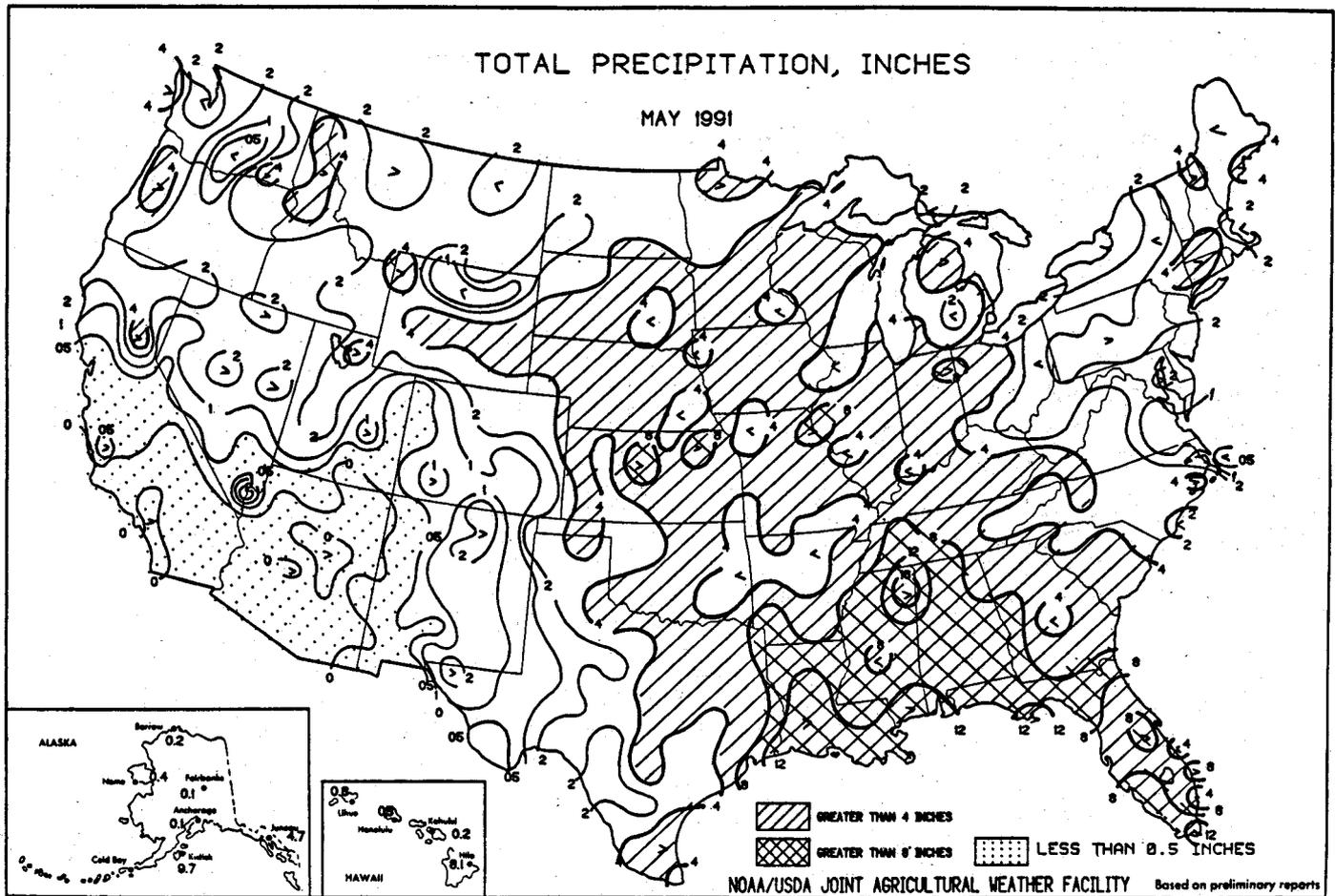
Corn planting was slowed by rains early in the month, but surged ahead with the clear weather at midmonth. Planting progress was ahead of normal from Illinois through the Ohio Valley, but behind normal in the western half of the Corn Belt. Planting progress in the 17 major producing States reached 92 percent (%) completion by June 2, 5 points ahead of last year but 3 points behind average. Iowa planting, at 82% complete, was 11 points behind last year and 15 points behind normal.

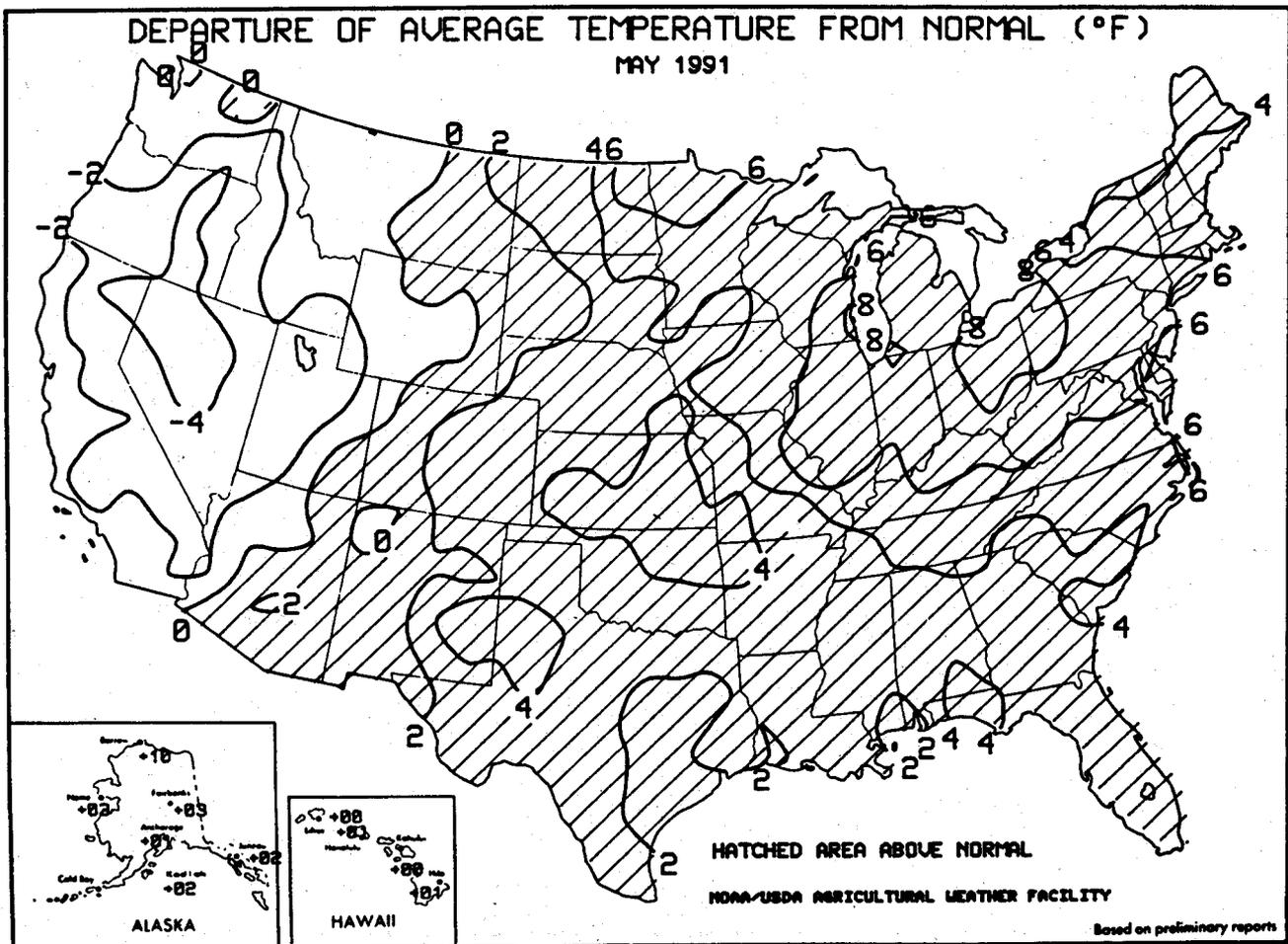
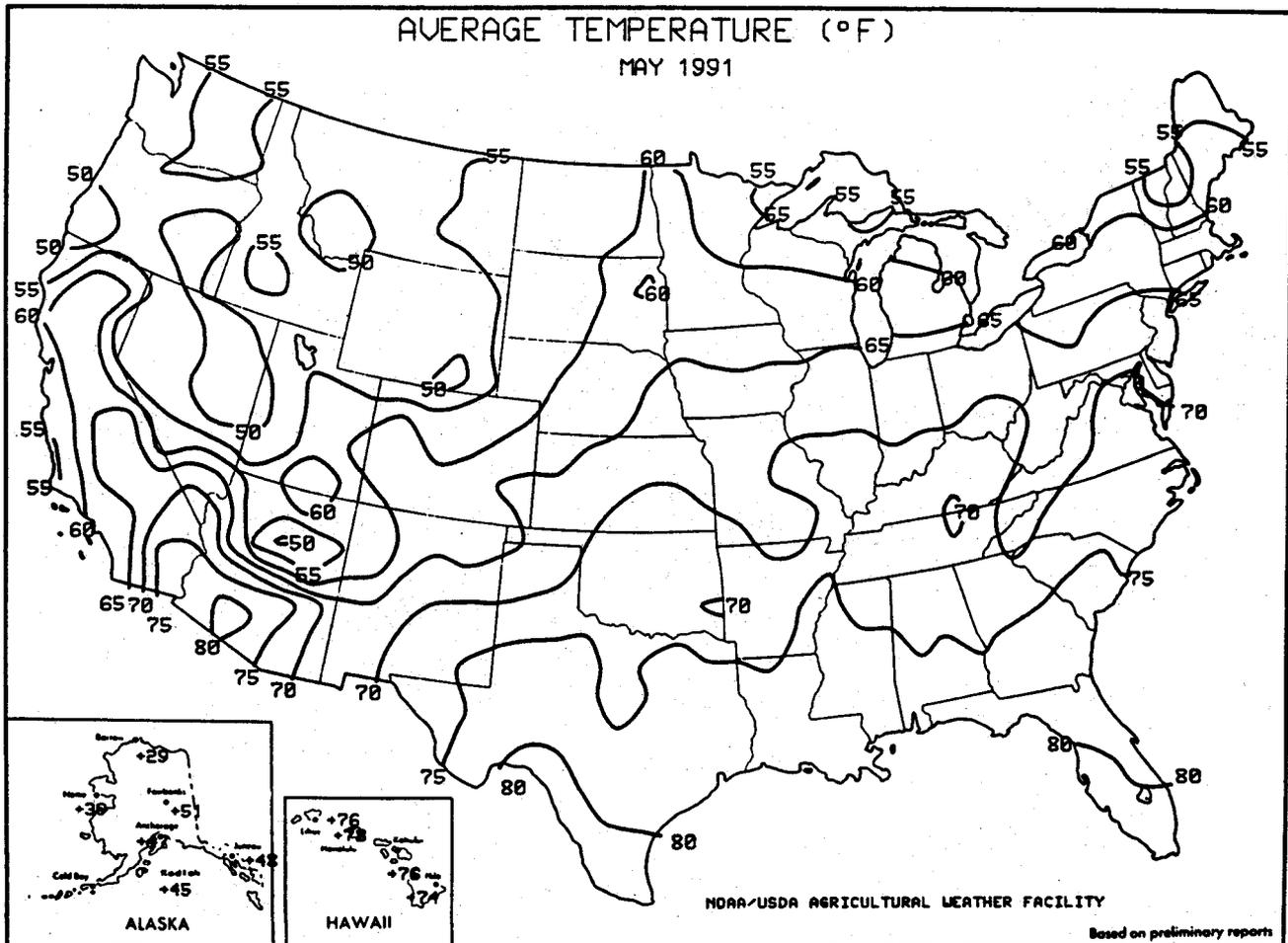
Soybean planting reached 56% completion by June 2, 9 points ahead of last year but 10 points behind normal. Planting progress was ahead of normal in the eastern half of the Corn Belt and Great Plains, but was behind normal in the rain plagued Mississippi Valley and the Southeast.

Progress of sorghum planting was behind normal in the Delta but was generally near normal elsewhere, reaching 57% completion by the end of the May.

Rains and wet field conditions across the Southeast and Delta regions held cotton planting to a minimum

(Continued to backcover)





TEMPERATURE AND PRECIPITATION SUMMARY

May 1991

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	73	3	8.9	4.4	LA ALEXANDRIA	77	2	11.6	6.4	TOLEDO	67	8	4.8	2.0
HUNTSVILLE	72	3	8.7	4.1	BATON ROUGE	77	2	10.6	5.8	YOUNGSTOWN	66	9	1.6	-1.7
MOBILE	76	1	15.0	9.6	LAKE CHARLES	76	1	14.8	9.2	OK OKLAHOMA CITY	72	4	6.4	1.0
MONTGOMERY	76	3	11.6	7.6	NEW ORLEANS	78	3	14.3	9.2	TULSA	74	5	5.1	0.0
AK ANCHORAGE	47	0	0.1	-0.4	SHREVEPORT	75	2	10.7	6.0	OR ASTORIA	51	-1	2.7	-0.1
BARROW	29	10	0.2	0.0	ME CARIBOU	53	3	3.5	0.7	BURNS	48	-4	1.9	1.1
FAIRBANKS	51	3	0.1	-0.5	PORTLAND	58	5	3.8	0.5	MEDFORD	55	-3	1.8	0.7
JUNEAU	48	2	4.7	1.3	MD BALTIMORE	71	7	1.2	-2.3	PENDLETON	54	-4	3.2	2.1
KODIAK	45	2	9.7	4.5	MD BALTIMORE	68	5	1.6	-1.7	PORTLAND	55	-2	3.3	1.2
KOME	39	3	0.4	-0.2	MA BOSTON	63	5	0.9	-2.6	SALEM	53	-2	4.5	2.6
AZ FLAGSTAFF	49	-1	0.1	-0.7	CHATHAM	57	4	1.5	-2.2	PA ALLENTOWN	67	7	2.9	-0.7
PHOENIX	80	3	0.0	-0.1	MI ALPENA	58	6	6.3	3.5	ERIE	65	9	1.0	-2.2
FRESNOCO	58	1	0.0	-0.5	DETROIT	67	8	6.2	3.4	HARRISBURG	69	7	3.2	-0.5
TUCSON	74	0	0.0	-0.1	FLINT	64	8	3.2	0.5	PHILADELPHIA	71	8	1.8	-1.3
WINSLOW	59	-3	0.1	-0.2	GRAND RAPIDS	65	7	4.4	1.6	PITTSBURGH	69	9	3.3	-0.2
YUMA	78	0	0.0	0.0	HOUGHTON LAKE	61	8	5.0	2.4	SCRANTON	66	7	2.8	-0.3
AR FORT SMITH	73	4	3.4	-1.4	LANING	64	7	1.7	-0.6	WILLIAMSPORT	67	8	1.8	-1.9
LITTLE ROCK	74	3	3.3	-1.9	MARQUETTE	56	5	2.6	-1.4	RI PROVIDENCE	64	6	3.3	-0.2
CA BAKERSFIELD	66	-4	T	-0.2	MUSKOGON	63	7	3.5	1.0	SC CHARLESTON	76	4	5.4	1.0
BISHOP	58	-4	T	-0.3	SAULT ST. MARIE	56	6	1.6	-1.3	COLUMBIA	75	4	7.0	3.1
BUREKA	52	0	2.2	0.7	MI ALEXANDRIA	61	6	3.2	0.2	FLORENCE	75	4	2.9	-0.4
FRESNO	66	-2	T	-0.3	DULUTH	55	5	6.1	2.9	GREENVILLE	71	3	6.4	2.5
LOS ANGELES	60	-2	T	-0.1	INT'L FALLS	58	7	4.1	1.7	SD ABERDEEN	61	5	7.4	4.8
REDDING	64	-5	2.1	0.8	MINNEAPOLIS	62	4	6.3	3.2	HURON	61	4	3.7	1.0
SACRAMENTO	63	-2	0.2	-0.1	ROCHESTER	61	4	3.8	0.4	RAPID CITY	57	1	4.4	1.8
SAN DIEGO	62	-2	T	-0.1	ST. CLOUD	61	5	5.1	1.8	SIoux FALLS	62	4	6.2	3.0
SAN FRANCISCO	57	-1	0.2	-0.1	GREENWOOD	75	3	8.1	3.3	TN BRISTOL	70	6	2.1	-1.5
STOCKTON	64	-2	0.1	-0.2	JACKSON	76	3	7.1	2.2	CHATTANOOGA	73	5	4.6	0.6
CO ALAMOSA	52	2	0.2	0.0	MERIDIAN	76	4	9.0	4.8	KNOXVILLE	72	4	3.1	-0.6
CO. SPRINGS	58	2	0.8	-1.5	TUPELO	74	3	17.6	12.3	MEMPHIS	75	4	5.1	0.0
DENVER	60	3	2.4	-0.1	MO CAPE GIRARDEAU	--	--	4.3	-0.5	NASHVILLE	74	6	5.6	1.0
GRAND JUNCTION	62	0	0.2	-0.5	COLUMBIA	70	5	4.2	-0.4	TX ABILENE	75	3	1.1	-2.2
FUERO	64	3	0.7	-0.7	KANSAS CITY	68	2	3.9	-0.5	AMARILLO	68	3	3.1	0.3
CT BRIDGEPORT	64	6	3.8	0.4	SAINT LOUIS	73	7	3.7	-0.7	AUSTIN	77	2	4.0	-0.2
HARTFORD	66	6	5.2	1.8	SPRINGFIELD	69	4	5.6	1.3	BEAUMONT	78	3	13.1	8.2
DC WASHINGTON	73	7	1.6	-1.9	MT BILLINGS	55	0	2.3	-0.1	BROWNSVILLE	82	2	3.0	0.9
FL APALACHICOLA	78	4	12.1	9.2	GLASGOW	57	2	1.3	-0.3	CORPUS CHRISTI	79	1	6.2	2.9
DAYTONA BEACH	78	3	6.8	3.4	GREAT FALLS	51	-2	1.5	-1.0	DEL RIO	81	3	2.4	0.4
FT. MYERS	81	3	8.3	4.2	HAYRE	53	-2	3.6	2.0	EL PASO	73	0	0.2	0.0
JACKSONVILLE	79	4	9.4	5.1	HELENA	50	-1	1.7	0.5	FORT WORTH	75	2	7.0	2.6
KEY WEST	82	2	8.2	4.9	KALISPELL	57	0	2.3	0.7	GALVESTON	77	1	11.0	7.7
MIAMI	82	3	2.5	-4.0	MILES CITY	50	0	2.7	0.4	HOUSTON	78	3	4.0	-0.8
ORLANDO	80	2	9.5	5.5	MISSOULA	51	-1	2.3	0.7	LARDO	83	2	3.8	1.3
TALLAHASSEE	78	4	9.7	4.5	MI GRAND ISLAND	64	3	6.3	2.6	LUBBOCK	74	5	1.9	-0.7
TAMPA	81	4	6.9	3.5	LINCOLN	67	4	3.0	-0.9	MIDLAND	77	4	0.5	-1.5
WEST PALM BEACH	80	2	8.9	2.9	WORFOLK	64	4	7.6	3.9	SAN ANGELO	77	3	1.2	-1.4
GA ATHENS	72	3	5.8	1.0	NORTH PLATTE	62	4	5.4	2.0	SAN ANTONIO	78	2	5.3	1.6
ATLANTA	73	3	7.3	3.4	OMAHA	67	4	3.4	-0.9	VICTORIA	78	1	2.2	-2.3
AUGUSTA	75	4	5.8	2.1	SCOTTSBUFF	59	2	4.3	1.6	WACO	76	2	5.9	1.2
MACON	75	3	2.5	-1.3	VALENTINE	60	2	4.8	1.9	WICHITA FALLS	74	2	4.2	-0.1
SAVANNAH	77	4	7.1	2.5	NV ELKO	48	-4	1.7	0.7	UT BLANDING	--	--	0.5	-0.1
HI HILO	74	1	8.1	-1.3	ELY	46	-4	2.8	1.7	BLANDING CITY	53	-3	1.9	1.0
HONOLULU	78	1	0.5	-0.7	LAS VEGAS	70	-3	0.1	-0.1	SALT LAKE CITY	56	-3	2.8	1.3
KAHULUI	76	0	0.2	-0.5	RENO	52	-3	0.5	-0.2	VT BURLINGTON	59	4	3.2	0.2
LIHUE	76	0	0.8	-2.2	WINNEMUCCA	51	-4	1.7	0.9	VA LYNCHBURG	69	4	2.7	-1.0
ID BOISE	55	-2	1.6	0.4	NH CONCORD	60	5	2.5	-0.4	NORFOLK	73	6	0.6	-3.1
LEWISTON	56	-3	3.7	2.3	NJ ATLANTIC CITY	66	6	0.9	-2.2	RICHMOND	72	6	0.9	-2.6
POCATELLO	51	-3	3.0	1.8	NM ALBUQUERQUE	66	1	1.1	0.7	ROANOK	70	5	2.9	-0.6
IL CAIRO	--	--	4.1	-0.8	CLOVIS	71	5	0.8	-1.2	WA COLVILLE	51	-4	3.3	1.7
CHICAGO	66	7	5.2	2.1	ROSWELL	74	5	1.0	0.3	QUILLAYUTE	50	0	4.3	-0.9
MOLINE	67	6	3.9	-0.3	ALBANY	63	6	2.7	-0.6	SEATTLE-TACOMA	54	-1	1.4	-0.2
PEORIA	68	7	5.9	2.1	BINGHAMTON	62	6	1.9	-1.3	SPOKANE	52	-2	1.7	0.4
QUINCY	68	5	11.5	7.2	BUFFALO	64	8	3.1	0.2	WALLA WALLA	56	-4	6.6	5.2
ROCKFORD	66	6	2.7	-1.0	NEW YORK	69	7	3.0	-0.4	YAKIMA	55	-2	0.2	-0.3
SPRINGFIELD	69	6	5.7	2.3	ROCHESTER	63	6	2.4	-0.2	WV BECKLEY	67	7	2.2	-1.7
IN EVANSVILLE	71	5	3.1	-1.3	SYRACUSE	63	6	3.9	0.8	CHARLESTON	72	8	1.5	-2.2
FORT WAYNE	67	7	8.8	5.3	ASHEVILLE	67	4	2.4	-1.6	ELKINS	65	7	2.3	-1.5
INDIANAPOLIS	68	6	4.6	0.9	CHARLOTTE	74	6	2.9	-0.7	HUNTINGTON	72	7	1.2	-2.7
SOUTH BEND	67	8	4.0	1.2	GREENSBORO	71	5	3.9	0.5	PARKERSBURG	70	7	1.8	-1.7
IA DES MOINES	67	5	7.9	3.9	HAYTERAS	73	6	0.5	-3.5	WI GREEN BAY	61	6	2.4	-0.7
DUBUQUE	64	6	4.2	-0.2	NEW BERN	74	5	3.5	-0.9	LA CROSSE	64	5	6.9	3.3
SIoux CITY	65	3	3.9	0.5	RALEIGH	72	5	2.9	-0.8	MADISON	64	6	2.2	-1.1
WATERLOO	64	4	7.7	3.6	WILMINGTON	75	4	1.8	-2.5	MILWAUKEE	63	9	4.2	1.6
KS CONCORDIA	67	4	3.0	-1.0	BISMARCK	58	3	3.3	1.1	HANSAU	60	5	4.3	0.5
DODGE CITY	69	5	2.0	-1.2	FARGO	61	6	2.4	0.2	CASPER	52	-1	4.8	2.7
GOODLAND	62	4	4.0	1.1	GRAND FORKS	61	6	3.7	1.8	CHRYSTEN	53	0	3.8	1.4
TOPEKA	69	5	7.1	3.1	WILLISTON	57	3	2.6	0.8	LANDER	52	0	4.5	1.8
WICHITA	70	4	4.1	0.2	OH AKRON-CANTON	69	10	1.5	-2.0	SHERIDAN	53	0	2.7	0.3
KY BOWLING GREEN	72	5	5.5	1.3	CINCINNATI	70	7	3.4	-0.4	PR SAN JUAN	81	1	3.2	-2.7
JACKSON	71	9	5.0	1.5	CLEVELAND	67	8	3.2	0.0					
LEXINGTON	70	6	4.0	-0.3	COLUMBUS	71	9	2.5	-1.3					
LOUISVILLE	73	7	4.0	-0.1	DAYTON	69	7	4.2	0.6					
PADUCAH	73	6	4.3	-0.4	MANSFIELD	67	8	4.1	0.3					

Based on 1951-80 normals

Heating Degree Days (Base 65°) For

May 1991

States and Stations	TOTAL	Depart Normal	States and Stations	TOTAL	Depart Normal	States and Stations	TOTAL	Depart Normal
AL. Birmingham . . .	7	-29	MD. Baltimore . . .	55	-60	OK. Okla. City . . .	25	-16
Mobile . . .	0	0	MA. Boston . . .	126	-92	Tulsa . . .	17	-23
Montgomery . . .	0	-10	MI. Chatham . . .	263	-115	OR. Astoria . . .	435	38
AK. Anchorage . . .	563	-7	Alpena . . .	262	-157	Burns . . .	525	120
Barrow . . .	1138	3	Detroit . . .	124	-123	Medford . . .	313	68
Fairbanks . . .	421	9	Flint . . .	165	-123	Pendleton . . .	338	118
Nome . . .	804	-83	Grand Rapids . . .	157	-105	Portland . . .	310	47
AZ. Flagstaff . . .	476	8	Houghton Lake . . .	219	-145	Salem . . .	360	43
Phoenix . . .	0	0	Lansing . . .	171	-98	PA. Allentown . . .	92	-98
Tucson . . .	3	3	Marquette . . .	334	-135	Erie . . .	148	-175
Winslow . . .	197	65	S. Ste. Marie . . .	292	-188	Harrisburg . . .	69	-81
Yuma . . .	0	0	MN. Duluth . . .	332	-124	Philadelphia . . .	44	-83
AR. Fort Smith . . .	17	-16	Internatl Falls . . .	261	-178	Pittsburg . . .	63	-138
Little Rock . . .	11	-7	Minneapolis . . .	197	-41	Scranton . . .	113	-114
CA. Bakersfield . . .	69	-13	Rochester . . .	222	-55	RI. Providence . . .	121	-118
Eureka . . .	387	-10	St. Cloud . . .	219	-86	SC. Charleston . . .	0	-6
Fresno . . .	65	13	MS. Jackson . . .	2	-7	Columbia . . .	4	-18
Los Angeles . . .	145	39	Meridian . . .	1	-16	Greenville . . .	20	-21
Redding . . .	106	47	MO. Columbia . . .	49	-71	SD. Aberdeen . . .	205	-69
Stockton . . .	98	46	Kansas City . . .	62	-50	Huron . . .	203	-56
San Diego . . .	96	25	St. Louis . . .	21	-89	Rapid City . . .	269	-29
San Francisco . . .	244	18	Springfield . . .	48	-59	Sioux Falls . . .	192	-48
CO. Denver . . .	174	-79	MT. Billings . . .	311	-7	TN. Chattanooga . . .	7	-49
Pueblo . . .	103	-29	Glasgow . . .	273	-59	Knoxville . . .	16	-47
CO. Bridgeport . . .	106	-114	Great Falls . . .	417	48	Memphis . . .	7	-18
Hartford . . .	107	-90	Havre . . .	356	23	Nashville . . .	9	-46
DC. Washington . . .	22	-46	Helena . . .	373	-24	TX. Abilene . . .	12	1
FL. Apalachicola . . .	0	0	Kalispell . . .	442	23	Amarillo . . .	53	-39
Jacksonville . . .	0	0	Miles City . . .	257	-14	Austin . . .	1	1
Key West . . .	0	0	Missoula . . .	419	19	Beaumont . . .	0	0
Miami . . .	0	0	NE. Grand Island . . .	129	-40	Brownsville . . .	0	0
Orlando . . .	0	0	Lincoln . . .	104	-47	Corpus Christi . . .	0	0
W. Palm Beach . . .	0	0	Norfolk . . .	149	-32	Del Rio . . .	0	0
Tallahassee . . .	0	0	North Platte . . .	149	-86	El Paso . . .	3	3
Tampa . . .	0	0	Omaha . . .	118	-40	Fort Worth . . .	7	7
GA. Atlanta . . .	8	-29	Valentine . . .	207	-46	Galveston . . .	0	0
Augusta . . .	3	-14	NV. Ely . . .	580	118	Houston . . .	0	0
Macon . . .	2	-8	Las Vegas . . .	25	3	Lubbock . . .	18	-15
Savannah . . .	0	0	Reno . . .	404	71	Midland . . .	8	0
ID. Boise . . .	306	53	Winnemucca . . .	452	118	San Angelo . . .	8	3
Lewiston . . .	276	51	NH. Concord . . .	186	-128	San Antonio . . .	0	0
Pocatello . . .	425	77	NJ. Atlantic City . . .	119	-46	Victoria . . .	0	0
IL. Chicago . . .	142	-82	NM. Albuquerque . . .	60	-21	Waco . . .	7	7
Moline . . .	107	-70	NY. Albany . . .	141	-111	Wichita Falls . . .	15	-3
Peoria . . .	86	-90	Binghamton . . .	180	-133	UT. Salt Lake City . . .	289	69
Rockford . . .	146	-81	Buffalo . . .	141	-153	VT. Burlington . . .	206	-120
Springfield . . .	69	-80	New York . . .	51	-98	VA. Lynchburg . . .	37	-60
Fort Wayne . . .	100	-112	Rochester . . .	170	-104	Norfolk . . .	26	-27
Indianapolis . . .	71	-87	Syracuse . . .	153	-116	Richmond . . .	27	-38
South Bend . . .	106	-124	NC. Asheville . . .	53	-61	Roanoke . . .	36	-63
IA. Des Moines . . .	112	-53	Charlotte . . .	11	-39	WA. Quillayute . . .	447	13
Dubuque . . .	159	-76	Greensboro . . .	24	-49	Seattle-Tacoma . . .	322	9
Souix City . . .	148	-11	Hatteras . . .	0	-37	Spokane . . .	406	67
KS. Concordia . . .	79	-58	Raleigh . . .	18	-35	Walla Walla . . .	306	131
Dodge City . . .	58	-66	Wilmingon . . .	0	-10	Yakima . . .	306	52
Goodland . . .	138	-77	ND. Bismark . . .	253	-71	WV Beckley . . .	70	-116
Topeka . . .	48	-69	Fargo . . .	211	-100	Charleston . . .	21	-104
Wichita . . .	53	-36	Williston . . .	253	-82	Huntington . . .	25	-100
KY. Lexington . . .	34	-87	OH. Akron-Canton . . .	76	-152	WI. Green Bay . . .	220	-105
Louisville . . .	95	-3	Cincinnati . . .	44	-99	La Crosse . . .	76	-140
LA. Baton Rouge . . .	0	0	Cleveland . . .	111	-133	Madison . . .	73	-200
Lake Charles . . .	1	1	Columbus . . .	42	-136	Milwaukee . . .	201	-133
New Orleans . . .	0	0	Dayton . . .	59	-112	WY Casper . . .	406	22
Shreveport . . .	6	-3	Toledo . . .	115	-122	Cheyenne . . .	385	-12
ME. Caribou . . .	383	-76	Youngstown . . .	102	-165	Lander . . .	391	7
Portland . . .	236	-142				Sheridan . . .	367	-5

Based on 1951-80 normals.

May Weather in Historical Perspective

May 1991 was the fourth consecutive warmer-than-normal month for the Nation. It was the seventh warmest May since climatic recordkeeping began in 1895 (fig. 1). Both areally averaged and areally weighted standardized precipitation were significantly above normal, ranking as the 8th and 12th wettest May on record (table 1, fig. 2). The areally weighted precipitation index provides a more accurate comparison to the local normal climate. May 1991 represents the third consecutive wetter-than-normal month nationally.

The eastern half of the Nation had temperatures within the hottest 5 percent of historical rankings. This area includes the Northeast, Southeast, South, Central, and East North Central regions (fig. 3). Temperatures were slightly above normal in the West North Central and Southwest regions, but were substantially below normal in the two westernmost regions. In terms of precipitation, only the Northeast and Southwest regions were drier than normal. It was the fourth wettest May in the Southeast. Both the Northwest and West North Central regions had their 12th wettest May. Elsewhere, precipitation ranked slightly above normal.

For the first time since August 1987, more of the Nation is experiencing long-term wetness than long-term dryness (fig. 4). Currently, 14 percent of the Nation is in a state of long-term wetness, versus 12 percent in a long-term severe to extreme drought. Both the Great Lakes and lower Mississippi Valley drainage basins had their second wettest October-May period on record. In contrast, October 1990-May 1991 was the 17th driest such period in California.

Florida, Louisiana, and Mississippi had their wettest January-May on record (table 2). It has also been abnormally wet in Georgia, Iowa, Minnesota, and South Dakota. Maryland and Colorado top the list of driest ranking States for the same period. Numerous States from the central and northern Plains eastward had near-record warmth during the first 5 months of 1991 (table 3).

Tornadic activity was prevalent in May (fig. 5). Preliminary data indicate that 363 tornadoes were spotted (normal for May is 168), pushing the year-to-date total to 923, far beyond the mean of 356, and the former January-May record of 558 set in 1982.

TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR MAY 1991, BASED ON THE PERIOD 1895-1991. 1 = DRIEST/COLDEST, 97 = WETTEST/HOTTEST.

REGION	PRECIPITATION	TEMPERATURE
NORTHEAST	36	95
EAST NORTH CENTRAL	79	94
CENTRAL	62	95
SOUTHEAST	94	93
WEST NORTH CENTRAL	86	73
SOUTH	76	93
SOUTHWEST	35	56
NORTHWEST	86	15
WEST	65	12
NATIONAL	90	91

TABLE 2. PRECIPITATION RANKINGS FOR JAN-MAY 1991, BASED ON THE PERIOD 1895 TO 1991. 1 = DRIEST, 97 = WETTEST.

STATE	RANK	STATE	RANK	STATE	RANK	STATE	RANK
AL	96	IA	95	NE	69	RI	74
AZ	75	KS	42	NV	51	SC	79
AR	74	KY	58	NH	32	SD	94
CA	52	LA	97	NJ	55	TN	72
CO	14	ME	42	NM	35	TX	71
CT	65	MD	13	NY	60	UT	52
DE	46	MA	62	NC	55	VT	38
FL	97	MI	74	ND	76	VA	48
GA	94	MN	94	OH	37	WA	68
ID	30	MS	97	OK	20	WV	51
IL	69	MO	40	OR	37	WI	78
IN	57	MT	56	PA	23	WY	73

TABLE 3. TEMPERATURE RANKINGS FOR JAN-MAY 1991, BASED ON THE PERIOD 1895 TO 1991. 1 = COLDEST, 97 = WARMEST.

STATE	RANK	STATE	RANK	STATE	RANK	STATE	RANK
AL	75	IA	88	NE	91	RI	97
AZ	52	KS	94	NV	47	SC	94
AR	84	KY	95	NH	97	SD	90
CA	50	LA	73	NJ	97	TN	94
CO	70	ME	79	NM	70	TX	76
CT	97	MD	95	NY	96	UT	27
DE	94	MA	96	NC	95	VT	96
FL	96	MI	95	ND	92	VA	96
GA	85	MN	92	OH	96	WA	54
ID	70	MS	79	OK	96	WV	96
IL	93	MO	91	OR	46	WI	93
IN	94	MT	83	PA	96	WY	83

FIGURE 1

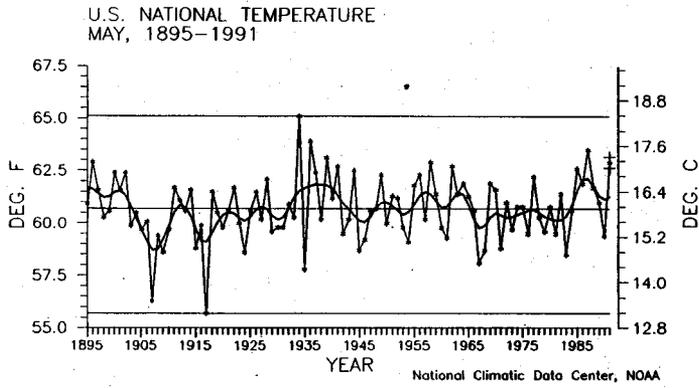


FIGURE 4

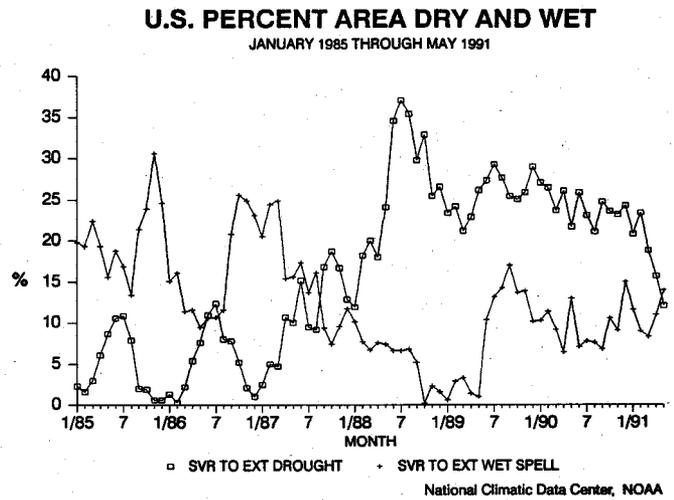


FIGURE 2

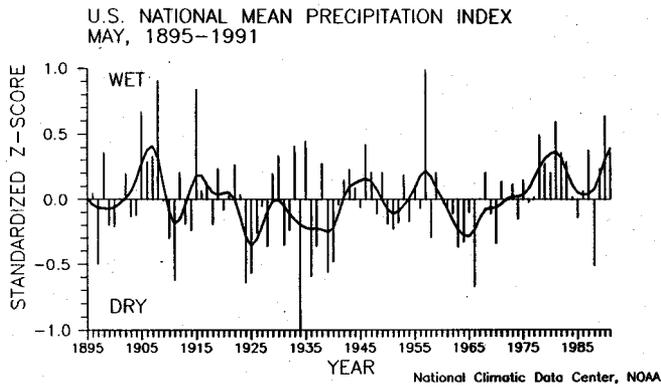


FIGURE 5

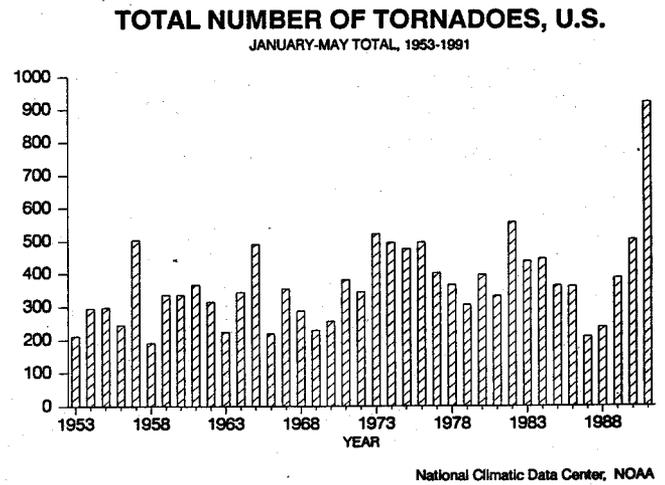
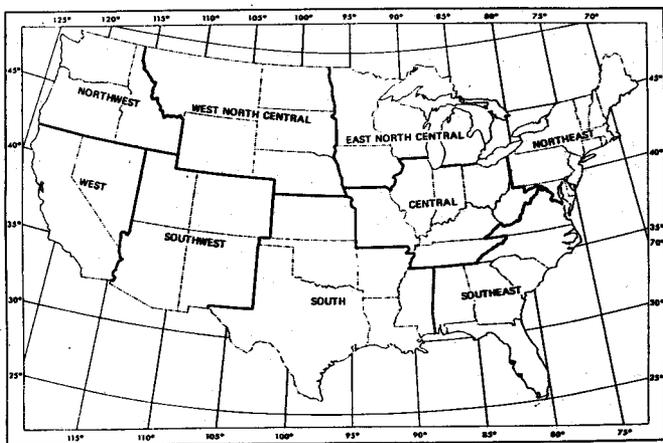


FIGURE 3



National Agricultural Summary

June 3 - 9, 1991

HIGHLIGHTS: Locally heavy rainfall in the Midwest, extending from Minnesota through Texas, caused some flooding and held farmers to generally 4 or fewer days of fieldwork. Much of the rest of the country enjoyed several days of fieldwork, which resulted in steady progress of spring planting and early grain harvesting.

SMALL GRAINS: Winter wheat harvest continued in the Southeast and got underway as far north as Kansas and Missouri. Progress advanced to 11 percent (%) complete in the 19 major producing States, compared with 4% last year and 6% for the 5-year average. Harvest progress surged forward in Arkansas under favorable weather conditions, reaching 42% complete, compared with just 5% last week and 19% for the historic average. Harvest was 55% complete in Georgia, 44% in North Carolina, 31% in Texas, and 30% complete in Oklahoma. Less than 10% of the winter wheat acreage had headed in Idaho and Montana, compared with normal progress of over 20%, and heading progress remained behind normal in Oregon and Washington. Crop condition continued to deteriorate in Arkansas, Illinois, and Missouri, with 59% to 72% of the acreage in poor or very poor condition. Crop condition remained mostly fair in Georgia, Kansas, Oklahoma, Texas, and Washington, and generally good elsewhere. Spring wheat condition remained good in each of the 5 major producing States. Harvest of oats continued in the Southeast and Texas, and approximately half of the acreage in Minnesota was jointing. Barley progress was slightly ahead of oats in the northern Great Plains, with 54% jointing in South Dakota and 66% jointing in Minnesota. Wireworm damage to grains was reported in southeastern Idaho.

CORN: Corn planting advanced to 96% complete nationwide, 3 points ahead of last year but 1 point behind normal. Iowa progress advanced 10 points to 92% complete, and Minnesota progress moved ahead 5 points to 88% complete. Crop condition rated mostly good in all 17 major producing States. Iowa reported the corn stand at 93% of normal, with 4% of the acreage replanted. Some Missouri acreage is expected to go unplanted.

SOYBEANS: Planting was 70% complete in the 19 major producing States, 6 points ahead of last year, but 8 points behind normal. Progress was generally behind normal in the northern Great Plains, Mississippi Valley, and the Southeast, but ahead of normal in Kansas, Illinois, and the Ohio Valley. Progress was 35 points or more behind normal in Louisiana, Mississippi, and Tennessee. Some replanting was done in Ohio--mostly in previously wet areas where seedlings drowned.

COTTON: Planting progress advanced sharply in the lower Mississippi and Tennessee Valleys as fields finally dried sufficiently for fieldwork. Nationwide, 86% of the crop was planted, compared with 96% last year and 89% average. Progress remained 16 points behind normal in Mississippi and 12 points behind in Tennessee, despite good progress made during the week. Some Missouri acreage is not expected to be planted due to lateness. Cotton growth improved in California with warmer weather late in the week and cultivation, irrigation, and application of insecticides were active. Wet fields delayed cotton planting on Texas' High

Plains and replanting activities were underway in a few areas.

GRAIN SORGHUM: Grain sorghum planting reached 70% completion in the 12 major producing States, matching last year and trailing the historic average only slightly. Progress was behind normal in the Missouri Valley and Delta, but ahead of normal in Illinois, Oklahoma, and Texas.

RICE: Seeding of the 1991 crop remained delayed in Mississippi, while nearing completion in Arkansas, California, and Louisiana. Nationwide, 91% of the acreage was seeded, compared with 95% last year and the 98% average. Sporadic outbreaks of sheath blight, blast, and stinkbugs were reported in southwest Louisiana. Texas rice fields enjoyed another week of hot, wet weather and herbicide and insecticide applications were undertaken as weather permitted.

OTHER FIELD CROPS: Hay cutting was active across the Nation with some East Coast areas reporting second cutting underway. Fall potato planting was completed in Maine and nearly completed in Idaho. Dry bean planting was 40% complete in Michigan and 75% complete in Idaho. Peanut planting was virtually complete in Georgia and Alabama, and progressed in Mississippi and Texas. Red clover cutting was past the midpoint in Illinois.

FRUIT AND NUTS: Grapefruit, peach, and table grape picking continued in Arizona. Apricot, cherry, freestone peach, nectarine, and plum harvests were ongoing in California, although stonefruit maturity lagged behind normal. Summer grapefruit and Valencia orange harvests also continued in the State. Florida citrus groves remained in very good condition with abundant new growth, excellent new crop progress, and good sizes. Florida's Valencia harvest slowed due to depleted supplies and the grapefruit harvest was almost over. The Georgia peach harvest continued on schedule with the crop in mostly good condition. New York fruit was sizing rapidly with apples showing a generally good set and peaches in the Lake Ontario region showing a heavy crop. Cool spring weather delayed fruit development across most of Oregon.

VEGETABLES: Melons, dry onions, sweet corn, and lettuce were being harvested in Arizona. California broccoli and celery supplies remained heavy, but cauliflower supplies were light. Iceberg lettuce supply was moderate in California, with variable quality. Florida volume leaders were watermelons, tomatoes, sweet corn, cucumbers, peppers, and celery. Harvest of Maryland and Delaware green peas progressed ahead of normal. Planting of green peas and sweet corn in Minnesota remained behind schedule at 88% and 64% complete. High humidity and record high temperatures continued to hurt New Jersey's spring vegetables, while lettuce and strawberry harvests continued. Texas' Rio Grande Valley

(Continued to back cover)

CROP PROGRESS

FOR WEEK ENDING JUNE 9, 1991

	COTTON % PLANTED		
	1991	1990	AVG.
AL	95	100	100
AZ	100	100	100
AR	97	98	99
CA	100	100	100
GA	93	98	97
LA	91	100	99
MS	84	99	100
MO	94	97	100
NM	99	100	100
NC	100	100	100
OK	79	70	71
SC	98	100	99
TN	88	100	100
TX	78	93	79
14 STATES	86	96	89

THESE 14 STATES PRODUCED 99% OF THE 1990 COTTON CROP.

	CORN % PLANTED		
	1991	1990	AVG.
CO	98	100	99
GA	100	100	100
IL	100	86	97
IN	100	86	94
IA	92	98	99
KS	99	100	99
KY	95	68	93
MI	98	98	99
MN	88	97	98
MO	94	74	99
NE	100	99	100
NC	100	100	100
OH	100	93	92
PA	95	86	86
SD	90	94	93
TX	100	100	100
WI	94	94	98

17 STATES 96 93 97

THESE 17 STATES PRODUCED 95% OF THE 1990 CORN CROP.

	WINTER WHEAT % HEADED		
	1991	1990	AVG.
AR	100	100	100
CA	99	99	100
CO	87	90	89
GA	100	100	100
ID	9	32	27
IL	99	100	100
IN	100	98	97
KS	100	100	100
MI	85	50	75
MO	100	100	100
MT	8	9	21
NE	96	92	95
NC	100	100	100
OH	100	93	93
OK	100	100	100
OR	67	90	78
SD	71	58	64
TX	100	100	99
WA	55	65	70

19 STATES 89 89 90

THESE 19 STATES PRODUCED 91% OF THE 1990 WINTER WHEAT CROP.

	COTTON % SQUARING		
	1991	1990	AVG.
AL	10	13	13
AZ	30	40	68
AR	9	0	7
CA	5	10	11
GA	17	25	22
LA	0	22	21
MS	0	20	21
MO	0	0	0
NM	0	6	12
NC	8	1	3
OK 1/	0	0	1
SC	12	6	10
TN	0	1	5
TX	11	11	11
14 STATES	8	12	14

THESE 14 STATES PRODUCED 99% OF THE 1990 COTTON CROP.

1/ DATA FOR OKLAHOMA IN ERROR LAST WEEK. SQUARING PROGRESS SHOULD HAVE BEEN: 1991=0; 1990=0; AVG=0.

	SOYBEANS % PLANTED		
	1991	1990	AVG.
AL	38	66	65
AR	37	28	53
GA	45	72	68
IL	96	63	89
IN	94	63	77
IA	75	86	93
KS	75	60	60
KY	45	21	54
LA	30	74	69
MI	85	80	85
MN	68	92	95
MS	17	41	52
MO	47	25	64
NE	88	89	93
NC	65	61	55
OH	97	66	93
SC	49	65	56
SD	79	80	81
TN	18	35	55

19 STATES 70 64 78

THESE 19 STATES PRODUCED 95% OF THE 1990 SOYBEANS CROP.

	WINTER WHEAT % HARVESTED		
	1991	1990	AVG.
AR	42	11	19
CA	5	15	23
CO	0	0	0
GA	55	78	76
ID	0	0	0
IL	0	0	0
IN	0	0	0
KS	3	0	0
MI	0	0	0
MO	7	0	3
MT	0	0	0
NE	0	0	0
NC	44	22	18
OH	0	0	0
OK	30	7	14
OR	0	0	0
SD	0	0	0
TX	31	14	23
WA	0	0	0

19 STATES 11 4 6

THESE 19 STATES PRODUCED 91% OF THE 1990 WINTER WHEAT CROP.

	GRAIN SORGHUM % PLANTED		
	1991	1990	AVG.
AR	89	85	93
CO	57	57	61
IL	90	10	70
KS	55	60	60
LA	70	94	95
MS	65	94	93
MO	56	32	75
NE	87	85	90
NM	41	70	NA
OK	80	35	48
SD	24	50	62
TX	86	91	82
12 STATES	70	70	NA

EXCL. STATES WITH NA 71 70 74

THESE 12 STATES PRODUCED 98% OF THE 1990 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

	RICE % PLANTED		
	1991	1990	AVG.
AR	93	91	97
CA	98	99	99
LA	91	99	99
MS	57	97	99
TX	100	100	100

5 STATES 91 95 98

THESE 5 STATES PRODUCED 98% OF THE 1990 RICE CROP.

	RICE % EMERGED		
	1991	1990	AVG.
AR	80	77	92
CA	85	85	90
LA	89	96	97
MS	43	82	94
TX	94	96	99

5 STATES 81 85 94

THESE 5 STATES PRODUCED 98% OF THE 1990 RICE CROP.

CROP CONDITION

PERCENT

CORN					
STATE	VP	P	F	G	EX
CO	0	4	14	66	16
GA	0	0	4	45	51
IL	0	0	7	67	26
IN	0	1	15	66	18
IA	0	3	20	58	19
KS	0	0	8	55	37
KY	2	2	17	69	10
MI	0	5	15	50	30
MN	2	5	35	51	7
MO	0	2	43	53	2
NE	0	0	9	70	21
NC	0	0	23	72	5
OH	0	4	21	54	21
PA	2	7	26	42	23
SD	0	1	13	63	23
TX	0	1	21	56	22
WI	2	0	4	66	28
17 STATE	0	2	17	61	20
PREV WEEK	1	2	16	61	20
PREV YEAR	1	7	40	47	5

COTTON					
STATE	VP	P	F	G	EX
AL	5	7	51	37	0
AZ	0	0	30	50	20
AR	0	13	56	31	0
CA	0	0	10	85	5
GA	0	0	37	55	8
LA	2	31	37	30	0
MS	6	5	51	37	1
MO	0	18	64	9	9
NM	0	0	25	75	0
NC	0	0	22	72	6
OK	0	0	31	69	0
SC	0	0	46	54	0
TN	4	23	46	27	0
TX	0	3	40	56	1
14 STATE	1	6	39	52	2
PREV WEEK	1	5	35	54	5
PREV YEAR	1	4	39	52	4

WINTER WHEAT					
STATE	VP	P	F	G	EX
AR	27	37	35	1	0
CA	0	0	10	85	5
CO	5	10	26	46	13
GA	7	24	56	13	0
ID	4	6	32	41	17
IL	32	27	27	13	1
IN	8	17	33	41	1
KS	0	8	52	38	2
MI	0	5	20	55	20
MO	34	38	23	5	0
MT	2	7	28	51	12
NE	0	3	26	64	7
NC	0	0	29	66	5
OH	1	6	25	52	16
OK	0	12	80	8	0
OR	3	11	36	48	2
SD	0	7	9	62	22
TX	5	23	46	24	2
WA	0	22	50	28	0
19 STATE	5	14	44	33	4
PREV WEEK	6	14	38	36	6
PREV YEAR	1	6	24	52	17

RICE					
STATE	VP	P	F	G	EX
AR	2	7	45	46	0
CA	0	0	10	85	5
LA	0	11	45	31	13
MS	13	29	29	29	0
TX	0	0	43	53	4
5 STATE	2	8	38	48	4
PREV WEEK	1	7	47	42	3
PREV YEAR	0	4	39	49	8

SPRING WHEAT					
STATE	VP	P	F	G	EX
ID	0	0	17	61	22
MN	1	4	28	53	14
MT	0	2	22	56	20
ND	0	0	7	86	7
SD	0	0	9	61	30
5 STATE	0	1	14	71	14
PREV WEEK	0	0	12	75	13
PREV YEAR	1	4	18	64	13

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 generally under 0.50 in.; over 1.00 in. isolated areas. Temperatures 1 to 4° below.

Days suitable for fieldwork 4.8. Soil moisture 67% adequate, 33% surplus. Acreage intended for spring planting 92% prepared, 100% 1990, 100% avg. Corn 98% planted, 100% 1990, 100% avg.; 44% silked, 62% 1990, 45% avg.; 10% poor, 18% fair, 54% good, 18% excellent. Sorghum 64% planted, 80% 1990, 72% avg.; 35% fair, 60% good, 5% excellent. Cotton 95% planted, 100% 1990, 100% avg.; 10% squaring, 13% 1990, 13% avg.; 5% very poor, 7% poor, 51% fair, 37% good. Peanuts 97% planted, 100% 1990, 99% avg.; 6% pegging, 13% 1990, 6% avg.; 55% fair, 45% good. Soybeans 38% planted, 66% 1990, 65% avg.; 5% poor, 39% fair, 56% good. Winter wheat 41% harvested, 53% 1990, 49% avg.; 13% very poor, 43% poor, 24% fair, 20% good. First hay 53% harvested, 80% 1990, 69% avg. Pastures 2% fair, 62% good, 36% excellent. Livestock 1% fair, 69% good, 30% excellent. Primary activities: Harvesting hay, wheat; planting cotton, peanuts, sorghum, soybeans, sweetpotatoes; harvesting, marketing vegetables, peaches; general care of livestock, poultry, catfish.

ALASKA: Railbelt wide, warm temperatures general, scattered showers, windy periods intermittent. High temperatures 3° below normal to 2° above normal. Lows normal to 3° above normal. Seasonal precipitation drier than normal at all stations except Homer.

Days suitable for fieldwork 7.0. Topsoil 50% short, 49% adequate, 1% surplus. Subsoil 14% short, 84% adequate, 2% surplus. Small grain emergence virtually complete. Commercial potato emergence less than 10% compared with 25% emerged this time, in 1990. Crop conditions average or better. Crop growth; 30% slow, 55% moderate, 15% rapid.

ARIZONA: Cloudy, windy, light showers north, east early period; sunny skies prevailed southwest, south central; scattered showers south central, southeast 5th; sunny, warmer 6th, 7th. Temperatures 6° below normal to 3° above. Extremes 27°; 98° higher elevations, 47°; 106° deserts. Rainfall a trace central to 0.10 in. northeast.

Cotton squaring, further advanced 30%, 40% 1990, 68% avg.; activities included irrigating, cultivating, insecticide applications; cotton 30% fair, 50% good, 20% excellent; weeds light, insects light to moderate. Small grains harvested 38%, 53% 1990, 64% avg.; small grains good. Alfalfa good; weeds, insects light; harvest moderate to active statewide. Grapefruits, honeydews, cantaloupe, watermelons, table grapes harvested west; potatoes, mixed vegetables, grapefruit, dry onions, peaches, apricots, sweet corn harvested central; spring lettuce, dry onions harvested east.

ARKANSAS: Temperatures normal with scattered showers. Temperature 55°; 95°. Rainfall none to 3.00 in.

Days suitable for fieldwork 6. Soil moisture

20% short, 76% adequate, 4% surplus. Main activities: Planting field crops; irrigating corn, rice; fertilizing; controlling weeds; cultivating fields; cutting, harvesting, baling hay; working livestock; harvesting crops; applying herbicides, insecticides; replanting fields; preparing land. Corn planted 100%, 98% 1990, 99% avg. Pasture 3% fair, 82% good, 15% excellent. Livestock good.

CALIFORNIA: Strong high pressure pushed temperatures above normal by weekend. Minor precipitation was recorded in northeast, thunderstorm activity over mountains.

Field activities progressed, open weather. Barley harvest continued. Wheat harvest progressed, dryland fields baled. Cotton growth improved, warmer weather late week. Cultivation, irrigation, insecticide applications active. Rice seeding winding down. Shrimp, watergrass, weevil control ongoing. Planting corn, dry beans progressed. Corn received cutworm, weed treatments. Sugar beet harvest continued. Alfalfa harvest normal. Seed fields sprayed lygus, mites. Safflower, sunflowers good growth. Sudangrass cut, baled; second crop fields seeded. Stone fruit maturity delayed. Oriental fruit moth sprays applied. Apricot, cherry, freestone peach, nectarine, plum harvests ongoing. Prune drop reported. Pomegranates, new crop avocados continued bloom. Dusting dates underway. Fig growers prepared ground harvest. Apples treated for codling moth. Summer grapefruit, Valencia orange harvest continued. Almonds, pistachios, walnuts irrigated. Walnut set varied. Celery heavy supply, Santa Maria area. Iceberg lettuce supply moderate, variable quality. Potato harvest continued Hemet San Jacinto area. Tulalake area potatoes frost protected several nights with sprinklers. Sweet potato, tomato, melon planting continued, Merced area. Pasture good to excellent northwest, northeast, poor to fair south, fair to good north. Light supplemental feeding. Water supplies adequate. Cattle movement summer pastures underway.

COLORADO: Daily storms pounded eastern areas. Active period 5th to 7th when heavy rains, hail, numerous funnel clouds affected large areas. Rainfall over 1.00 in. common many areas. Cloudiness over the State held average temperatures 1 to 2° below normal except near the Kansas border where they were generally a little above normal.

Days suitable for fieldwork 4.5. Soil moisture 6% very short, 28% short, 49% adequate, 17% surplus. Alfalfa 1st cutting, 19% complete, 36% 1990, 43% avg. Barley 25% headed, 33% 1990, 33% avg.; winter wheat 87% headed, 90% 1990, 89% avg. Winter wheat 10% turning, 14% 1990, 21% avg. Summer potatoes 95% emerged, 78% 1990, 83% avg.; fall potatoes 25% emerged, 16% 1990, 32% avg. Corn 4% poor, 14% fair, 66% good, 16% excellent; winter wheat 5% very poor, 10% poor, 26% fair, 46% good, 13% excellent. Livestock good. Pasture, range feed good.

FLORIDA: Rainfall quite varied. Rainfall 1.00 to 5.00 in. northeast; 0.50 in. or less Panhandle; 1.00 to 4.00 in. central, south.

Soil moisture mostly adequate to surplus. Planting spring crops, harvesting wheat, hay when weather permits. Tobacco harvest starting. Sugarcane making rapid growth. Pastures ratings, 10% fair, 55% good, 35% excellent. State's herds mostly good to excellent. Citrus groves, trees near excellent condition. Valencia harvest slow due to depleted supplies. Grapefruit harvest almost over. Northern tomato harvest underway.

GEORGIA: Cool temperatures 2 to 5° below normal. Highs upper 80s northeast to mid 90s central, south. Less humid midweek, lows upper 40s mountains to upper 50s extreme south. Rain scattered over State. Rainfall less than 0.25 in., extreme south, southeast recorded 1.00 to 2.00 in.

Days suitable for fieldwork 4.4. Soil moisture 1% short, 76% adequate, 23% surplus. Corn 71% silked, 64% 1990, 50% avg.; 32% dough, 21% 1990, 13% avg. Cotton planting nearing completion. Sorghum 7% fair, 86% good, 7% excellent; 74% planted, 85% 1990, 79% avg. Peanuts 5% poor, 22% fair, 69% good, 4% excellent; 98% planted, 100% 1990, 99% avg.; 39% blooming, 47% 1990, 30% avg.; 11% pegging, 12% 1990, 5% avg. Soybean 2% poor, 11% fair, 84% good, 3% excellent; soybean planting about 2 weeks behind normal. Tobacco 47% fair, 53% good; 3% harvested, 2% 1990, 1% avg. Watermelons 19% poor, 50% fair, 31% good. Wheat harvest active. Other small grains poor to fair, mostly fair. Apples 7% fair, 93% good. Peaches 29% fair, 71% good; 41% harvested, 59% 1990, 42% avg. Hay and pastures good. Cattle, hogs good. Other activities harvesting hay, controlling weeds, spraying for insect control.

HAWAII: Weather variable. Mixture of sunny skies, periodic rain showers. Low pressure system early in the week brought shower area through the State, causing passing rain showers on all islands. High pressure system later in week responsible for moderate trade winds 10 to 25 mph. Temperatures low 60s to high 80s. Rainfall none to 3.40 in.

Days suitable for fieldwork 7.0. Irrigation required most areas. Crops made good progress. Sugar harvesting, planting active.

IDAHO: Temperatures below normal across most of State. Most of State received some precipitation, except southwest.

Days suitable for fieldwork 5. Soil moisture 3% very short, 5% short, 85% adequate, 7% surplus. Winter wheat 14% not yet jointed, 45% jointed, 32% boot stage, 9% headed. Spring wheat 99% planted, 100% 1990, 100% avg.; 64% not yet jointed, 29% jointed, 7% boot stage. Spring barley 99% planted, 100% 1990, 100% avg.; 93% emerged, 99% 1990, 97% avg.; 64% not yet jointed, 29% jointed, 7% boot. Oats 98% planted, 100% 1990, 98% avg.; 92% emerged, 95% 1990, 95% avg. Potatoes 95% planted, 99% 1990, 96% avg.; 40% emerged, 62% 1990, 65% avg. Sugarbeets 99% emerged, 100% 1990, 99% avg.; thinned 55%, 75% 1990, 74% avg. Dry peas 100% planted, 100% 1990, 100% avg.; 98% emerged, 100% 1990, 99% avg. Lentils 100% planted, 100% 1990, 100% avg.; 99% emerged, 100% 1990, 100% avg. Field corn 94% planted, 93% 1990, 98% avg.; 68% emerged, 84% 1990, 92% avg. Dry beans 75% planted, 68% 1990, 71% avg. Alfalfa hay just getting underway with 19% harvested. Irrigation water supplies were fair to good. Apples good. Activities: Cultivating, thinning sugarbeets, side dressing, cultivating potatoes, planting row crops, irrigating, harvesting first cutting of

hay, spraying for weeds. Livestock good to excellent. Pasture, range 92% of normal. Hay, roughage supplies adequate.

ILLINOIS: Temperatures near normal. Precipitation across State was generally none, except for a few showers in the extreme south.

Days suitable for fieldwork 5.75. Soil moisture 20% short, 73% adequate, and 7% surplus. Corn avg. height 21 in., most advanced 37 in. Winter wheat filled 96%, 83% 1990, 92% avg.; turning yellow 75%, 36% 1990, 60% avg. Oats 19% fair, 79% good, 2% excellent. Pasture condition as a % of normal, where 100% = normal, was 95%. Alfalfa first cutting 85%, 38% 1990, 74% avg. Soybeans 13% excellent, 73% good, 14% fair. Sorghum 5% excellent, 80% good, 13% fair, 2% poor. Alfalfa 8% fair, 70% good, 22% excellent. Red clover cut 65%, 23% 1990, 58% avg. Red clover 7% fair, 76% good, 17% excellent.

INDIANA: Temperatures around normal. Lows 50 to mid 50s, highs 70s to 85°. Virtually no precipitation.

Days suitable for fieldwork 5.8. Topsoil 19% short, 73% adequate, 8% surplus. Subsoil 3% short, 81% adequate, 16% surplus. Corn 20 in. high, 8 in. 1990, 13 in. avg. Soybeans 90% emerged, 50% 1990, 74% avg. Wheat turning color 47%, 9% 1990, 26% avg.; ripe 11%, 0% 1990, 1% avg. Oats headed 71%, 10% 1990, 43% avg. Tobacco plants set 81%, 35% 1990, 50% avg. Alfalfa hay 1st cutting 72%, 44% 1990, 62% avg. Pasture 96% of normal. Best week for fieldwork this season. Farmers busy cultivating, applying anhydrous, herbicides, making hay.

IOWA: Temperatures 2 to 3° above normal. Extremes 45 to 90°. Precipitation none to 6.02 in.; average 0.95 in.

Days suitable for fieldwork 3.6. Topsoil 53% adequate, 47% surplus. Subsoil 1% short, 48% adequate, 51% surplus. Winter wheat 3% poor, 13% fair, 75% good, 9% excellent. Hay 3% poor, 16% fair, 62% good, 19% excellent. Pasture 5% poor, 8% fair, 79% good, 8% excellent. Oats 30% headed, 10% 1990, 35% avg.; 4% poor, 22% fair, 64% good, 10% excellent. Corn 86% emerged, 88% 1990, 96% avg.; 28% cultivated first time, 13% 1990, 43% avg.; stand 93% of normal; replanted 4%. Soybeans 55% emerged, 48% 1990, 76% avg. First cutting alfalfa 33% harvested, 17% 1990, 47% avg. Livestock good. Sunny, cool days brought stress relief to grazing cattle, hogs.

KANSAS: Temperatures 4° above normal northwest; normal elsewhere. Rainfall recorded all areas; lowest average 0.60 in. northeast, highest 1.40 in. southeast; 1.00 in. elsewhere.

Days suitable for fieldwork 4.0. Surface moisture 11% short, 81% adequate, 8% surplus. Subsurface moisture 43% short, 54% adequate, 3% surplus. Wheat harvest underway southeast, south central; test cutting most central, southern counties. High humidity keeping combines out of fields until afternoon. Wheat turning color, ripe well ahead schedule. Corn planting essentially complete except northeast. Early growth, condition good. No insect or disease problems. Sorghum planting good progress, slightly behind schedule. Adequate moisture to complete planting, early germination. Soybean planting excellent progress, ahead of schedule. Range, pasture good to excellent; furnishing adequate forage.

KENTUCKY: High temperatures 80 to 85°, low temperatures mid 50s to lower 60s. Temperatures

near normal. Extremes 44°; 94°. Rainfall less than 0.25 in. east 0.50 to 1.00 in., 0.50 to 0.75 in. below normal.

Days suitable fieldwork 4.8. Soil moisture 1% very short, 7% short, 77% adequate, 15% surplus. Extreme west mostly surplus. Northeast short. Corn planting almost complete. Emerged crop 18 in. average height, most advanced 36 in. Burley tobacco transplanting 88% complete, Dark type 75%. Barley harvest nearly half complete, wheat harvest just underway. Yields vary.

LOUISIANA: Temperatures 1.2 to 2.9° above normal. Extremes 61°; 97°. Rainfall none west central to 1.79 in. east central.

Days suitable for fieldwork 4.6. Soil moisture 3% short, 59% adequate, 38% surplus. Spring plowing 84%, 95% 1990, 99% avg. Corn 22% very poor, 30% poor, 45% fair, 3% good; 70% silked, 59% 1990, 46% avg.; 10% dough stage, 5% 1990, 8% avg. Cotton 82% emerged, 100% 1990, 95% avg. Hay 28% first cutting, 65% 1990, 67% avg. Peaches 1% very poor, 29% poor, 41% fair, 29% good; 11% harvested, 23% 1990, 19% avg. Sorghum 56% poor, 31% fair, 13% good; 61% emerged, 92% 1990, 91% avg. Soybeans 17% emerged, 68% 1990, 57% avg. Sweet potatoes 4% poor, 52% fair, 44% good; 49% planted, 63% 1990, 61% avg. Sugarcane 1% poor, 53% fair, 46% good. Fertilizing, cultivating, active. Wheat 46% very poor, 34% poor, 20% fair; 78% harvested, 85% 1990, 77% avg. Vegetables 15% very poor, 37% poor, 30% fair, 15% good, 3% excellent. Pastures 9% very poor, 10% poor, 12% fair, 43% good, 26% excellent. Livestock 2% poor, 41% fair, 50% good, 7% excellent.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.58 in. Temperature 71.3°, normal 69.1°. Extremes 37°; 97°.

Days suitable for fieldwork 6.1. Topsoil 32% very short, 54% short, 14% adequate. Subsoil 9% very short, 64% short, 27% adequate. Small grains good. Winter wheat 92% turning, 34% 1990, 39% avg. Barley 50% harvested, 0% 1990, 7% avg. Rye 78% turning, 60% 1990, 63% avg.; 15% harvested, 18% 1990, 9% avg. Oats 60% headed, 41% 1990, 48% avg.; 14% turning, 7% 1990, 5% avg. Soybeans 63% planted, 52% 1990, 50% avg. Sorghum 92% planted, N/A 1990, N/A avg. Tobacco 80% transplanted, 68% 1990, 61% avg. Sweet corn 84% planted, 87% 1990, 87% avg. Watermelons 92% planted, 98% 1990, 99% avg. Cantaloupes 87% planted, 93% 1990, 96% avg. Snap beans 84% planted, 68% 1990, 78% avg. Green peas 73% harvested, 45% 1990, 41% avg. Other hay first cut 83% complete, 62% 1990, 60% avg. Alfalfa hay second cut 10% complete, 2% 1990, 3% avg. Hay supplies adequate. Pasture poor to fair. Strawberries 89% harvested, 68% 1990, 63% avg. Peaches, apples good condition, above average fruit set.

DELAWARE: Precipitation 0.439 in. Temperature 69.7°, normal 69.6°. Extremes 46°; 95°.

Days suitable for fieldwork 7. Topsoil 67% very short, 33% short. Subsoil 33% very short, 50% short, 17% adequate. Small grains fair. Barley 41% harvested, 0% 1990, 16% avg. Oats 30% turning, 10% 1990, N/A avg. Soybeans 62% planted, 55% 1990, 54% avg. Sweet corn 75% planted, 99% 1990, 94% avg. Cucumbers 59% planted, 84% 1990, 80% avg. Lima beans 46% planted, 29% 1990, 54% avg. Snap beans 68% planted, 94% 1990, 97% avg. Green peas 42% harvested, 33% 1990, 32% avg. Other hay first cut 91% complete, 69% 1990, 80% avg. Hay supplies adequate. Pasture poor to fair. Strawberries 70% harvested, 85% 1990, 77% avg. Peaches, apples good, above average fruit set.

MICHIGAN: Weather data not available.

Days suitable for fieldwork 6. Soil moisture 13% short, 75% adequate, 12% surplus. Corn 98% planted, 98% 1990, 99% avg.; planted acres emerged 95%, 80% 1990, 90% avg.; 5% poor, 15% fair, 50% good, 30% excellent. Dry beans 40% planted, 30% 1990, 30% avg. Soybeans 85% planted, 80% 1990, 85% avg. Winter wheat 85% headed, 50% 1990, 75% avg.; 0% harvested, 0% 1990, 0% avg.; 5% poor, 20% fair, 55% good, 20% excellent. Pasture 95% of normal.

MINNESOTA: Temperatures 3 to 8° above normal. Extremes 40°; 89°. Precipitation 0.18 to 2.06 in. Greatest weekly total 3.45.

Days suitable for fieldwork 3.3. Topsoil 4% very short, 5% short, 42% adequate, 49% surplus. Spring wheat 47% not jointing, 63% 1990, 55% avg.; 53% jointing, 37% 1990, 45% avg.; 4% heading, 1% 1990, 6% avg. Oats 46% not jointing, 56% 1990, 47% avg.; 54% jointing, 44% 1990, 53% avg.; 5% heading, 1% 1990, 14% avg. Barley 34% not jointing, 62% 1990, 60% avg.; 66% jointing, 38% 1990, 40% avg.; 6% heading, 0% 1990, 6% avg. Field corn 88% acreage planted, 97% 1990, 98% avg.; 78% emerged, 88% 1990, 93% avg.; 12% cultivated once, 20% 1990, 42% avg. Soybeans 68% acreage planted, 92% 1990, 95% avg.; 49% emerged, 56% 1990, 75% avg.; 6% cultivated once, 7% 1990, 18% avg. Dry beans 93% planted, 98% 1990, 97% avg. Sweet corn 64% planted, 76% 1990, 86% avg. Green peas 88% planted, 99% 1990, 99% avg. Alfalfa hay 31% cut, 7% 1990, 35% avg. Field corn 2% very poor, 5% poor, 35% fair, 51% good, 7% excellent. Soybeans 4% very poor, 7% poor, 32% fair, 51% good, 6% excellent. Spring wheat 1% very poor, 4% poor, 28% fair, 53% good, 14% excellent. Barley 2% very poor, 25% fair, 60% good, 13% excellent.

MISSISSIPPI: Temperatures 78°, 1.7° above normal. Extreme 56°; 97°. Mostly dry. Rainfall 0.71 in., 0.15 in. below normal. Soil temperature 84°.

Days suitable for fieldwork 4.5, 4.0 1990, 4.7 avg. Soil moisture 63% adequate, 24% surplus, 13% excessive. Corn 75% planted, 99% 1990, 100% avg.; 69% emerged, 97% 1990, 98% avg.; silking 24%, 13% 1990, 15% avg.; 12% very poor, 18% poor, 59% fair, 15% good, 1% excellent. Cotton 84% planted, 99% 1990, 100% avg.; 71% emerged, 3% 1990, 97% avg.; 6% very poor, 5% poor, 51% fair, 37% good, 1% excellent. Peanuts 62% planted, 72% 1990, 89% avg. Rice 57% planted, 97% 1990, 99% avg.; 43% emerged, 82% 1990, 94% avg.; 13% very poor, 29% poor, 29% fair, 29% good. Sorghum 65% planted, 94% 1990, 93% avg.; 58% emerged, 91% 1990, 90% avg.; 12% very poor, 6% poor, 51% fair, 30% good, 1% excellent. Soybeans 17% planted, 41% 1990, 52% avg.; 12% emerged, 30% 1990, 38% avg. Sweet potatoes 50% planted, 83% 1990, 80% avg. Wheat 92% mature, 90% 1990, 89% avg.; harvested 39%, 23% 1990, 35% avg.; 54% very poor, 24% poor, 9% fair, 13% good. Hay harvested 19%, 29% 1990, 30% avg. Pecans 13% very poor, 20% poor, 49% fair, 18% good. Livestock 21% fair, 42% good, 37% excellent. Pasture 88% of normal.

MISSOURI: Temperatures 3° above normal. Rainfall 0.25 in., light in all areas.

Days suitable for fieldwork 4.8. Topsoil 7% short, 70% adequate, 23% surplus. Corn planting 88 to 92% complete northern districts, other districts virtually complete, some acreage not expected to be planted. Single crop soybeans planted 37% southeast to over 60% in northwest, southwest, central districts. Rice 94% planted. Some intended cotton, rice not expected to be planted due to lateness. Alfalfa first cutting 69%, 33% 1990, 74% avg. Other hay cut 38%, 15%

1990, 42% avg. Pasture 17% fair, 65% good, 18% excellent.

MONTANA: Rain most areas. Rainfall 0.03 to 2.24 in. Many areas over 1.00 in. Some rivers central, south central, southwest near or above flood stage. Temperatures 1° below normal northwest, central to 7° above northeast.

Days suitable for fieldwork 3.5. Topsoil 2% short, 86% adequate, 12% surplus. Subsoil 21% short, 76% adequate, 3% surplus. Spring wheat boot 15%, 12% 1990, 10% avg. Barley boot 11%, 10% 1990, 10% avg.; headed 2%; 1% poor, 16% fair, 58% good, 25% excellent. Oats boot 12%, 9% 1990, 12% avg.; 4% poor, 17% fair, 57% good, 22% excellent. Sugarbeets 3% very poor, 8% poor, 37% fair, 43% good, 9% excellent. First cutting alfalfa hay cut 1%, 1% 1990, 3% avg. Other hay harvested 0%.

NEBRASKA: Rainfall up to 5.00 in. locally caused flooding northeast. Statewide, heavy showers. Temperatures mostly below 90°.

Days suitable for fieldwork 3.1. Topsoil 1% short, 48% adequate, 51% surplus. Subsoil 11% short, 85% adequate, 4% surplus. Wheat 3% poor, 26% fair, 64% good, 7% excellent; 96% headed, 92% 1990, 95% avg.; 19% turning color, 12% 1990, 20% avg. Corn 9% fair, 70% good, 21% excellent; 98% emerged, 95% 1990, 98% avg. Sorghum 87% planted, 85% 1990, 90% avg.; 74% emerged, 52% 1990, 71% avg. Soybeans 88% planted, 89% 1990, 93% avg.; 75% emerged, 56% 1990, 74% avg. Alfalfa 1% poor, 12% fair, 71% good, 16% excellent; 35% 1st cutting, 39% 1990, 62% avg. Pasture, range 96% of normal.

NEVADA: Temperatures near normal. Extremes 26°; 100°. Precipitation none to 0.22. Most precipitation occurred in northern, eastern sections.

Warmer temperatures aided crop development statewide. Livestock good. Activities: Irrigation, weed control, branding, vaccination.

NEW ENGLAND: Precipitation 0.05 to 0.80 in. south, up to 1.60 in. coastal Massachusetts; southeastern Maine 0.75 to 1.15 in., none to 0.55 in. north. Temperatures mid to high 50s northern Maine, mid 50s to mid 60s elsewhere north, high 50s to mid 60s south; 1° below to 2° above normal across the region. Maximum temperatures mostly 80s; minimum temperatures mid 30s to low 50s.

Days suitable for fieldwork 5.5. Soil moisture 14% very short, 14% short, 69% adequate, 3% surplus. Grazing availability 6% very short, 16% short, 72% adequate, 6% surplus. Fieldwork 5.5 days ahead of schedule. Maine potatoes 100% planted, 96% 1990, 95% avg.; 43% emerged, 13% 1990, 31% avg.; good. Rhode Island potatoes 100% planted, 98% 1990, 100% avg.; 78% emerged, 75% 1990, 83% avg.; good. Connecticut Valley potatoes 100% planted, 90% 1990, 97% avg.; 86% emerged, 68% 1990, 83% avg.; good. Maine oats 100% planted, 100% 1990, 94% avg.; good to excellent. Field corn 95% planted, 86% 1990, 89% avg.; 79% emerged, 61% 1990, 71% avg.; good. Sweet corn 86% planted, 79% 1990, 81% avg.; 74% emerged, 63% 1990, 68% avg.; good. First cut hay 48% complete, 21% 1990, 26% avg.; good. Connecticut Valley shade tobacco 94% transplanted; outdoor tobacco 65% transplanted. Apples fruit set average. Apple scab light. Cranberries early blossom stage. Strawberry fruit set heavy.

NEW JERSEY: Temperatures below normal. Extremes 41°; 91°. Rainfall 0.34 in. north, 0.38 central, 0.28 south. Heaviest 24 hour 0.72 in. on 3rd, 4th. Estimated soil moisture percent field capacity, averaged 64% north, 54% central, 22% south. Four inch soil temperature 66° north, 68° central, 69° south.

Days suitable for fieldwork 7. Topsoil short most areas, irrigation continued. Spring vegetable harvest active. June fruit drop continued. Strawberry harvest declined, soybeans need rain. Soybean planting continued. Barley combining general. Wheat colored. Early Irish potatoes in bloom. Pasture growth slowed.

NEW MEXICO: Temperatures variable across the State generally averaging within 1 to 2° of seasonal normals. Southeastern plains consistently 2 to 3° above normal. Thunderstorms numerous over the plains, along the central, northern mountains producing 1.00 to 2.00 in. along Texas border areas, far northeast. Measurable rainfall remained scant west of the Rio Grande river.

Days suitable for fieldwork 6.4. Soil moisture 76% short, 24% adequate. Alfalfa 10% poor, 24% fair, 63% good, 3% excellent. Corn 19% fair, 75% good, 6% excellent. Irrigated sorghum 14% fair, 86% good. Irrigated wheat 11% poor, 32% fair, 57% good. Dryland wheat 25% very poor, 50% poor, 25% fair. Chile 9% poor, 18% fair, 64% good, 9% excellent. Onions 11% fair, 89% good. Corn 97% acceptable stand. Cattle, sheep very poor to good. Range, pasture 65% of normal, ranging from 20% to 120%.

NEW YORK: Dry, seasonable weather. Only the southern fringe of State received substantial precipitation. Thunderstorms along the southern border left locally heavy rainfall. Rainfall 1.50 in., elsewhere 0.33 in. was the rule. Temperatures close to normal. Extremes 31°; 85°.

Days suitable for fieldwork 6.0. Soil moisture short to mostly adequate. Pastures 91% of normal. Hay good, wheat good to mostly excellent. Corn 93% planted, 76% 1990, 84% avg. First cutting of alfalfa 49% complete, 11% 1990, 23% avg.

NORTH CAROLINA: Temperatures near normal across the State. Precipitation none to 2.04 in.

Days suitable for fieldwork 5.7. Soil moisture 3% very short, 31% short, 64% adequate, 2% surplus. Crop condition: Wheat 29% fair, 66% good, 5% excellent; pasture 1% poor, 14% fair, 74% good, 11% excellent; tobacco 13% fair, 81% good, 6% excellent; corn 23% fair, 72% good, 5% excellent; cotton 22% fair, 72% good, 6% excellent; peanuts 3% poor, 10% fair, 77% good, 10% excellent; soybeans 23% fair, 76% good, 1% excellent; hay 14% fair, 77% good, 9% excellent; Irish potatoes 3% poor, 16% fair, 75% good, 6% excellent; sweet potatoes 13% fair, 85% good, 2% excellent; apples 17% fair, 77% good, 6% excellent; peaches 10% fair, 84% good, 6% excellent; truck crops 14% fair, 84% good, 2% excellent. Soybeans planted 65%; burley tobacco transplanted 95%; sweet potatoes transplanted 82%. Wheat harvested 44%; oats harvested 43%; barley harvested 50%; rye harvested 44%; peaches harvested 15%; Irish potatoes harvested 24%. Hay first cutting 78%; hay second cutting 20%.

NORTH DAKOTA: Temperatures 6° above normal south central to 10° above normal northwest. Extremes 45° central, southwest; 88° northeast. Precipitation 0.08 in. northeast to 0.84 in. southeast.

Days suitable for fieldwork 5.2. Topsoil 1% very short, 3% short, 96% adequate. Subsoil 5% very short, 51% short, 44% adequate. Spring wheat 7% fair, 86% good, 7% excellent; 46% jointing and beyond, 27% 1990, 38% avg. Durum wheat 5% fair, 85% good, 10% excellent; 24% jointing and beyond, 18% 1990, 24% avg. Oats 16% fair, 77% good, 7% excellent; 40% jointing and beyond, 28% 1990, 39% avg. Barley 4% fair, 88% good, 8% excellent; 54% jointing and beyond, 33% 1990, 42% avg. Winter wheat 16% fair, 81% good, 3% excellent; 31% heading and beyond, 10% 1990, 33% avg. Late season crop condition mostly good. Corn 90% emerged, 77% 1990, 80% avg.; flax 86%, 78% 1990, 72% avg.; potatoes 84%, 60% 1990, 74% avg.; soybeans 88%, 75% 1990, 77% avg.; dry beans 89%, 73% 1990, 78% avg.; sunflower 74%, 65% 1990, 62% avg. Sugarbeets 100% emerged. Pasture conditions 82% of normal, furnished 97% roughage requirements. Alfalfa hay first cutting 2% complete, other hay 1%. Stockwater supplies very short 12%, short 35%, adequate 52%, surplus 1%.

OHIO: High pressure pushed cold front south. High also brought rain free weather. Temperatures 1 or 2° subnormal. Highs mostly in mid 70s to low 80s. Lows in low 50s. Growing Degree days varied from 105 to 130°.

Days suitable for fieldwork 5.6. Soil moisture 26% short, 65% adequate, 9% surplus. Corn good; many stands knee high; 100% emerged, 86% 1990, 84% avg. Soybeans good; emergence 90%, 46% 1990, 61% avg. Winter wheat matured fast, good. Coloring observed on 40% of acreage, 14% 1990, 24% avg. Oats, good recently too hot. Hay harvest far advanced; few farmers into second cuttings. First cut alfalfa 90% complete, 37% 1990, 57% avg. Other hay first cut 71% complete, 24% 1990, 39% avg. Strawberry picking 70% finished, 34% 1990, 30% avg. Potato plants bloomed. Tobacco setting was almost complete, cultivating was getting started.

OKLAHOMA: Temperatures 1° below normal south central to 3° above normal northeast. Precipitation 0.04 in. southeast to 4.07 in. south central.

Days suitable for fieldwork 3.8. Topsoil 72% adequate, 28% surplus. Subsoil 8% short, 92% adequate. Wheat 12% poor, 80% fair, 8% good; 96% soft dough, 88% 1990, 96% avg.; 30% harvested, 7% 1990, 14% avg. Cotton 79% planted, 70% 1990, 71% avg.; 58% up to stand, 47% 1990, 45% avg. Sorghum 80% planted, 35% 1990, 48% avg.; 65% up to stand, 24% 1990, 26% avg. Corn 100% planted, 99% 1990, 100% avg.; 1% tasseling, 2% 1990, 3% avg. Soybeans 46% planted, 35% 1990, 56% avg.; 21% up to stand, 5% 1990, 31% avg. Peanuts 61% planted, 64% 1990, 71% avg.; 36% up to stand, 33% 1990, 44% avg.

OREGON: Cool, wet over most of State; temperature lower 20s northeast. Frost many sections, east, west, including Willamette Valley. Heavy rainfall, 1.08 to 1.55 in. in four days, northeast. Flash flooding, Umatilla Co. east.

Soil moisture 24% short, 76% adequate. Red clover silage harvest underway, west; haying activities, east. Field activity delayed due to rain, northeast. Cool spring delaying fruit development, most areas; sweet cherry crop expecting good quality, The Dalles. Cherry fruit fly emerged, Willamette Valley. Apples sizing nicely, Lane Co; prune set light, Douglas Co. Strawberry harvest started, west.

Blueberries showing winter damage. Cranberry bloom continued. So. coast. Sweet corn, snap beans, cucumbers slow, Willamette Valley. Asparagus harvest winding down; one third potato crop past last cultivation, some tubers 1 in. diameter, Umatilla Co. Livestock good to excellent, all areas; rains improved range conditions, east; stockwater very short supply, Jefferson, Wheeler Co; summer grazing movements started, Grant Co. Statewide, range, pasture 2% poor, 19% fair, 58% good, 21% excellent.

PENNSYLVANIA: Very dry with seasonal temperatures. Temperature 64°, 2° above normal. Extremes 41°; 91°. Precipitation 0.10 in., 0.73 in. below normal.

Days suitable for fieldwork 6. Soil moisture 82% short, 18% adequate, 0% surplus. Corn 95% planted, 86% 1990, 86% avg.; height 10 in., 3 in. 1990, 5 in. avg.; 2% very poor, 7% poor, 26% fair, 42% good, 23% excellent. Tobacco 78% transplanted, 30% 1990, 42% avg. Soybeans 79% planted, 50% 1990, 57% avg.; 4% very poor, 9% poor, 31% fair, 39% good, 17% excellent. Barley 5% boot, 13% 1990; 62% heading or headed, 65% 1990; 26% turning yellow, 22% 1990; 7% ripe, 0% 1990. Wheat 8% boot, 14% 1990; 78% heading or headed, 83% 1990; 12% turning yellow, 3% 1990; 1% ripe, 0% 1990; 1% harvested, 0% 1990; 2% very poor, 4% poor, 20% fair, 50% good, 24% excellent. Oats 18% boot, 23% 1990; 80% heading or headed, 77% 1990; 2% turning yellow, 0% 1990; 3% very poor, 13% poor, 29% fair, 39% good, 16% excellent. Alfalfa first cutting 73% complete, 37% 1990. Feed from pastures 11% very poor, 48% poor, 37% fair, 4% good. Peach 3% below avg., 69% avg., 28% above avg. Apple 3% below avg., 72% avg., 25% above avg.

PUERTO RICO: Data Not Available.

SOUTH CAROLINA: Temperatures 1 to 3° above normal. Rainfall 0.60 in. mountains to 1.50 in. north central.

Days suitable for fieldwork 5.5. Soil moisture 34% short, 64% adequate, 2% surplus. Cotton 46% fair, 54% good; 12% squaring, 6% 1990, 10% avg. Sweet potatoes fair to good; 83% planted, 88% 1990, 60% avg. Watermelons fair to good; 95% planted, 95% 1990, 97% avg. Cantaloupes fair to good; 91% planted, 89% 1990, 93% avg. Peaches fair to good; 9% harvested, 22% 1990, 13% avg. Cucumbers fair to good; 20% harvested, 0% 1990, 0% avg. Snap beans fair to good; 82% planted, 91% 1990, 93% avg.; 19% harvested, 0% 1990, 0% avg. Sorghum 53% planted, 70% 1990, 58% avg. Barley fair to good; 95% turning color, 94% 1990, 92% avg.; 81% ripe, 86% 1990, 72% avg.; 38% harvested, 52% 1990, 37% 1990. Oats fair to good; 88% ripe, 92% 1990, 82% avg.; 49% harvested, 62% 1990, 42% avg. Rye fair to good; 100% turning color, 94% 1990, 94% avg.; 83% ripe, 77% 1990, 79% avg.; 42% harvested, 42% 1990, 3% avg. Wheat fair to good; 93% ripe, 95% 1990, 85% avg.; 53% harvested, 60% 1990, 42% avg. Soybeans 23% fair, 77% good; 49% planted, 65% 1990, 56% avg. Tobacco fair to good; 15% topped, 11% 1990, 5% avg. Grain hay fair to good; 78% harvested, 90% 1990, 87% avg. Pasture fair to good.

SOUTH DAKOTA: Wet, mild conditions. Heavy rains caused flooding in south central, central, east central. Up to 4.55 in. reported in these areas. Rainfall all areas, northwest below normal. Rainfall 2.40 to 10.32 in. Temperatures 2 to 7° above normal. Extremes 37°; 88°.

Days suitable for fieldwork 1.7. Topsoil 1% short, 40% adequate, 59% surplus. Subsoil 1%

critical, 8% short, 67% adequate, 24% surplus. Rye 8% fair, 52% good, 40% excellent. Oats 8% fair, 67% good, 25% excellent. Barley 1% poor, 7% fair, 65% good, 27% excellent. Flax 16% fair, 64% good, 20% excellent. Soybeans 13% fair, 68% good, 19% excellent. Livestock 4% fair, 60% good, 36% excellent.

TENNESSEE: Scattered thunderstorms. Temperatures 5° above normal west, 3° above normal middle, 6° below normal Plateau, 2° below normal east.

Days suitable for fieldwork 4.5. Soil moisture 1% very short, 2% short, 73% adequate, 24% surplus. Corn 82% planted, 100% 1990, 99% avg.; 2% tasseling, 4% 1990, 5% avg.; 3% very poor, 9% poor, 39% fair, 46% good, 3% excellent. Cotton 72% planted, 100% 1990, 100% avg.; 4% very poor, 23% poor, 46% fair, 27% good. Sorghum 42% planted, 65% 1990, 83% avg.; 2% very poor, 7% poor, 32% fair, 58% good, 1% excellent. Soybeans 18% planted, 35% 1990, 55% avg. Tobacco 74% transplanted, 85% 1990, 81% avg.; 4% poor, 32% fair, 63% good, 1% excellent. Wheat 92% turning color, 98% 1990, 96% avg.; 44% ripe, 25% 1990, 45% avg.; 11% very poor, 37% poor, 30% fair, 20% good, 2% excellent. Alfalfa 78% 1st cutting, 95% 1990, 97% avg.; hay 1% very poor, 4% poor, 16% fair, 63% good, 16% excellent. Pastures 2% fair, 60% good, 38% excellent.

TEXAS: An oscillating dry line over West Texas, stalled cold front over Northeast Texas, two forces keeping States weather active. West Texas, thunderstorms erupted where dry, moist air clashed. Significant rains left amounts larger than usual for this time of year. Rains welcomed in many areas, which were behind in total moisture for year. Rolling Plains had heavy rains. East Texas, a stalled front generated many slow moving storms leaving heavy rains several areas. Largest departure on rainfall in Rolling Plains where total was 1.19 ins. above normal.

Crops: Scattered showers interrupted small grain harvest. Wheat harvest on High Plains expected to start soon. Corn fields continued excellent progress. Corn 57% silked, 28% 1990, 46% avg.; 20% doughed, 7% 1990, 17% avg.; 0% dented, 0% 1990, 2% avg. Sorghum fields good progress. Planting slightly delayed on High Plains. Sorghum 39% headed, 31% 1990, 34% avg.; 12% turning color, 6% 1990, 10% avg. Wet fields delayed cotton planting on High Plains. Replanting activities common. Boll weevils showing up on few South Texas fields. Cotton 6% setting bolls 6% 1990, 6% avg. Herbicide, insecticide applications. Rice 0% headed, 0% 1990, 2% avg. Soybean stands good progress. Central Texas, Blacklands producers heavy pod set. Grasshoppers active problem some Central Texas fields. Peanut planting slightly delayed in Cross Timbers, Low Plains wet field conditions. Timely moisture on earlier planted stands promoted good growth, plant development. Peach harvest steady progress as activities moved northward into Blacklands, Low Plains, Cross Timbers. Insect, weather pressures increasing on High Plains. Pecan spraying slow progress. Other Field Crops: Oats 36% harvested, 33% 1990, 39% avg. Peanuts 35% planted, 41% 1990, 40% avg. Soybeans 69% planted, 73% 1990, 59% avg. Sunflowers 48% planted, 57% 1990, 38% avg.

Commercial Vegetables: Rio Grande Valley, melon, pepper harvest beginning to wind down. Onions continued good progress. San Antonio Winter Garden, harvest of beets for processing

got underway. Onion, cabbage harvest continued full swing, as well as some early tomato, bean crops. Fungi, disease problems remained a concern. East Texas, insect, disease problems increasing. Some spraying started. Potato, bean, squash, pepper, tomato harvests off to slow start. High Plains, potato, onion, sweet corn, carrot crops made good progress. Melon planting winding down. Onion harvest expected to start soon. Trans Pecos, onion harvest in full swing. Chile plants continued to flower. Cantaloupes continued good progress.

Range and Livestock: Livestock across State remained good shape for another week. Forage quality, quantity continued improvement from recent rainfall. Grasshoppers, horn flies remained a nuisance. Haying operations slowly continued despite interruptions from scattered showers. Range, pastures 1% very poor, 8% poor, 32% fair, 49% good, 10% excellent.

UTAH: Temperature 7° less than normal, minimums approximated normal in the State. Heavy precipitation occurred in the northern half of the State, with very heavy amounts in the mountainous regions. Precipitation moderate to light elsewhere.

Days suitable for fieldwork 5.7. Soil moisture 31% short, 60% adequate, 9% surplus. Winter wheat 58% booted, 89% 1990, 85% avg.; 31% headed, 78% 1990, 69% avg. Spring wheat 36% booted, 77% 1990, 65% avg.; 10% headed, 42% 1990, 32% avg. Barley 58% booted, 73% 1990, 67% avg.; 10% headed, 41% 1990, 37% avg. Oats 95% emerged, 100% 1990, 100% avg.; 46% jointed, 79% 1990, 65% avg.; 17% booted, 36% 1990, 39% avg. Corn 92% planted, 100% 1990, 100% avg.; 74% emerged, 100% 1990, 96% avg. Average corn height 4.8 ins., 7.1 in. 1990, 8 in. avg. Alfalfa first cutting 14% complete, 49% 1990, 45% avg. Potato planting virtually complete. Cattle movement to summer range 57% complete, 89% 1990, 71% avg. Sheep movement to summer range 48% complete, 94% 1990, 58% avg. Pasture, range mostly fair to excellent.

VIRGINIA: Temperatures a little above normal. Extremely hot, strong late season cold front cooled temperatures to below normal. Extremes 40°; 98°. Precipitation extremely variable.

Days suitable for fieldwork 5.4. Topsoil 8% very short, 45% short, 39% adequate, 8% surplus. Corn 96% planted, 98% 1990, 94% avg.; 15% poor, 35% fair, 47% good, 3% excellent. Soybeans 53% planted, 55% 1990, 47% avg.; 6% very poor, 11% poor, 45% fair, 38% good. Fire cured tobacco 97% transplanted, 95% 1990, 76% avg. Burley tobacco 85% transplanted, 71% 1990, 59% avg. Tobacco 2% poor, 33% fair, 65% good. Peanut 33% fair, 67% good. Potatoes mostly fair. Wheat 7% harvested, 10% 1990, 5% avg. Barley 50% harvested, 15% 1990, 9% avg. Oats 9% harvested, 6% 1990, 10% avg.

WASHINGTON: Temperatures normal to 8° below normal east; normal to 4° below normal west. Precipitation none to 1.20 in. east; 0.09 to 0.18 in. west.

Days suitable for fieldwork 6.4. Soil moisture 34% short, 51% adequate, 15% surplus. Hay, other roughage 8% short, 92% adequate. Range, pasture 11% very poor, 30% poor, 10% fair, 49% good. Wheat 22% poor, 50% fair, 28% good. Barley 4% poor, 43% fair, 53% good. Potato 100% good. Dry bean 100% good. Corn 2% poor, 57% fair, 41% good. Winter wheat headed 55%. Spring wheat headed 35%. Barley headed 35%. Potatoes emerged 98%. Dry beans planted 85%. Corn planted 98%. Alfalfa hay, 1st cutting 47%. Winter wheat began to head in central part of the State. Pastures, ranges looked good across the State.

WEST VIRGINIA: Temperature 65°. Extremes 39°; 91°. Precipitation 0.03 in.

Days suitable for fieldwork 5.6. Soil moisture 67% short, 33% adequate. Wheat good; 96% headed. Barley fair; 100% headed, 50% ripe. Corn good; 96% planted, 87% emerged. Oats good; 97% emerged. Gardens, 28% fair, 72% good; 79% planted, 71% emerged. Tobacco 49% poor, 11% fair, 40% good; 81% set. Hay 9% fair, 74% good, 17% excellent; 56% first cutting. Apples, peaches good. Pastures 34% fair, 63% good, 3% excellent; 101% of normal. Cattle, good. Sheep, fair.

WISCONSIN: Temperature 66°, 2° above normal. Extremes 38°; 89°. Precipitation none to 0.50 in.

Days suitable for fieldwork 6.2. Soil moisture 3% short, 56% adequate, 41% surplus. Pasture 91% of normal, 83% 1990, 76% avg. General condition of crops 2% poor, 7% fair, 72% good, 19% excellent. Winter wheat 2% poor, 9% fair, 65% good, 24% excellent. Corn 2% very poor, 4% fair, 66% good, 28% excellent; 94% planted, 94% 1990,

98% avg.; height 8 in., 4 in. 1990, 7 in. avg. Soybean 8% fair, 74% good, 18% excellent. Soybeans 86% planted, 71% 1990, 86% avg. First crop hay 28% harvested, 20% 1990, 38% avg.

WYOMING: Temperatures near normal. Precipitation above normal.

Days suitable for fieldwork 3.0. Topsoil 74% adequate, 26% surplus. Spring wheat 90% emerged, 100% 1990, 95% avg. Oats 85% emerged, 95% 1990, 90% avg. Barley 90% emerged, 95% 1990, 95% avg. Sugarbeets 90% emerged, 100% 1990; 40% thinned, 35% 1990, 35% avg. Corn 85% planted, 100% 1990, 95% avg.; 70% emerged, 80% 1990, 75% avg. Potatoes 95% planted, 100% 1990; 45% emerged, 75% 1990, 65% avg. Dry beans 40% planted, 75% 1990, 65% avg.; 20% emerged, 30% 1990, 30% avg. Small grains, row crops, alfalfa mostly good. Winter wheat 20% not jointed, 25% 1990; 20% jointed, 35% 1990; 40% boot, 30% 1990; 20% headed, 10% 1990. Livestock good to excellent. Ranges, pastures good to excellent. Livestock moved to summer ranges; cattle 60%, sheep 60%. Stockwater 94% adequate, 6% short.

International Weather and Crop Summary

HIGHLIGHTS

June 2-8, 1991

USSR ... In Western USSR, mostly favorable weather conditions cover crops. In the New Lands, unseasonably warm, dry weather continues to worsen developing drought conditions.

EUROPE ... Beneficial showers favor crop development, but unseasonably cool weather persists.

EASTERN ASIA ... Dry conditions aid maturing winter wheat. Portions of southern China receive below-normal rains.

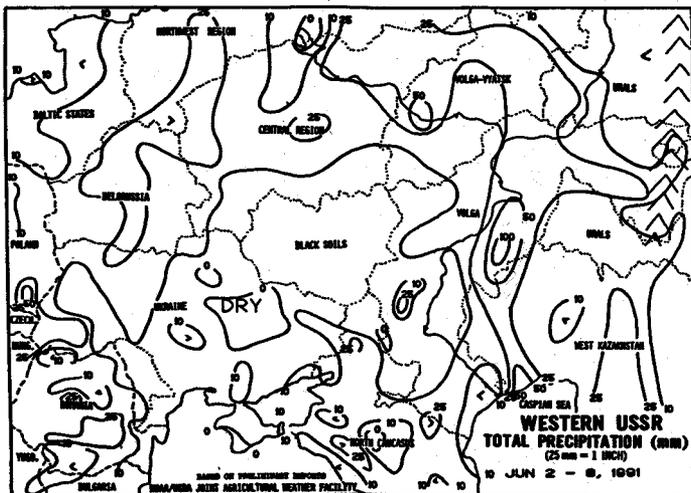
SOUTHEAST ASIA ... Widespread showers help Thailand's rice and corn.

SOUTH AMERICA ... Heavy rains delay soybean harvest in Argentina and southern Brazil.

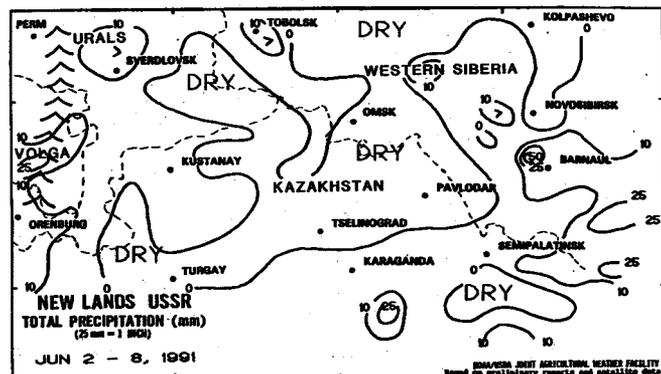
AUSTRALIA ... Southeastern winter grain areas receive beneficial rains.

CANADA ... Showers promote spring grains establishment in the Prairie Provinces.

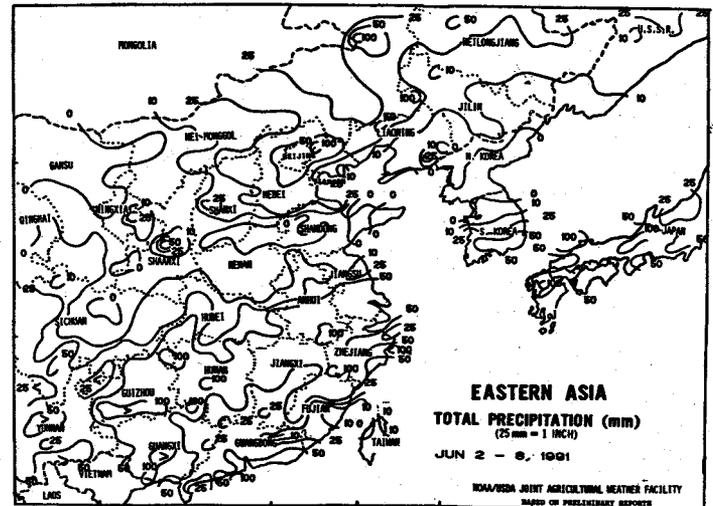
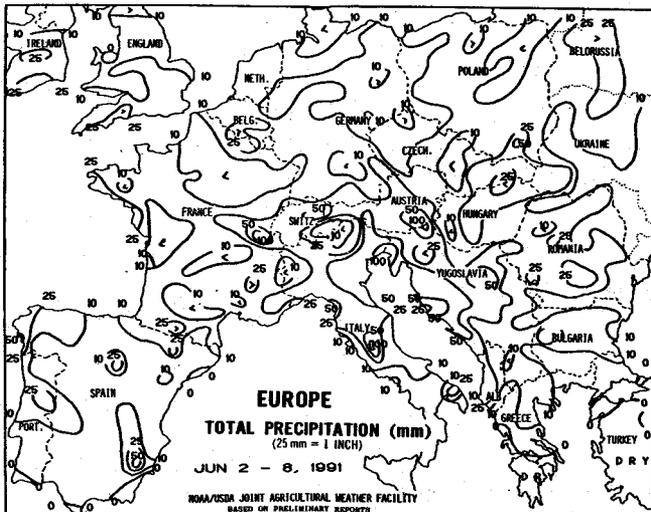
MEXICO ... Corn planting is delayed due to a slow start to the rainy season.



USSR ... In Western USSR, rain continued over the Baltic States, Belorussia, the Central Region, Volga Vyatsk Region, Volga, and parts of the North Caucasus. Precipitation amounts generally ranged from 10 to 31mm with locally heavy rain (50-106mm) falling over the middle Volga. Light precipitation (generally less than 10mm) covered crop areas in Moldova, the eastern two-thirds of the Ukraine, Black Soils Region, and the lower Volga. Moisture conditions over the region are sufficient for winter grains in or nearing reproduction throughout the Ukraine, North Caucasus, Black Soils Region, North Caucasus, and Volga. Spring grains were entering reproduction in the extreme south, while corn, sunflower, and sugarbeets were in the early vegetative stage. Crop condition for winter grains and corn was reported to be good to satisfactory. Weekly average temperatures were 2-4 degrees Celsius (C) below normal over the region.

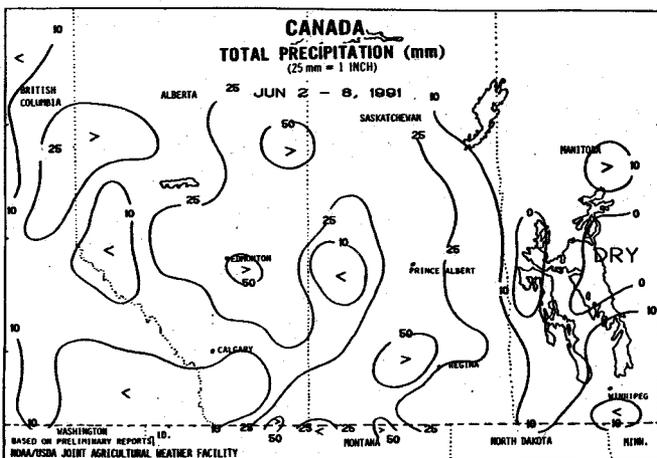


In the New Lands, unseasonably warm, dry weather continued to worsen developing drought conditions. Driest areas include Kazakhstan, the eastern Urals, and the western half of West Siberia. Persistent dryness in these areas since early April along with periodic heat have diminished topsoil moisture creating unfavorable conditions for early growth of spring grains. Weekly average temperatures were 4-7 degrees Celsius above normal over the region. Highest temperatures in the driest areas ranged from 32 to 34 degrees Celsius. Widespread, soaking rain is needed soon to prevent rapid crop deterioration and irreversible damage.

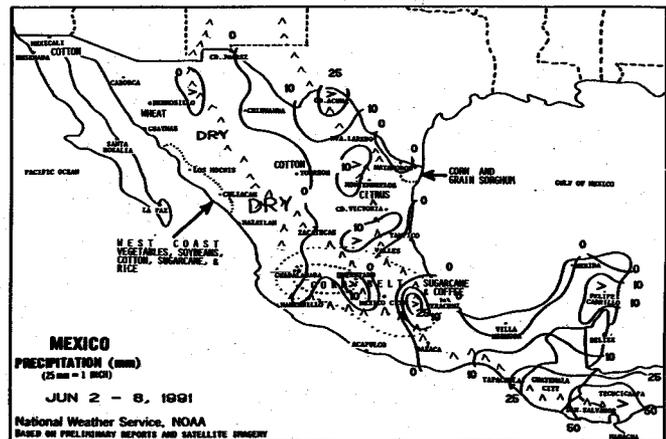


EUROPE ... Beneficial showers fell in southern portions of the United Kingdom, France, the Benelux countries, and northwestern portions of the Iberian peninsula. Weekly rainfall generally averaged 10-30mm, wetting topsoils for summer crop growth and providing some needed moisture for immature winter grains across the north. Widespread showers produced highly variable weekly rainfall (4-45mm) over the remainder of Europe, maintaining mostly favorable moisture for crop development. Locally heavy rain (50-127mm) soaked northeastern and central Italy, and western Yugoslavia. Dry weather was confined to southern Greece, and south-coastal Spain. Weekly temperatures averaged 1-3 degrees C below normal in the south, and 3-4 degrees C below normal in the north. Crop progress continues to lag behind average due to the persistent cool spring weather.

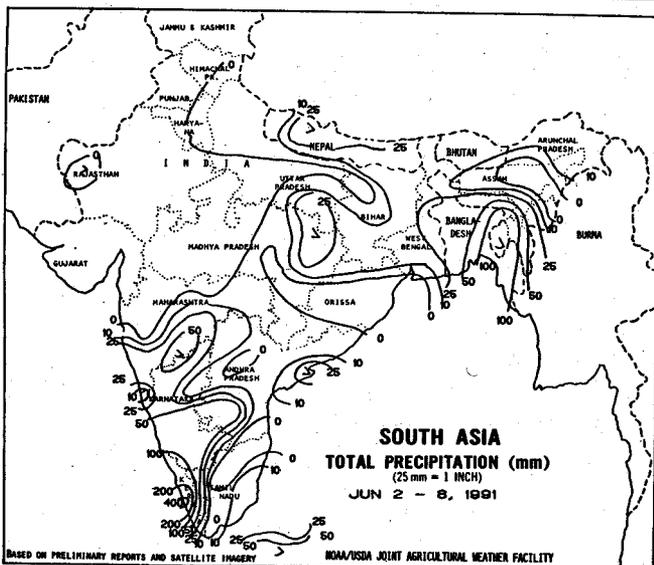
EASTERN ASIA ... Most of Manchuria received light to moderate rains (5-20mm), while moderate to heavy rains fell across northern portions of Heilongjiang, aiding germination of spring grains and soybeans. Heavy rains (43-135mm) fell in Hebei which may have caused some local flooding and lodged maturing winter grains. Mostly dry weather prevailed across most of the North China Plain assisting the dry-down of maturing winter wheat. Harvesting should be beginning in the southern wheat areas. The Yangtze Valley received moderate to heavy rains (51-131mm) benefiting vegetative single-crop rice. While Fujian, Guangdong, and Jiangxi have been receiving moderate rains (25-50mm) the last few weeks; those areas of China normally receive 50-65mm a week. Beneficial rains again fell across Guangxi and Guizhou. Temperatures were 2 to 4 degrees C above normal along the southern provinces.



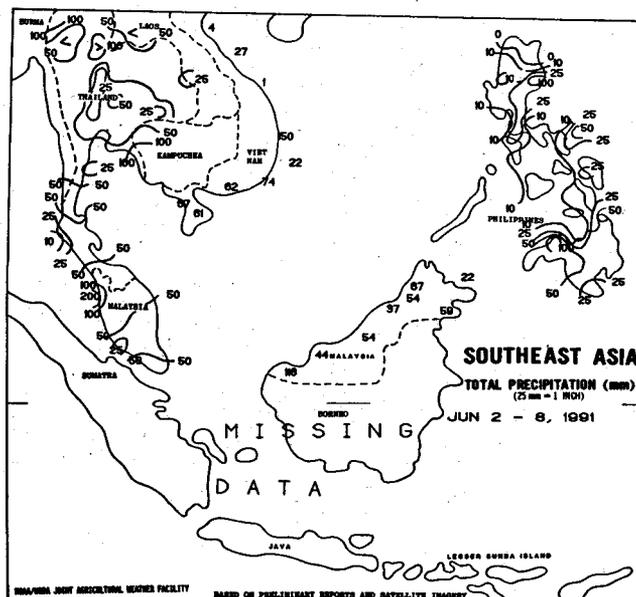
CANADA ... Beneficial showers (20-69mm) and continuing near to above normal temperatures maintained favorable conditions for spring wheat emergence and establishment over most Prairies crop areas. Dry pockets continued, however, over local areas of southern Alberta and Manitoba, allowing rapid planting progress but reducing topsoil moisture for early growth. Spring wheat seeding was reported virtually complete across the Prairies.



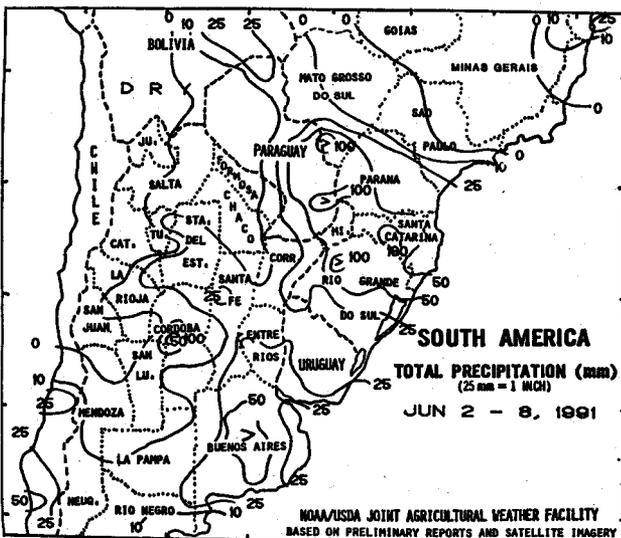
MEXICO ... Light rains (5-18mm) fell across the Southern Plateau corn belt and the northeast. The rainy season is still slow to start, delaying corn planting due to dry topsoils.



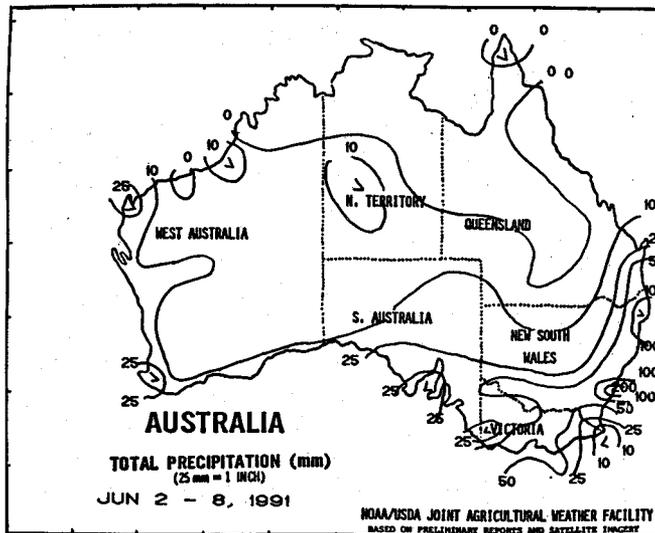
SOUTH ASIA ... Moderate to heavy showers (37-132mm) fell over southern India, with heaviest rain (464mm) concentrated over the southwestern state of Kerala. The recent rain, as well as the increased tropical activity over the Arabian Sea and the Bay of Bengal, signaled the arrival of the southwest monsoon, which appears to be progressing normally. Elsewhere, hot, dry weather dominated most of central and northwestern India and Pakistan. Although temperatures in these areas averaged 3 degrees C above normal, hot weather is not unusual just prior to the onset of the southwest monsoon (mid June to mid July in the central and northwestern regions). In contrast, rain and somewhat milder weather continued over Bangladesh and India's eastern states, which have already received early season rains from recent cyclone activity.



SOUTHEAST ASIA ... Widespread beneficial showers (26-56mm) continued over Thailand's primary rice and corn areas, improving conditions in most areas for normal vegetative growth. Temperatures were seasonably warm, with only local areas reporting highs in the upper 30's C. In the Philippines, rainfall continued to be limited to eastern and southern crop regions, with dry, warm weather persisting over most main season crop areas from northern Luzon to the west-central islands. Rain is needed soon in the western Philippines to prevent further losses in yield potential of main season grains.



SOUTH AMERICA ... Early week thunderstorms produced moderate to heavy rains across Buenos Aires and Santa Fe in Argentina. The rains again delayed soybean harvesting and wheat planting, produced some local flooding, and caused minor crop damage. By late in the week, thunderstorms dumped heavy rains (34-120mm) in southern Brazil, delaying fieldwork. However, before the thunderstorms, favorable harvest conditions existed throughout southern Brazil. Farther north, in Sao Paulo and Minas Gerais, dry weather aided in harvesting of coffee and citrus crops.



AUSTRALIA ... A strong frontal system swept across the southern portions of the continent, bringing moderate showers (19-70mm) to the wheat areas of South Australia, southern New South Wales, and Victoria. The rain boosted much needed topsoil moisture in those areas, where dryness was becoming a concern. Lesser amounts (2-22mm) fell in the Queensland and northern New South Wales wheat areas, providing some moisture for emerging winter wheat. Western Australia received light rains (less than 10mm) which should allow winter wheat planting to progress. The majority of the winter grains (winter wheat and barley) still have not been planted. Temperatures ranged from 2 to 4 degrees C above normal in the east and near normal in the west.

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

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

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(Continued from p. 8)

early in the month, but a brief respite at mid-month allowed growers to get much of their acreage seeded. Cool nights slowed cotton germination in Arizona, prompting replanting statewide. Crop condition at the end of May rated mostly good to fair nationwide, with good conditions from California through the Southwest, and mostly fair conditions in the eastern half of the Nation.

Entering May, rice plantings were behind normal in the five principal producing States, and continued rains in the Delta held progress in check throughout the month. Planting by June 2 was completed in Texas, nearly complete in California, and delayed in the Lower Mississippi Valley because of wet weather. Mississippi planting was only 50% complete, compared with 97% normal. Progress in Arkansas and Louisiana was 15 points behind normal, at 79% and 83% complete.

(Continued from p. 15)

melon and pepper harvests were winding down. Onion, cabbage, tomato, and bean harvests continued in full swing in the San Antonio-Winter Garden area; however, fungi and disease problems remained a concern. Insect and disease problems were increasing in East Texas and some spraying was underway. Trans-Pecos onion harvest was in full swing.

PASTURES AND LIVESTOCK: Pasture and range feed condition rated mostly good across the Nation. Movement of livestock to summer ranges continued in the Rocky Mountains.

NOAA/USDA Joint Agricultural
Weather Facility
Room 5844 USDA South Building
Washington, D.C. 20250

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ISSN 0043 1974

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