

WEEKLY WEATHER AND CROP BULLETIN

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

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

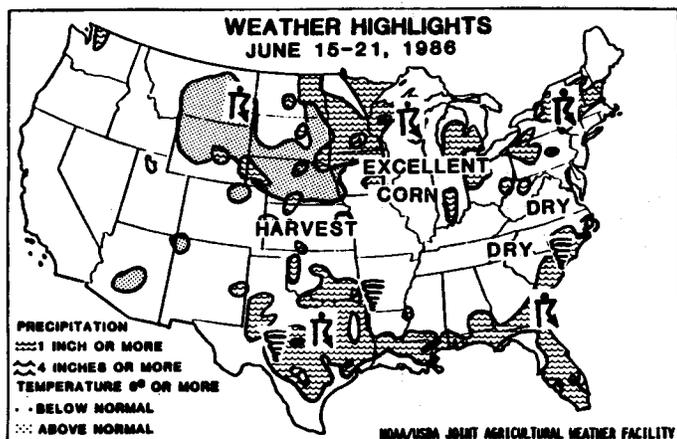
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June 24, 1986

National Weather Summary

June 15 to 21, 1986



HIGHLIGHTS: Showers and thunderstorms were widespread in most of Eastern United States. However, the area from central Maryland and Virginia, through the interior of the Carolinas, in the southern Appalachians, and into central Georgia had little or no rain. Severe weather was widespread through much of Texas, parts of the central and northern Great Plains, and the upper Mississippi Valley. Heavy showers fell throughout the Great Lakes region, the Northeast, along the gulf coast, and through Florida. Temperatures were cool in the Northeast but much warmer than normal in parts of the central and northern Great Plains and the western Corn Belt.

SUNDAY...Thunderstorms were widely scattered from eastern Texas to eastern Nebraska but more widespread along the gulf coast, Florida, and along the southeastern coast. Showers and thunderstorms were also scattered from North Dakota through the Great Lakes to western Pennsylvania and New England. Night temperatures were cool in the western mountains, but afternoon highs were very warm in all but the northern tier of States.

MONDAY...Violent thunderstorms erupted through eastern Texas and central Oklahoma and extended all along the gulf coast and the southeastern coast. Other showers and thunderstorms were widespread from the upper Ohio Valley through New England.

TUESDAY...Occasional severe weather accompanied thunderstorms all across the South from Arizona to the Carolinas and Florida. More violent weather broke out from eastern North Dakota to eastern Iowa. A Pacific storm brought showers to the Northwest and the Canadian Prairies.

WEDNESDAY...Showers and thunderstorms were widespread throughout Texas, occasionally accompanied by tornadoes and other severe weather. The storms extended northward to the central Rockies and along the gulf coast to southeastern Georgia and Florida. Thunderstorms also reached from eastern Minnesota through the Great Lakes. Showers continued in the Northwest. The Northeast had unusually cool temperatures, and the central and northern Plains had afternoon temperatures that reached into the nineties.

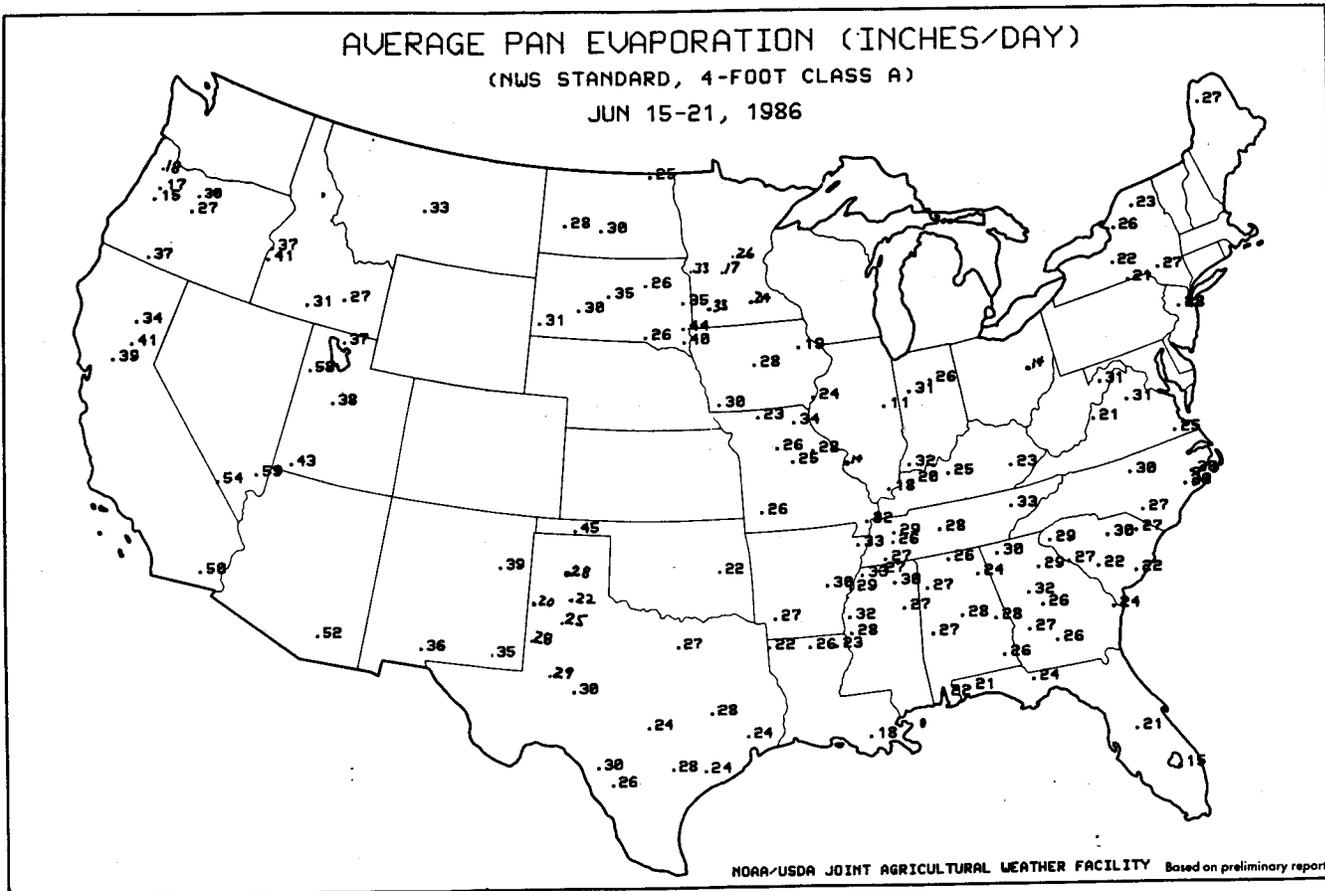
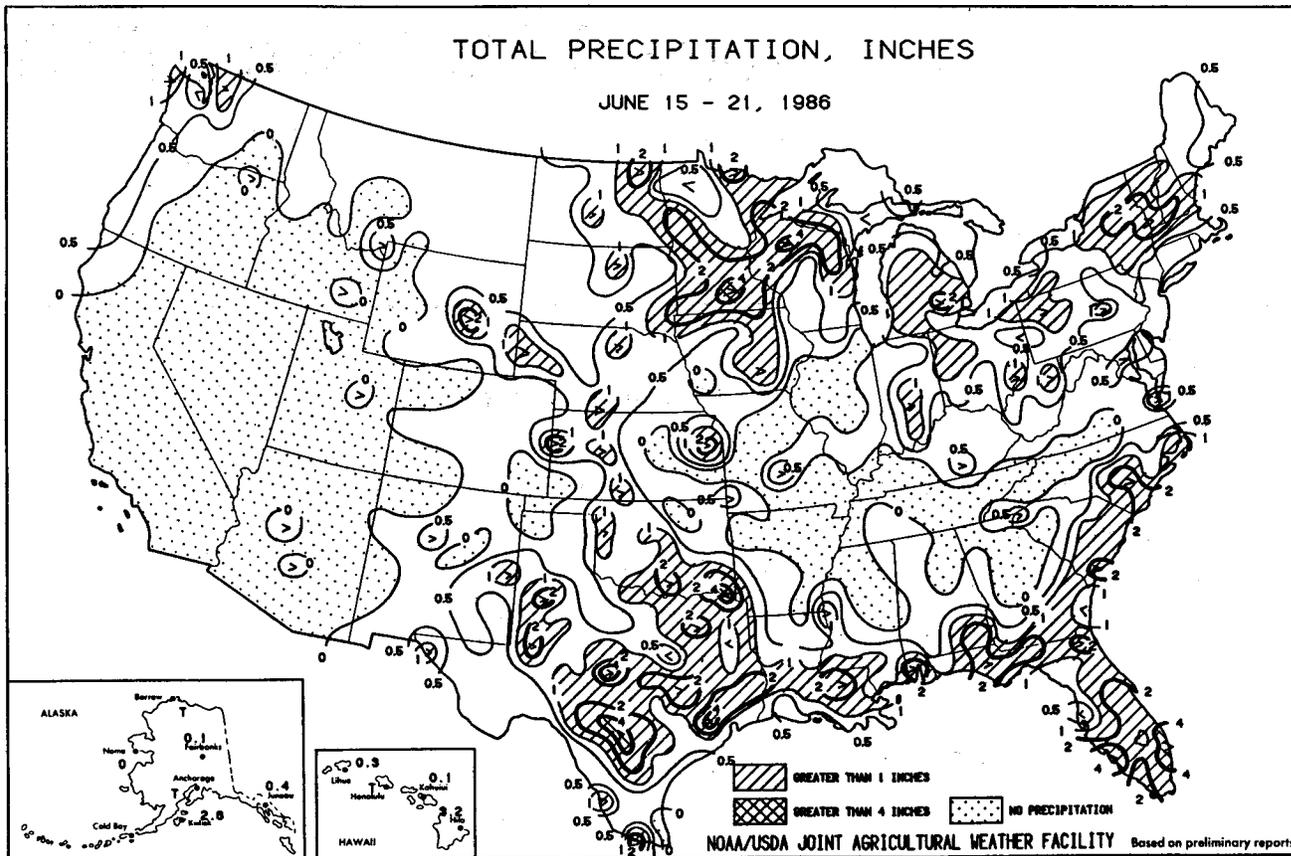
THURSDAY...Showers and thunderstorms were scattered from eastern and northwestern Texas through the Rockies and over the northern Plains. Showers and a few thunderstorms were widespread in the Northeast, along the gulf coast, and in Florida. Cool weather continued in the Northeast, and high temperatures reached into the nineties in the Plains and western Corn Belt.

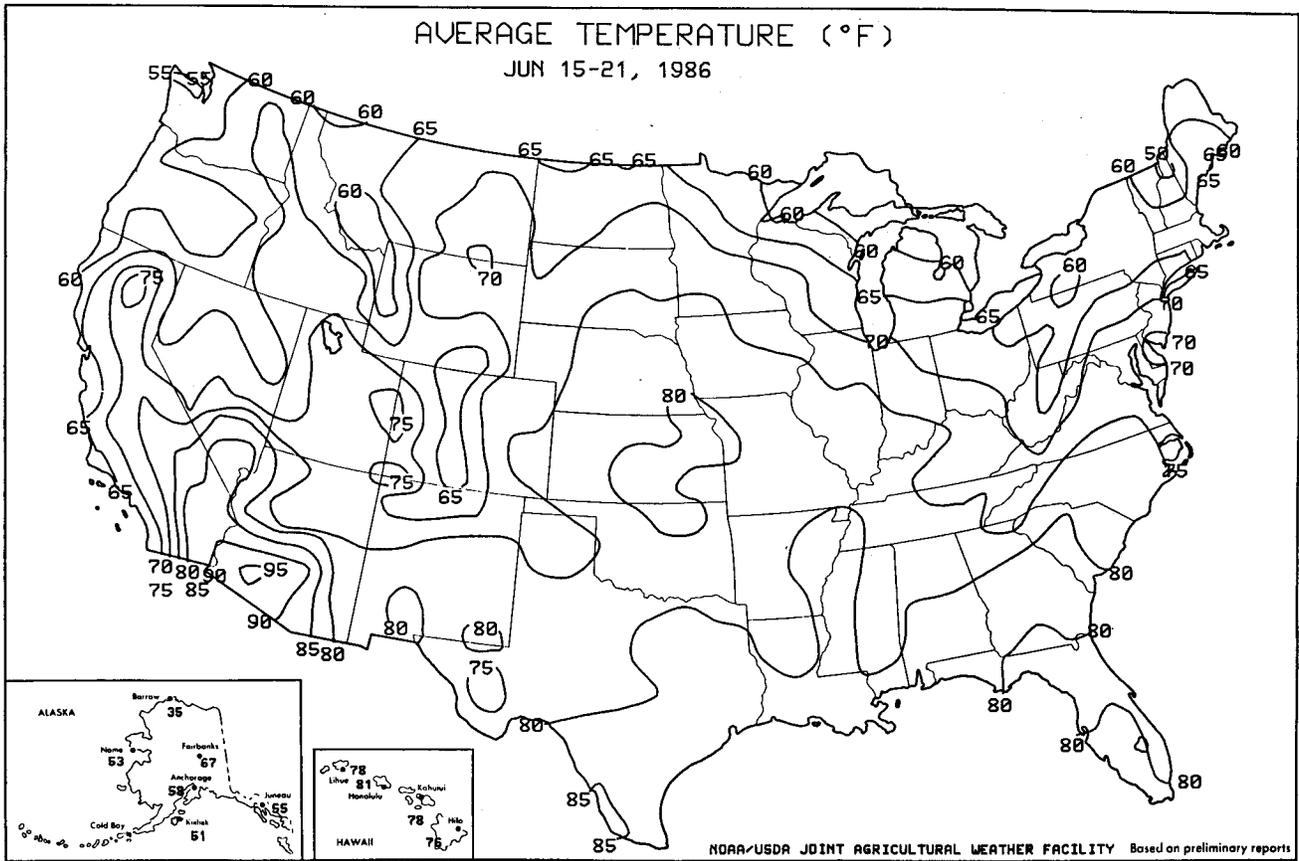
FRIDAY...Thunderstorms continued along the gulf coast of Florida and were scattered all along the east coast and from the upper Ohio Valley into Virginia. Thunderstorms were scattered through most of the Plains but were severe and widespread from eastern South Dakota through Minnesota and northern Wisconsin.

SATURDAY...Thunderstorms were widespread through the central and northern Plains and upper Mississippi Valley. Severe weather was concentrated in southern Minnesota, western Wisconsin, and eastern Iowa. Thunderstorms were over the eastern gulf coast and through Florida. Heavy showers covered southern Florida.

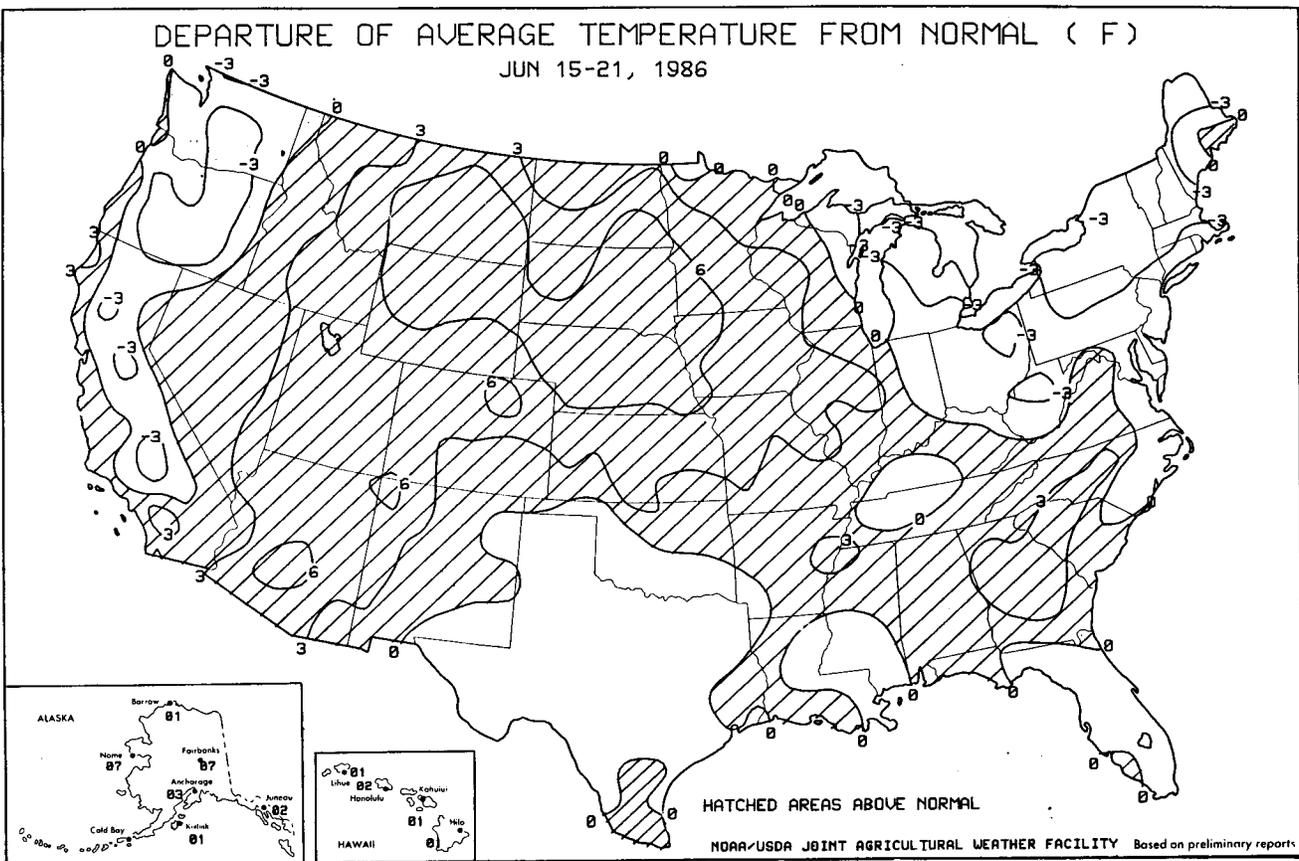
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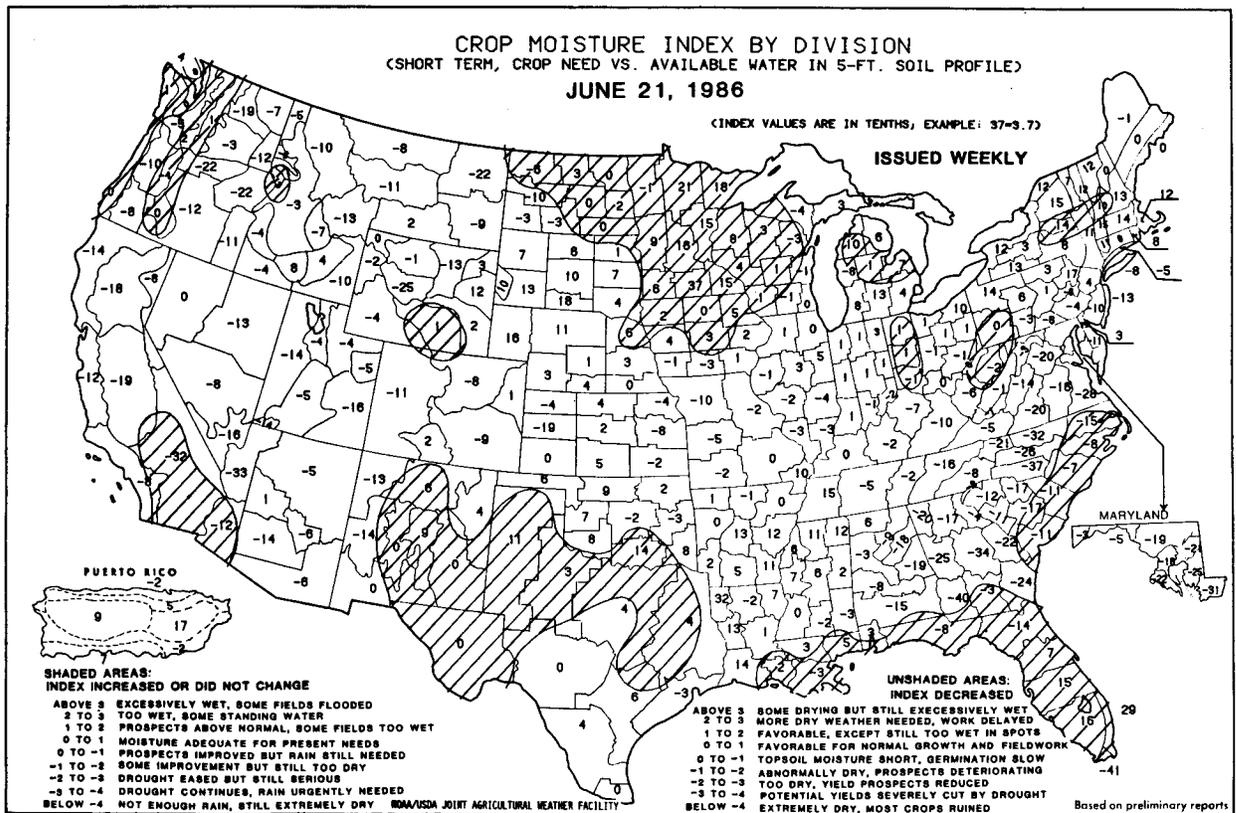
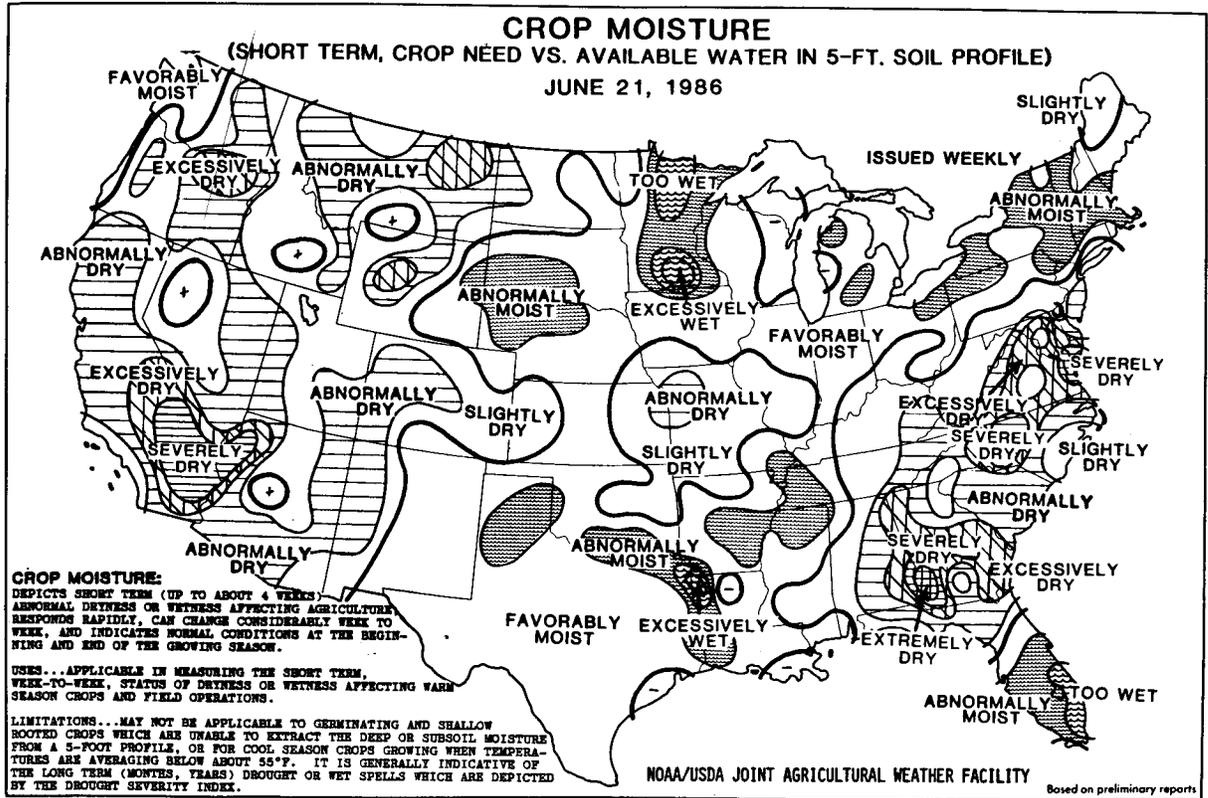
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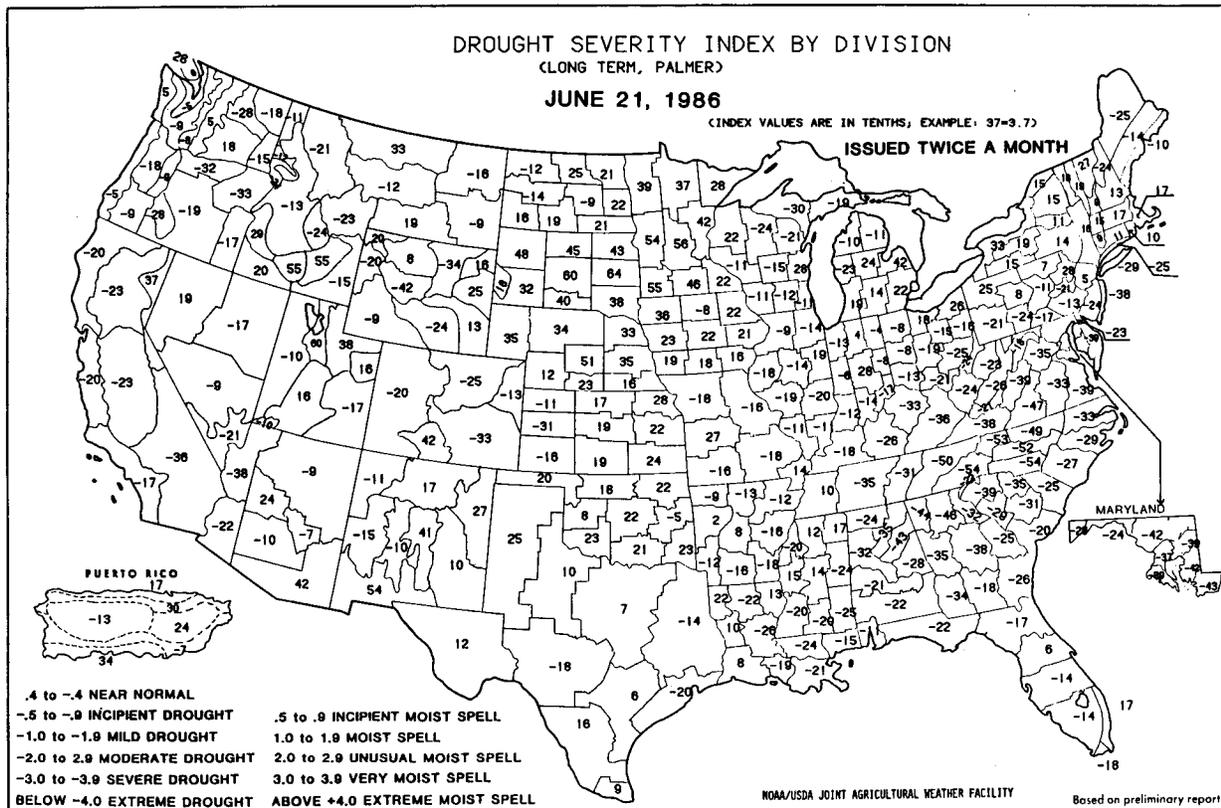
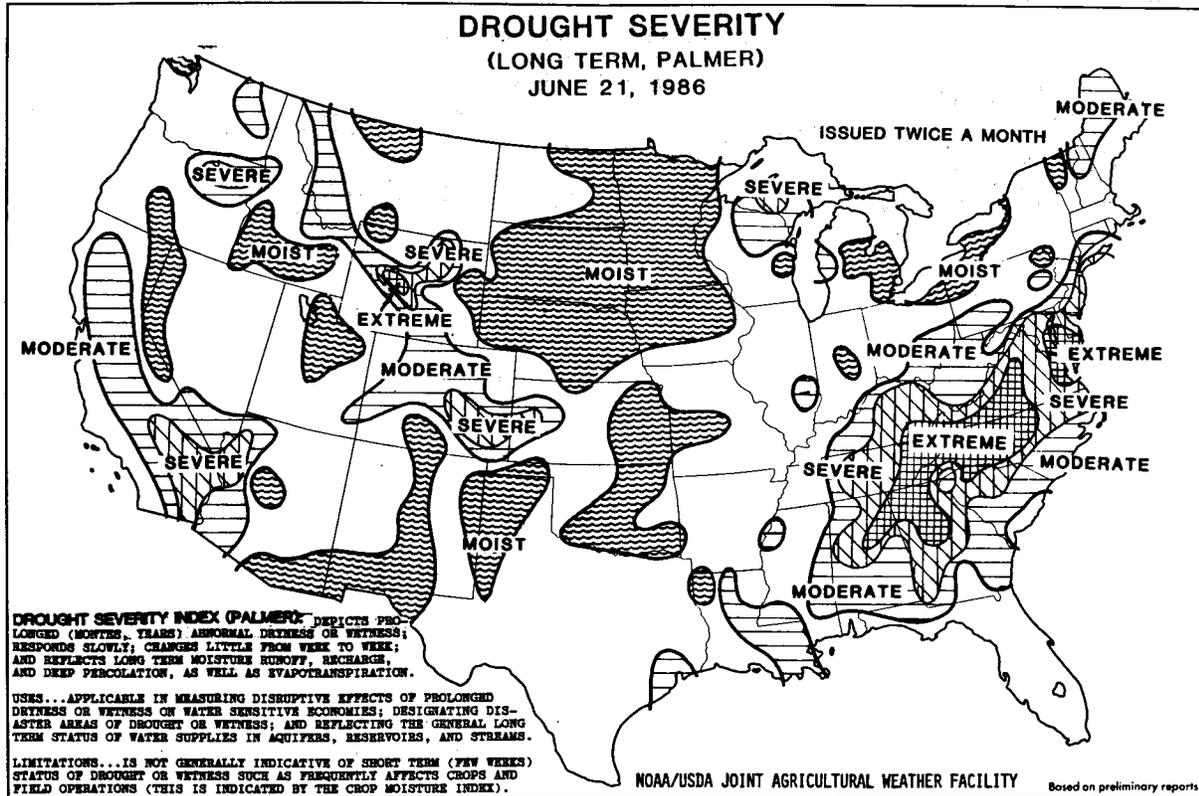


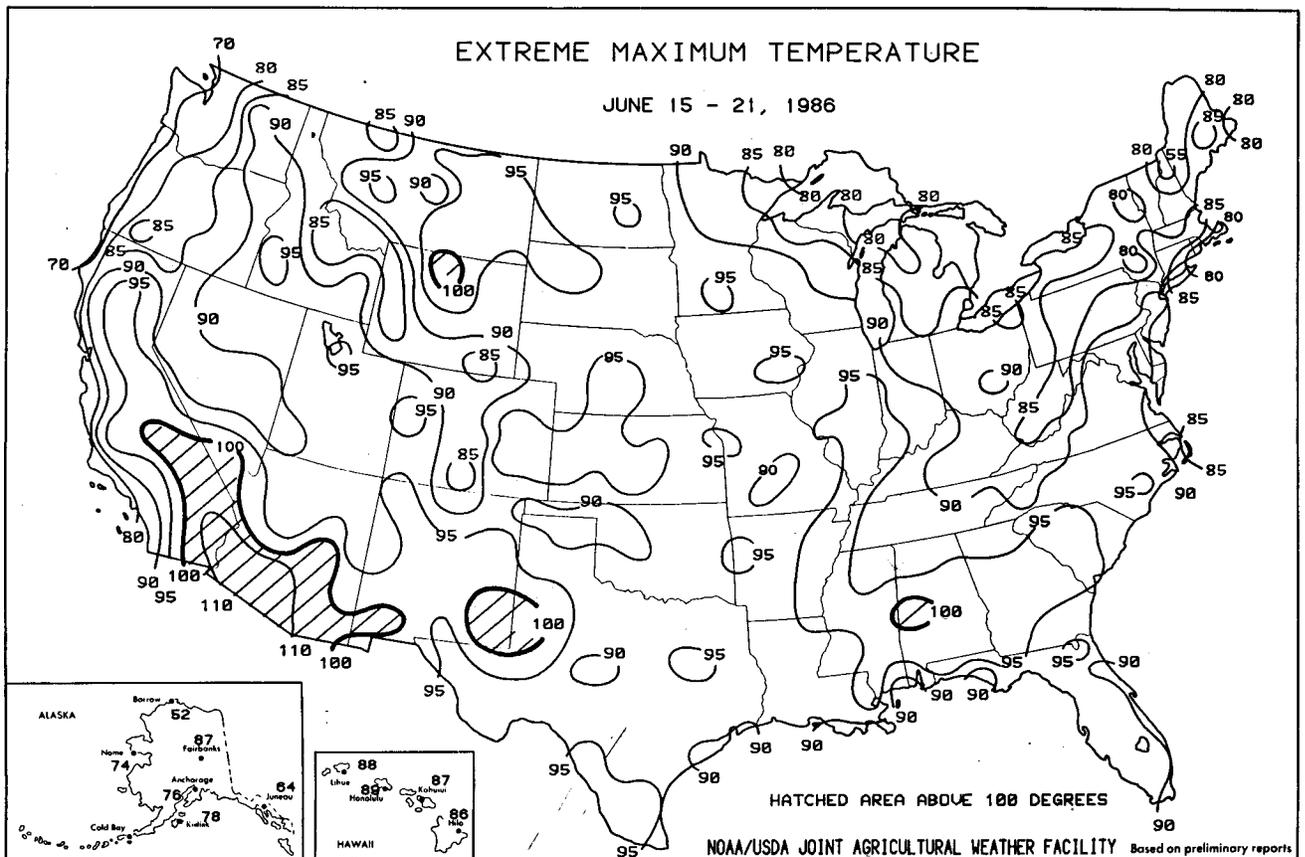
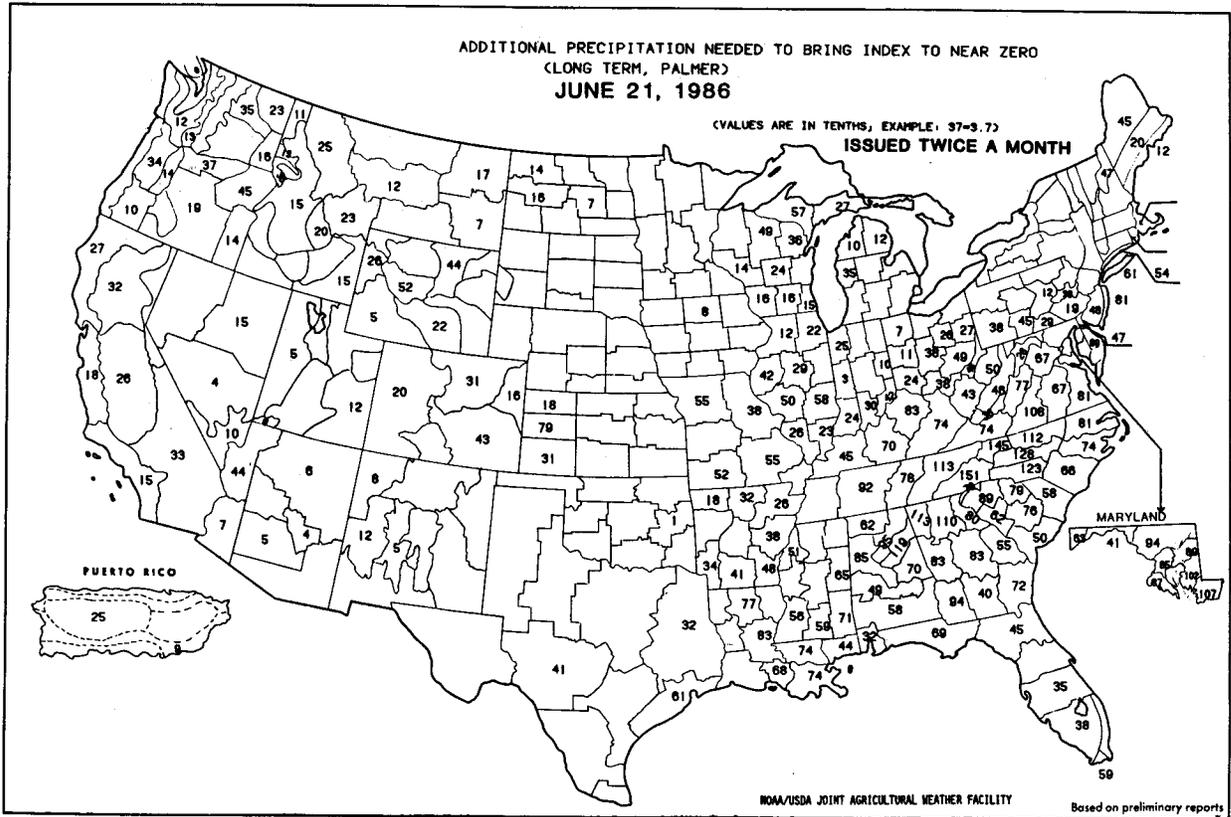


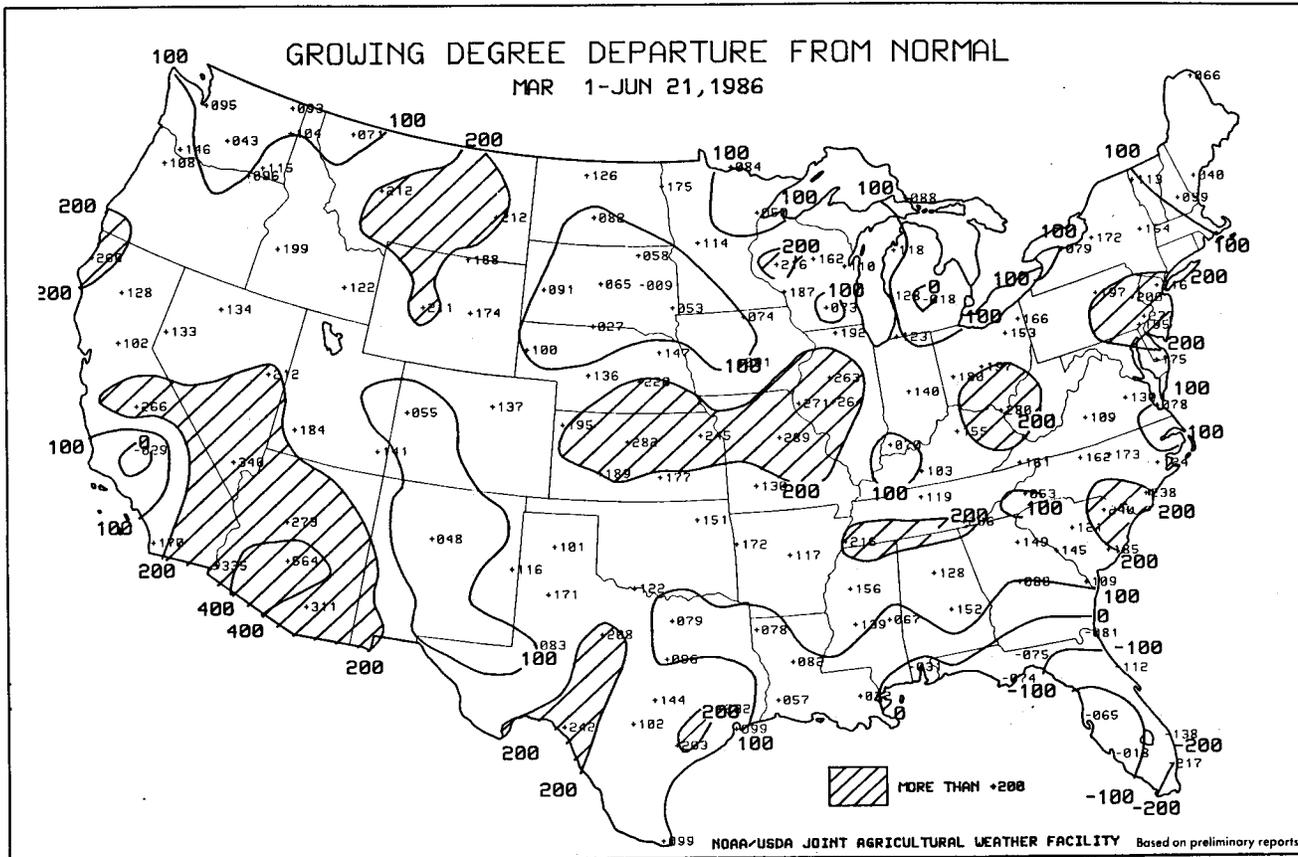
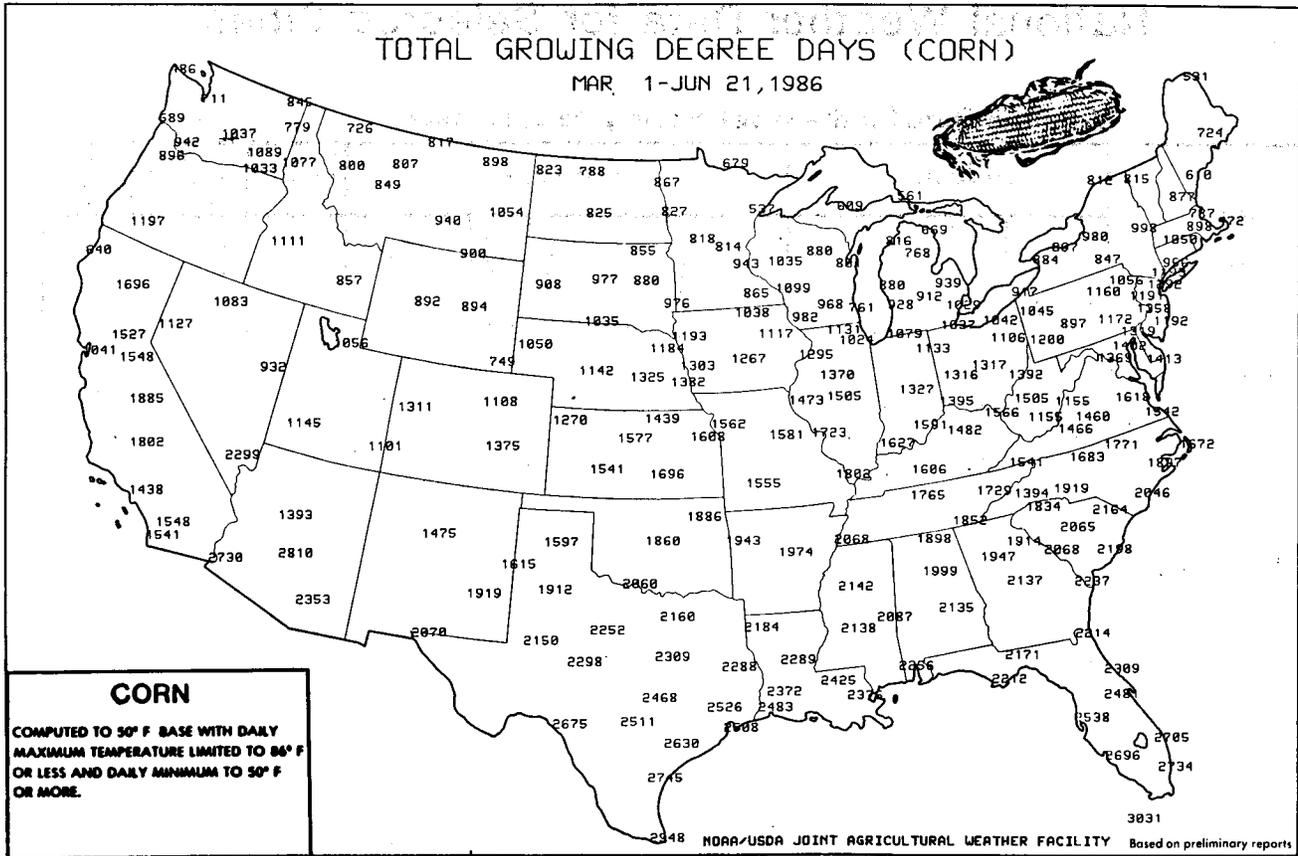
Point values may differ on these computerized maps from the reported values in the tables.











National Weather Data for Selected Cities

Weather Data for the Week Ending June 21, 1986

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 JUNE 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE			
																90 AND ABOVE	82 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	91	65	95	62	78	1	T	-1.4	T	1.4	56	10.8	38	92	41	6	0	0	0
MOBILE	91	70	93	68	81	0	1	2.6	1.4	1.6	5.0	149	22.7	97	53	5	7	1	2
MONTGOMERY	93	69	98	64	81	0	0	.2	-1.4	1.0	43	22.7	90	96	44	0	0	0	
AK ANCHORAGE	67	50	76	41	59	3	T	T	-1.1	T	T	T	80	43	0	0	1	0	
BARROW	40	30	52	28	35	1	T	T	-1.1	T	5	5	45	71	0	0	6	0	
FAIRBANKS	78	55	87	50	67	2	T	T	-1.1	T	20	2.1	68	69	0	0	2	0	
JUNEAU	60	51	64	49	55	7	T	T	-1.1	T	93	23.7	124	92	27	0	0	0	
KODIAK	57	45	78	42	51	1	T	T	-1.1	T	16	1.8	47	98	71	0	0	2	
NOME	61	45	74	41	53	7	T	T	-1.1	T	413	36.6	108	98	71	0	0	0	
AZ PHOENIX	108	81	110	77	95	7	T	T	-1.1	T	13	2.9	112	26	8	7	7	0	
PRESCOTT	90	55	91	51	73	5	T	T	-1.1	T	512	4.3	69	40	13	5	5	0	
TUCSON	104	71	107	67	88	4	T	T	-1.1	T	500	3.9	150	34	10	7	7	0	
YUMA	108	75	110	72	92	4	T	T	-1.1	T	0	0	50	50	12	7	7	0	
AR FORT SMITH	92	66	96	60	79	1	T	T	-1.1	T	68	19.6	44	44	12	5	5	0	
LITTLE ROCK	91	70	95	64	81	2	T	T	-1.1	T	196	21.6	97	80	45	6	6	0	
CA BAKERSFIELD	89	59	94	55	74	-5	T	T	-1.1	T	0	4.3	110	70	25	4	0	0	
EUREKA	67	52	70	50	60	0	T	T	-1.1	T	0	0	70	40	0	0	0	0	
FRESNO	92	61	97	57	76	1	T	T	-1.1	T	45	27.4	123	87	64	0	0	0	
LOS ANGELES	74	60	76	59	67	0	T	T	-1.1	T	0	9.7	137	62	22	6	0	0	
RED BLUFF	89	61	99	55	75	-2	T	T	-1.1	T	0	0	12.9	154	93	0	0	0	
SACRAMENTO	87	54	97	51	71	-1	T	T	-1.1	T	0	0	21.9	171	57	20	3	0	
SAN DIEGO	72	62	74	61	67	0	T	T	-1.1	T	0	0	16.3	152	88	27	3	0	
SAN FRANCISCO	71	54	82	51	63	2	T	T	-1.1	T	0	0	7.6	123	89	62	0	0	
CO DENVER	90	58	93	53	74	6	T	T	-1.1	T	0	0	18.6	149	93	52	0	0	
GRAND JUNCTION	93	60	97	56	76	3	T	T	-1.1	T	95	6.2	79	64	18	5	5	0	
PUEBLO	94	54	98	52	74	2	T	T	-1.1	T	43	2.6	68	41	15	6	6	0	
CT BRIDGEPORT	77	58	85	50	68	-1	T	T	-1.1	T	148	3.2	71	82	17	7	7	0	
HARTFORD	78	53	88	47	66	-4	T	T	-1.1	T	118	12.6	66	87	46	0	0	0	
DC WASHINGTON	85	65	92	58	75	-4	T	T	-1.1	T	280	21.6	104	90	41	0	0	0	
FL APALACHICOLA	90	71	94	69	81	0	T	T	-1.1	T	36	10.2	58	81	37	2	0	0	
DAYTONA BEACH	86	71	89	69	79	1	T	T	-1.1	T	56	17.8	87	94	65	3	0	1	
JACKSONVILLE	90	70	94	68	80	0	T	T	-1.1	T	3	68	14.7	79	100	67	0	0	
KEY WEST	89	79	90	77	84	-1	T	T	-1.1	T	63	19.8	89	97	59	4	0	0	
MIAMI	87	73	92	72	80	-1	T	T	-1.1	T	42	7.6	57	82	64	3	5	0	
ORLANDO	89	71	91	70	80	-1	T	T	-1.1	T	2.5	8.0	122	34.3	155	96	66	2	
TALLAHASSEE	92	66	97	63	79	-1	T	T	-1.1	T	8.0	179	21.9	114	97	63	1	3	
TAMPA	87	73	90	70	80	-1	T	T	-1.1	T	1.6	8.9	78	99	53	6	6	0	
WEST PALM BEACH	87	72	88	70	79	-2	T	T	-1.1	T	4.0	2.4	138	22.5	78	99	62	0	
GA ATLANTA	92	69	95	67	80	4	T	T	-1.1	T	.4	-1.9	42	12.9	74	93	62	0	
AUGUSTA	93	69	99	68	81	3	T	T	-1.1	T	2.7	1.6	7.9	142	23.2	102	97	70	
MACON	95	70	98	68	83	3	T	T	-1.1	T	1.4	62	12.4	48	88	35	6	0	
SAVANNAH	90	71	97	71	81	2	T	T	-1.1	T	1.0	35	12.0	53	97	41	6	0	
HI HILO	84	69	86	67	76	2	T	T	-1.1	T	-1.0	38	12.2	51	92	37	7	0	
HONOLULU	88	74	89	73	81	2	T	T	-1.1	T	1.0	-4.4	3.0	78	15.6	72	95	56	
KAHULUI	84	71	87	68	78	1	T	T	-1.1	T	3.2	1.8	5.5	130	79.4	126	93	62	
LIHUE	84	73	88	72	78	2	T	T	-1.1	T	0	0	3	78	3.1	24	80	49	
ID BOISE	85	52	98	45	68	1	T	T	-1.1	T	1.1	2	79	10.2	82	88	55	0	
LEWISTON	79	53	93	45	66	-1	T	T	-1.1	T	0	0	99	8.6	39	89	65	0	
POCATELLO	83	52	93	48	68	5	T	T	-1.1	T	0	0	47	9.7	141	62	17	2	
IL CHICAGO	82	57	92	51	70	0	T	T	-1.1	T	2.2	2.2	14	5.6	81	64	28	1	
MOLINE	88	64	95	53	76	4	T	T	-1.1	T	3	41	9.4	154	68	20	2	0	
PEORIA	87	63	93	56	75	3	T	T	-1.1	T	2.0	70	11.4	75	88	48	2	0	
QUINCY	87	65	91	60	76	3	T	T	-1.1	T	2.1	72	15.1	89	86	42	3	0	
ROCKFORD	83	60	92	51	72	2	T	T	-1.1	T	4.8	177	12.0	74	96	52	3	0	
SPRINGFIELD	88	65	93	57	76	2	T	T	-1.1	T	0	0	4.0	144	14.1	83	91	52	
IN EVANSVILLE	89	64	97	56	76	1	T	T	-1.1	T	0	0	1.9	60	12.8	79	89	54	
FORT WAYNE	81	57	87	49	69	-1	T	T	-1.1	T	0	0	4.7	183	12.1	74	92	48	
INDIANAPOLIS	85	62	92	52	73	1	T	T	-1.1	T	0	0	3.8	155	18.6	87	93	44	
SOUTH BEND	81	58	88	49	70	0	T	T	-1.1	T	0	0	3.6	142	16.2	98	90	48	
IA DES MOINES	88	66	94	59	77	4	T	T	-1.1	T	1.3	3	3.2	116	22.3	119	89	49	
SIoux CITY	89	67	91	61	78	6	T	T	-1.1	T	0	0	4.4	112	18.2	87	90	45	
WATERLOO	85	62	93	51	74	4	T	T	-1.1	T	0	0	3.6	131	14.8	86	90	49	
KS CONCORDIA	90	66	91	59	78	3	T	T	-1.1	T	1.4	4	1.2	5.8	197	19.3	131	90	47
DODGE CITY	89	66	93	62	77	2	T	T	-1.1	T	0	0	4.7	155	15.0	119	92	46	
GOODLAND	91	62	95	60	76	6	T	T	-1.1	T	0	0	3.9	182	7.9	81	92	44	
TOPEKA	93	68	95	62	80	6	T	T	-1.1	T	0	0	3.3	170	9.2	118	89	29	
WICHITA	92	69	94	64	80	3	T	T	-1.1	T	1.4	1.8	50	15.4	104	91	45	7	
KY BOWLING GREEN	86	61	90	54	73	-2	T	T	-1.1	T	2.9	100	10.2	81	92	43	7	0	
LEXINGTON	86	60	90	52	73	0	T	T	-1.1	T	0	0	1.8	58	16.2	63	96	45	
LOUISVILLE	87	64	93	56	76	0	T	T	-1.1	T	0	0	1.0	35	11.3	50	88	39	
LA ALEXANDRIA	88	70	91	69	79	-3	T	T	-1.1	T	0	0	2.3	90	15.1	68	85	42	
BATON ROUGE	91	71	93	70	81	0	T	T	-1.1	T	1.9	1.1	5.3	193	16.7	56	92	66	
LAKE CHARLES	90	73	92	71	82	1	T	T	-1.1	T	2.2	1.5	4.3	228	23.3	88	96	57	
NEW ORLEANS	90	71	92	69	80	-1	T	T	-1.1	T	0	0	3	4.5	156	18.9	81	98	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending June 21, 1986

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 JUNE 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	91	69	94	67	80	0	.8	0	.6	7.7	310	22.5	97	99	52	6	0	3	1
ME CARIBOU	69	44	77	35	57	-5	.7	0	.7	1.9	90	14.6	100	80	37	0	0	2	2
MD PORTLAND	73	50	82	46	61	-2	1.3	-.6	.7	3.8	177	23.2	112	90	44	0	0	1	2
MD BALTIMORE	84	61	92	52	73	0	.2	-.7	.2	1.3	50	11.2	59	93	37	0	0	2	0
MA SALISBURY	83	57	89	52	70	-2	T	-.8	T	.3	11	11.3	57	90	39	1	0	0	0
MA BOSTON	75	55	86	35	65	-4	.6	-.1	.5	7.7	364	20.3	96	86	45	0	0	2	1
MA CHATHAM	69	57	73	51	63	1	.1	-.5	-.1	2.8	143	15.1	68	96	45	0	0	2	0
MI ALPENA	74	42	82	36	58	-4	.1	-.7	.1	2.4	108	11.0	88	97	43	0	0	0	0
MI DETROIT	80	55	88	48	67	-1	.8	-.1	.7	5.4	226	16.6	115	93	47	0	0	2	1
MI FLINT	77	51	83	43	64	-3	1.8	1.1	1.5	5.0	219	13.6	102	95	54	0	0	2	1
MI GRAND RAPIDS	77	53	85	45	65	-3	1.6	.6	1.0	6.1	223	19.3	127	96	54	0	0	2	2
MI HOUGHTON LAKE	73	47	79	40	60	-3	1.1	.4	1.1	3.4	155	13.3	111	89	47	0	0	2	1
MI LANSING	77	53	83	45	65	-3	1.0	.2	.7	8.9	363	17.9	134	96	55	0	0	2	1
MI MARQUETTE	74	42	80	31	58	-2	.1	-.8	.1	1.8	67	13.2	78	89	43	0	0	2	0
MI MUSKEGON	77	54	86	43	66	-1	.6	0	.6	.9	51	10.3	73	90	46	0	0	1	1
MI SAULT STE. MARIE	70	41	76	36	56	-4	.7	-.1	.7	4.7	206	14.5	107	97	54	0	0	1	1
MN ALEXANDRIA	82	61	92	51	72	0	1.5	.7	.8	3.4	122	16.0	151	92	51	2	0	3	2
MN DULUTH	74	46	86	36	60	0	3.1	2.1	2.0	7.3	263	16.3	136	97	57	0	0	4	2
MN INT'L FALLS	76	50	87	36	63	1	2.3	1.4	1.7	2.8	113	8.5	92	96	52	0	0	2	2
MN MINNEAPOLIS	85	63	93	52	74	5	3.5	2.5	2.3	4.0	139	17.2	150	91	44	0	0	4	2
MS ROCHESTER	81	60	90	46	71	3	2.6	1.6	1.8	3.0	102	13.5	113	92	48	0	0	4	2
MS GREENWOOD	92	68	95	64	80	0	0	-.7	0	1.8	77	15.9	56	94	44	1	6	0	0
MS JACKSON	92	66	95	61	79	-1	.1	-.6	0	2.0	99	19.3	69	98	44	7	7	0	0
MS MERIDIAN	92	65	94	61	79	0	0	-.8	0	1.1	50	19.1	68	100	46	6	0	2	0
MO CAPE GIRARDEAU	91	66	96	60	78	0	0	-.8	0	2.5	100	23.7	104	90	38	6	0	0	0
MO COLUMBIA	89	64	92	60	77	3	0	-.8	0	.7	27	14.0	80	93	47	4	0	0	0
MO KANSAS CITY	91	69	93	64	80	6	.5	-.6	.5	1.7	52	10.9	70	87	45	5	0	1	0
MO SAINT LOUIS	91	68	95	63	80	4	.3	-.6	.3	3.9	151	13.5	80	80	40	4	0	1	0
MO SPRINGFIELD	88	65	90	63	77	2	0	-.1	0	2.0	60	13.0	69	93	49	2	0	0	0
MT BILLINGS	86	58	98	51	72	7	T	-.5	T	1.4	87	9.1	106	68	24	3	0	1	0
MT GLASGOW	84	55	98	48	70	6	.3	-.3	.3	.9	51	5.0	88	77	27	2	0	0	0
MT GREAT FALLS	81	51	93	42	66	3	.1	-.6	.1	1.0	50	7.1	81	76	23	0	0	2	0
MT HAVRE	83	50	95	46	67	3	T	-.5	T	.2	14	6.4	112	78	23	3	0	0	0
MT HELENA	83	50	97	47	67	6	T	-.5	T	1.0	68	4.9	82	67	19	3	0	0	0
MT KALISPELL	74	47	86	36	61	2	.1	-.5	.1	1.4	83	9.1	114	87	30	0	0	1	0
MT MILES CITY	89	61	98	53	75	8	.2	-.5	.1	1.6	78	7.3	99	78	33	0	0	2	0
MT MISSOULA	78	45	91	38	62	1	.1	-.4	.1	1.7	125	7.5	106	95	32	3	0	1	0
NE GRAND ISLAND	92	66	95	61	79	7	.6	-.3	.4	2.6	96	10.6	89	86	37	6	0	3	0
NE LINCOLN	91	68	93	56	80	7	.2	-.7	.2	1.6	57	13.3	102	86	45	4	0	1	0
NE NORFOLK	89	67	92	63	78	6	.7	-.4	.4	3.1	100	14.7	124	85	48	5	0	3	0
NE NORTH PLATTE	91	62	95	57	76	7	.3	-.6	.2	1.4	55	9.9	100	91	37	4	0	3	0
NE OMAHA	89	70	92	61	79	7	.1	-.9	.1	2.0	65	16.8	123	79	49	3	0	1	0
NE SCOTTSBLUFF	89	59	92	55	74	6	1.2	.5	1.2	5.6	267	12.4	155	83	37	3	0	1	1
NE VALENTINE	89	63	94	56	76	7	.2	-.5	.2	1.8	85	9.9	118	76	35	4	0	1	0
NV ELY	86	41	88	36	63	3	0	-.2	0	0	3	4.3	88	49	10	0	0	0	0
NV LAS VEGAS	102	73	104	69	87	3	0	0	0	.3	74	7.4	78	19	10	7	0	0	0
NV RENO	84	45	89	40	65	2	0	-.1	0	.2	17	3.5	78	48	12	2	0	0	0
NV WINNEMUCCA	86	44	93	33	65	1	0	-.2	0	.1	17	3.5	78	98	39	2	0	0	0
NH CONCORD	75	46	84	40	61	-5	2.0	1.3	1.1	5.0	243	19.1	118	88	12	0	0	2	0
NJ ATLANTIC CITY	81	55	88	48	68	-2	.2	-.4	.2	2.0	104	16.2	85	96	41	5	0	1	0
NM ALBUQUERQUE	82	62	96	59	77	1	.9	.7	.9	.9	293	3.7	148	55	17	0	0	2	0
NM CLOVIS	89	63	95	61	76	2	1.4	.8	1.0	3.0	168	7.2	113	77	32	3	0	2	1
NM ROSWELL	94	64	102	57	79	-1	.1	-.1	.1	.7	111	3.5	135	79	26	6	0	1	0
NY ALBANY	77	51	85	45	64	-4	1.9	1.1	1.0	5.0	215	19.5	120	94	42	0	0	3	2
NY BINGHAMTON	71	51	82	43	61	-4	.9	.1	.7	4.2	166	19.5	117	91	47	0	0	3	1
NY BUFFALO	73	54	85	48	63	-3	.4	-.3	.3	3.3	173	18.0	110	91	47	0	0	3	0
NY NEW YORK	81	63	88	55	72	0	.1	-.6	.1	1.4	63	15.6	79	78	39	0	0	1	0
NY ROCHESTER	74	49	86	43	62	-6	.7	0	.4	3.3	165	14.7	103	94	49	0	0	3	0
NY SYRACUSE	75	51	87	46	63	-4	1.6	.7	.8	4.4	175	17.9	103	94	45	0	0	2	2
NC ASHEVILLE	84	57	86	52	71	0	0	-1.0	0	1.1	37	10.9	47	97	43	0	0	0	0
NC CHARLOTTE	91	68	94	62	80	4	.1	-.8	.1	.2	8	8.0	37	85	36	5	0	1	0
NC GREENSBORO	88	64	93	57	76	2	0	-.9	0	.5	18	6.5	33	88	37	4	0	0	0
NC HATTERAS	81	66	84	57	74	-1	1.2	.2	.4	2.5	84	15.9	69	94	60	0	0	4	0
NC NEW BERN	85	66	93	61	76	-1	.8	-.2	.5	2.6	80	16.2	73	93	51	2	0	3	1
NC RALEIGH	89	66	94	59	78	3	T	-.8	T	.4	15	11.0	56	93	42	3	0	0	0
NC WILMINGTON	85	68	93	63	77	0	3.7	2.4	1.7	5.2	138	21.4	97	95	59	2	0	5	3
ND BISMARCK	84	54	94	42	69	4	1.1	.4	.7	1.6	76	9.2	121	96	47	2	0	3	1
ND FARGO	83	59	93	47	71	5	2.6	1.8	1.9	3.7	177	11.2	140	98	53	2	0	5	0
ND GRAND FORKS	82	59	94	45	70	6	.4	-.3	.4	.9	44	6.0	82	87	44	2	0	2	0
ND WILLISTON	80	53	92	46	67	2	.3	-.3	.2	1.1	56	8.7	130	89	43	1	0	2	0
OH AKRON-CANTON	76	52	86	43	64	-4	.4	-.4	.2	1.3	57	11.8	69	95	46	0	0	3	0
OH CINCINNATI	84	60	89	52	72	0	.1	-.9	0	.9	33	13.0	65	89	41	0	0	2	0
OH CLEVELAND	76	54	87	45	65	-4	.9	.1	.5	2.1	85	18.1	108	92	50	0	0	3	1
OH COLUMBUS	81	56	87	47	69	-2	.1	-.9	.1	4.3	154	15.2	84	91	42	0	0	1	0

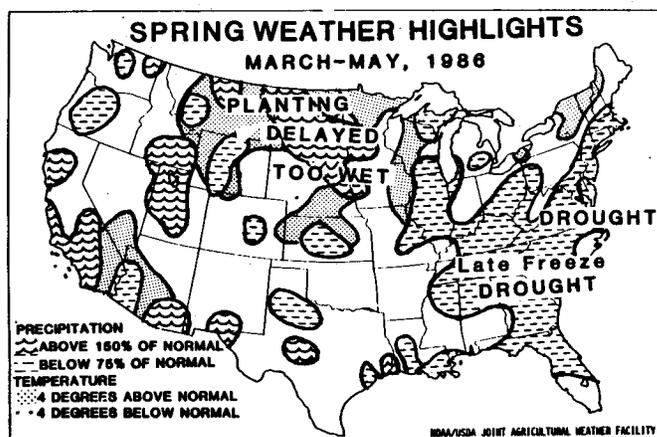
BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending June 21, 1986

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 JUNE 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE		
DAYTON	82	58	88	52	70	-2	1.0	.1	.6	3.5	129	17.8	101	89	45	0	0	2	1		
TOLEDO	78	53	86	45	66	-3	.7	-.2	.3	4.4	182	15.5	105	97	51	0	0	2	0		
YOUNGSTOWN	76	49	84	40	62	-5	1.2	-.4	.8	8.2	338	18.3	105	96	50	0	0	3	1		
OK OKLAHOMA CITY	87	69	92	65	78	0	.8	0	.7	3.1	107	18.1	116	92	51	2	0	2	1		
TULSA	91	71	93	68	81	2	0	-1.1	0	2.9	87	18.5	98	89	46	5	0	0	0		
OR ASTORIA	65	50	69	48	58	1	.7	.1	.4	.9	51	33.9	95	95	62	0	0	4	0		
BURNS	75	40	86	31	58	-3	0	-2	0	.3	42	7.1	222	—	—	0	1	0	0		
MEDFORD	75	48	88	42	62	-4	T	T	-1	.5	85	10.2	100	84	33	0	0	1	0		
PENDLETON	77	51	90	46	64	-1	T	T	-1	T	4	7.0	108	63	25	1	0	1	0		
PORTLAND	71	54	79	50	62	-2	.2	-.2	.2	.2	17	16.9	88	89	48	0	0	2	0		
SALEM	71	49	78	40	60	-1	.2	0	.2	.5	52	21.3	100	94	47	0	0	2	0		
PA ALLENTOWN	79	57	86	49	68	-2	.2	-.6	.1	2.3	97	19.1	95	89	41	0	0	2	0		
BRIDGEVILLE	74	54	87	45	64	-2	.9	0	.5	7.2	274	22.4	133	90	49	0	0	3	0		
HARRISBURG	80	59	90	51	70	-2	.1	-.7	.1	1.4	55	17.7	95	92	37	1	0	1	0		
PHILADELPHIA	84	61	91	51	72	0	0	-.9	T	1.7	63	15.7	82	82	37	1	0	2	0		
PITTSBURGH	78	55	86	43	67	-2	.3	-.5	T	4.3	184	15.1	84	77	38	0	0	1	0		
SCRANTON	76	53	85	45	64	-4	.9	.1	.8	5.9	245	20.5	132	95	45	0	0	2	1		
RI PROVIDENCE	77	56	87	50	66	-1	.1	-.5	.1	2.9	144	19.1	89	89	43	0	0	2	0		
SC CHARLESTON	87	73	94	72	80	2	1.1	-.5	.6	2.5	56	13.0	58	97	64	2	5	4	1		
COLUMBIA	93	70	98	68	81	3	.1	-.9	.1	.3	9	7.5	31	91	38	0	0	0	0		
FLORENCE	88	69	94	66	79	1	.7	-.4	.5	2.1	69	10.0	49	96	53	2	5	3	1		
GREENVILLE	91	65	95	61	78	2	0	-1.1	0	.9	28	13.6	52	93	41	1	0	0	0		
SD ABERDEEN	84	61	91	48	73	6	.2	-.6	.1	2.3	102	14.6	164	91	51	1	0	2	0		
HURON	87	63	92	53	75	6	.1	-.7	0	2.5	103	13.1	138	90	51	4	0	3	0		
RAPID CITY	83	58	92	49	71	5	.5	-.3	.4	4.0	172	12.5	139	89	42	2	0	2	0		
SIoux FALLS	87	63	91	54	75	6	2.1	1.2	1.0	3.0	113	12.8	114	84	46	2	0	2	0		
TN CHATTANOOGA	91	65	94	63	78	2	T	T	-8	1.6	72	12.1	45	94	40	2	0	0	0		
KNOXVILLE	90	62	93	56	76	1	0	-.9	0	.6	23	11.9	48	93	36	5	0	0	0		
MEMPHIS	93	71	95	66	82	2	0	-.8	0	3.3	133	16.7	60	81	42	6	0	0	0		
NASHVILLE	88	62	93	57	75	-1	0	-.8	0	2.1	81	12.1	47	90	41	3	0	0	0		
TX ABILENE	88	69	92	67	79	-3	.4	-.1	.3	4.4	241	11.5	110	90	47	2	0	3	0		
AMARILLO	84	63	90	61	73	-2	.3	-.6	.1	2.9	116	8.0	96	93	47	1	0	3	0		
AUSTIN	89	72	91	69	81	-2	.6	-.1	.3	2.2	96	13.0	84	95	54	4	0	4	0		
BEAUMONT	89	72	91	71	81	-1	.9	0	.7	6.2	232	23.7	107	96	60	3	0	4	1		
BROWNSVILLE	91	74	92	73	83	0	T	-.7	T	2.9	148	8.0	89	97	57	7	0	0	0		
CORPUS CHRISTI	90	73	91	73	82	-1	T	-.8	T	2.5	102	11.2	97	98	60	5	0	2	0		
DEL RIO	90	73	94	69	82	-2	.2	-.2	.2	2.0	165	9.6	135	79	41	5	0	0	0		
EL PASO	95	65	99	63	80	-2	.6	-.5	.4	.6	229	2.3	121	76	20	5	0	2	0		
FORT WORTH	90	70	93	67	80	-3	1.1	-.5	.8	3.9	202	18.3	116	94	52	4	0	3	0		
GALVESTON	86	76	88	70	81	-1	.5	-.3	.2	3.9	162	11.9	76	86	63	0	0	4	0		
HOUSTON	91	72	93	71	82	0	2.1	1.2	1.1	6.1	207	17.9	85	91	57	5	0	3	2		
LUBBOCK	88	64	99	61	76	-2	2.1	1.4	1.9	3.9	192	7.7	103	97	50	2	0	4	0		
MIDLAND	88	66	97	60	77	-4	2.8	2.5	2.1	3.1	308	7.3	135	100	54	2	0	2	0		
SAN ANGELO	87	68	89	64	77	-5	.4	-.1	.3	3.2	230	12.0	150	94	54	0	0	2	0		
SAN ANTONIO	90	73	91	69	81	-1	3.2	2.5	2.8	11.6	512	22.1	165	94	53	5	0	2	1		
VICTORIA	89	74	91	70	82	-1	1.0	-.1	.4	7.0	209	16.9	106	96	60	3	0	3	0		
WACO	92	71	95	69	82	-1	.5	-.1	.3	4.0	201	18.6	115	96	51	5	0	3	0		
WICHITA FALLS	89	68	91	64	78	-3	1.5	-.9	.7	7.6	353	16.6	126	98	56	4	0	3	2		
UT BLANDING	90	55	92	52	72	5	0	-.1	0	.6	300	5.1	111	50	16	3	0	0	0		
CEDAR CITY	88	54	89	52	71	4	0	-.1	.3	111	4.4	96	35	18	0	0	0	0	0		
SALT LAKE CITY	87	61	95	56	74	5	T	-.2	T	.4	61	12.8	145	56	18	3	0	0	0		
VT BURLINGTON	74	49	82	40	62	-4	.8	-.1	.8	3.9	151	17.5	124	87	39	0	0	3	1		
VA NORFOLK	84	65	88	59	74	-1	T	-.7	T	.4	18	11.0	56	87	46	0	0	0	0		
RICHMOND	85	61	91	54	73	-1	.3	-.6	.3	.7	29	11.5	61	93	38	2	1	0	0		
ROANOKE	86	58	90	50	72	0	T	-.8	T	.4	19	11.4	61	85	38	1	0	0	0		
WA COLVILLE	73	48	88	40	61	-1	.2	-.2	.2	.9	79	12.9	148	79	44	0	0	6	1		
QUILLAYUTE	63	48	67	45	56	0	1.1	-.4	.6	1.5	65	60.8	116	98	66	0	0	0	0		
SEATTLE-TACOMA	67	51	73	49	59	-2	.5	-.1	.3	.6	59	19.4	103	89	48	0	0	4	0		
SPOKANE	74	47	87	38	61	-2	.2	-.1	.1	.5	49	9.5	108	82	26	0	0	2	0		
YAKIMA	76	46	82	36	61	-4	T	-.1	T	.1	12	5.0	119	87	28	0	0	2	0		
WV BECKLEY	79	53	83	44	66	-1	.1	-.8	.1	.9	34	14.0	67	96	46	0	0	1	0		
CHARLESTON	83	56	87	49	69	-2	.5	-.3	.4	2.0	93	16.6	83	97	41	0	0	3	0		
HUNTINGTON	81	59	87	51	71	-1	.1	-.7	.1	2.7	110	13.7	69	92	42	0	0	1	0		
PARKERSBURG	83	56	88	47	68	-3	1.6	-.6	1.6	3.5	110	14.2	66	97	43	0	0	2	1		
WI GREEN BAY	78	52	88	42	65	0	1.1	-.4	1.1	2.6	117	9.9	81	92	51	0	0	1	0		
LA CROSSE	84	62	94	48	73	4	.4	-.6	.4	1.8	62	9.8	73	87	47	1	0	1	0		
MADISON	81	56	91	43	69	2	.2	-.7	.2	1.7	61	11.2	84	91	53	2	0	0	0		
MILWAUKEE	78	54	91	48	66	0	T	-.9	T	1.7	68	12.7	91	91	55	0	0	1	0		
WAUSAU	80	56	88	45	68	2	.3	-.2	.2	1.8	66	8.8	67	90	42	3	0	2	0		
WY CASPER	86	54	94	48	70	6	2.2	1.9	2.2	4.0	430	8.9	135	80	26	0	0	2	1		
CHEYENNE	83	53	87	50	68	5	.6	-.1	.3	2.2	149	6.6	96	76	22	2	0	0	0		
LANDER	87	53	93	49	70	7	0	-.3	0	.2	19	5.9	71	56	17	2	0	0	0		
SHERIDAN	83	52	95	42	68	5	.2	-.3	.1	3.0	192	8.6	100	86	34	3	0	4	0		
PR SAN JUAN	88	74	90	73	81	-1	.2	-.8	.1	.5	16	27.2	137	94	61	2	0	3	0		

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Spring Weather Review (March, April, May 1986)



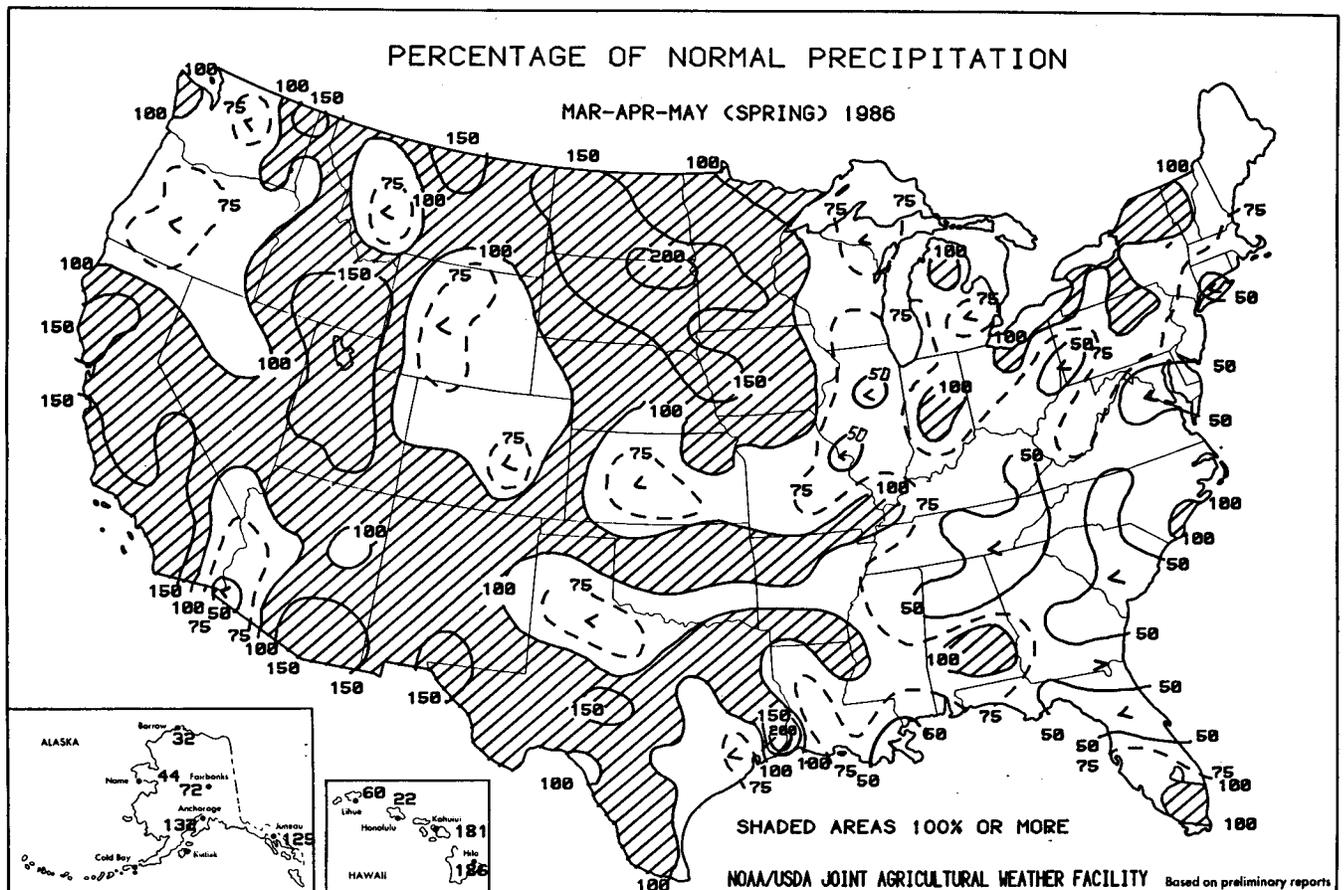
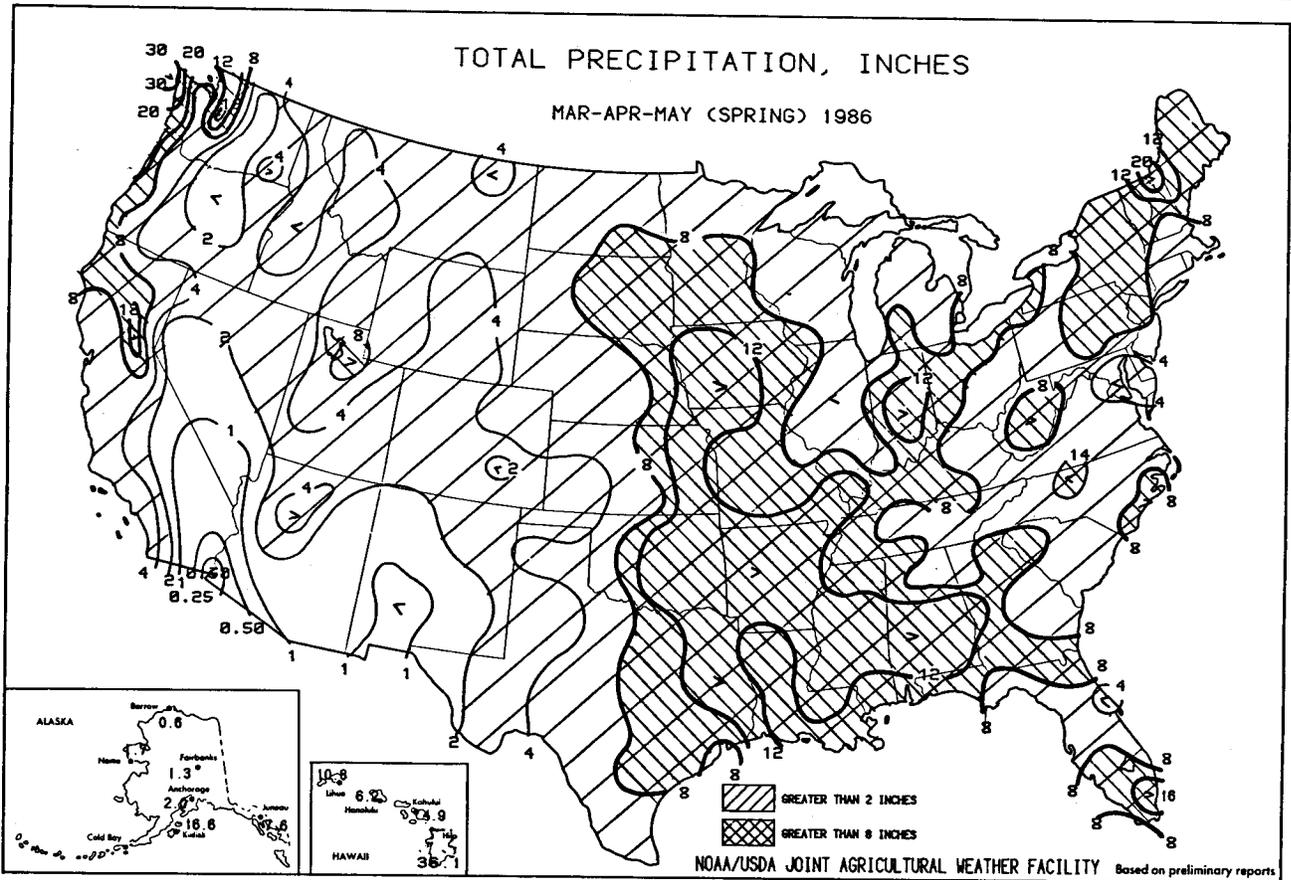
HIGHLIGHTS: The very dry weather that prevailed all winter along the east coast and from the lower Mississippi Valley to the mid-Atlantic States continued through the spring. Shower activity began to increase as the season ended, especially from the lower Mississippi Valley through the Tennessee Valley. However, most of the area from Maryland southward had only isolated, light showers. Early- and mid-March freezing temperatures damaged early blooming fruit trees in the Southeast. As the season ended, a late cold outbreak brought record-cold temperatures to the lower Missouri Valley and from the Great Lakes into the Southeast. The record-low temperatures were above freezing in the Southeast. Persistent rain in the northern Great Plains early in the season delayed planting and fieldwork, but a drying period before the end of the season allowed late work to resume. Thunderstorm season began in May, and most of the Nation experienced these storms. Severe weather included the usual spate of tornadoes from the Great Plains through the Ohio Valley and the Southeast. Average temperatures for the season were warmer than normal in all of the Nation except Florida.

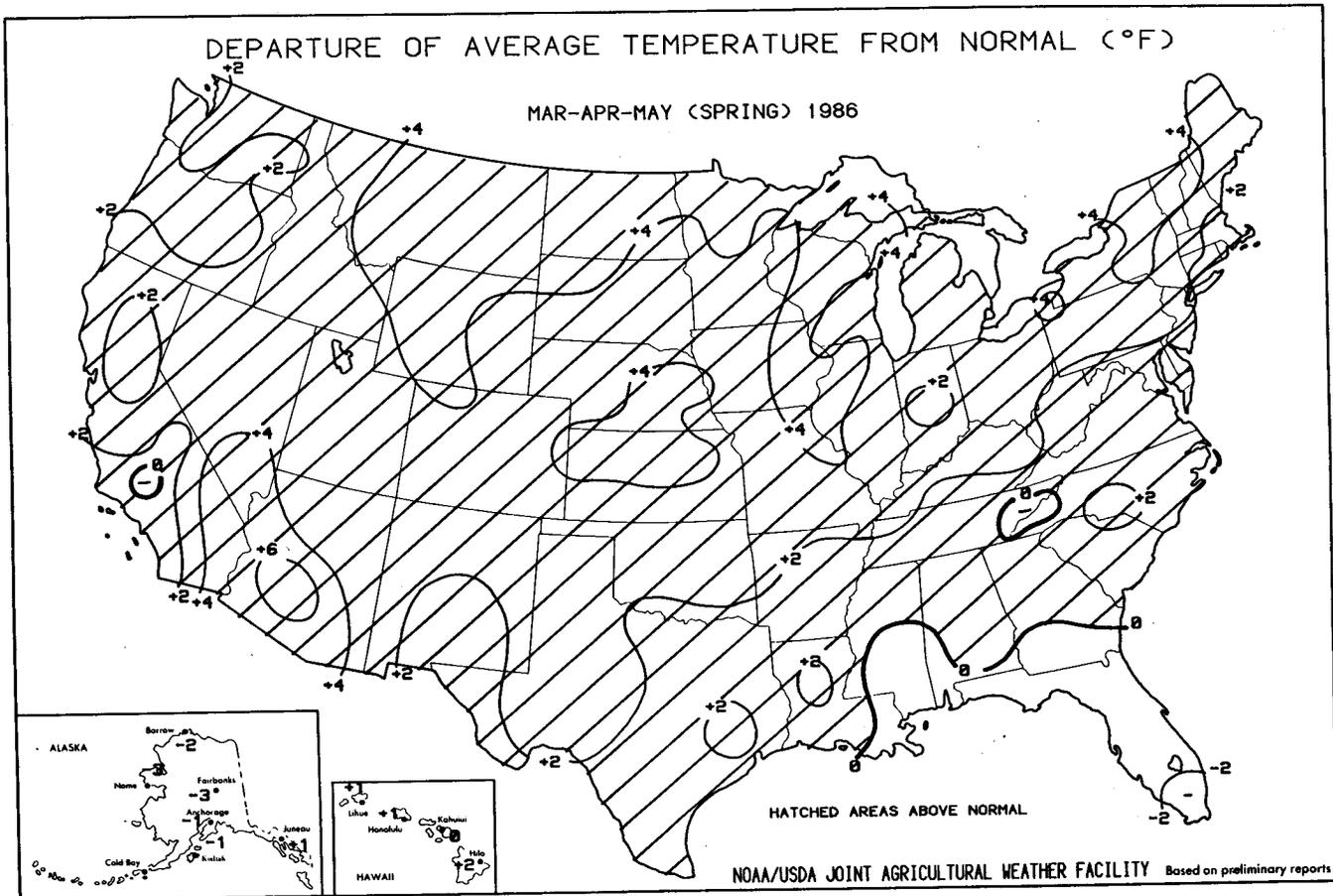
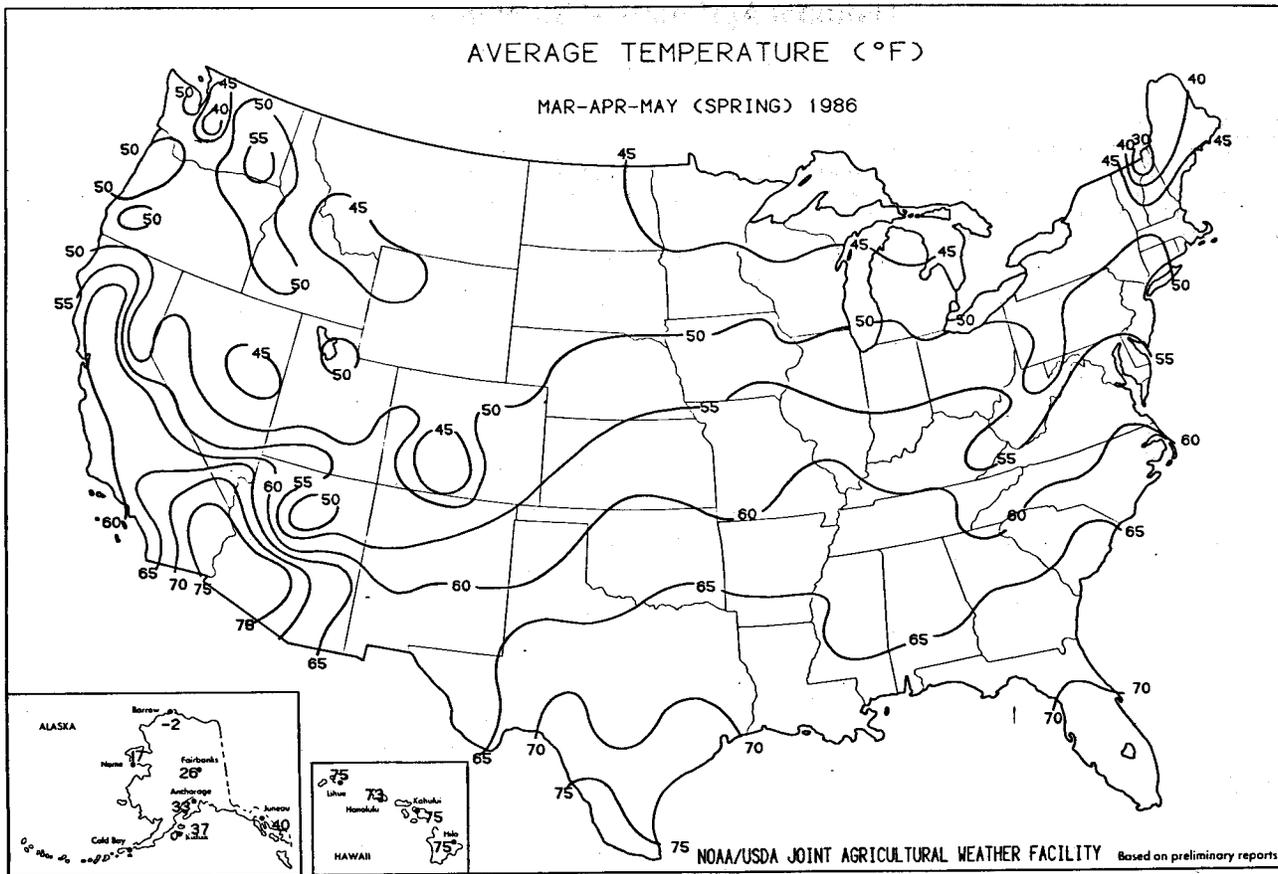
MARCH... Unusually dry weather continued in the East. Precipitation was also much less than normal in the southern Great Plains and the central Rockies. One of the more serious dry areas was the western slopes of the Appalachians where the greatest incidence of brush fires seemed to occur. Rain was excessive in California except for the desert Southwest. Above-normal rain also fell along the western slopes of the Rockies and in parts of the Great Basin. Although copious rain fell in the Northwest, it was less than the normal rain. Snow was heavy in the Western mountains early in the month, but, as the month ended, rain was the dominant precipitation. Snow fell at only the highest locations. Although freezing temperatures

damaged early blooming fruit trees in the South and Southeast early in the month and again at midmonth, the average monthly temperatures was well above normal in most of the Nation except Florida.

APRIL... Precipitation was adequate to excessive through most of the Great Plains. However, parts of the southern Plains from southeastern Texas to western Texas and northward through western Kansas was far too dry. Persistent rain in the northern Plains slowed planting and other fieldwork. Dry weather continued in the southeastern quarter of the Nation. The area from the lower Mississippi Valley to the lower Ohio Valley and eastward had less than half the normal rain. A late-season cold outbreak pushed into the upper Mississippi Valley late in the month and spread southeastward. Temperatures dropped to the low twenties from the upper Mississippi Valley to the upper Ohio Valley and into Kentucky. Unusually warm weather followed the cold outbreak.

MAY... Thunderstorm season gripped the Nation. Showers and thunderstorms occurred in nearly all parts of the country. Only the extreme Southwest was free of the storms. The most severe weather was from central Texas into Alabama, from Texas to Iowa, and from Arkansas through the Ohio Valley. The showers were welcome in the very dry East Coast States, but much more precipitation is needed. Some parts of the Southeast and mid-Atlantic States had only light, isolated showers. Beneficial showers also fell in western Texas. Dry weather for much of the month in the northern Plains allowed that area to drain and dry so work could progress. It was dry all month from the Red River Valley of the North through the upper Great Lakes. Most of the Nation was warmer than normal, but it was a little cooler than normal through most of the Rockies and adjacent High Plains.





National Agricultural Summary

June 16 to 22, 1986

HIGHLIGHTS: Rain from Texas, through the central Great Plains, and across the Corn Belt promoted growth but aided the spread of wheat diseases. Soybean planting and wheat harvest continued briskly despite rain. The lack of precipitation aggravated dry conditions in the Southeast. Soil moisture was generally adequate elsewhere, except in a few western States soil moisture was becoming short. Fieldwork averaged 4 to 6 days in most areas.

Winter wheat was mostly fair to good. Heading was virtually complete except in the Pacific Northwest and in a few Rocky Mountain States. Wheat harvest surged 25 points ahead of last week, ending the week 41 percent (%) complete and more than doubling the 20% average. Harvest progressed significantly in Illinois, Kansas, Missouri, New Mexico, North Carolina, Oklahoma, and Texas. Spring wheat was 10% headed, 8 points below normal and 18 points behind 1985. Soybeans were 91% planted, 3 points ahead of the average and up 10 points from last week. The crop was fair to good in the Southeast and Delta and mostly good in the northern producing States. Soybeans were blooming in Louisiana and Illinois. Corn development prospered in most States. Dry conditions slowed growth in the Southeast but forced rapid maturity. Sorghum was 90% planted, equaling last year and was 5 points ahead of the average. Harvest was underway in Texas. Cotton was squaring on more than a third of the acreage which was 7 points ahead of the 27% average. Five percent of the acreage was setting bolls, equaling the average. The first bale of cotton for the 1986 crop was ginned in the Rio Grande Valley. Tobacco harvest was underway in Georgia. Peach harvest gained momentum in the Southeast. Livestock was mostly good.

SMALL GRAINS: Wheat heading was 97% finished, just slightly ahead of normal. Heading was almost complete except in the Pacific Northwest and in a few Rocky Mountain States. Winter wheat was 41% harvested, up 25 points from the previous week. Normally, 20% would be harvested and last year 35% of the acreage was harvested. Harvest jumped 56 points in Missouri, 45 points in Illinois, 35 points in New Mexico, 30 points in North Carolina, and 27 points in Texas from last week. Harvest stretched as far North as Colorado. Wheat was lodging in Arkansas. In Indiana and Ohio, grain disease was becoming widespread. Kansas wheat harvest reached full swing. Leaf and stem rust infestations were evident, and some yield losses are expected. Russian wheat aphids were present in 28 wheat producing counties. Heavy rain and winds caused some lodging across Nebraska.

Spring wheat was mostly good. Ten percent of the acreage was heading, 8 points behind the 18% average and 18 points behind last year's 28% headed. Heading was underway and lagged behind normal in all States except Idaho. Heading was 10 points behind normal in Minnesota and 26 points behind in South Dakota.

CORN: Corn was mostly good except in the Southeast where conditions were mostly fair to poor. Additional moisture and warm temperatures advanced crop development in the western Corn Belt and northern and central Great Plains. In Georgia, 82% of the corn was silking, 39% was in the dough stage, and 9% reached dent. A fourth of Texas' corn acreage was in the dent stage. Excessive moisture caused some yellowing in the Blacklands and in central Texas.

SOYBEANS: Soybean planting advanced rapidly across the Southeast and in the Appalachian States, ending the week 81% finished in the 19 major producing States. This represents a 10 point increase from the previous week. Last year 93% of the acreage was planted and normally 88% would be planted. Seeding was complete in Illinois and Nebraska and neared completion in Iowa, Michigan, and Minnesota. Soybeans were blooming in Illinois and Louisiana. Standing water drowned some emerging seedlings in Michigan and Ohio. Soybeans were mostly good in the northern half of the Nation and fair to good in the southern areas.

SORGHUM: Sorghum at 90% planted equaled last year but was 5 points ahead of the average. Planting increased 20 points from last week in Oklahoma but was still 15 points behind the 85% average. South Dakota producers planted 20% of their acreage in 1 week, at 81% finished, 7 points shy of the average. In Texas, harvest was underway at Coastal Bend and in the Rio Grande Valley, but wet ground slowed progress. Sorghum was 28% headed in Louisiana, 8 points ahead of schedule.

COTTON: Cotton was 95% seeded compared with 98% last year and average. Planting surged 20 points in Oklahoma to 80% completion but was 5 points below the average. Squares were present on 34% of the acreage, and 5% of the cotton acreage was setting bolls. This compares with 27% squaring and 5% setting bolls normally. Cotton was mostly good to fair in the Delta, good in the western States, and fair to good in the Southeast. Boll weevil and thrips hampered growth in Arkansas. Cotton developed normally, and bolls enlarged rapidly in Arizona. Insect infestations were moderate to light, and boll weevil hot spots were watched closely. Bolls began opening in Texas, and the first bale of cotton for 1986 crop was ginned in the Rio Grande Valley.

OTHER CROPS: Rain slowed peanut planting in Texas. Sixty-one percent of the crop was planted, 10 points behind normal. Peanuts were good to fair in Georgia and North Carolina. Peanuts bloomed and pegged in Georgia.

Burley tobacco was 92% transplanted in Kentucky and Tennessee. Ninety-two and 96% normally would have been transplanted in each State, respectively. Tobacco harvest was underway in Georgia with 2% of the crop harvested.

Rice was mostly good. Rice was 16% headed in Louisiana and 18% headed in Texas. Sheat blight and water weevils were becoming problematic in Arkansas.

FRUIT AND NUTS: New growth was abundant in Florida's citrus groves. New crop fruit progressed well. Adequate rain resulted in discontinued irrigation. Rain slowed Valencia harvest and limited supplies. Citrus developed favorably and groves were good in Arizona. Grape harvest was in full swing for Perlettes, Thompson, and Flame seedless varieties. In California, apples sized rapidly, and some growers propped limbs. Clingstone peach harvest should begin July 1. Stonefruit harvest progressed well, but some orchards were picked 2 or 3 times because of uneven ripening.

Peaches were 54% harvested in Georgia, compared with the 39% average. The crop condition was fair to good. Slightly more than a third of

(Continued to back cover)

CROP PROGRESS

FOR WEEK ENDING JUNE 22, 1986

**COTTON
% PLANTED**

	1986	1985	AVG.
ALA	100	100	100
ARIZ	100	100	100
ARK	100	100	100
CALIF	100	100	100
GA	99	100	99
LA	100	100	100
MISS	100	100	100
MO	100	100	100
N MEX	100	NA	NA
N C	100	100	100
OKLA	80	95	85
S C	100	100	100
TENN	100	100	100
TEX	91	96	96

**COTTON
% SQUARING**

	1986	1985	AVG.
ALA	49	58	44
ARIZ	92	91	85
ARK	45	52	32
CALIF	50	50	18
GA	44	79	57
LA	71	51	38
MISS	59	68	52
MO	26	29	24
N MEX	30	25	21
N C	35	57	30
OKLA	0	10	2
S C	54	63	66
TENN	30	30	20
TEX	14	14	17

**COTTON
% SETTING BOLLS**

	1986	1985	AVG.
ALA	0	7	NA
ARIZ	20	NA	NA
ARK	0	0	0
CALIF	0	0	0
GA	3	17	7
LA	6	6	3
MISS	4	0	1
MO	0	0	0
N MEX	0	5	2
N C	0	0	0
OKLA	0	0	0
S C	2	13	5
TENN	0	0	0
TEX	8	9	9

14 STATES 95 NA NA

14 STATES 34 35 27

14 STATES 5 NA NA

EXCL. STATES WITH NA 95 98 98

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

EXCL. STATES WITH NA 5 6 5

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

**WINTER WHEAT
% HEADED**

	1986	1985	AVG.
ARK	100	100	NA
CALIF	100	100	100
COLO	98	99	95
GA	100	100	100
IDAHO	70	68	60
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MICH	98	100	95
MO	100	100	100
MONT	60	70	60
NEBR	100	100	100
N MEX	100	NA	NA
N C	100	NA	NA
OHIO	100	100	100
OKLA	100	100	100
OREG	96	94	94
S DAK	93	100	93
TEX	100	100	100
WASH	95	87	86

**WINTER WHEAT
% HARVESTED**

	1986	1985	AVG.
ARK	70	86	73
CALIF	50	45	38
COLO	1	0	0
GA	92	94	79
IDAHO	0	0	0
ILL	40	9	7
IND	3	4	2
KANS	55	30	5
MICH	0	0	0
MO	60	18	14
MONT	0	0	0
NEBR	0	0	0
N MEX	40	NA	NA
N C	80	85	62
OHIO	1	1	0
OKLA	80	90	50
OREG	0	0	0
S DAK	0	0	0
TEX	66	69	53
WASH	0	0	0

20 STATES 97 NA NA

20 STATES 41 NA NA

EXCL. STATES WITH NA 97 97 96

EXCL. STATES WITH NA 41 35 20

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

**SOYBEANS
% PLANTED**

	1986	1985	AVG.
ALA	85	85	84
ARK	74	83	73
GA	77	91	78
ILL	100	100	95
IND	93	96	92
IOWA	99	100	96
KANS	90	65	65
KY	67	62	62
LA	91	94	89
MICH	95	100	97
MINN	98	98	98
MISS	69	89	83
MO	90	87	73
NEBR	100	100	100
N C	82	86	78
OHIO	95	100	91
S C	78	83	80
S DAK	80	100	95
TENN	75	80	75

19 STATES 91 93 88

THESE 19 STATES PRODUCED 96% OF THE 1985 SOYBEANS CROP.

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: Temperatures averaged 1 to 3° above normal. Rainfall totals under 1.00 in.

Days suitable for fieldwork 6.1. Soil moisture 57% short, 43% adequate. Rain needed to improve crop conditions. Primary activities: Crop cultivation; harvesting of wheat, planting late soybeans; spraying pecans; care of livestock and poultry; general farm chores.

ALASKA: Hot, dry weather turned cool, wet midweek. Temperatures ranged 1° below normal to 7° above normal. Precipitation drier than normal.

Days suitable for fieldwork 5.0. Topsoil moisture 32% short, 61% adequate, 7% surplus. Subsoil moisture 49% short, 51% adequate. Oats, barley grain heights averaged 5 in. Crop growth moderate to rapid. Commercial potato heights averaged 3 in. First cutting of hay beginning.

ARIZONA: Southerly winds spread sub-tropical moisture eastern two-thirds 16th, 17th; widely scattered showers, thunderstorms. Lingering activity White Mountains 18th. Moisture from traces to 0.10 in. Sunny, hot, dry days prevailed remainder of period. Average temperatures 1 to 8° above normals.

Cotton developed at normal pace. Bolls enlarging rapid rate. Irrigation, spraying active. Insect, weed infestations moderate to light; potential boll weevil hot spots watched closely. Small grain harvest moved ahead, barley nearly completed. Alfalfa harvested moderate to active pace, market steady. Crop excellent west, good to excellent elsewhere. Curing conditions favorable, insect problems light. Corn planting virtually complete. Stands established most areas. Crop excellent west, good central, east. Safflower harvested. Popcorn good. Final shipments dry onions expected this week central valley, light volumes to continue Safford-Willcox district several weeks. Table stock, chipper potatoes packed. Melon harvest advanced all areas. Mixed vegetables shipped central valley. Grape harvest full swing for Perlettes, Thompson, Flame seedless varieties. New crop citrus development favorable, groves good.

ARKANSAS: Temperatures above normal except midweek when brief cold front existed. Spotty showers. Temperature extremes 50°; 99°. Rainfall none to 1.26 in.

Days suitable for fieldwork 7.0. Soil moisture 12% short, 84% adequate, 4% surplus. Major activities: Cutting hay; rice fertilization; wheat harvest; pesticide application; pecan, apple spraying; planting soybeans, sorghum; irrigating corn. Rainfall delayed second cutting hay, soybean planting, wheat harvest. Wheat lodging. Boll weevils, thrips hampering cotton. Sheath blight, water weevils hampering rice. Tomato, peach, squash, sweet corn harvest underway. Blueberry, snap bean harvest near completion.

CALIFORNIA: Week began with normal to below normal temperatures. As week progressed temperatures returned to normal to above normal. Some rain extreme northern end with dry conditions elsewhere.

Open weather aided crop progress. Small grain harvest active. Fertilizer, herbicides applied rice fields. Cotton progressed well. Seeding dry beans, corn, other crops following small grain harvest active. Alfalfa green-chop. Hay harvests active all areas. Overwintered sugarbeet harvest

nearing completion. New crop progress good. Apples sizing rapidly; some growers propping limbs. Apricot harvest complete most areas. Grapes thinned, sprayed for leafhoppers, mites, fungus. Coachella Valley, Thompson seedless grapes peak level; Flame seedless harvest slowed rapidly. Other areas table grape varieties sizing well; running 10 to 14 days ahead of normal. Clingstone peach harvest begin July 1. Stonefruit harvest progressed. Some orchards color picked 2 or 3 times, problem uneven ripening. Almonds, pistachios, walnuts sizing. Artichokes light variable quality Salinas. Boysenberry, strawberry picking nearly complete central valley, south coast. Broccoli fairly heavy Salinas, heavy Santa Maria good quality. Carrot digging moderate good quality Salinas. Harvest active Kings County. Cauliflower moderate good quality Salinas, Santa Maria. Harvest light good quality south coast. Celery fairly light variable quality Salinas good quality Santa Maria, south coast. Sweet corn light Coachella Valley. Harvest active Los Angeles, Orange County area; good quality. Cucumber harvest winding down Tulare, active good quality south coast. Lettuce fairly heavy Salinas variable quality, weight. Melons central valley benefited warm weather. Some planting, replanting cantaloups Merced-Atwater. Cantaloup harvest tapered off Imperial Valley, active Palo Verde Valley; heavy sizes. Honeydew harvest active Palo Verde Valley, Coachella Valley. Digging red, yellow onions active central valley. Summer potato fields Riverside, San Joaquin look good. Crop progress Riverside 2 weeks ahead. San Joaquin, Santa Barbara start July or early August. Potato Tulelake-Butte Valley growing well. Sweetpotato planting Merced-Atwater nearly finished. Fresh market tomato harvest began central valley good size, volume, Imperial Valley harvest completed. Processing tomatoes Sacramento Valley, other areas good sets. Quality improved better weather. Foothill ranges, extremely dry. Grasshopper controls applied. Northern grazing excellent due late rains. Movement cattle summer pastures, feedlots, marketing continued heavy.

COLORADO: Temperatures averaged 1 to 7° above normal. Precipitation totals averaged none to 1.83 in.

Days suitable for fieldwork 5.6. Soil moisture 1% very short, 26% short, 71% adequate, 1% surplus. Winter wheat fair to mostly good. Sorghum planted 87%, 96% 1985, 84% avg.; emerged 54%, 86% 1985, 66% avg. Barley headed 56%, 63% 1985, 49% avg. Livestock good; range, pasture mostly good.

FLORIDA: Partly cloudy, warm Panhandle, northern Peninsula with widely scattered thunderstorms. Rainfall averaged 1.00 to 2.00 in. Almost daily thunderstorms central, southern Peninsula. Cloudiness held temperatures down. Rainfall varied widely but averaged 3.00 to 4.00 in. with few local amounts exceeding 7.00 in.

Soil moisture adequate except isolated northern areas short. Dryland corn condition variable depending on available moisture. Soybean planting continued; early beans good. Tobacco later than normal, condition good. Hay crops improved. Sugarcane good. Peanuts fair to good. Cotton mostly good, later than normal. Some central, eastern Panhandle, lower northeastern coastal pastures fair to poor; elsewhere mostly good. Panhandle cattle fair to good, mostly good elsewhere, supplemental hay feeding slowing as

grasses improve. Rain all citrus areas most days; irrigation discontinued. Abundance of new growth. New crop fruit making good progress. Valencia harvest slow due to rain and limited supplies. Grapefruit movement limited. Caretakers active all areas with summer cultural practices. Typical summer weather vegetable areas with almost daily afternoon thunderstorms brought abundant rain most areas. Temperatures ranged lows 70s, highs 80s, low 90s. Winds mostly light to moderately gusty in thunderstorms. Harvest most crops completed central, southern areas. Decreasing shipments recorded all major crops.

GEORGIA: Scattered thunderstorms southern half with 1.00 to 2.00 in. Several stations under 0.05 in. with no rain over north. Temperatures 2 to 4° above normal except normal extreme south. High upper 90s central, south. Lowest mid 50s mountains to mostly 60s elsewhere.

Days suitable for fieldwork 5.9. Soil moisture 19% very poor, 62% short, 19% adequate. Corn 4% very poor, 18% poor, 57% fair, 20% good, 1% excellent; 82% silked, 87% 1985, 64% avg.; 39% dough, 56% 1985, 31% avg.; 9% dent, 16% 1985, 6% avg. Sorghum grain 5% poor, 72% fair, 23% good; 83% planted, 89% 1985, 75% avg. Peanuts 2% very poor, 4% poor, 52% fair, 39% good, 3% excellent; 100% planted, 100% 1985, 100% avg.; 48% blooming, 83% 1985, 60% avg.; 15% pegging, 43% 1985, 19% avg. Tobacco 11% poor, 40% fair, 49% good; 2% harvested, 7% 1985, 5% avg. Watermelons 4% poor, 57% fair, 39% good; 10% harvested, 19% 1985, 7% avg. Rye 4% very poor, 22% poor, 54% fair, 20% good. Other small grains 2% very poor, 28% poor, 47% fair, 23% good. Apples 3% very poor, 7% poor, 52% fair, 38% good. Peaches 14% poor, 53% fair, 31% good, 2% excellent; 54% harvested, 51% 1985, 39% avg. Pasture 5% very poor, 28% poor, 47% fair, 19% good, 1% excellent. Hay 5% very poor, 30% poor, 48% fair, 15% good, 2% excellent. Cattle 1% very poor, 6% poor, 55% fair, 37% good, 1% excellent. Hogs 1% poor, 40% fair, 59% good. Main activities: Cutting hay, harvesting small grain; planting double crop soybeans, grain sorghum where there is moisture.

HAWAII: NO DATA AVAILABLE.

IDAHO: Temperatures near normal north, 5 to 8° above normal elsewhere. Precipitation varied.

Days suitable for fieldwork 7.0. Warm conditions promoted rapid development of crops. Irrigation demands heavy. Potato planting virtually complete. Winter wheat good. Spring wheat good. First cutting alfalfa progressing well. Insects, grasshoppers present but damage light. Livestock good, summer grazing good but drying rapidly. Irrigated pastures good.

ILLINOIS: Temperatures averaged 2 to 6° above normal over all of State except southeast, none to 3° below normal. Precipitation none to 1.25 in. heaviest north.

Days suitable for fieldwork 6.0. Soil moisture 18% short, 77% adequate, 5% surplus. Corn average height 40 in., 32 in. 1985, 23 in. avg. Soybeans blooming 5%, none 1985, 1% avg. Winter wheat turning yellow 95%, 93% 1985, 88% avg.; ripe 65%, 60% 1985, 36% avg. Oats 19% fair, 58% good, 23% excellent; filled 70%, 85% 1985, 51% avg.; turning yellow 20%, 23% 1985, 11% avg.; ripe 1%, 3% 1985, 1% avg. Alfalfa 15% fair, 69% good, 16% excellent; alfalfa 1st crop cut 95%, 100% 1985, 91% avg.; alfalfa 2nd crop cut 20%, 19% 1985, 12% avg. Red clover 14% fair, 79% good, 7% excellent; red clover crop cut 75%, 84% 1985, 76% avg. Pasture 2% poor, 13% fair, 65% good, 20% excellent. Major farm activities: Seeding soybeans, harvesting wheat and hay, and applying herbicides.

INDIANA: Temperatures 1 or 2° above normal. Lows upper 40s, highs low to mid 90s. Rainfall below normal. Totals 0.25 to 0.50 in. except near zero northwest, southwest.

Fieldwork averaged 4.5 days. Topsoil moisture 6% short, 72% adequate, 22% surplus. Subsoil moisture 3% short, 71% adequate, 26% surplus. Corn 29 in. high, 29 in. 1985, 18 in. avg. Corn fair to good. Soils became drier allowing good progress soybean planting. Shallow root systems in row crops causing stress as lighter soils become drier. Soybeans fair to good. Soybeans 7 in. tall, 7 in. 1985, 4 in. avg. Wheat fair to good, widespread disease problems. Wheat 25% ripe, 35% 1985, 10% avg. Wheat 85% turning color, 90% 1985, 70% avg. Alfalfa 80% cut once, 95% 1985, 90% avg. Clover 75% cut, 80% 1985, 65% avg. Tobacco 93% set, 85% 1985, 80% avg. Oats 90% headed, 90% 1985, 70% avg. Rye 10% combined, 10% 1985, 1% avg.

IOWA: Unseasonably warm week. Above normal rainfall north, central districts; elsewhere subnormal.

Days suitable for fieldwork 5.9. Topsoil moisture 10% short, 82% adequate, 8% surplus; subsoil moisture 85% adequate, 15% surplus. Some leaf rust oats, wheat. Oats 4% poor, 11% fair, 65% good, 20% excellent; oats headed 75%, 94% 1985, 68% avg. Winter wheat mostly good to fair. Hay 2% poor, 5% fair, 66% good, 27% excellent. First crop alfalfa harvested 85%, 100% 1985, 79% avg.; 1st crop clover harvested 50%, 84% 1985, 53% avg. Some corn leaf rolling, dry topsoils; corn cultivated 1st time 75%, 94% 1985, 63% avg.; average corn height 18 in. Soybean planting near completion, soybeans stand normal; soybeans replanted 4%; soybeans emerged 96%, 100% 1985, 91% avg.; soybeans cultivated first time 30%, 63% 1985, 51% avg. Livestock mostly good; heat causing some stress. Pastures good to excellent.

KANSAS: Precipitation 0.02 in. southeast, 0.04 to 0.06 in. northwest, west central, south central and east central, 0.01 to 0.02 in. elsewhere. Temperatures averaged 77 to 79° west and north central, 80 to 82° elsewhere; 2° above normal southwest, 4 to 7° above normal elsewhere.

Days suitable for fieldwork 6.0. Subsoil moisture 34% short, 60% adequate, 6% surplus. Wheat harvest full swing. Leaf, stem rust infestations evident, some yield loss expected. Russian wheat aphid confirmed 28 counties. Sorghum planting good progress. Chinch bug activity increasing. Soybean planting good progress. Alfalfa 2nd cutting 40% complete. Range, pasture fair to good west, excellent elsewhere.

KENTUCKY: Warm with average highs mid 80s to lower 90s, lows 50s and 60s. Conditions remained dry, only rain over eastern half. Precipitation amounts less than 0.25 in. Soil temperatures continued mid to upper 70s.

Days suitable fieldwork 5.7. Soil moisture 34% short, 63% adequate, 3% surplus. Crops generally good growth but will need rain. Burley 92% set, 96% 1985, 92% avg. Burley height 72" under 12 in., 23" 12-24 in., 5% over 24 in. Tomato wilt virus, black shank reported. Dark tobacco 88% set, 96% 1985, 94% avg. Tobacco 1% very poor, 3% poor, 58% fair, 36% good, 2% excellent. Corn 12% tasseling. Average height 44 in., tallest 65 in. Weather beneficial to growth, good color. Cultivating, side dressing with nitrogen. Soybean planting progressed well. Small grain harvest progressing. Barley generally light and wheat varies failure to good yields. Wheat 44% harvested, 28% 1985, 24% avg. Harvesting hay. Sorghum 73% planted. Pasture 1% very poor, 11% poor, 43% fair, 38% good and 7% excellent.

LOUISIANA: Temperature 2° below to normal. Temperature extremes 61°; 98°. Rainfall averaged 0.10 to 1.90 in.

Days suitable for fieldwork 4.0. Soil moisture 2% short, 73% adequate, 25% surplus. Corn good; 97% silked, 90% 1985, 76% avg. Corn 61% dough stage, 54% 1985, 41% avg.; 2% mature, 1% 1985, 5% avg. Rice 16% headed, 18% 1985, 12% avg. Sorghum 28% headed, 31% 1985, 20% avg. Soybeans 85% emerged, 89% 1985, 82% avg.; 2% blooming, 2% 1985, 3% avg. Sweetpotatoes good; 90% planted, 94% 1985, 89% avg. Winter wheat fair; 90% harvested, 100% 1985, 95% avg. Hay 1st cutting 81% complete, 94% 1985, 86% avg. Sugarcane, pasture, livestock good; vegetables fair to good. Main activities: Planting soybeans, sweetpotatoes; baling hay; harvesting winter wheat.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 1° above normal over State; lowest temperature 36° Oakland; highest temperature 94° Fredrick. Precipitation averaged 0.30 in., ranging from 0.02 to 1.21 in.

Days suitable for fieldwork 6.7. Topsoil moisture very short to short; subsoil moisture very short to short. Small grains fair to good. Oats 66% turned, 100% 1985, 80% avg.; 4% harvested, 8% 1985, 5% avg. Barley 80% harvested, 90% 1985, 66% avg. Soybeans 67% planted, 84% 1985, 79% avg. Tobacco transplants 81% planted, 100% 1985, 91% avg. Snap beans 89% planted, 100% 1985, 100% avg.; 3% harvested. Green peas 81% harvested, 96% 1985, 61% avg. Apples fair to good. Peaches fair to good.

Delaware: Temperatures averaged 1° above normal over State; lowest temperature 49° Middletown; highest temperature 89° Dover, Milford. Precipitation averaged 0.21 in., ranging from none to 0.67 in.

Days suitable for fieldwork 6.7. Topsoil moisture very short to short; subsoil moisture very short to short. Small grains fair. Wheat 14% harvested, 7% 1985, 5% avg. Barley 88% harvested. Rye 21% harvested. Soybeans 80% planted, 66% 1985, 76% avg.

MICHIGAN: Temperatures ranged 4° below to 2° above normal. Temperature extremes 31°; 88°. Precipitation ranged from 0.10 to 3.50 in.

Days suitable for fieldwork 3.5. Soil moisture 10% short, 40% adequate, 50% surplus. Corn 2% very poor, 8% poor, 20% fair, 50% good, 20% excellent. Many drowned out spots. Soybeans 95% planted, 100% 1985, 100% avg.; 2% very poor, 8% poor, 25% fair, 50% good, 15% excellent. Wheat 95% headed, 100% 1985, 95% avg.; 2% very poor, 8% poor, 25% fair, 50% good, 15% excellent. Dry beans 80% planted, 90% 1985, 80% avg. Major farm activities: Haying, fertilizing, cultivating. First cutting hay behind schedule. Strawberry harvest 45% done. Sweet cherry picking underway. Tart cherry harvest begin late June southwest.

MINNESOTA: Temperatures averaged 1 to 6° above normal. Temperature extremes 35°; 104°. Precipitation averaged 1.07 to 2.65 in. above normal. Greatest weekly total 8.62 in.

Days suitable for fieldwork 5.2. Topsoil moisture 2% very short, 9% short, 80% adequate, 9% surplus. Hot and humid midweek, very wet at end of week. Crop growth measurable. Spring wheat 53% jointing, 81% 1985, 75% avg. Oats 29% heading, 45% 1985, 29% avg. Barley 12% heading, 30% 1985, 28% avg. Field corn heights varied because planting dates. Field corn height 15 in., 14 in. 1985, 11 in. avg. Soybean height 4 in., 4 in. 1985, 4 in. avg.

MISSISSIPPI: Temperatures 1 to 5° above normal, extremes 56°; 100°. Most rain coastal counties. reatest 24-hour 4.02 in.

Days suitable for fieldwork 5.6, 4.0 1985, 4.7 avg. Soil moisture 7% short, 80% adequate, 13% surplus. Corn 3% poor, 14% fair, 63% good, 20% excellent; 53% silking, 51% 1985, 40% avg.; 8% dough stage, 29% 1985, 20% avg. Wheat 4% very poor, 27% poor, 48% fair, 18% good, 3% excellent; 97% ripe, 100% 1985, 100% avg.; 74% harvested, 96% 1985, 77% avg. Sweetpotatoes 85% planted, 93% 1985, 88% avg. Peanuts 94% planted, 97% 1985, 99% avg. Watermelons 98% planted, 100% 1985, 100% avg.; 2% harvested, 7% 1985. Hay 30% harvested, 49% 1985, 43% avg. Peaches 5% harvested, 34% 1985, 24% avg. Corn silage 1% harvested.

MISSOURI: Temperatures averaged 3° above normal, from 1° above Bootheel to 6° above northwest. Scattered thunderstorms across State 0.25 in. except Bootheel, dry.

Days suitable for fieldwork 6.0. Soil moisture 29% short, 68% adequate, 3% surplus. Alfalfa 1st cutting 94%, 100% 1985, 86% avg. Oats harvested 13%, 3% 1985. Alfalfa 2nd cutting 23%, 21% 1985, 13% avg. Pasture 3% poor, 45% fair, 48% good, 4% excellent.

MONTANA: Showers mostly light south central, central. Remainder moderate rainfall. Small north central area heavy rain, some hail. Temperatures 1 or 2° above normal west, 4 to 7° above elsewhere. Freezing temperatures parts west, southwest. Maximum over 100° northeast, southeast.

Days suitable for fieldwork 6.0. Topsoil moisture 30% short, 66% adequate, 4% surplus. Subsoil moisture 16% short, 84% adequate. Barley growth and condition 28% fair, 61% good, 11% excellent. Oats 25% fair, 65% good, 10% excellent. Sugarbeets 10% fair, 80% good, 10% excellent. Sugarbeets 80% thinned. First cutting alfalfa 25% harvested, 35% 1985, 15% avg. Insect damage to crop compared with normal 15% light, 49% moderate, 36% severe. Range feed supplies 87% adequate, 13% surplus.

NEBRASKA Amounts averaged 0.25 to 2.00 in. Temperatures 3 to 7° above normal. Temperature extremes 42°; 96°.

Days suitable for fieldwork 6.2. Topsoil moisture 46% short, 48% adequate, 6% surplus. Subsoil moisture 9% short, 91% adequate. Corn good to excellent. Warm, humid weather encouraged crop growth. Sorghum emerged 99%, 100% 1985, 90% avg. Sorghum mostly good to fair. Soybeans emerged 98%, 100% 1985, 85% avg. Soybeans mostly good. Soybean leaf beetles southeast. Wheat mostly good. Virtually all headed. Wheat turning color 75%, 70% 1985, 55% avg. Heavy rains, wind caused lodging across State. Wheat ripe 6%, 9% 1985, 3% avg. Alfalfa mostly good to fair. First cutting 92%, 100% 1985, 80% avg. Some second cuttings begun. Pasture, range supplies mostly adequate to surplus.

NEVADA: Above normal temperatures all areas. Averages ranged from 1° above normal northeast to 3 or 4° above remainder. Dry entire week, no precipitation reported. Week weather varied from warm, windy early to cool midweek. High pressure system end of period brought warming temperatures, lighter winds. Isolated thunderstorms developed central areas but no precipitation reached ground.

Dry weather allowed good progress alfalfa hay harvest all areas. Vegetative growth accelerated by warmer weather. High temperatures increased irrigation requirements.

NEW ENGLAND: Precipitation 1.00 to 1.50 in. Vermont, New Hampshire, western Massachusetts; 0.50 in. or less elsewhere. Temperatures 50° and low 60° north to mid to upper 60° central, south.

Days suitable for fieldwork 5.7. Soil moisture 68% adequate, 32% surplus. Fieldwork progress generally on schedule. Grazing availability 82% adequate, 18% surplus. Maine potatoes 75% emerged,

75% 1985, 85% avg. Excellent appearance. Field corn emergence 90%, 95% 1985, 85% avg. Sweet corn 92% planted. Sweet corn 85% emerged, 85% 1985, 85% avg. Hay growth good to excellent. First cut 55%, 50% 1985, 50% avg. Apple set average to heavy, drop average, scab infection average. Cranberries starting to blossom. Look good. Major farm activities: Haying, cultivation and sidedressing row crops, herbicide application.

NEW JERSEY: Temperatures much below normal. Extremes 40°; 89°. Rainfall averaged 0.26 in. north, 0.08 in. central, 0.32 in. south. Heaviest 24-hour total 0.86 in. on 20th, 21st. Estimated soil moisture percent field capacity averaged 81% north, 47% central, 48% south. Four inch soil temperatures averaged 65° north, 68° central, 69° south.

Days suitable for fieldwork 7.0. Additional rainfall needed south Jersey. Summer vegetable harvest becoming general. Strawberry harvest complete. Blueberry harvest general; yields off some fields due to spring freeze losses. Peach thinning completed. Apples sizing. Wheat ripened. Barley combining continued. Oats headed, prospects very good. Pasture growth good north, limited south.

NEW MEXICO: Weekly average temperatures slightly above normal except extreme southeast plains. Temperatures 35° northern mountains to 102° southeastern plains. Precipitation recorded over most of State. Precipitation none northwestern plateau, western mountains, central valley, highlands, southern desert to 1.38 in. northeastern plains.

Days suitable for fieldwork 6.4. Soil moisture 50% short, 44% adequate, 6% surplus. Hail damage 69% none, 31% light. Alfalfa 13% poor, 13% fair, 61% good, 13% excellent. Corn 10% fair, 80% good, 10% excellent. Barley 10% poor, 20% fair, 70% good. Irrigated grain sorghum 100% good. Dryland grain sorghum 100% good. Pecans 83% good, 17% excellent. Apples 14% poor, 14% fair, 72% good. Chile 14% fair, 86% good. Onions 50% good, 50% excellent. Cattle 35% fair, 59% good, 6% excellent. Sheep 20% fair, 80% good. Range 18% poor, 47% fair, 29% good, 6% excellent.

NEW YORK: Temperatures averaged 5° below normal, generally 1.00 to 2.00 in. from Catskills and mid Hudson Valley to Adirondacks. Under 0.50 in. lower Hudson Valley and less than 0.25 in. on Long Island.

Days suitable for fieldwork 4.5. Soil moisture surplus to excessive. First cutting alfalfa 46% harvested, 46% 1985, 40% avg. Clover-timothy hay 27% harvested, 26% 1985, 25% avg. Grass silage 51% harvested, 46% 1985, 44% avg. Oats headed out. Wheat starting to turn. Ample moisture allowing for good sizing of apple crop. Hand thinning peaches, pears. Sweet cherry harvest underway. Iceberg lettuce harvest underway. Sweet pea harvest drawing to a close. Pasture good.

NORTH CAROLINA: Temperatures averaged 2° below to 2° above normal, statewide. Temperature extremes 46°; 98°. Precipitation ranged from none to 5.53 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 44% very short, 40% short, 16% adequate. Corn mostly fair to good, leaves twisting, silking. Small grains mostly fair. Cotton mostly fair to good. Soybean planting average, mostly fair to good. Dry weather affecting stands. Tobacco in fields 3% poor, 46% fair, 50% good, 1% excellent. Transplanting burley tobacco 84%, 96% 1985, 94% avg. Peanuts 4% poor, 32% fair, 64% good. Sorghum 85% planted, 84% 1985, 83% avg. Sweetpotatoes 90% planted, 95% 1985, 87% avg.; 3% poor, 52% fair, 42% good, 3% excellent. Irish potatoes harvested 20%,

23% 1985, 23% avg.; 10% poor, 45% fair, 45% good. Apples 19% poor, 69% fair, 12% good. Peaches harvested 32%, 21% 1984, 28% avg. Hay 35% poor, 47% fair, 18% good. Truck crops 6% poor, 59% fair, 35% good. Pasture 38% poor, 45% fair, 17% good. Major farm activities: Planting soybeans, sorghum; transplanting burley tobacco, sweetpotatoes; cultivating corn, cotton, tobacco, peanuts, soybeans; cutting hay; spraying apples; harvesting small grains, cabbage, potatoes, truck crops; tending livestock; mowing; spraying tobacco for budworms, hornworms; setting tomatoes; irrigating crops; general maintenance.

NORTH DAKOTA: Above normal temperatures with showers and thunderstorms. Hail reported mainly central, south central. Low 39° northwest, north central 16th; high 98° central 19th. Rainfall from 0.04 in. west central to 2.51 in. east central.

Days suitable for fieldwork 6.2. Topsoil moisture supplies continued to decline, now below normal; 45% short, 55% adequate. Warm, humid weather helped development of all crops, especially row crops. Cutworms became problem southwest. Condition of hard red spring wheat 86% good, durum 82% good. Hard red spring wheat in boot 26%, 34% 1985, 23% avg.; durum wheat in boot 16%, 25% 1985, 16% avg.; barley in boot 31%, 34% 1985, 27% avg. Row crop development ahead of average due to good growing weather. Late season crops 85% or more good condition. Pasture growth 29% fair, 67% good, 4% excellent.

OHIO: Average highs ranged from upper 70s to low 80s. Average lows mid to high 50s. Growing degrees day accumulation subnormal. Precipitation widespread; generally above 0.25 in.

Days suitable for fieldwork 4.7. Soil moisture 10% short, 57% adequate, 33% surplus. Corn good; growing quickly with average 10 leaves unfurled. Soybeans good; standing water killing some recently emerged seedlings. Winter wheat deteriorated, fair to good; scab, rust, septoria reports increasing. Wheat harvest just started. Hay, pastures fair to good. Hay curing unfavorable; some hay chopped and spread on field as residue. Oats good; 78% headed. Tobacco transplanting almost finished; stands good. Sugarbeets fair to good. Rain slowed pick-your-own strawberry operations; some berries lost.

OKLAHOMA: Temperatures averaged 3° below normal west central, southwest to 2° above normal northeast. Precipitation averaged 0.01 in. Panhandle to 2.42 in. south central.

Days suitable for fieldwork 4.5. Topsoil moisture 10% short, 65% adequate, 25% surplus. Subsoil moisture 2% short, 98% adequate. Wheat 80% harvested, 90% 1985, 50% avg. Test weights averaging 60 lbs., moisture content 12%. Weeds problem combining. Sorghum 9% fair, 90% good, 1% excellent; 70% planted, 85% 1985, 85% avg. Cotton 80% planted, 95% 1985, 85% avg.; none squaring, 10% 1985, 2% avg.; none setting bolls, none 1985, none avg. Newly planted fields need rain for germination. Pastures green, no shortage forage supplies. Cattle good; prices stable, marketings down during wheat harvest.

OREGON: Temperatures varied: beginning of week moderate, cool midweek, warm end of period. All areas averaged 2° below normal, except coast 1° above normal. Precipitation first half of week: over 0.70 in. coast; 0.60 in. North Cascades; between 0.20 to 0.40 in. southwestern valleys, high plateaus; traces elsewhere. Latter half of week spotty precipitation up to 0.75 in. northeast areas.

Soil moisture 73% short, 27% adequate. Grains look good west; irrigated fields good east, dryland stressed by heat, dryness. Grains beginning to head, spraying continued eastern high country.

Grass seeds good Willamette Valley, 1st irrigation central areas. Most 1st cut hay off, early areas began second cut. Some alfalfa weevil problems. Sugarbeets good Malheur County. Excellent cherry crop at The Dalles; picking also began Hood River, early western areas, Milton-Freewater quality good in all areas, some splitting west. Strawberry harvest continued, yields reduced hot weather. Raspberry harvest started, prospects good, some small berries. Cranberry bloom nearly complete southern coast. Fruit, nuts developing well most localities; Bartlett pear, apple thinning Hood River. Vegetable crops growing well, heavy irrigation. Mid Willamette Valley pea harvest underway, broccoli just starting. Good bean progress all areas. Garlic developing well Josephine County. Onions stands look good all areas, thrip control measures. Final irrigation fall seeded Walla Walla sweet onions Milton-Freewater. Asparagus harvest ended Hermiston area. Potatoes doing well Malheur County. Irrigated potatoes for frost protection on 18th Klamath Basin. Livestock generally good entire State. Some cattle movement to Forest Service ranges. Lamb marketing, Clackamas County. Ranges, pastures drying quickly, fair to good. Some help in coastal counties from rain. Wasco County Skeltonweed survey. Grasshopper threat present most eastern counties.

PENNSYLVANIA: Cool, somewhat dry week. Cold front moved northwest to southeast giving State some precipitation and relief to hot, humid conditions. Average temperature 65°, 20 below normal. Temperature extremes 36°; 93°. Average precipitation 0.67 in., 0.27 in. below normal.

Days suitable for fieldwork 5.0. Soil moisture 23% short, 62% adequate, 15% surplus. Corn 4% poor, 14% fair, 59% good, 23% excellent. Average corn height 19 in., 16 in. 1985, 13 in. avg. Soybeans 92% planted, 89% 1985, 84% avg. Soybeans 3% poor, 25% fair, 60% good, 12% excellent. Barley 29% headed, 27% turning yellow, 26% ripe, 18% harvested; 1985 22% headed, 39% turning yellow, 25% ripe, 14% harvested. Wheat 47% headed, 47% turning yellow, 6% ripe; 1985 50% headed, 42% turning yellow, 8% ripe. Wheat 2% poor, 15% fair, 59% good, 24% excellent. Oats 100% heading, 1985 94%; 6% turning yellow. Oat 5% poor, 19% fair, 54% good, 22% excellent. First cutting alfalfa 80% complete; 1985 70%. Second cutting alfalfa 19% complete; 1985 16%. First cutting clover-timothy 67% complete; 1985 52%. Quality of hay good to fair. Feed from pastures average to below average. Activities: Making hay, haylage; planting soybeans; spraying corn, soybeans; harvesting barley, cherries, strawberries; baling straw; transplanting tobacco.

PUERTO RICE: Island average rainfall 0.79 in. or 0.48 in. below normal. Highest weekly total 3.24 in. Highest 24-hour total 1.90 in., Temperature averaged about 80 to 81° on coasts and 72 to 76° interior divisions. Mean station temperature ranges from 63 to 82°. Extremes 57°; 93°. San Juan mean temperature 81 in., minus 0.90 in. Total rainfall 0.23 in., minus 0.82 in.

SOUTH CAROLINA: Temperatures about normal. Rainfall sparse upstate, scattered across Coastal Plains. Eastern half of State fairly moist, upstate and midlands very dry.

Days available for fieldwork 5.8. Soil moisture 46% very short, 39% short, 15% adequate. Cotton 100% planted, 100% 1985, 100% avg.; 54% squaring, 63% 1985, 66% avg.; 2% setting bolls, 13% 1985, 5% avg.; 16% very poor, 16% poor, 41% fair, 27% good. Soybeans 78% planted, 83% 1985, 80% avg.; 16% poor, 64% fair, 20% good. Tobacco fair to good; 24% topped, 35% 1985, 42% avg. Corn fair; 63% silked, 76% 1985, 60% avg.; 10% dough stage, 21% 1985, 19%

avg. Peaches fair; 35% harvested, 26% 1985, 21% avg. Wheat 90% harvested, 91% 1985, 81% avg. Peanuts fair.

SOUTH DAKOTA: Average temperatures 4 to 10° above normal. Extremes 38°; 101°. Precipitation heavy central, southeast; light north, west.

Days suitable for fieldwork 5.3. Topsoil moisture mostly adequate; scattered areas short, surplus; 8% short, 80% adequate, 12% surplus. Hot, windy weather aided fieldwork. Most crops good to excellent. Grasshoppers reported; rust showing winter wheat. Range, pastures, livestock mostly good to excellent. Feed, stockwater supplies mostly adequate.

TENNESSEE: Rainfall limited. Temperatures above normal.

Days suitable for fieldwork 5.8. Soil moisture 12% very short, 23% short, 61% adequate, 4% surplus. Corn 20% tasseling, 20% 1985, 9% avg.; 5% poor, 37% fair, 48% good, 10% excellent. Cotton 100% planted, 100% 1985, 100% avg.; 30% squaring, 30% 1985, 20% avg.; 15% poor, 24% fair, 58% good, 3% excellent. Sorghum 90% planted, 91% 1985; 2% very poor, 3% poor, 39% fair, 49% good, 7% excellent. Soybeans 75% planted, 80% 1985, 75% avg.; 6% very poor, 8% poor, 38% fair, 43% good, 59% excellent. Wheat 95% ripe, 92% 1985, 91% avg.; 50% harvested, 55% 1985, 45% avg. Tobacco 92% transplanted, 100% 1985, 96% avg.; 3% very poor, 11% poor, 65% fair, 21% good. Cattle good. Pastures fair.

TEXAS: Upper air low pressure interacted very moist, tropical air to trigger thunderstorms north, central, southeast early week, south central midweek. Showers limited west late week as upper level high pressure choked off shower development elsewhere. Rainfall amounts above normal, except Lower Rio Grande Valley, Upper Coast, dry side. Rainfall totals greatest Southern High Plains. Temperatures close to normal, except Southern High Plains, Low Plains, conditions cooler than usual.

Crops: Small grain harvesting continued slowly Plains, Cross-Timbers. Lack winter moisture, aphids lowered yields. Most dryland acreage harvested. Weeds caused harvesting problems. Fields left for harvest Blacklands probably not produce good yields. Turning color 100%, 100% 1985, 96% avg. Corn excellent progress most State. Many fields northern areas silking, dough stage. Some irrigation beginning Plains. Fields Blacklands, central entering dent stage. Some yellowing from excessive moisture. Fields south, Valley maturing rapidly. Open weather needed. Silked 63%, 59% 1985. Doughing 56%, 44% 1985. Dented 25%, 23% 1985. Grain sorghum fields showing good progress from recent moisture. Planting resuming, completed soon Plains. Fields heading Blacklands south, little problems reported. Minor cases yellowing, midge occurring scattered fields Blacklands. Fields turning color central, southern areas, some harvesting underway Coastal Bend, Rio Grande Valley, progress slow because wet ground. Headed 55%, 52% 1985, 53% avg. Turning color 40%, 25% 1985, 29% avg. Mature 10%, 5% 1985, 7% avg. Cotton planting resuming Plains, overall progress behind schedule, could cause yield reductions later on. Early fields squaring. Damage from winds, hail have caused replanting. Fields most other areas started setting bolls. Weeds increasing many fields. Some cultivating occurring. First bale of cotton ginned Rio Grande Valley 16th. Bolls beginning open most other fields. Insect populations increasing. Rice fields continued head Upper Coast. Fertilization continued. Overall prospects good. Headed 18%, 6% 1985, 17% avg. Peanut planting remains slow because wet ground many regions. Some progress Plains, Cross-Timbers. Wet conditions lingered central, southern areas.

Planted fields good start. Planted 61%, 89% 1985, 71% avg.

Other Field Crops: Soybeans 70% planted, 75% 1985, 71% avg. Sunflowers 64% planted, 88% 1985, 77% avg. Oats 57% harvested, 76% 1985, 69% avg.

Commercial Vegetables: Rio Grande Valley harvest cucumbers tomatoes, squash, okra continued. Some melons ruined by excessive moisture. San Antonio-Winter Garden, rain interrupted harvest watermelons. Vines deteriorating from excessive rains. Heavy mildew present. East high humidity, rain disease problems. Harvest sweet corn, beans, potatoes, squash, tomatoes continued between showers. High Plains most vegetables making good progress. Onion harvest near. Potato, cucumber harvest continued Knox-Haskell area. Yields good. Trans-Pecos harvest onions begin soon. Cantaloups, watermelons setting fruit. Harvest onions Presidio area complete. Mid, late variety peaches continued harvest. Quality, prices good. Pecan trees, nuts good. Sets good, but light many areas. Aphid, scab problems increasing. Second sprayings casebearers continued central, east regions.

Range and Livestock: Ranges, pastures continued good progress most areas. Hay harvesting resuming Plains, east. Second cutting alfalfa resuming Plains. Livestock continued good gains as pastures improve. Flies increasing untreated herds. Most stock tanks good levels.

UTAH: Temperatures 3 to 6° above normal. Precipitation none to light north central, north mountains, Uinta Basin, extreme south.

Days suitable for fieldwork 6.9. Topsoil moisture 71% short, 29% adequate. Crop progress 1 week ahead normal. Winter wheat 98% headed, 96% 1985, 88% avg.; spring wheat 74% headed, 72% 1985, 56% avg.; barley 81% headed, 80% 1985, 59% avg.; oats 68% booted, 34% 1985, 47% avg. Corn height 12 in. Alfalfa 1st cutting complete, quality fair; 2nd cutting complete extreme south. Other hay 32% complete. Tart cherries mostly good; apples fair to good; range fair to mostly good; livestock good. Movement to summer range: cattle 88%, sheep 88%. Major farm activities: Cleanup 1st crop hay harvest, irrigation, spraying, fruit harvest, cultivation.

VIRGINIA: Warm, dry. Isolated showers over wide area. Precipitation range none to 0.20 in. Temperatures slightly above normal.

Days suitable for fieldwork 6.0. Soil moisture 94% short, 6% adequate. All areas need rain, most extremely dry. Corn poor to fair. Fields east, southeast stressed; poor growth, twisting. Approaching critical moisture stage. Silking 3% complete, 14% 1985, 8% avg. Soybean planting delayed by dry weather, 70% complete, 78% 1985, 76% avg. Need rain within 2 weeks. Planting halted many areas. Peanuts good to excellent. Tobacco good to excellent, irrigation increasing. Burley tobacco transplanting slow, 82% complete, 100% 1985 and avg. Seedlings scarce. Apples fair; peaches

need rain. Barley harvest 78% complete, 83% 1985, 79% avg. Wheat harvest 46% complete, 54% 1985, 43% avg. Oat harvest 48% complete, 48% 1985, 39% avg. Small grain yields below normal. Irrigated vegetables fair, non-irrigated poor. Pastures poor except good southwest. Feeding hay increasing. All hay poor, thin 1st cuttings. Few 2nd cuttings most areas.

WASHINGTON: Mostly unstable conditions. Light rainfall; most west, few thunderstorms far east. Average temperatures mostly below normal across State, slightly above normal southeast.

Days suitable for fieldwork 6.5. Soil moisture 40% short, 60% adequate. Winter wheat, barley good to fair. Harvest continued; strawberries, cherries. Winter damage; blueberries, raspberries. Range, pasture 15% short, 85% adequate. Calves, lambs mostly good.

WEST VIRGINIA: Temperatures near normal statewide, departures 2° above normal northeast division; 3° below northwest, north central. Temperature extremes 36° Greenbank; 95° Creston, Ripley, Williamson. Average temperature 68°. Precipitation showery. Northwest averaged 1.46 in., southern 0.01 in.

Days suitable for fieldwork 5.1. Soil moisture 20% very short, 37% short, 41% adequate, 2% surplus. Feed supplies 26% short, 68% adequate, 6% surplus.

WISCONSIN: Temperatures averaged normal 68°; low 30°, high 96°. Rainfall 0.20 to 2.40 in., up to 4.00 in., some areas northwest severe thunderstorms.

Days suitable for fieldwork 4.8. Soil moisture 40% short, 59% adequate, 1% surplus. Crops 3% poor, 20% fair, 70% good, 7% excellent. Corn 1% poor, 17% fair, 69% good, 13% excellent. Rain aided corn growth, average height 14 in. Soybeans planted 94%, 99% 1985, 98% avg. First cutting hay 76%, 79% 1985, 59% avg. Oats 47% headed, 42% 1985, 22% avg. Oats short, some premature heading. Pea harvest started. Winter wheat excellent.

WYOMING: Temperatures above normal. Precipitation mostly below normal.

Days suitable for fieldwork 7.0. Topsoil moisture 28% short, 69% adequate, 3% surplus. Subsoil moisture 4% short, 96% adequate. Potatoes emerged 85%, 90% 1985. Dry beans emerged 85%, 100% 1985. Sugarbeets thinned 75%, 85% 1985, 70% avg. Winter wheat jointed 5%; boot 15%, 15% 1985; headed 80%, 80% 1985, 65% avg. Barley not jointed 20%, 15% 1985; jointed 20%, 20% 1985; boot 35%, 25% 1985; headed 25%, 35% 1985. Spring wheat not jointed 15%, 15% 1985; jointed 35%, 30% 1985; boot 35%, 30% 1985; headed 15%, 25% 1985. Oats not jointed 35%, 15% 1985; jointed 35%, 20% 1985; boot 25%, 45% 1985; headed 5%, 20% 1985. Alfalfa 1st cutting 20%, 35% 1985, 15% avg. Other hay harvested 5%, 10% 1985, 5% avg. Livestock moved to summer ranges: Cattle 80%; sheep 75%.

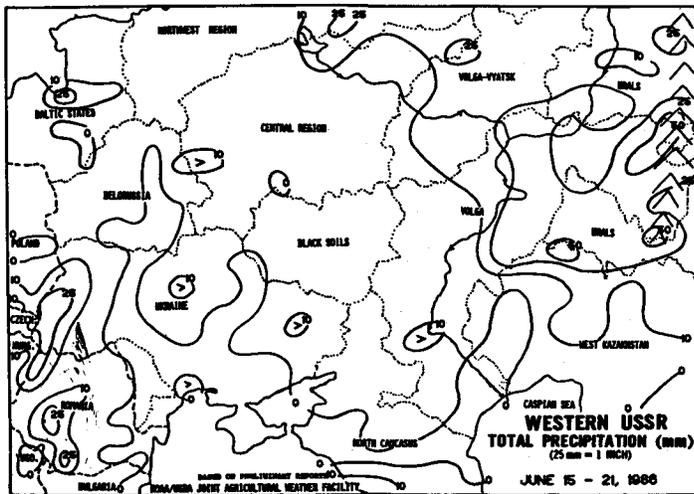
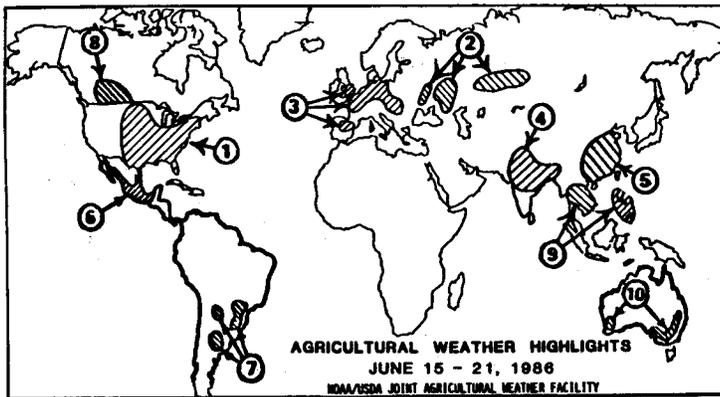
Global Weather Satellite Image

JUNE 21, 1986



International Weather and Crop Summary

June 15 - 21, 1986

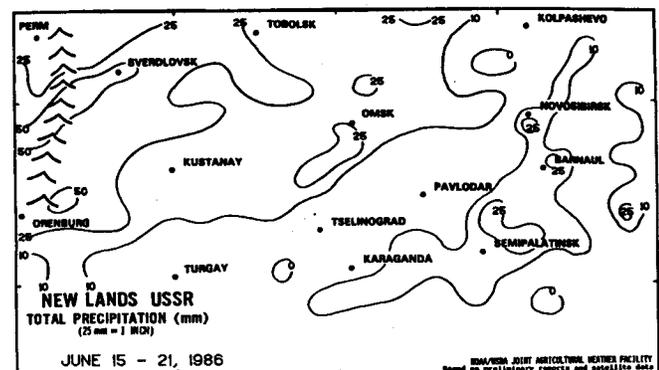


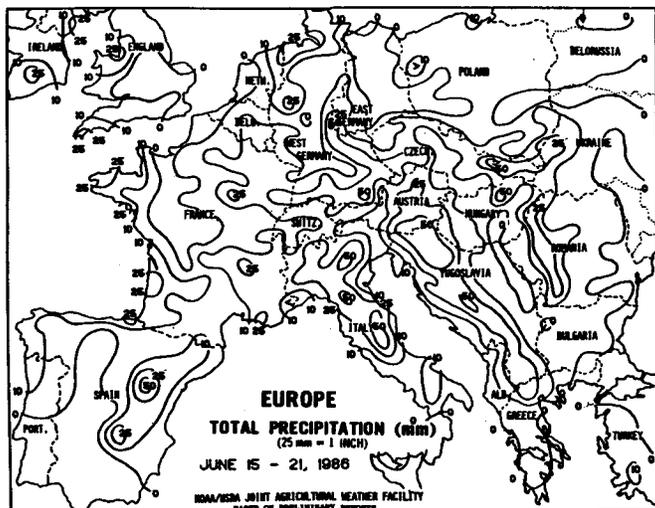
U.S.S.R. ... An early-week cold front pushed eastward across Western U.S.S.R., bringing in cooler weather. Daytime maximum temperatures in major grain producing areas of the eastern Ukraine and the North Caucasus dropped to around 26 degrees C. The cooler weather lowered heat stress, but the moisture deficiency persisted as unfavorably dry weather continued over winter grains in the filling stage and spring grains in reproduction. Further north, the first significant precipitation since March covered crop areas in the Upper Volga, and southern Urals. Rainfall amounts ranged from 25 to 50mm, benefiting spring grains in the jointing stage. Weekly temperatures were generally above normal in the west, and normal to below normal in the east.

In the New Lands, frequent showers covered western and central spring grain areas. Rainfall amounts from Orenburg to Sverdlovsk ranged from 25 to 50mm, while further east around Omsk lighter amounts of rain fell (10 to 37mm). Light rain (5 to 25mm) covered eastern crop areas, and slightly above-normal temperatures favored emergence and early growth. Spring grains are likely in the jointing stage in the southern Urals and much of Kazakhstan, while further north in Siberia and the northern Urals spring grains are in the vegetative stage.

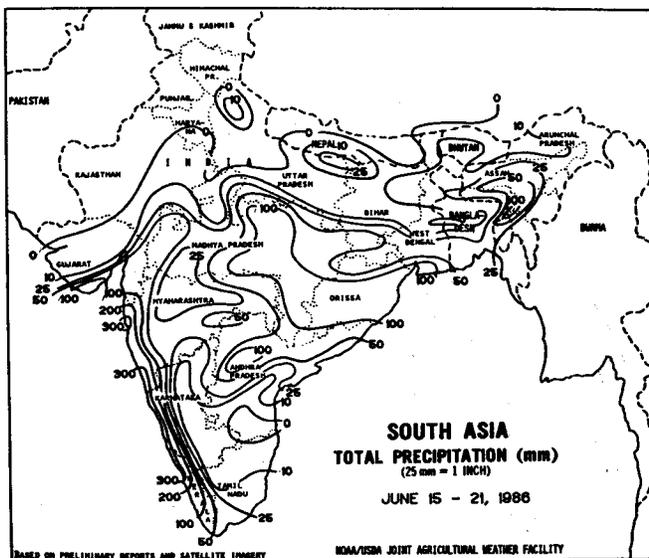
HIGHLIGHTS:

- 1. UNITED STATES** ... Rain from Texas, through the central Great Plains, and across the Corn Belt promotes growth but aids the spread of wheat diseases. Soybean planting and wheat harvest continues briskly despite rain. The lack of precipitation aggravated dry conditions in the Southeast.
- 2. U.S.S.R.** ... Cooler weather relieves heat stress in major southern grain producing areas of western U.S.S.R. However, the weather in some areas continues unfavorably dry. In the New Lands, showers continue to benefit early spring grain growth.
- 3. EUROPE** ... Moisture conditions are becoming limited for wheat in northern France. Drier weather in southeastern Europe follows 2 weeks of beneficial rain.
- 4. SOUTH ASIA** ... Monsoon rainfall benefits eastern autumn rice areas while heavy rain causes flooding along the west coast rice region.
- 5. EASTERN ASIA** ... Moderate to heavy rain maintains adequate moisture in the southern rice region. Dry, hot weather is unfavorable for summer crops in the North China Plain.
- 6. MEXICO** ... Moderate rain benefits the Southern Plateau corn belt. Dry weather favors late wheat harvesting.
- 7. SOUTH AMERICA** ... Unseasonably warm, dry weather continues to cover wheat areas in Argentina and Brazil. Showers are needed for wheat planting in Argentina.
- 8. CANADA** ... Moderate rain further improves moisture supplies in the central grain belt. Moisture is becoming limited in southern Alberta for grains in the vegetative stage.
- 9. SOUTHEAST ASIA** ... Typhoon Nancy produces moderate rain in the northern Philippines. Moderate rain favors rainfed rice and corn in Thailand.
- 10. AUSTRALIA** ... Dry weather delays planting in the northeastern wheat belt. Beneficial showers return to the southeast. The western wheat region has adequate moisture.

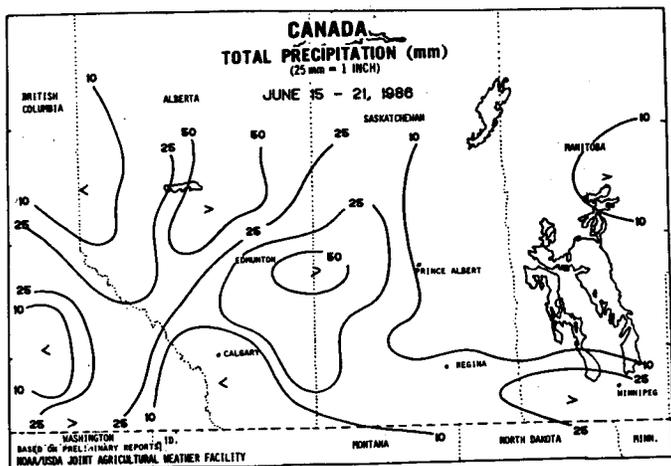




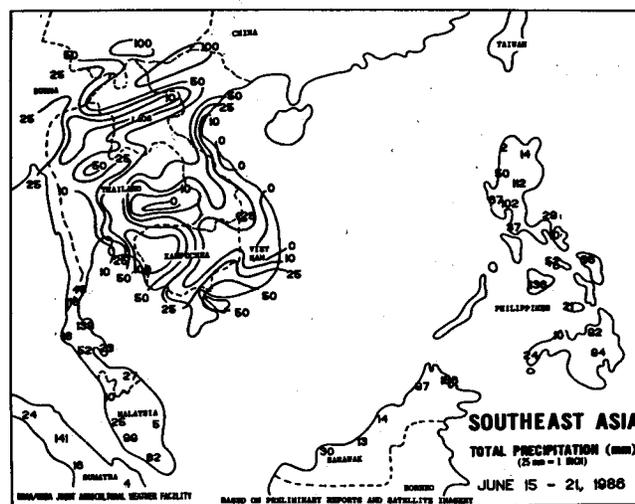
EUROPE ... Light precipitation covered England, northern France, northern West Germany, East Germany, and Poland, and in most areas, crops had to rely on soil moisture for continued growth. Winter grains are in reproduction except for Poland where the crop is in the filling stage. Soil moisture supplies were likely adequate but are becoming limited in England and northern France. In addition, weekly temperatures were 2 to 5 degrees C above normal over much of northern Europe, increasing crop moisture requirements. Drier weather covered crop areas in southeastern Europe, following 2 weeks of widespread significant showers. Widespread moderate rain (25 to 50mm) covered Italy, which probably delayed winter grain harvesting in peninsular crop areas but benefited crops in Italy's Po Valley.



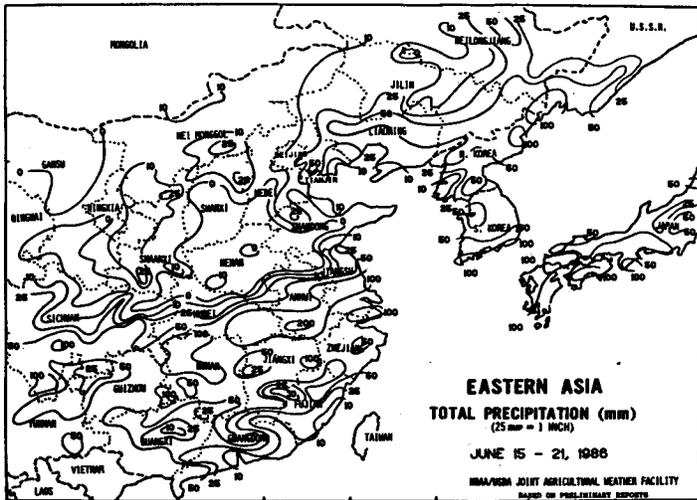
SOUTH ASIA ... Monsoon activity increased this week and the area of rainfall advanced northward to a near-normal position. The first significant rain of the season covered eastern autumn rice areas. Widespread, moderate to heavy rain (25 to 180mm) benefited the rainfed autumn rice area in Orissa, northern Andhra Pradesh, and eastern Madhya Pradesh where planting can now begin. Heavy rain (100 to 380mm) that flooded the west coast may cause some rice to be replanted. Light showers fell through central Maharashtra, Karnataka, and Tamil Nadu benefiting southern cotton and groundnut planting. Seasonally dry weather continued in the northwest.



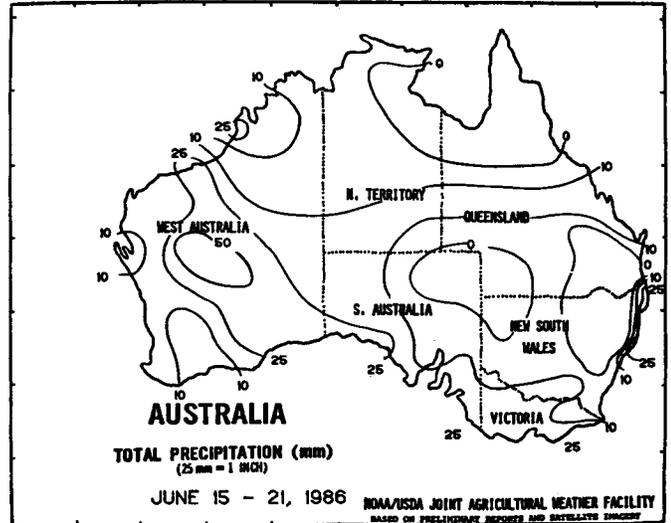
CANADA ... Rainfall increased over the central Prairies with 25 to 50mm of rain covering central portions of Alberta, Saskatchewan, and southern Manitoba. The recent rain further improved moisture supplies in most of the grain belt for spring wheat in the vegetative stage. Moderate rain (10 to 20mm) benefited grains in southwestern Saskatchewan where rainfall has been light in recent weeks. Light showers (less than 5mm) fell in southern Alberta where moisture is becoming limited. Temperatures averaged slightly above normal in the Prairies with highs ranging from 25 to 32 degrees C.



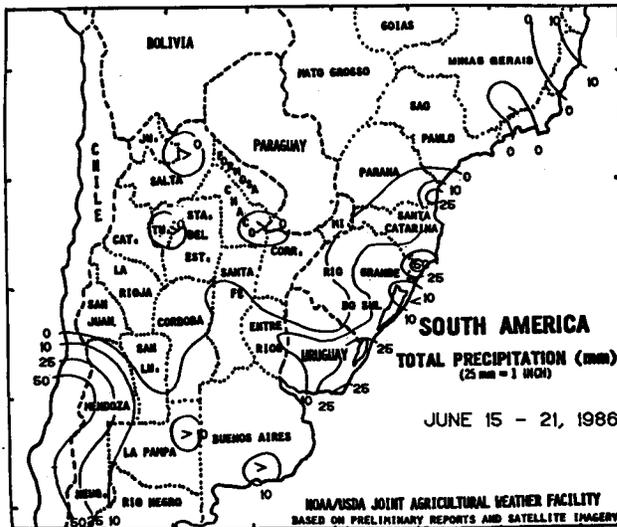
SOUTHEAST ASIA ... Moderate rain continued in most of Laos and northern Vietnam while drier weather covered south central Vietnam. The moderate rain (25 to 80mm) extended through northeastern and central Thailand benefiting rainfed rice and corn. Relatively dry weather covered northern and southeastern Thailand where moisture is adequate. Late in the week, Typhoon Nancy developed in the Philippine Sea to the east of Luzon. Nancy moved to the northwest and brushed the island of Luzon, bringing moderate rain and wind. Little if any crop damage is expected from the typhoon. Moderate rain benefited rice in the central and southern Philippines.



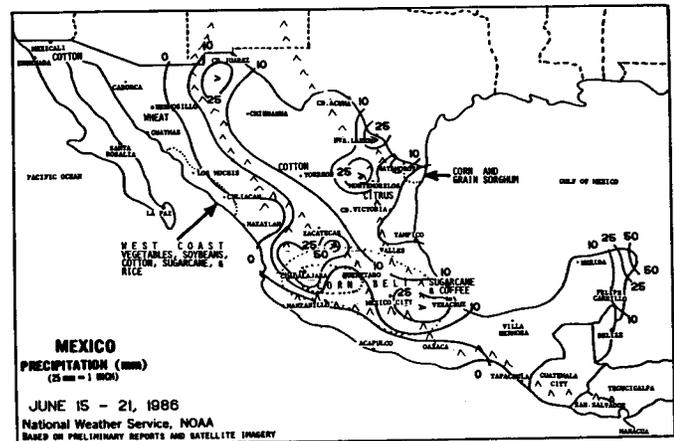
EASTERN ASIA ... Widespread rain covered most of the southern rice region. Moderate to heavy rain (25 to 200mm) in the Yangtze Valley benefited intermediate rice entering the heading stage and supplied moisture for late-crop rice planting. Moderate rain benefited south coastal rice areas. Mostly dry weather covered Henan, southern Shandong, and southern Hebei where limited moisture and high temperatures (35 to 39 degrees C) were unfavorable for nonirrigated cotton, early corn, and early soybeans entering the flowering stages. Moisture is also limited for late corn and soybean planting. The dry weather has been favorable for winter wheat harvesting in its late stages. Variable rain fell in Manchuria with 10 to 50mm of rain benefiting spring wheat in the heading stage and corn and soybeans entering the flowering stage.



AUSTRALIA ... Six consecutive weeks with no rainfall in the major wheat region of northern New South Wales and southeastern Queensland has delayed the completion of wheat planting. Cooler, near-normal temperatures in the region eased the evaporative demand. However, the chronically dry weather has been unfavorable for the establishment of earlier planted wheat. Moderate showers (15 to 20mm) benefited the southern wheat belt across South Australia, Victoria, and southern New South Wales following 3 weeks of dry weather. The moisture will allow wheat planting to continue, but seasonally cooler temperatures are forcing earlier planted wheat into semi-dormancy. Light to moderate rain (5 to 20mm) favored early growth in western wheat areas.

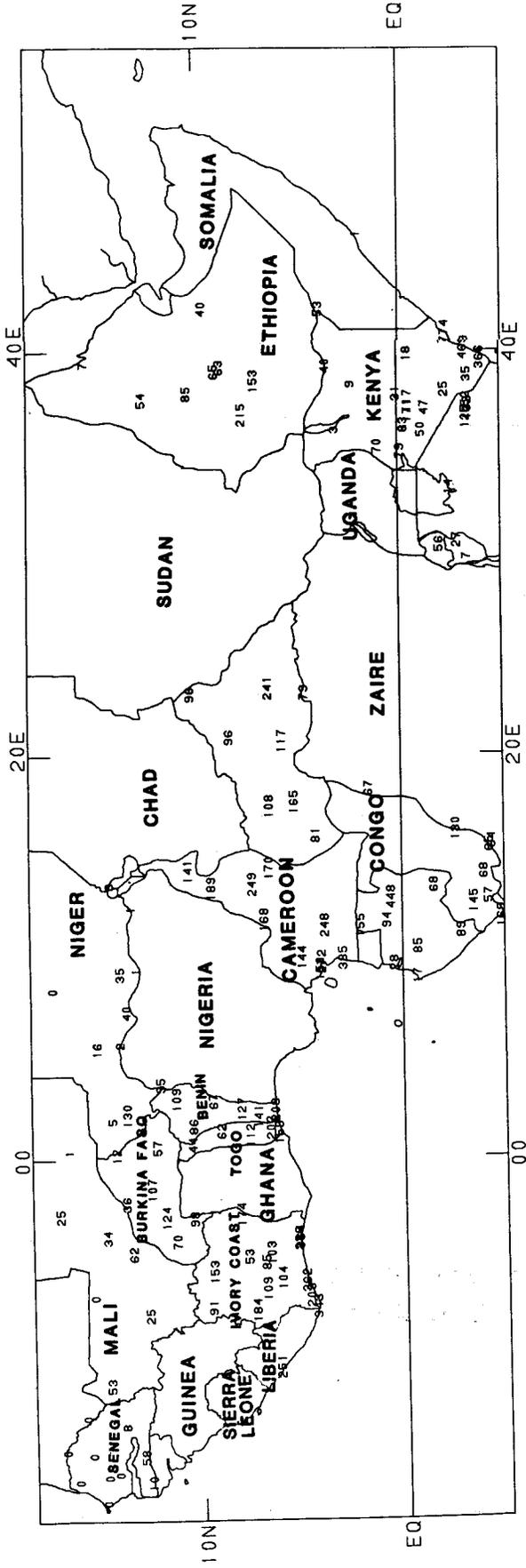


SOUTH AMERICA ... Unseasonably warm, dry weather continued over the region. Significant showers were again confined to Uruguay, as well as eastern Rio Grande do Sul and eastern Santa Catarina. Generally dry weather in Argentina's wheat areas of Buenos Aires and southern Santa Fe allowed early season planting activity with minimal delay. However, rain is needed in these areas for uniform emergence. In Brazil, mostly dry weather covered wheat areas in Parana, but soil moisture was likely adequate to meet the requirements of the crop in the vegetative stage. Light showers in Rio Grande do Sul continued to keep topsoils moist for wheat planting.



MEXICO ... Light to moderate showers (10 to 50mm) benefited the western corn belt for the second week. The moisture was very beneficial for early growth of corn. Light showers fell in the eastern corn belt where moisture is adequate. Light, scattered showers fell in the northeast but were not excessive for maturing corn and sorghum. Dry weather along the west coast favored late wheat harvesting in the north. The dry weather extended over the summer crop area, but light showers in the mountain watersheds benefited irrigation reserves.

TOTAL PRECIPITATION (mm) FOR MID-AFRICA MAY 18 TO JUNE 14, 1986



In eastern Africa, Ethiopia's early season crops progressed through the reproductive and grain filling stages with favorable moisture in the east and southwest. Below-normal May rainfall in northern Ethiopia likely limited the yield potential of early season crops. The primary rainy season and coincident main crop planting season normally begin in mid-June. Rainfall has begun to increase and moisture is adequate for planting in much of Ethiopia. May rainfall was below normal in Kenya's corn region, but moisture was adequate for vegetative growth. Corn is entering the critical tasseling stage, and a normal increase in rainfall during late June and early July will be needed to maintain the yield potential.

In western Africa, crop planting normally occurs from April to June along the south coastal countries bordering the Gulf of Guinea. May rainfall was generally adequate for crop planting and establishment in the Ivory Coast, Ghana, Togo, and Benin. Rainfall normally reaches a peak along the south coast in June and early July before the intertropical Convergence Zone (ITCZ) advances northward into the Sahelian countries. The recent increase in rainfall in these areas favored crop development. The normal rainy season is just beginning in the Sahel. Near-normal early season rainfall has likely stimulated grain planting in Burkina Faso and southern Mali. In Burkina Faso, rainfall variability increases substantially from the more humid southern region to the northern Sahel zone. Recent sporadic showers have begun to moisten topsoils sufficiently in isolated areas of southern Senegal, south-central Mali, and Niger to begin preparations for crop planting. In the rice areas along the southwest coast, satellite data suggest that moisture is adequate for early rice growth in Sierra Leone and Liberia.

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(Continued from p. 14)

South Carolina's peaches were harvested, surpassing 1985 and the average. In Mississippi, peaches were 5% harvested, nearly 5 times slower than normal and nearly 7 times slower than in 1985.

VEGETABLES: Florida vegetable shipments decreased for all major crops. Harvest of most vegetables was complete in the central and southern areas. Rain interrupted vegetable harvest in Texas. Disease and mildew was becoming a problem in melons. California vegetable harvest consisted mostly of broccoli, carrots, celery, sweet corn, lettuce, and melons.

PASTURES AND LIVESTOCK: Pastures were mostly good except in the Southeast. Pastures began declining from lack of moisture in the Southeast. Livestock was mostly good.

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