

WEEKLY WEATHER AND CROP BULLETIN

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

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

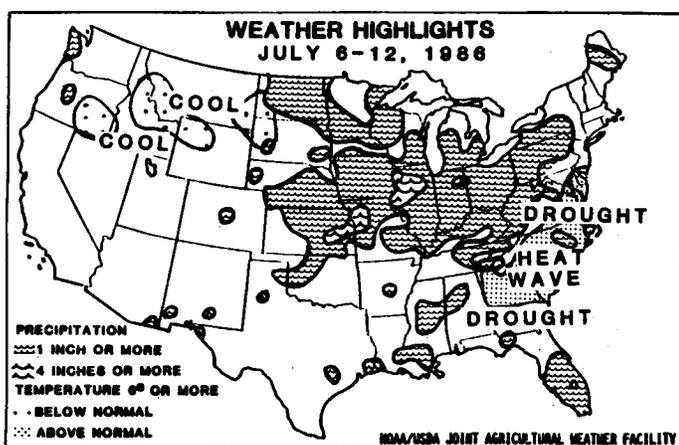
Volume 73, No. 28

Washington, D.C.

July 15, 1986

National Weather Summary

July 6 to 12, 1986



HIGHLIGHTS: Record-high temperatures were set in a heat wave that reached from New Jersey through Georgia. Temperatures near the century mark were as much as 8 degrees above normal. Showers and thunderstorms were widespread throughout the East, but many parts of the South and the East Coast States measured little or no rain. Heavy thunderstorms resulted in severe local flooding in parts of eastern Kansas and northwestern Missouri and in northern Illinois. The heaviest accumulation of precipitation was from Kansas and Nebraska eastward to Pennsylvania and southern New York.

SUNDAY...Thunderstorms brought moderate to heavy showers to the area from north-central Oklahoma through eastern Iowa and into central Illinois. Torrential rain fell in eastern Kansas. Thunderstorms were scattered along the central and eastern gulf coast and through Alabama, Florida, and southern Georgia. Widely scattered showers were in the central and southern Rockies and the Southwest. Unusually cool weather was in the Northwest, but hot weather covered most of the East Coast States.

MONDAY...Scattered, light showers covered most of the Nation. However, it was hot and dry from Alabama through Kentucky and in most of the East Coast States. Heavier showers fell from southeastern Iowa into southern Wisconsin. Temperatures reached into the high nineties from Mississippi through the Carolinas and to southern New England.

TUESDAY...Light showers and thunderstorms covered the Rockies. Moderate to heavy showers fell from eastern Iowa to central Pennsylvania. Showers were widely scattered in the Southeast and part of the

mid-Atlantic States. The heat wave continued from Alabama and Georgia to New Jersey, and unusually warm weather reached into the central Great Plains and central Mississippi Valley.

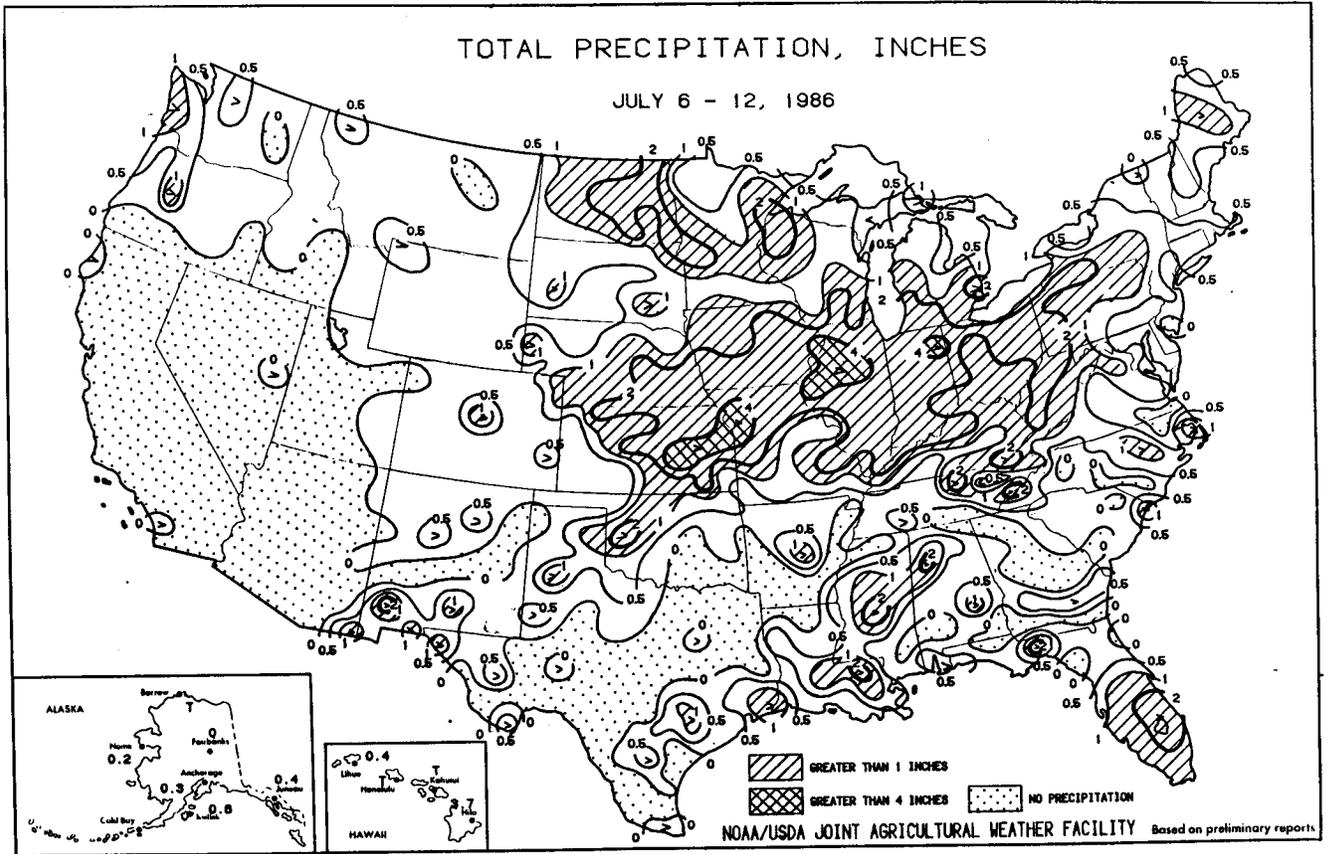
WEDNESDAY...Showers continued in the Rockies and spread over the northern and central Plains. Moderate to heavy showers and thunderstorms reached from southern Nebraska to central Illinois. Showers and thunderstorms were widespread from the Ohio Valley to the mid-Atlantic States. Afternoon temperatures rose to near 100 degrees from Virginia to Alabama.

THURSDAY...Showers and thunderstorms were widespread through much of eastern United States and in the Northwest. The heaviest showers fell from eastern Kansas and Iowa through the Ohio Valley. Moderate showers benefited parts of central North Carolina and southwestern Virginia. The heat wave continued in the Southeast.

FRIDAY...Nearly all of eastern United States experienced thunderstorms. The heaviest showers fell from parts of the central Plains and upper Mississippi Valley through the Ohio Valley and the Great Lakes. It was cool in the Northeast, but afternoon temperatures climbed to the century mark again in the Carolinas and Georgia.

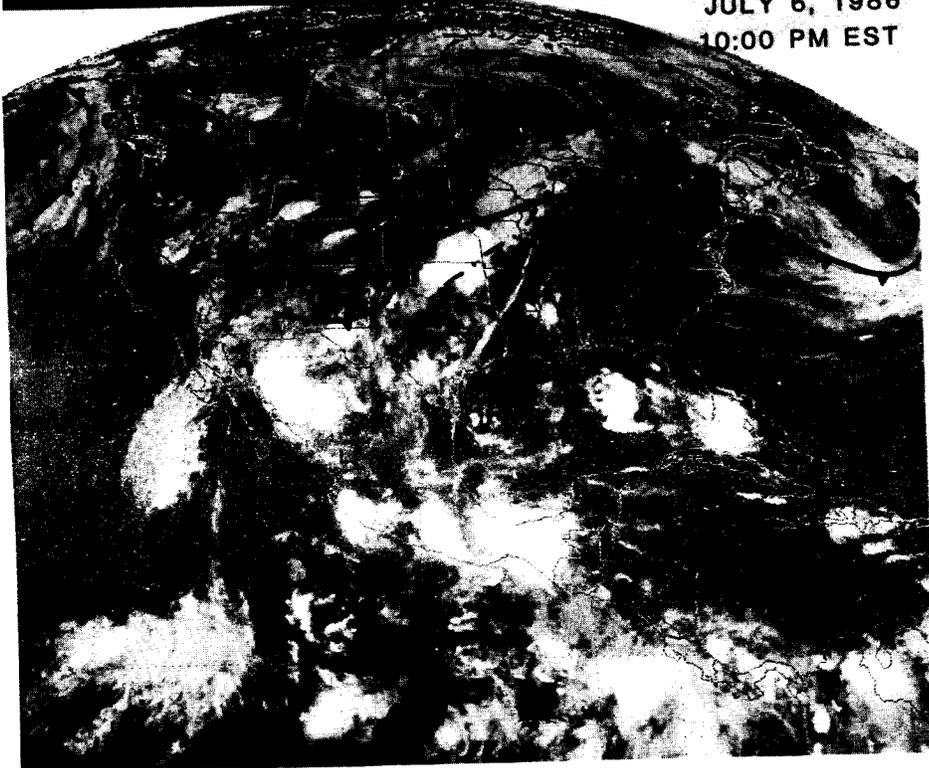
SATURDAY...After a day of widespread showers and thunderstorms, thunderstorms were only scattered and brought light showers to the northeastern quarter of the Nation. Seasonable temperatures covered most of the Nation, but the heat wave continued from Virginia to Alabama.

Contents	Page
National Weather Summary	1
Total Precipitation & North America Satellite Photo.	2
Crop Moisture & Crop Moisture Index.	3
National Water Conditions for June	4
Total Growing Degree Days & Departure.	7
Average Temperature & Departure.	8
Extreme Maximum Temperature & Pan Evaporation.	9
National Weather Data for Selected Cities.	10
National Agricultural Summary.	13
Crop Progress and Condition Tables	14
State Summaries of Weather and Agriculture	16
Global Weather Satellite Image	22
International Weather and Crop Summary Includes Monthly Maps	23
Subscription & Mailing Permit Information.	36



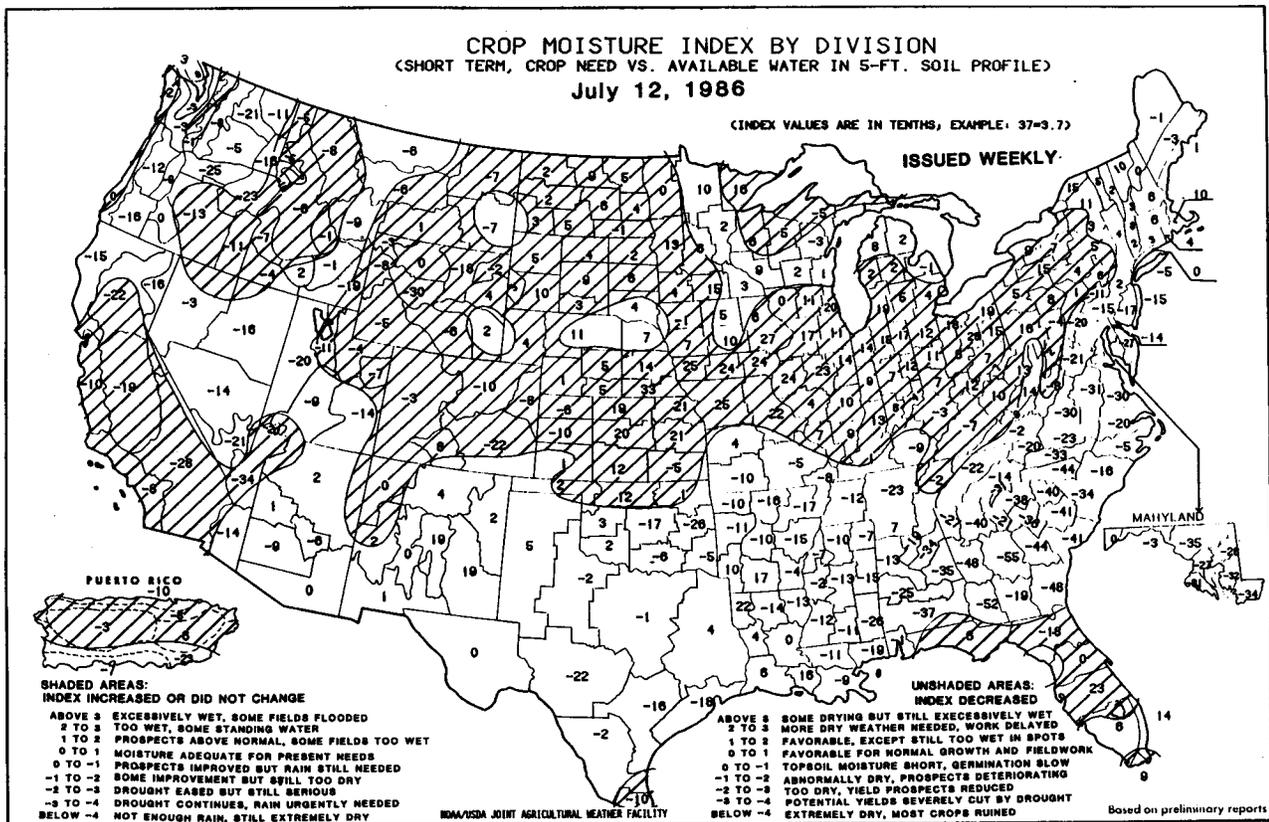
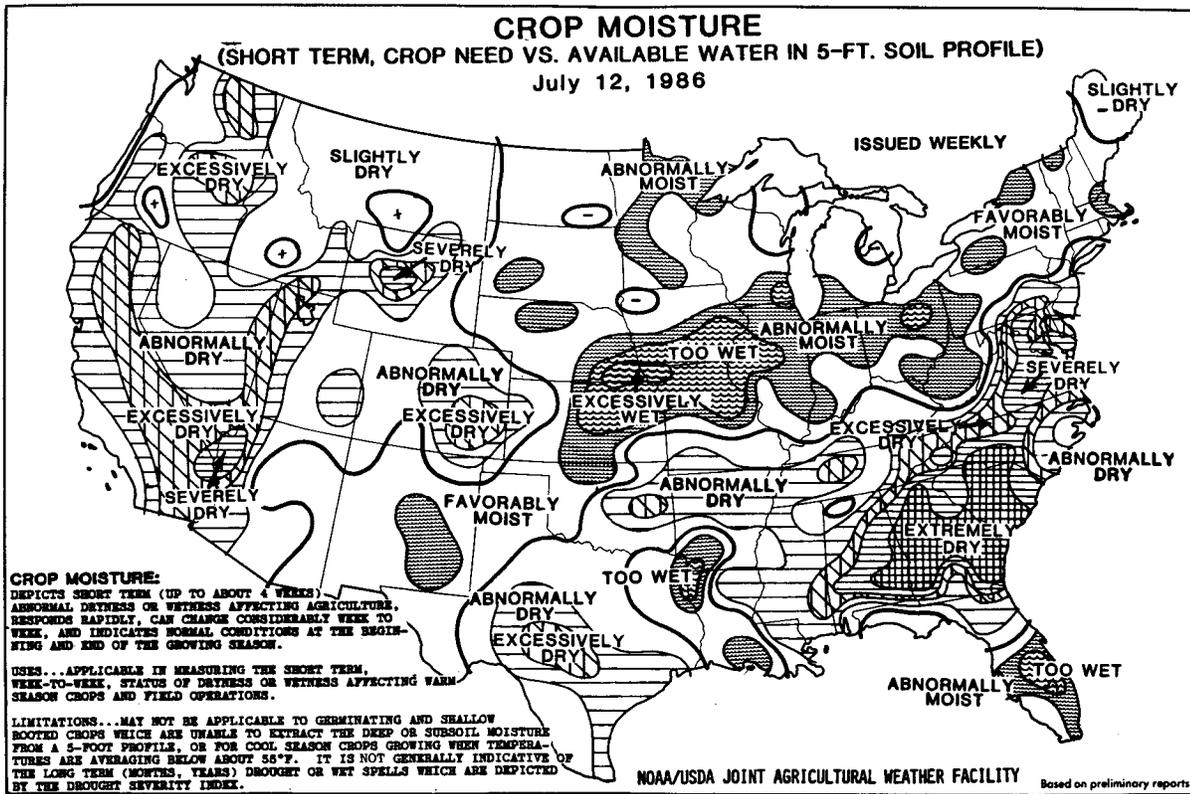
0300 07JL86 38E-4ZA 00491 20321 UC6

JULY 6, 1986
10:00 PM EST



SHOWERS AND THUNDERSTORMS ARE SCATTERED ALONG A STATIONARY FRONT FROM NORTHERN ILLINOIS TO CENTRAL OKLAHOMA. SOME STORMS ARE POURING TORRENTIAL RAINS INTO PARTS OF MISSOURI AND KANSAS.

RAIN IS FALLING FROM THUNDERSTORMS ACROSS NORTHWESTERN AND SOUTHERN MEXICO.



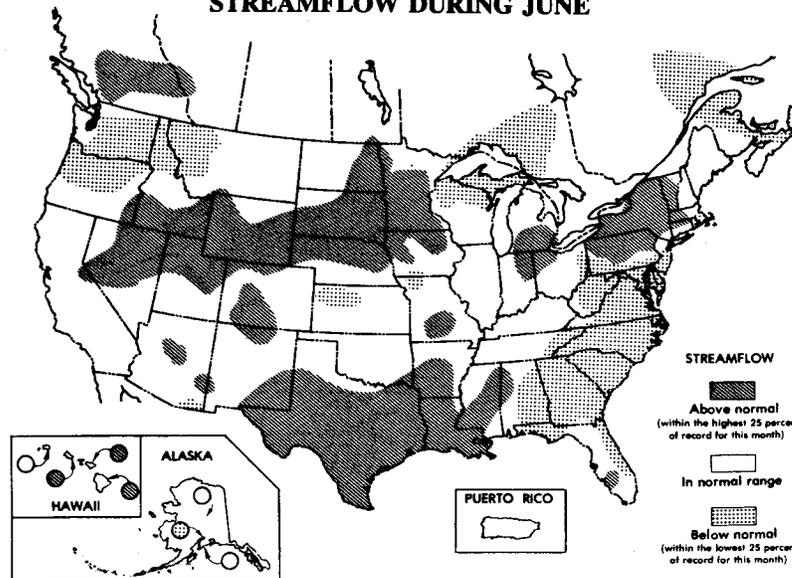
National Water Conditions

UNITED STATES
Department of the Interior
Geological Survey

CANADA
Department of the Environment
Water Resources Branch

JUNE 1986

STREAMFLOW DURING JUNE



NEW MINIMUMS DURING JUNE 1986 AT STREAMFLOW INDEX STATIONS

Station number	Stream and place of determination	Drainage area (square miles)	Years of record	Previous June minimums (period of record)		June 1986			
				Monthly mean in cfs (year)	Daily mean in cfs (year)	Monthly mean in cfs	Percent of median	Daily mean in cfs	Day
01309500	Massapequa Creek at Massapequa, NY	38	49	3.83 (1966)	2.2 (1966)	1.92	21	1.7	2
01491000	Choptank River near Greensboro, MD	113	38	20.3 (1977)	8.8 (1977)	20	32	12	20
01645000	Seneca Creek at Dawsonville, MD	101	56	40.3 (1932)	11.0 (1931)	35.1	38	25	30
02091500	Contentnea Creek at Hookerton, NC	729	58	52.0 (1985)	35.0 (1985)	38.7	11	21	27
02118000	South Yadkin River near Mocksville, NC	306	48	106 (1956)	59.0 (1956)	75	26	44	30
02131000	Pee Dee River at Peedee, SC	8,830	48	3,390 (1956)	1,290 (1940)	2,220	29
02132000	Lynches River at Effingham, SC	1,030	57	221 (1951)	122 (1935)	184	30	145	15
02226000	Altamaha River at Doctortown, GA	13,600	55	2,980 (1985)	2,530 (1941)	2,546	33	2,020	30
02392000	Etowah River at Canton, G	613	59	405 (1941)	215 (1904)	291	28	150	29

GROUND-WATER CONDITIONS DURING JUNE 1986

Ground-water levels continued to decline seasonally in most of the Northeast. Levels rose, however, in response to recharge from above-normal rainfall in some areas including parts of east-central Pennsylvania and much of Massachusetts and adjacent southern New Hampshire. Near end of month, below-average water-level conditions persisted in Maryland, Delaware, southern Connecticut, and on Long Island, New York. Levels were above average in much of upstate New York and also in some southern parts of New Hampshire and Vermont, and in southwestern Massachusetts and adjacent northern Connecticut.

In the southeastern States, ground-water levels had mixed trends in Arkansas and to a limited extent in Georgia. Levels declined in all of the other southeastern States. Water levels were above average in Kentucky, and mixed with respect to average in West Virginia and Louisiana. Levels were below average in Virginia, North Carolina, and Arkansas. New low ground-water levels for June were reached in the Memphis key well in Tennessee and the Montgomery observation well in Alabama. Three new June low levels were reached also in Georgia. A new alltime low, in 30 years of record, was established in the Cockspur Island observation well in the Savannah area in the Georgia Coastal Plain.

In the central and western Great Lake States, ground-water level trends declined in Wisconsin and Michigan, and mostly declined in Minnesota and Iowa. Levels showed only limited fluctuation in Indiana. Water levels were generally above average in Iowa, near or above average in Wisconsin, and mixed with respect to average in Minnesota and Michigan.

In the Western States, ground-water levels had mixed trends in Idaho, Nebraska, southern California, Utah, Kansas, New Mexico, and Texas. Water levels declined in Washington, North Dakota, Nevada, and Arizona. Levels were above average in Nebraska, below average in Washington and Arizona, and mixed with respect to average in other Western States. New high water levels for June occurred in Nevada and New Mexico, and new June low levels were reached in Kansas and New Mexico. A new alltime high ground-water level was established in the key well in the Blanding area in Utah, in 26 years of record.

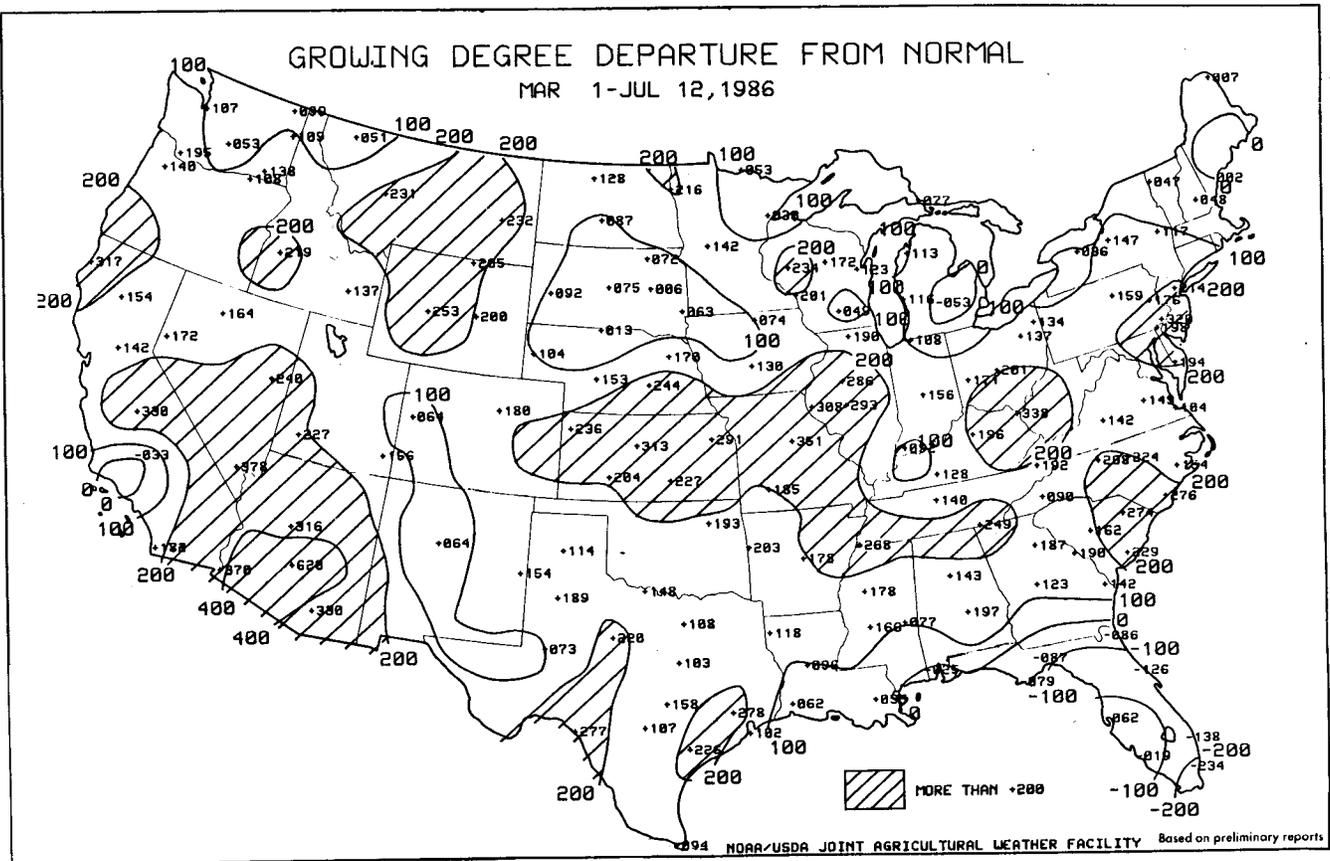
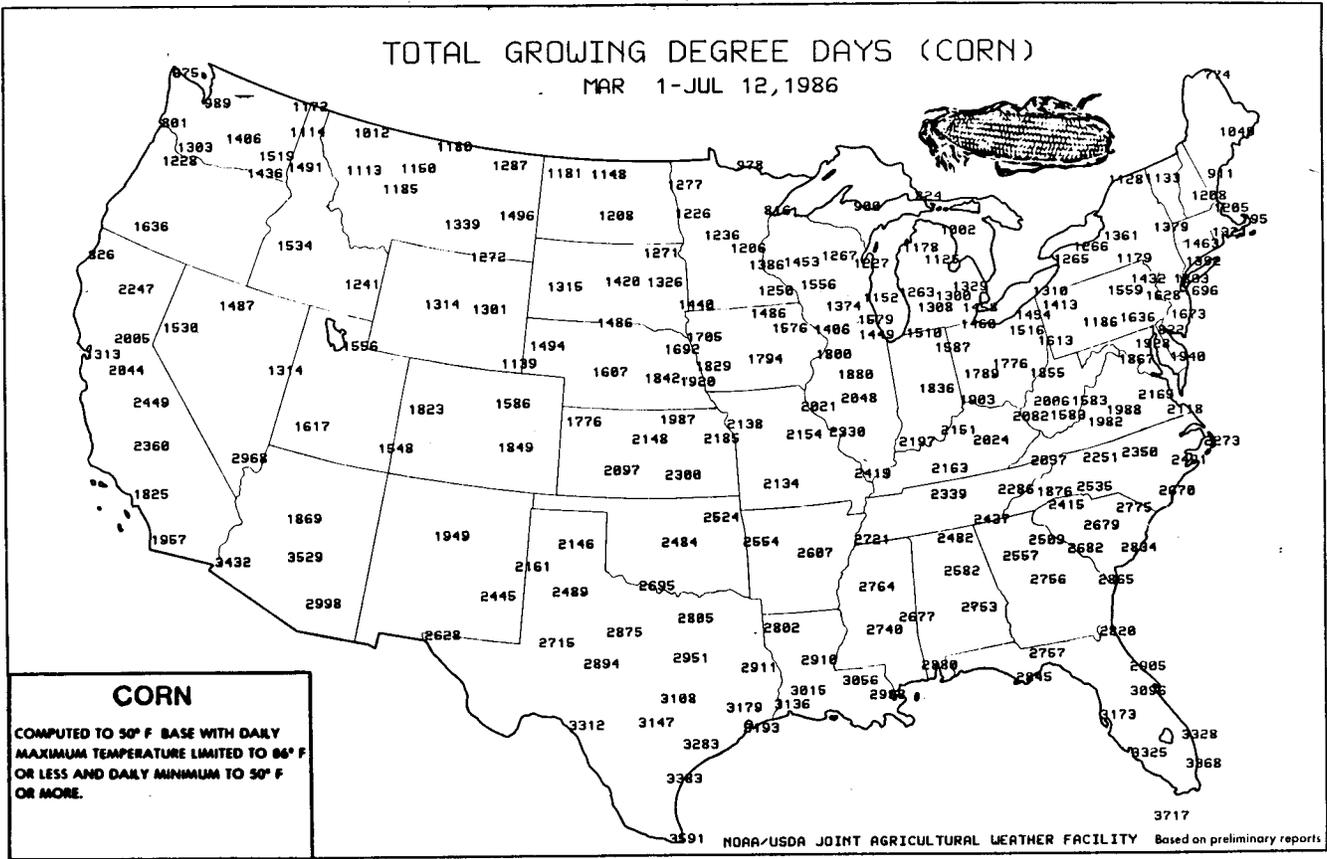
WATER LEVELS IN KEY OBSERVATION WELLS IN SOME REPRESENTATIVE AQUIFERS IN EASTERN UNITED STATES, JUNE 1986

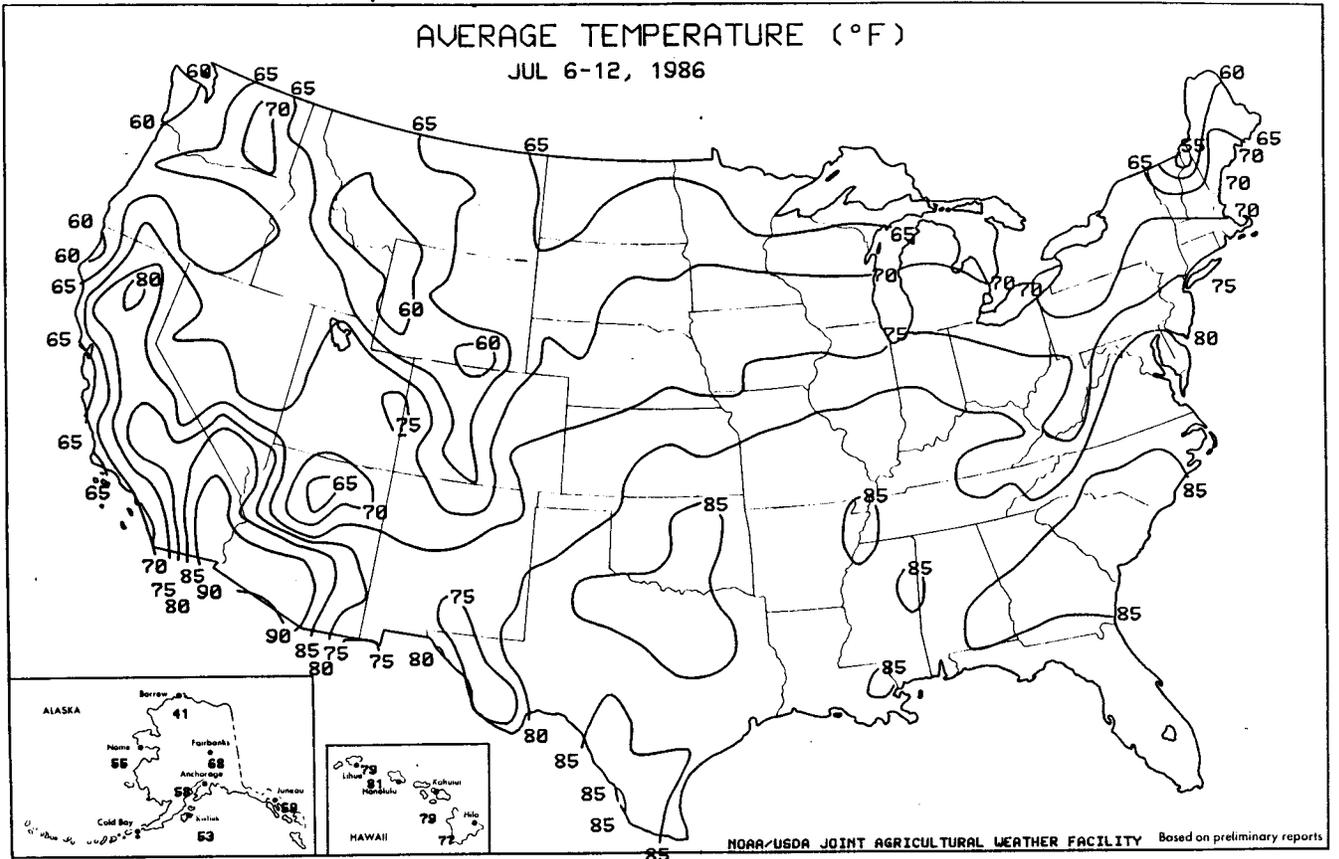
Aquifer and Location	Water level in feet with reference to land-surface datum	Departure from average in feet	Net change in water level in feet since:		Year records began	Remarks
			Last month	Last year		
Petersburg Granite; Colonial Heights, Virginia	-15.84	-0.42	-0.75	+0.79	1939	
Glacial outwash sand and gravel, Louisville, Kentucky	-17.68	+7.18	-0.18	-1.48	1946	
500-foot sand aquifer, Memphis Tennessee	-104.80	-15.62	-0.07	-0.80	1941	June low
Granite in eastern Piedmont Province; Chapel Hill, North Carolina	-42.77	-1.49	-0.48	-1.74	1931	
Sparta Sand, Pine Bluff, Arkansas	-213.60	-6.88	+5.55	+6.70	1958	
Eutaw Formation: Montgomery, Alabama	-28.1	-6.1	-3.1	-5.5	1952	
Limestone aquifer on Cockspur Island, Savannah, Georgia	-35.80	-8.76	-0.62	-0.95	1956	Alltime low

USEABLE CONTENTS OF SELECTED RESERVOIRS NEAR END OF JUNE 1986

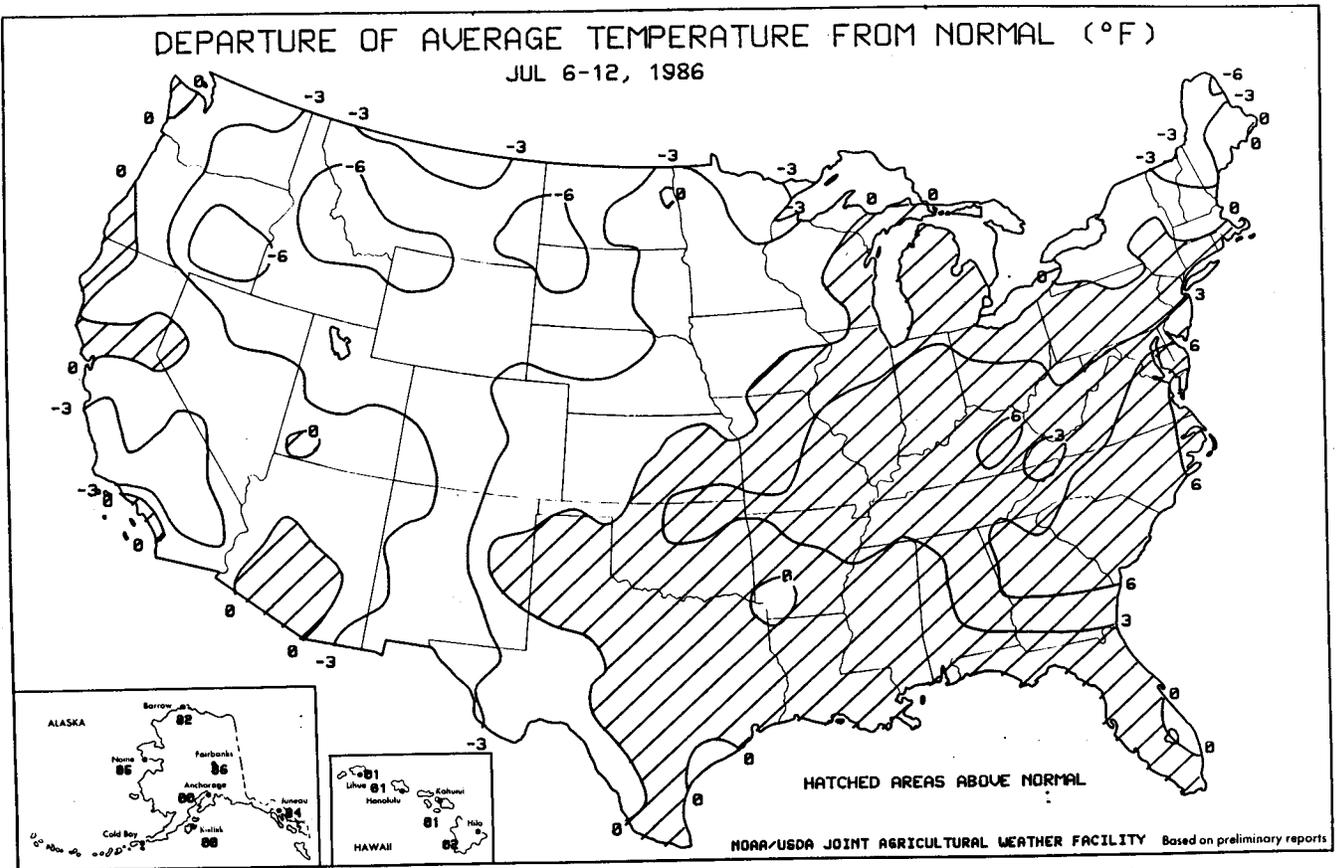
Reservoir	Percent of normal				Normal maximum (acre-feet)
	End of June 1986	End of June 1985	Average for end of June	End of May 1986	
MAINE					
Seven reservoir systems	81	74	87	89	4,107,000
NEW HAMPSHIRE					
First Connecticut Lake	92	112	91	90	76,450
Lake Francis Lake	76	93	87	72	99,310
Winnepesaukee Lake	92	76	96	102	165,700
VERMONT					
Harriman	91	91	83	91	116,200
Somerset	94	78	86	86	57,390
MASSACHUSETTS					
Cobble Mountain and Borden Brook	87	62	87	82	77,920
NEW YORK					
Great Sacandaga Lake	100	88	92	100	786,700
Indian Lake	96	94	101	103	103,300
New York City reservoir system	98	58	96	100	1,680,000
NEW JERSEY					
Wanaque	90	76	89	97	85,100
PENNSYLVANIA					
Allegheny	50	49	49	51	1,180,000
Pymatuning	103	97	98	101	188,000
Raystown Lake	68	68	63	68	761,900
Lake Wallenpaupack	79	85	85	80	157,800
MARYLAND					
Baltimore municipal system	77	91	93	84	261,900
NORTH CAROLINA					
Bridewater (Lake James)	88	93	91	92	288,800
Narrows (Badin Lake)	87	96	97	89	128,900
High Rock Lake	63	78	79	73	234,800
SOUTH CAROLINA					
Lake Murray	88	88	81	89	1,614,000
Lakes Marion and Moultrie	78	82	76	80	1,862,000
SOUTH CAROLINA- GEORGIA					
Clark Hill	54	65	73	56	1,730,000
GEORGIA					
Burton	96	98	94	100	104,000
Sinclair	85	88	90	87	214,000
Lake Sidney Lanier	46	62	65	49	1,686,000
ALABAMA					
Lake Martin	88	99	92	91	1,375,000
TENNESSEE VALLEY					
Clinch Projects:	50	54	61	52	2,293,000
Douglas Lake	39	41	68	41	1,394,000
Hiwassee Projects:	61	67	81	62	1,012,000
Holston Projects:	64	58	68	64	2,880,000
Little Tennessee Projects:	56	58	83	55	1,478,000

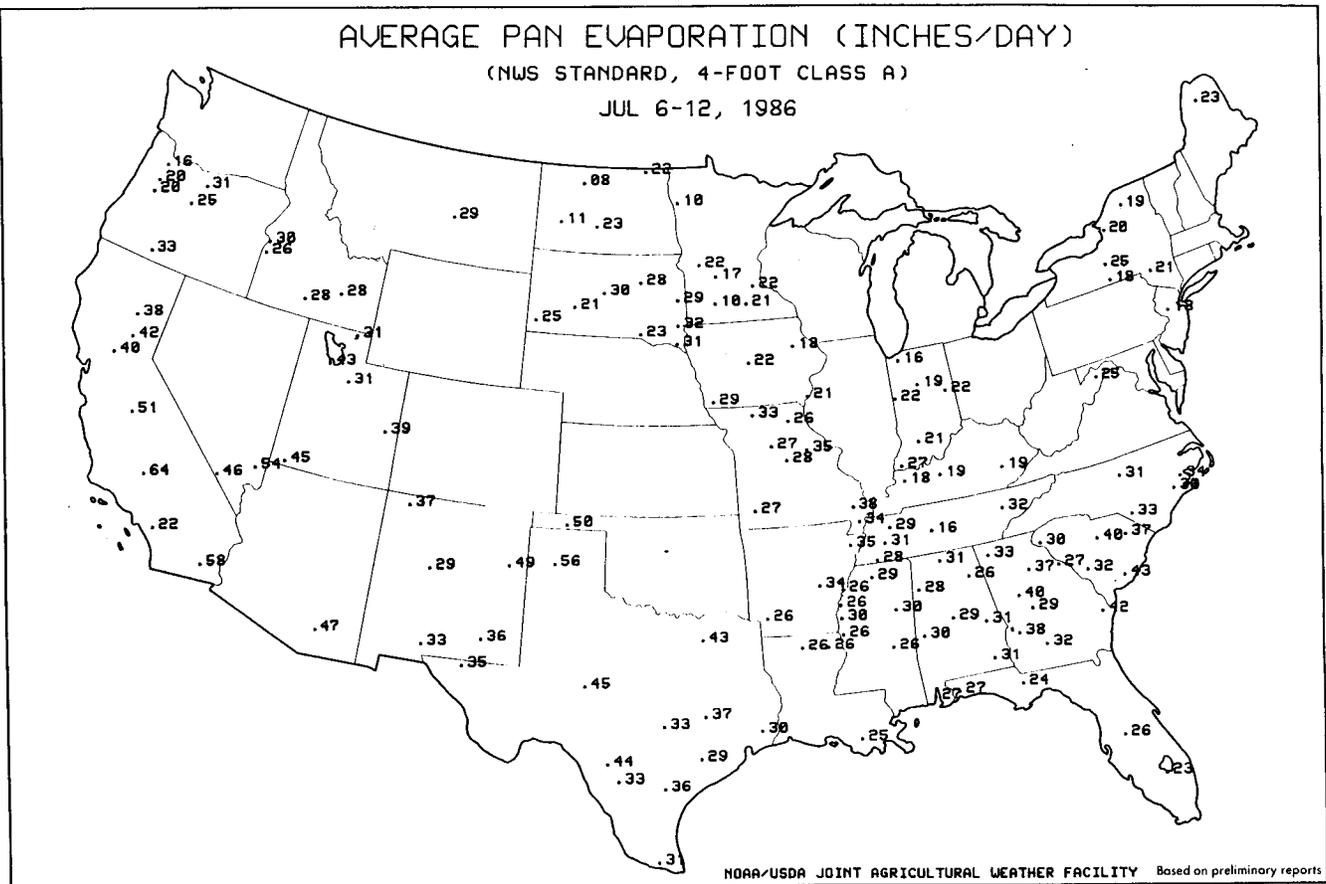
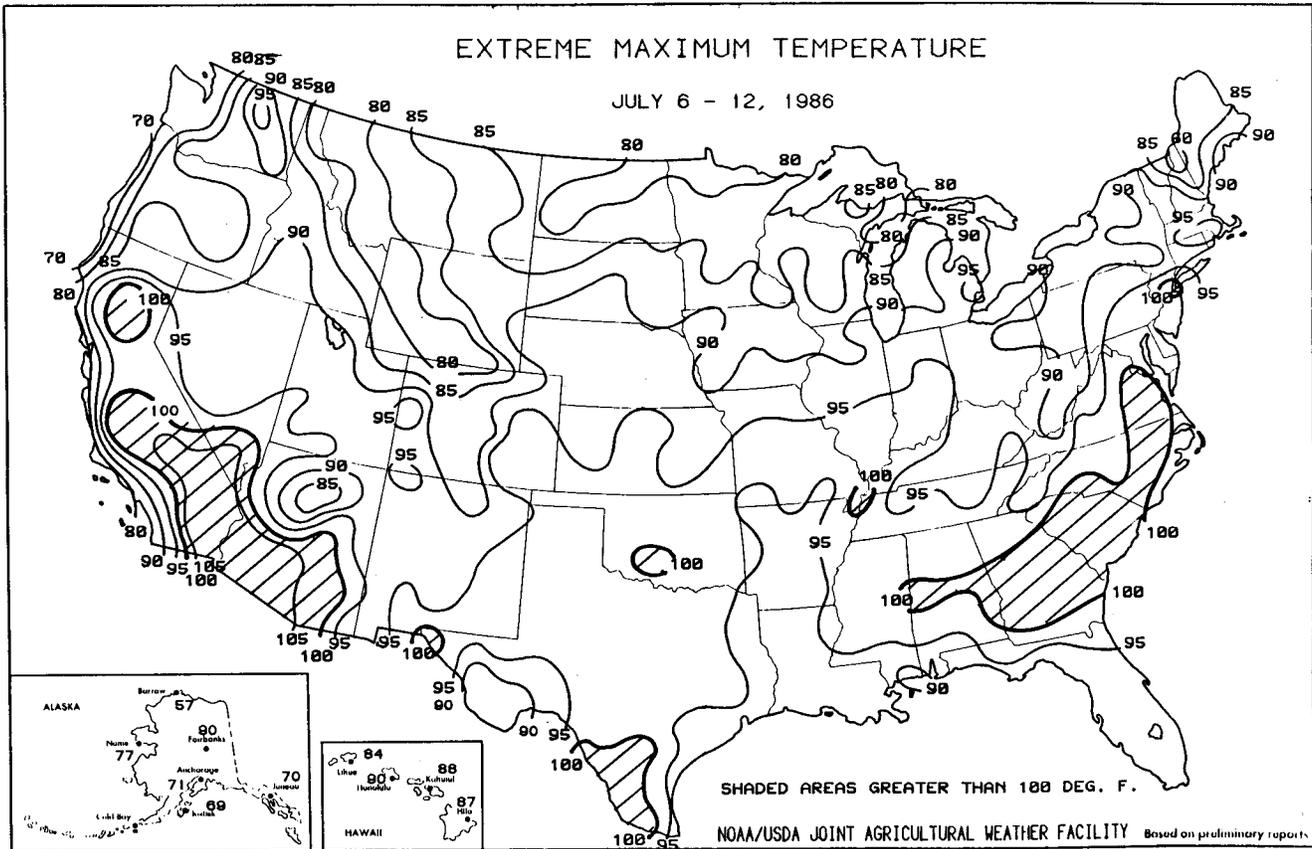
1 acre-foot=0.04356 million cubic feet=0.326 million
gallons=0.504 cubic feet per second day.





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 July 12, 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 °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	94	71	96	68	83	3	.1	-1.2	.5	1.7	30	11.1	35	89	42	7	0	1	0
MOBILE	91	73	93	72	82	0	.6	-1.1	.5	8.4	106	26.1	75	96	53	6	0	0	0
MONTGOMERY	96	74	97	72	85	4	.8	-.4	.8	2.5	47	24.2	86	92	38	7	0	1	0
AK ANCHORAGE	65	51	71	48	58	4	.3	-1.1	.1	.6	36	4.0	74	87	52	0	0	3	0
BARROW	48	35	57	29	41	3	T	-.2	T	.1	15	.6	38	93	69	0	2	0	0
FAIRBANKS	79	57	90	53	68	6	T	-.4	T	.9	47	2.2	54	78	35	1	0	0	0
JUNEAU	66	53	70	50	59	4	.4	-.5	.3	3.1	72	25.4	119	92	60	0	0	0	0
KODIAK	59	46	69	42	53	0	.6	-.2	.5	14.2	302	40.1	112	93	66	0	0	3	0
NOME	62	47	77	42	55	2	.2	-.3	.1	.4	22	2.1	42	91	62	0	2	0	0
AZ PHOENIX	105	83	107	80	94	5	0	0	.8	.8	203	3.6	124	38	16	7	0	0	0
PRESCOTT	88	59	90	52	74	2	T	-.6	T	1.7	118	5.2	69	60	23	2	0	0	0
TUCSON	101	75	102	72	88	0	0	-.5	.2	.2	24	4.1	114	57	19	7	0	0	0
YUMA	105	80	108	78	93	-1	0	0	.1	.1	0	.6	60	56	19	7	0	0	0
AR FORT SMITH	94	73	96	71	83	2	0	-.7	3.3	67	21.1	95	94	48	7	0	0	0	0
LITTLE ROCK	93	76	94	73	84	3	1.1	.3	6.1	140	23.2	87	85	58	6	0	0	1	0
CA BAKERSFIELD	96	66	102	62	81	-4	0	0	0	0	4.3	110	58	24	7	0	0	0	0
EUREKA	65	53	69	50	59	2	0	0	.2	37	27.4	122	95	72	0	0	0	1	0
FRESNO	98	67	103	64	83	2	0	0	0	0	9.7	137	59	22	7	0	0	0	0
LOS ANGELES	74	62	75	60	68	0	0	0	0	0	12.9	154	90	62	0	0	0	0	0
RED BLUFF	94	66	105	62	80	-2	0	0	0	0	21.9	168	58	20	4	0	0	0	0
SACRAMENTO	93	59	99	55	76	0	0	0	0	0	16.3	151	80	26	6	0	0	0	0
SAN DIEGO	73	64	75	63	69	-1	0	0	0	0	7.6	123	84	62	0	0	0	0	0
SAN FRANCISCO	72	53	78	51	63	-1	0	0	0	0	18.6	149	93	53	0	0	0	0	0
CO DENVER	86	57	91	54	72	-1	.1	-.4	1.4	60	6.5	72	75	22	2	0	2	0	0
GRAND JUNCTION	89	63	96	58	76	-2	T	-.1	.5	84	2.9	73	56	20	5	0	1	0	0
FUELO	92	59	98	53	75	-2	.1	-.3	.1	1.6	87	3.6	65	79	21	4	0	0	0
CT BRIDGEPORT	83	67	94	61	75	-1	.8	0	.8	5.0	119	15.3	71	88	56	3	0	2	1
HARTFORD	84	63	95	52	73	0	.7	0	.7	9.4	207	24.4	107	86	44	2	0	1	0
DC WASHINGTON	93	73	98	71	83	4	.4	-.3	.3	2.7	56	12.0	60	84	40	4	0	3	0
FL APALACHICOLA	90	75	93	71	83	2	.3	-1.2	.3	3.8	51	19.9	80	91	60	5	0	1	0
DAYTONA BEACH	91	71	94	65	81	0	.1	-1.0	.1	8.3	98	20.0	88	99	58	4	0	0	0
JACKSONVILLE	94	72	97	66	83	2	T	-1.4	4.4	57	21.9	83	96	47	7	0	0	0	0
KEY WEST	88	80	89	76	84	0	2.1	1.2	1.7	9.5	144	15.7	96	86	65	0	0	0	0
MIAMI	89	74	91	73	82	0	1.7	.3	.7	12.8	109	39.1	143	95	56	3	0	4	2
ORLANDO	92	72	93	68	82	0	1.1	-.8	.6	12.1	115	25.1	102	95	50	7	0	5	1
TALLAHASSEE	92	70	95	68	81	0	2.1	.1	1.2	14.1	142	30.6	89	100	50	5	0	4	1
TAMPA	91	74	92	70	83	1	.6	-1.0	.5	6.6	83	18.0	83	93	56	7	0	3	1
WEST PALM BEACH	89	73	92	70	81	-1	1.5	0	1.0	13.5	127	28.7	103	95	60	3	0	5	1
GA ATLANTA	96	74	100	72	85	7	.1	-1.0	.1	2.4	46	13.4	46	82	36	7	0	1	0
AUGUSTA	100	75	104	71	88	8	.4	-.6	.4	2.5	45	13.5	53	84	34	7	0	1	0
MACON	100	75	103	70	87	6	0	-1.0	0	2.3	41	13.4	50	83	32	7	0	0	0
SAVANNAH	99	75	103	70	87	6	.5	-1.1	.5	3.7	43	16.3	62	86	36	7	0	2	1
HI HILO	85	69	87	67	77	2	3.7	1.9	.8	13.7	151	87.6	129	94	60	0	0	2	3
HONOLULU	89	74	90	73	81	1	T	-.1	T	.4	57	3.2	24	82	48	1	0	0	0
KAHULUI	87	71	88	67	79	1	T	-.1	T	.2	59	10.2	81	83	53	0	0	2	0
LIHUE	84	74	84	71	79	1	.4	-.1	.2	1.8	74	9.2	40	87	65	0	0	1	0
ID BOISE	83	54	90	41	68	-6	T	-.1	T	.5	47	9.9	138	70	21	1	0	1	0
LEWISTON	81	56	89	48	69	-5	T	-.1	T	.5	27	5.9	79	69	26	0	0	0	0
POCATELLO	80	51	85	35	66	-5	T	-.1	T	.4	29	9.4	142	75	27	0	2	0	0
IL CHICAGO	82	63	92	56	72	2	3.3	2.4	1.5	6.8	122	16.2	91	98	62	1	0	6	4
MOLINE	85	69	91	62	77	2	6.0	4.9	3.7	11.3	180	24.2	120	97	68	2	0	7	2
PEORIA	87	68	91	62	77	2	4.8	3.9	2.4	11.5	211	18.7	98	99	68	2	0	3	1
QUINCY	87	70	91	66	79	2	3.7	2.7	3.4	9.6	168	19.7	99	95	60	0	0	3	2
ROCKFORD	81	66	91	59	73	1	1.6	.5	.7	5.3	83	16.2	83	98	66	1	0	4	1
SPRINGFIELD	89	70	92	68	80	3	2.5	1.7	1.8	9.4	183	16.8	89	96	63	4	0	4	1
IN EVANSVILLE	92	71	97	69	82	4	3.0	2.1	1.1	8.4	166	23.2	96	96	50	4	0	4	3
FORT WAYNE	85	68	91	64	77	4	4.1	3.3	2.6	10.1	205	22.8	121	98	62	2	0	6	1
INDIANAPOLIS	88	71	93	68	80	5	2.4	1.4	1.6	7.0	124	26.2	120	94	59	3	0	4	1
SOUTH BEND	84	67	91	63	75	3	2.6	1.8	1.8	8.2	152	19.4	98	96	62	1	0	5	3
IA DES MOINES	83	68	91	66	75	-1	2.3	1.6	.7	10.0	183	24.8	146	92	63	1	0	6	3
SIOUX CITY	83	64	90	58	74	0	.9	.1	.5	6.3	118	19.2	133	96	56	1	0	0	0
WATERLOO	78	66	86	64	72	0	2.5	1.3	.9	9.6	156	23.1	128	98	67	2	0	3	2
KS CONCORDIA	87	68	95	62	77	-1	2.3	1.5	.9	10.3	182	20.5	135	95	56	0	0	5	2
DODGE CITY	88	66	95	63	77	-2	.3	-.4	.1	6.4	151	40.5	89	90	44	3	0	3	0
GOODLAND	89	61	93	56	75	-1	.2	-.4	.2	4.1	110	9.9	103	92	34	3	0	1	0
TOPEKA	88	70	92	68	79	1	2.7	1.8	1.2	6.3	92	19.9	111	97	61	2	0	6	2
WICHITA	92	72	95	69	82	1	1.5	.6	.6	8.4	151	15.7	103	89	47	6	0	5	1
KY BOWLING GREEN	91	71	94	67	81	3	T	-1.0	T	2.7	43	17.0	59	92	49	5	0	0	0
LEXINGTON	90	70	93	68	80	4	2.0	.9	1.5	5.4	88	15.7	60	92	54	4	0	4	2
LOUISVILLE	91	72	95	70	81	4	2.8	1.8	1.4	6.6	127	19.4	78	96	52	4	0	4	0
LA ALEXANDRIA	91	74	93	72	83	0	.3	-.8	.2	8.3	144	19.7	60	85	54	6	0	2	0
BATON ROUGE	92	74	93	72	83	1	.6	-1.0	.4	6.7	119	25.7	85	93	53	0	0	2	0
LAKE CHARLES	90	75	93	73	83	1	.2	-1.0	.2	7.0	112	21.3	80	97	61	6	0	2	0
NEW ORLEANS	91	74	92	70	82	0	1.4	-.1	1.4	10.6	148	21.9	69	96	57	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending July 12, 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 °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	93	73	93	71	83	0	0	-1.8	0	14.9	299	29.6	116	97	52	7	0	0	0
ME CARIBOU	69	50	82	45	60	-5	2	-1.8	-1	2.9	62	15.5	91	90	51	0	0	2	1
ME PORTLAND	76	55	88	47	66	-2	5	-1.1	-5	6.1	145	25.5	112	89	45	0	0	0	0
MD BALTIMORE	92	71	99	66	81	5	2	-1.7	-1	2.2	41	12.0	55	90	38	4	0	2	0
MA SALISBURY	93	72	97	65	83	2	2	-1.8	-1	1.9	38	13.0	58	93	39	6	0	2	0
MA BOSTON	81	63	95	57	72	-1	7	-2.2	-4	9.9	253	22.4	97	80	47	2	0	0	1
MA CHATHAM	75	61	89	54	68	-9	1	-2.2	-9	5.3	141	17.6	74	80	47	0	0	0	0
MI ALPENA	77	57	88	46	67	-4	1	-3.3	-4	6.2	141	14.8	101	94	52	0	0	1	1
MI DETROIT	83	64	94	57	74	2	2	-1.8	1.0	7.3	156	18.4	110	96	54	1	0	4	1
MI FLINT	80	62	92	53	71	1	1	-1.0	1.0	4	155	15.3	99	98	55	1	0	3	1
MI GRAND RAPIDS	79	63	89	56	71	0	0	2.9	2.2	1.5	10.1	198	132	97	62	0	0	2	1
MI HOUGHTON LAKE	78	60	84	49	69	2	2	-1.5	-2	4.6	108	14.6	104	89	52	0	0	4	1
MI LANSING	80	63	91	55	71	0	0	-0.7	0	10.3	222	19.3	124	97	58	1	0	4	0
MI MARQUETTE	74	53	87	46	63	-1	1	-2.6	-2	3.2	62	14.5	74	92	45	0	0	3	3
MI MUSKEGON	80	62	89	55	71	2	2	-1.4	-9	3.4	98	12.7	81	92	56	0	0	3	1
MI SAULT STE. MARIE	74	51	81	43	63	0	0	1.9	1.2	1.9	173	17.5	111	96	50	0	0	2	1
MN ALEXANDRIA	78	60	85	56	69	-1	1	1.3	1.0	5.2	100	17.8	137	93	51	0	0	3	1
MN DULUTH	70	51	81	47	60	-4	4	2.6	1.7	2.1	11.0	20.1	137	98	63	0	0	2	1
MN INT'L FALLS	71	54	77	52	62	-4	4	-1.5	-4	3	5.9	11.5	96	96	57	0	0	4	0
MN MINNEAPOLIS	79	63	85	59	71	1	1	-1.4	-6	8	7.2	131	20.4	145	92	52	0	3	2
MN ROCHESTER	77	60	81	57	69	-2	2	-1.4	-2	6.5	115	17.1	116	98	64	0	0	5	0
MS GREENWOOD	93	74	95	72	83	1	1	1.2	1.2	4.0	79	18.1	58	95	51	7	0	2	1
MS JACKSON	94	71	96	69	82	0	0	2.1	1.2	1.9	6.1	134	23.4	76	97	49	7	4	2
MS MERIDIAN	96	70	98	70	83	2	2	-1.4	-9	2.6	47	20.6	66	99	45	7	0	1	0
MO CAPE GIRARDEAU	96	74	98	69	85	5	5	1.1	3	9	4.1	84	25.3	100	87	46	7	0	1
MO COLUMBIA	92	71	97	68	81	4	4	-0.9	1	4	3.3	64	16.6	83	96	53	4	0	2
MO KANSAS CITY	87	69	90	66	78	7	7	7.0	6.0	5.1	10.2	157	19.4	103	97	65	6	6	0
MO SAINT LOUIS	93	74	96	70	84	5	5	-1.4	-5	2	6.3	121	16.0	82	84	46	0	3	2
MO SPRINGFIELD	92	70	97	66	81	3	3	1.1	2	9	4.4	70	15.4	71	94	41	6	0	1
MT BILLINGS	79	55	85	49	67	-5	5	-2	-1	2	2.8	110	10.5	109	77	24	0	3	0
MT GLASGOW	80	55	86	51	68	-2	2	-1.4	-4	2	2.6	81	6.6	93	84	32	0	1	0
MT GREAT FALLS	77	51	84	45	64	-4	4	-2	-1	1	2.4	74	8.5	85	79	26	0	3	0
MT HAVRE	81	54	85	51	68	-1	1	-3	-3	4	13	6.5	94	72	23	0	0	1	0
MT HELENA	76	49	80	39	63	-5	5	-1	-2	0	2.3	94	6.2	89	81	29	0	2	0
MT KALISPELL	71	48	78	43	60	-5	5	-1.5	-3	2	2.9	107	10.6	118	95	49	0	4	0
MT MILES CITY	81	55	86	49	68	-6	6	-1	-1	1	2.7	79	8.5	96	83	28	0	4	0
MT MISSOULA	73	47	82	40	60	-7	7	2	0	1	3.5	153	9.3	116	99	43	0	3	0
NE GRAND ISLAND	85	63	94	57	74	-2	2	3.0	2.3	1.8	6.6	135	14.6	104	97	50	1	0	2
NE LINCOLN	85	66	92	63	76	-2	2	2.6	1.9	1.0	8.6	168	20.3	132	96	58	1	0	6
NE NORFOLK	84	63	93	55	73	-2	2	1.8	0	3	6.1	106	17.7	122	96	48	1	0	4
NE NORTH PLATTE	86	56	91	52	71	-3	3	1.9	1.2	1.0	3.7	73	12.1	98	96	38	2	0	3
NE OMAHA	83	65	90	62	74	-1	1	1.3	1.5	7	5.6	100	20.4	126	95	64	1	1	1
NE SCOTTSBLUFF	85	55	95	51	70	-4	4	1.6	1.1	1.4	7.2	187	14.0	144	92	33	1	0	5
NE VALENTINE	85	56	91	52	70	-4	4	2	-4	1	2.3	59	10.4	101	87	33	1	0	3
NV ELY	87	45	92	42	66	-1	1	-1	-1	1	8	4.4	81	52	16	2	7	1	0
NV LAS VEGAS	102	75	107	71	89	-1	0	0	-1	0	0	1.1	55	24	12	7	0	0	0
NV RENO	88	51	96	47	70	0	0	-1	-1	1	3	69	7.5	163	72	19	2	0	0
NH WINNEMUCCA	88	50	92	45	69	-3	3	-1	-1	1	1	3.5	71	47	15	2	0	0	0
NH CONCORD	77	56	94	46	67	-2	2	1.8	2	8	7.3	183	21.4	118	94	52	1	0	2
NJ ATLANTIC CITY	90	68	98	59	79	5	5	-1.8	-8	1	3.2	76	17.4	82	89	41	4	0	1
NM ALBUQUERQUE	87	61	94	58	74	-5	5	1.7	4	5	3.7	401	6.5	210	80	29	2	0	3
NM CLOVIS	94	66	99	64	80	3	3	-1	-6	1	3.5	95	7.7	93	68	24	7	0	1
NM ROSWELL	92	67	98	66	79	-2	2	-3	-3	1	6.0	442	8.8	267	83	30	5	0	1
NY ALBANY	82	61	94	48	72	1	1	1.6	-2	6	7.1	158	21.6	117	94	49	2	0	1
NY BINGHAMTON	79	60	87	52	70	1	1	1.8	1.0	1.7	7.4	148	22.7	119	92	53	0	4	1
NY BUFFALO	78	62	87	55	70	-1	1	1.5	-9	8	5.7	149	20.3	112	91	52	0	3	2
NY NEW YORK	86	69	98	63	77	1	1	1.4	-4	4	2.9	64	17.1	78	79	39	3	0	0
NY ROCHESTER	80	60	89	53	70	-1	1	1.4	-1	4	5.4	144	16.8	104	93	49	0	2	0
NY SYRACUSE	80	61	90	49	70	0	0	1.9	-1	7	6.6	129	20.1	101	95	56	1	0	2
NC ASHEVILLE	90	62	93	56	76	3	3	1.1	-4	1	1.7	29	11.5	44	98	40	5	0	2
NC CHARLOTTE	99	74	101	69	86	8	8	1	-8	1	7	13	8.5	35	82	33	7	0	2
NC GREENSBORO	95	70	99	65	83	6	6	1.5	-5	5	2.6	46	8.6	38	90	39	7	0	1
NC HATTERAS	89	76	92	71	82	5	5	1.7	-5	6	4.2	68	17.7	67	97	65	2	0	2
NC NEW BERN	95	74	99	72	85	6	6	1.3	-1.2	3	6.0	79	19.5	74	96	50	7	1	0
NC RALEIGH	96	72	99	66	84	7	7	1.2	-2	1.0	3.4	65	14.1	63	92	39	7	0	3
NC WILMINGTON	96	76	99	72	86	6	6	1.2	-1.5	2	6.9	82	23.2	87	91	48	7	0	1
ND BISMARCK	78	55	82	47	67	-3	3	1.1	-6	1.0	5.2	133	12.7	137	96	44	0	2	1
ND FARGO	78	60	83	56	69	-1	1	1.2	-4	9	6.3	144	13.8	134	97	56	0	4	0
ND GRAND FORKS	78	59	84	54	69	0	0	1.7	-1	3	2.4	58	7.5	80	91	49	0	4	1
ND WILLISTON	76	53	82	48	64	-5	5	1.6	-2	4	3.6	102	11.3	136	95	47	0	3	0
OH AKRON-CANTON	84	63	90	54	74	3	3	2.1	1.2	7	6.2	129	16.7	85	97	57	1	0	4
OH CINCINNATI	89	69	93	68	79	4	4	1.4	-4	7	4.1	71	16.2	70	95	53	3	0	4
OH CLEVELAND	83	64	91	53	74	3	3	2.0	1.2	6	5.3	111	21.3	112	94	53	2	0	4
OH COLUMBUS	87	67	92	64	77	3	3	2.4	1.5	1.3	8.8	159	19.8	95	95	54	3	0	3

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending July 12, 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 °F				
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	86	68	93	66	77	3	1.8	1.0	1.4	9.6	185	23.9	119	91	59	3	0	6	1	
TOLEDO	84	64	92	56	74	2	1.5	.8	.7	7.3	151	18.3	106	97	62	3	0	5	1	
YOUNGSTOWN	81	61	90	50	71	1	3.4	2.5	2.5	16.8	330	26.9	134	98	61	1	0	4	2	
OK OKLAHOMA CITY	95	74	98	71	85	3	T	T	T	3.2	63	18.3	102	78	37	7	0	1	0	
TULSA	94	77	98	75	86	3	T	T	T	4.5	73	20.1	93	80	44	5	0	1	0	
OR ASTORIA	66	52	71	44	59	-1	1.0	.8	.9	2.6	87	35.5	97	96	65	0	0	3	1	
BURNS	78	45	82	30	60	-9	.4	.3	.4	.7	69	7.5	214	—	—	0	1	2	0	
MEDFORD	86	57	88	47	72	0	T	T	T	.5	57	10.2	98	76	24	0	0	0	0	
PENDLETON	79	57	87	48	68	-5	.1	0	.1	.5	63	7.5	110	70	29	0	0	1	0	
PORTLAND	76	57	86	53	66	-1	.7	.5	.6	1.3	78	18.0	91	90	48	0	0	2	1	
SALEM	76	55	83	45	65	-1	.2	.1	.2	1.7	120	22.5	104	91	47	0	0	1	0	
PA ALLENTOWN	78	65	96	59	75	1	.8	-.2	.6	4.4	89	21.2	93	87	47	3	0	2	1	
ERIE	78	65	91	61	72	3	1.4	-.6	.9	9.5	188	24.6	127	92	61	1	0	4	1	
HARRISBURG	86	68	97	62	77	1	.2	-.6	.1	2.4	48	18.7	89	93	49	3	0	2	0	
PHILADELPHIA	90	70	98	64	80	4	.1	-.7	.1	3.4	63	17.4	79	87	43	0	0	2	0	
PITTSBURGH	83	64	89	56	74	2	3.1	2.2	1.6	9.0	189	19.9	98	85	51	0	0	5	2	
SCRANTON	80	63	91	54	72	0	1.3	.5	.8	8.9	188	23.5	131	88	55	2	0	3	1	
RI PROVIDENCE	82	64	96	55	73	1	.9	.3	.9	6.0	156	22.3	95	87	49	1	0	1	0	
SC CHARLESTON	99	77	103	73	88	8	.1	-1.6	0	3.3	35	13.9	51	88	38	7	0	2	0	
COLUMBIA	101	75	104	69	88	7	T	T	T	1.2	18	8.4	31	84	30	7	0	1	0	
FLORENCE	100	74	103	71	87	7	T	T	T	4.6	67	12.5	52	88	34	7	0	0	0	
GREENVILLE	98	70	101	65	84	6	.1	-.9	.1	1.2	19	13.8	47	91	34	7	0	2	0	
SD ABERDEEN	83	56	87	48	69	-2	.8	.2	.3	3.2	75	15.5	142	98	42	0	0	6	0	
HURON	84	57	87	50	71	-3	.1	-.4	.1	2.6	60	13.3	117	97	43	0	0	3	0	
RAPID CITY	79	53	85	48	66	-5	.8	.2	.3	5.3	125	13.8	127	91	46	0	0	4	0	
STOIX FALLS	84	60	89	53	72	-2	.8	.2	.6	4.9	102	14.7	110	95	44	0	0	4	1	
TN CHATTANOOGA	95	72	97	69	84	5	0	-1.1	0	2.1	42	12.6	42	93	39	7	0	0	0	
KNOXVILLE	94	70	96	66	82	5	.1	-1.0	.1	1.8	31	13.0	47	93	43	7	0	2	0	
MEMPHIS	94	77	95	75	86	4	.1	-.8	.1	4.5	88	17.9	59	89	51	7	0	1	0	
NASHVILLE	94	71	95	69	83	4	T	-.9	T	2.6	50	12.6	45	88	42	7	0	3	0	
TX ABILENE	94	74	96	71	84	0	.1	-.4	.1	7.8	231	14.8	123	77	32	7	0	1	0	
AMARILLO	94	66	99	64	80	1	.2	-.5	.2	3.9	84	9.0	87	78	28	6	0	1	0	
AUSTIN	95	74	96	72	84	0	.5	0	.5	2.7	68	13.5	80	90	40	7	0	1	0	
BEAUMONT	91	76	92	73	84	1	1.5	.3	1.3	13.2	223	30.7	121	91	55	6	0	3	1	
BROWNSVILLE	93	75	94	71	84	0	.4	0	.4	4.1	122	9.2	88	95	50	7	0	0	0	
CORPUS CHRISTI	93	74	93	70	83	-2	0	-.5	0	3.1	74	11.8	89	96	51	7	0	0	0	
DEL RIO	94	74	98	70	84	-2	0	-.4	0	3.6	147	11.2	135	72	33	6	0	0	0	
EL PASO	93	68	100	65	80	-3	.4	0	.3	3.5	308	5.1	189	80	31	5	0	3	0	
FORT WORTH	95	76	97	73	85	-1	0	-.5	0	3.9	114	18.3	106	82	39	7	0	0	0	
GALVESTON	89	78	90	73	83	0	.6	-.2	.6	4.9	99	12.8	70	84	59	2	0	2	0	
HOUSTON	94	75	96	72	84	1	.5	-.2	.5	6.9	127	18.7	80	90	50	7	0	2	0	
LUBBOCK	93	70	99	66	82	2	.3	-.3	.3	6.3	166	10.1	109	78	34	7	0	1	0	
MIDLAND	92	68	96	63	80	-1	T	-.4	T	4.4	214	8.6	132	86	37	6	0	0	0	
SAN ANGELO	95	71	99	66	83	-1	T	-.3	T	3.3	137	12.0	135	77	31	7	0	0	0	
SAN ANTONIO	95	74	96	68	84	0	T	-.4	T	12.0	314	22.5	150	91	39	7	0	0	0	
VICTORIA	92	75	93	72	84	0	.7	.1	-.4	8.2	143	18.1	99	93	49	7	0	3	0	
WACO	96	75	98	71	86	0	0	-.4	0	4.3	131	19.0	109	88	41	7	0	0	0	
WICHITA FALLS	96	75	99	73	85	0	.1	-.4	.1	8.1	220	17.1	116	81	38	7	0	0	0	
UT BLANDING	87	56	93	52	72	-2	T	-.2	T	1.4	200	5.8	116	61	25	2	0	1	0	
CEDAR CITY	88	58	93	54	73	0	T	-.2	T	.3	42	4.4	86	50	22	3	0	0	0	
SALT LAKE CITY	85	62	92	58	74	-3	T	-.1	T	.5	36	12.9	139	57	23	1	0	1	0	
VT BURLINGTON	77	59	91	49	68	-1	.6	-.2	.4	6.7	135	20.3	123	84	48	1	0	3	0	
VA NORFOLK	96	75	100	72	85	7	T	-1.1	T	1.6	31	12.2	54	88	42	7	0	0	0	
RICHMOND	96	71	100	66	84	6	.7	-.5	.5	2.3	42	13.0	60	89	38	7	0	2	1	
ROANOKE	93	67	97	64	80	5	.9	.1	.7	2.1	45	13.1	62	91	43	6	0	3	0	
WA COLVILLE	77	51	85	47	64	-3	.1	0	.1	2.1	117	14.1	150	87	52	0	0	4	0	
QUILLAYUTE	66	52	71	43	59	1	1.3	.8	.9	4.5	111	63.8	117	97	64	0	0	3	1	
SEATTLE-TACOMA	72	54	76	51	63	-2	.3	.1	.3	1.4	81	20.1	103	86	52	0	0	0	0	
SPOKANE	76	52	84	48	64	-5	T	-.1	T	.7	50	9.8	104	81	30	0	0	1	0	
YAKIMA	82	50	87	42	66	-4	.1	0	.1	.3	35	5.2	116	83	28	0	0	1	0	
WV BECKLEY	82	64	86	62	73	4	1.5	.5	.6	6.1	109	19.1	80	100	60	0	0	4	1	
CHARLESTON	88	68	91	65	78	4	2.2	1.0	1.6	8.4	159	22.9	99	100	56	3	0	4	1	
HUNTINGTON	88	70	92	68	79	4	1.2	.2	.5	8.2	156	19.2	84	97	58	4	0	4	1	
PARKERSBURG	87	67	92	63	77	3	1.0	-.1	.8	7.9	126	18.6	75	99	60	3	0	3	0	
WI GREEN BAY	78	61	86	55	70	1	.5	-.3	.5	4.6	102	11.9	82	94	53	0	0	2	0	
LA CROSSE	80	64	85	62	72	-1	.5	-.4	.3	5.9	104	14.0	86	97	57	0	0	3	0	
MADISON	79	62	84	54	70	0	2.6	1.7	1.0	5.8	108	15.3	95	99	67	0	0	5	2	
MILWAUKEE	77	63	90	57	70	0	3.1	2.3	1.7	7.6	152	18.7	113	99	68	1	0	6	2	
WAUSAU	76	61	84	57	69	-1	.5	-.4	.3	4.1	74	11.1	70	93	56	0	0	2	0	
WY CASPER	82	50	85	47	66	-4	.3	-.2	.2	4.2	24	9.1	123	76	22	0	0	2	0	
CHEYENNE	81	51	84	45	66	-3	.3	-.1	0	2.8	102	7.2	89	82	25	0	0	3	0	
LANDER	80	52	83	46	66	-4	.1	-.1	.1	.4	21	6.1	69	83	29	0	0	3	0	
SHERIDAN	78	51	85	42	64	-5	.4	.1	.2	3.8	142	9.3	97	83	29	0	0	3	0	
PR SAN JUAN	88	75	90	74	82	0	.6	-.4	.3	2.4	37	29.1	127	93	64	1	0	3	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

National Agricultural Summary

July 7 to 13, 1986

HIGHLIGHTS: Excessive heat intensified the dryness throughout the Southeast. Crops continued declining in most areas from the lack of moisture. Rain boosted crop development through the Corn Belt and the central and northern Great Plains. However, some corn producers were concerned about the effect of high temperatures on pollination. Crops were mostly good in the Corn Belt and central and northern Plains, and in some States crops were good to excellent. Rain slowed fieldwork to 5 days or less in the Corn Belt and in central and northern Plains. Farmers were able to work 6 days or more in most other areas. The lack of moisture increased the drought conditions in Southeast. Soil moisture was becoming short across the Delta and in some Rocky Mountain States. Soil moisture was generally adequate elsewhere.

Rain slowed wheat harvest in most Corn Belt States, but harvest increased 8 percentage points from the previous week. Harvest was 76 percent (%) finished compared with the 66% 5-year average. Spring wheat was 87% headed, 3 points ahead of normal but 4 points below last year. Corn was mostly good to excellent in the northern half of the Nation. Silking was present on 30% of the acreage, compared with 26% last year and 14% normally. Soybeans were mostly good except in the Delta and in the Southeast. In the Delta soybeans were mostly fair and in the Southeast fair to poor. Thirty percent of the acreage was blooming, 10 points above the average. Sorghum was 27% headed, 4 points ahead of schedule. Cotton was squaring on 67% of the acreage, just slightly below normal. Cotton was good to fair in the Delta and fair to poor in the Southeast, but condition declined in both areas from the previous week. Rice harvest was underway in Texas. Heading was 22% finished, up 2 points from normal. Livestock was mostly good, but excessive heat stressed livestock in the Southeast. Pastures continued declining in areas with low moisture.

SMALL GRAINS: Winter wheat was 76% harvested, compared with 78% in 1985 and the 66% average. Harvest increased 8 points from the previous week despite rain in some central and northern Plains States and across much of the Corn Belt. Producers in Nebraska and Ohio harvested more than half their acreage during the week. In Indiana, harvest was 80% finished, 15 points ahead of normal and up 35 points from the previous week. Harvest was finished in the Southeast, in Oklahoma, and in Kansas.

Spring wheat was 87% headed, 4 points behind last year, but 3 points above the average. Heading surpassed or equaled the average in all States except Minnesota and South Dakota. Spring wheat was mostly good to fair. In Minnesota, spring wheat was turning color.

CORN: Excessive heat limited growth but continued forcing early maturity in the Southeast. Corn remained fair to poor in this area. Ample moisture and ideal growing conditions pushed corn development ahead of normal in the Corn Belt and central and northern Plains. In Illinois, corn had reached the soft-dough stage. Crop conditions were mostly good to excellent in the Corn Belt and central and northern Plains. In the 17 major producing States, 30% of the corn acreage was silking, more than doubling the average and the previous week.

SOYBEANS: Soybeans were mostly good in the northern half of the Nation. Condition was mostly fair in the Delta and fair to poor in the Southeast. Soybeans continued deteriorating because of excessive heat and insufficient moisture in the Southeast. Thirty percent of the soybean acreage was blooming in the 19 major producing States. This compares with 29% blooming last year and 20% normally. Pod set was 10% finished in Illinois and 12% finished in Missouri.

SORGHUM: Sorghum was 27% headed, 4 points above normal. Condition was mostly good to fair in the major producing States. In Kansas, sorghum growth was excellent with adequate moisture ensuring proper development. Twenty-one percent of the sorghum was turning color in Louisiana. More than half of Texas' sorghum turned color, and 21% was harvested.

COTTON: Cotton squaring was 1 point ahead of last year, but 2 points behind normal. Bolls were present on 27% of the acreage, 3 points ahead of normal. Cotton was mostly good to fair except in the Southeast where the crop was mostly fair. Cotton planting ended in Texas. Bolls were open on 30% of the acreage. Warm weather matured cotton in California.

OTHER CROPS: Rice was 22% headed, just slightly above normal. Heading was 6 points ahead of 1985. In Texas, harvest was underway along the Upper Coast. Two percent of Louisiana rice was mature. Farmers reported some problems with sheath blight and stem rot. Rice grew well in California.

Tobacco was 18% harvested in Georgia. Harvest was underway in North Carolina with 5% of the crop harvested. Maryland tobacco was under stress from excessive heat and insufficient moisture.

Peanut planting progressed well in Texas. Early planted fields were up to stand and grew well. Fields emerged slowly because of dryness in south-central Texas. Georgia peanuts were 86% bloomed and 59% pegged. The crop was mostly fair. Peanuts were poor to fair in South Carolina and good to fair in North Carolina.

FRUIT AND NUTS: Peach harvest continued in full swing. Early peach varieties were harvested in New York. Sweet cherry harvest was active in Michigan and in New York. Florida's new crop fruit progressed well with optimum growing conditions. Valencia harvest was ending. Grapes, peaches, and figs were picked in Arizona. Lemon harvest is expected to start August 1. California's stonefruit table grapes and fig harvests continued. Valencia orange harvest slowed.

VEGETABLES: Vegetable harvest continued its seasonal decline in Florida. In Texas, fall vegetable land preparation was active until rain stalled operations. Artichoke, broccoli, carrots, celery, lettuce, cantaloups, and watermelons were harvested in California.

PASTURES AND LIVESTOCK: Pastures were mostly good in the northern half of the Nation. In the Southeast and areas where moisture is virtually nonexistent, pastures continued declining. Livestock was mostly good. However, high temperatures stressed livestock and poultry in the Southeast.

CROP PROGRESS

FOR WEEK ENDING JULY 13, 1986

**COTTON
% SQUARING**

	1986	1985	AVG.
ALA	96	98	85
ARIZ	98	100	98
ARK	98	98	94
CALIF	95	95	75
GA	82	96	91
LA	94	90	83
MISS	93	92	94
MO	100	97	82
N MEX	60	80	79
N C	89	88	74
OKLA	25	30	15
S C	86	100	100
TENN	90	85	85
TEX	42	39	53
14 STATES	67	66	68

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

**COTTON
% SETTING BOLLS**

	1986	1985	AVG.
ALA	35	49	29
ARIZ	90	69	71
ARK	61	51	32
CALIF	30	35	25
GA	38	72	52
LA	48	54	34
MISS	46	37	28
MO	32	17	20
N MEX	30	50	43
N C	35	53	31
OKLA	3	5	0
S C	57	80	71
TENN	20	14	10
TEX	11	14	16
14 STATES	27	29	24

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

**SOYBEANS
% BLOOM**

	1986	1985	AVG.
ALA	20	21	17
ARK	9	14	5
GA	14	29	14
ILL	62	49	37
IND	25	35	25
IOWA	30	42	25
KANS	30	15	10
KY	26	16	10
LA	31	19	19
MICH	10	5	10
MINN	22	23	15
MISS	19	19	15
MO	34	29	14
NEBR	45	40	28
N C	5	5	7
OHIO	30	24	14
S C	5	11	5
S DAK	18	21	26
TENN	17	14	11

19 STATES 30 29 20

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

**GRAIN SORGHUM
% HEADED**

	1986	1985	AVG.
ARK	58	NA	NA
ILL	15	0	0
KANS	5	1	1
LA	87	74	62
MISS	39	54	29
MO	26	6	8
NEBR	6	1	1
OKLA	10	10	10
S DAK	2	1	1
TENN	25	20	NA
TEX	62	64	66

11 STATES 29 NA NA

EXCL. STATES WITH NA 27 24 23

THESE 11 STATES PRODUCED 94% OF THE 1985 GRAIN SORGHUM CROP.

**RICE
% HEADED**

	1986	1985	AVG.
ARK	4	2	3
CALIF	0	0	0
LA	52	47	44
MISS	18	19	12
TEX	65	32	72

5 STATES 22 16 20

THESE 5 STATES PRODUCED 97% OF THE 1985 RICE CROP.

**WINTER WHEAT
% HARVESTED**

	1986	1985	AVG.
ARK	98	99	99
CALIF	90	85	87
COLO	63	68	30
GA	100	100	98
IDAHO	2	1	1
ILL	94	95	87
IND	85	100	70
KANS	100	99	85
MICH	2	10	5
MO	98	97	75
MONT	0	0	0
NEBR	60	80	45
N MEX	97	NA	NA
N C	100	100	97
OHIO	64	64	42
OKLA	100	100	95
OREG	3	2	1
S DAK	10	26	17
TEX	99	99	96
WASH	3	1	1
20 STATES	76	NA	NA

EXCL. STATES WITH NA 76 78 66

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

**SPRING WHEAT
% HEADED**

	1986	1985	AVG.
IDAHO	90	95	89
MINN	85	92	90
MONT	85	90	85
N DAK	84	88	75
S DAK	96	100	97

5 STATES 87 91 84

THESE 5 STATES PRODUCED 95% OF THE 1985 SPRING WHEAT CROP.

**CORN
% SILKING**

	1986	1985	AVG.
COLO	5	10	3
GA	98	99	93
ILL	66	55	29
IND	35	35	12
IOWA	15	15	6
KANS	45	30	15
KY	70	51	35
MICH	2	5	3
MINN	1	2	1
MO	71	54	24
NEBR	25	15	6
N C	86	92	79
OHIO	30	26	13
PA	4	2	0
S DAK	1	2	3
TEX	83	78	NA
WIS	3	5	3

17 STATES 31 27 NA

EXCL. STATES WITH NA 30 26 14

THESE 17 STATES PRODUCED 93% OF THE 1985 CORN CROP.

WEEKLY CROP WEATHER CONDITION PERCENT REPORT
FOR WEEK ENDING JULY 13, 1986

WINTER WHEAT

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	0	100	0	0
COLO	4	10	32	46	8
GA	7	37	40	16	0
IDAHO	0	0	10	84	6
MICH	3	12	30	45	10
MONT	0	0	11	67	22
NEBR	0	0	31	47	22
N MEX	0	19	51	30	0
OHIO	1	9	44	44	2
OREG	0	0	47	53	0
S DAK	0	0	7	63	30
TEX	4	14	55	23	4
WASH	NA	5	45	50	0

GRAIN SORGHUM

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	5	30	59	6
ILL	0	0	24	58	18
KANS	0	0	13	28	59
LA	0	0	24	74	2
MISS	9	7	32	52	0
MO	6	10	37	43	4
NEBR	0	0	8	70	22
OKLA	0	0	10	87	3
S DAK	3	3	7	75	12
TENN	2	10	58	30	0
TEX	0	0	25	62	13

SPRING WHEAT

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
IDAHO	0	3	30	64	3
MINN	0	0	34	58	8
MONT	0	1	24	71	4
N DAK	0	0	19	77	4
S DAK	0	2	9	73	16

COTTON

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ALA	2	5	60	33	0
ARIZ	0	0	0	74	26
ARK	0	4	4	84	8
CALIF	NA	0	0	80	20
GA	3	15	64	18	0
LA	0	0	22	76	2
MISS	0	0	26	74	0
MO	7	14	65	14	0
N MEX	0	0	38	62	0
N C	NA	9	61	26	4
OKLA	0	0	45	55	0
S C	34	22	44	0	0
TENN	0	6	26	62	6
TEX	0	8	40	46	6

RICE

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	0	9	82	9
CALIF	NA	0	0	80	20
LA	0	0	20	75	5
MISS	0	0	39	41	20
TEX	0	0	30	48	22

SOYBEANS

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ALA	4	27	44	25	0
ARK	0	4	61	35	0
GA	11	35	46	8	0
ILL	0	0	11	51	38
IND	NA	1	30	60	9
IOWA	0	1	18	66	15
KANS	0	0	5	17	78
KY	1	6	42	50	1
LA	0	1	64	35	0
MICH	3	7	30	45	15
MINN	0	5	37	53	5
MISS	4	15	63	18	0
MO	3	4	37	51	5
NEBR	0	0	10	68	22
N C	NA	31	51	18	0
OHIO	0	8	11	67	14
S C	16	26	49	9	0
S DAK	0	0	18	69	13
TENN	6	21	54	19	0

CORN

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
COLO	0	0	10	67	23
GA	15	39	41	4	1
ILL	0	0	3	29	68
IND	NA	0	16	59	25
IOWA	0	0	5	57	38
KANS	0	0	7	10	83
KY	1	6	34	57	2
MICH	3	12	20	45	20
MINN	0	1	24	55	20
MO	1	4	19	48	28
NEBR	0	0	8	45	47
N C	NA	57	28	12	3
OHIO	1	2	7	56	34
PA	2	7	30	45	16
S DAK	0	3	7	75	15
TEX	0	5	14	57	24
WISC	0	0	8	50	42

NA - NOT ASKED

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 3 to 6° above normal. Rainfall totals mostly under 0.30 in. Local amounts between 1.00 to 1.50 in.

Days suitable for fieldwork 6.6. Soil moisture 98% short, 2% adequate. Farm activities limited due to continued dry conditions. Primary activities: Harvesting hay, potatoes, fruits, vegetables; cultivating row crops; applying fungicides to peanuts; controlling insects on cotton, fruits, vegetables; general care of livestock, poultry.

ALASKA: Rainfall in most areas, lessened abnormally dry conditions. Temperatures ranged 4° below normal to 7° above normal. Seasonal precipitation ranged 1.96 in. wetter than normal to 2.63 in. drier than normal.

Days suitable for fieldwork 4.0. Topsoil moisture 35% short, 65% adequate. Subsoil moisture 23% short, 76% adequate. Crop growth generally moderate. Oats, barley grain heights averaged 25 in. Barley for grain 37% poor, 28% fair, 24% good, 11% excellent. First cutting of hay 80% complete. Pasture, hayfields fair to good. Commercial vegetables, potatoes showed excellent growth. Potato plant heights averaged 16 in. Radish, leaf lettuce, Romaine and other greens harvest underway.

ARIZONA: Monsoon activity minimal due to showers, thunderstorms previous week. Drier air predominant, precipitation limited to White Mountains, southeast. Amounts between 0.10 and 0.75 in. except locally 1.00 in. Elsewhere skies sunny, some clouds. Temperatures 80s high country, 90s 5,000 ft., 100 to 112° deserts. Weekly averages 4° below to 2° above.

Cotton good progress. Preventative spraying for rust. Growers report Texas root rot. Potential boll weevil problems watched. Wheat, barley harvests completed. Alfalfa harvest moderate to active, quality good to excellent. Weeds light to moderate, insects light. Corn planting completed Mohave, dent stage west, tasseling southeast. Crop good to excellent. Sorghum good. Safflower harvested, sesame planted. Honeydew, cantaloupe, crenshaw, watermelon harvests finished west side. Persian, sharlyn, exotic packed. Watermelons, honeydews continued central. Potatoes dug. Mixed vegetables packed. Grapes, peaches, figs harvested. Citrus groves good. Yuma lemon harvest about August 1st.

ARKANSAS: Hot, dry week with isolated showers. Temperature extremes 61°; 102°. Rainfall none to 1.10 in.

Days suitable for fieldwork 7.0. Soil moisture 69% short, 31% adequate. Crop growth moderate. Major activities: Baling hay; harvesting fescue seed; midseason nitrogen application; irrigation, cultivation, controlling weeds. Squash, pea, watermelon, tomato, peach harvest active. Table grape harvest underway. Scouting continued for rice diseases, European corn borer, sorghum midge. Fungicide, insecticide application to watermelon crop. Spraying grapes, pastures. Animal health practices.

CALIFORNIA: Cool temperatures no rain. Sacramento Valley 4° below normal, San Joaquin Valley 2° below normal. Southeast deserts 3° below normal. Few areas along coast above normal temperatures.

Hot, dry weather ideal for fieldwork, maturing crops. Small grain harvest continued. Harvested fields burned, for new plantings. Rice fields continued good growth. Warm weather matured cotton crop. Safflower fields nearing harvest. Thinning, cultivating sugarbeets continued. Alfalfa hay continued baled. Avocado, fig, table grapes, stonefruit harvests continued. Gravenstein apples close to maturity. Valencia orange harvest slowed. Almond growers prepared for harvest. Walnut irrigation active. Artichoke harvest light. Supplies, variable quality. Broccoli supplies light Salinas, fairly heavy Santa Maria. Carrot digging active Salinas, fairly heavy supplies, good quality. Celery fairly heavy supply, quality good. Fresno area preparing fall lettuce. Salinas supplies heavy, good quality, variable weight. Cantaloupe harvest Westside continued. Few areas hoppers, mites, aphids, problem watermelons. Summer vegetables harvested major areas. Peppers, fresh market tomatoes, squash, eggplant, cucumbers, sweet corn, Oriental vegetables harvested. Potatoes look good Tulelake-Butte Valley. Harvest processing tomatoes increased Sacramento Valley. Summer grazing areas need rain continued good growth. Fire danger continued lower elevations. Livestock good. Stockwater supplies declining but adequate.

COLORADO: Temperatures averaged 2 to 5° below normal. Precipitation totals averaged none to 3.06 in.

Days suitable for fieldwork 5.5. Soil moisture 13% very short, 40% short, 35% adequate, 11% surplus. Winter wheat fair to mostly good. Corn starting to silk. Barley ripe 37%, 36% 1985, 14% avg. Dry Beans flowering 14%, 15% 1985, 11% avg. Livestock good; range, pasture fair to mostly good.

FLORIDA: Normal summertime weather, warm temperatures, scattered afternoon thunderstorms; rainfall varied widely but averaged 1.00 to 3.00 in.

Soil moisture became short most western, upper northern counties; remained adequate elsewhere. Haymaking active all production areas. Corn harvest for silage continued. Tobacco harvest continued active. Soybeans, peanuts, cotton good progress areas with adequate rainfall. Sugarcane progressed well with near ideal conditions. Panhandle, upper northern pastures fair to poor; good to excellent elsewhere. Cattle mostly good to excellent; fair to poor some Panhandle, northern areas where grazing poorest because of low soil moisture. Normal summer weather citrus areas; scattered rains, some heavy thunderstorms, very little irrigation. Abundant new foliage growth, optimum growing conditions, new crop fruit good progress. Valencia harvest winding down, most juice plants closed. Caretakers busy planting young trees. Typically warm temperatures, scattered afternoon thunderstorms vegetable growing areas. Temperatures ranged lows 70s to highs 80s to 90s. Rainfall varied widely, averaged mostly 1.00 to 3.00 in. Harvest most vegetables virtually completed. Light supplies few crops available primarily from northern area. Watermelon harvest declined seasonally.

GEORGIA: Very warm over entire State. Temperatures 5 to 9° above normal almost all stations. Almost all stations central, south recorded 100° or higher. Rainfall widely scattered, heavier amounts local areas, about half of reporting stations no rain.

Days suitable for fieldwork 6.1. Soil moisture 74% very short, 24% short, 2% adequate. Corn 82% dough, 90% 1985, 73% avg.; 57% dent, 66% 1985, 43% avg.; 19% mature, 20% 1985, 13% avg. Sorghum grain 10% very poor, 26% poor, 53% fair, 11% good; 97% planted, 98% 1985, 92% avg. Peanuts 2% very poor, 14% poor, 61% fair, 23% good; 86% blooming, 97% 1985, 93% avg.; 59% pegging, 84% 1985, 73% avg. Soybeans 96% planted, 99% 1985, 96% avg. Tobacco 17% poor, 50% fair, 33% good; 18% harvested, 28% 1985, 23% avg. Watermelons 9% very poor, 36% poor, 44% fair, 11% good; 79% harvested, 82% 1985, 52% avg. Apples 7% very poor, 17% poor, 55% fair, 21% good; 11% harvested, 7% 1985, 2% avg. Peaches 5% very poor, 20% poor, 46% fair, 29% good; 85% harvested, 85% 1985, 73% avg. Pasture 30% very poor, 46% poor, 19% fair, 5% good. Hay 30% very poor, 41% poor, 24% fair, 5% good. Cattle 5% very poor, 24% poor, 59% fair, 12% good. Hogs 1% very poor, 15% poor, 47% fair, 36% good, 1% excellent. Main activities: Limited due to very dry soils; planting, harvesting, insect, weed control. Care and feeding of livestock, poultry required extra efforts. Some poultry losses due to heat.

HAWAII: Conditions mostly favorable. Scattered showers windward, higher elevations. Northeasterly winds 15 to 25 mph. Temperatures ranged upper 60s to low 90s. Rainfall ranged none to 3.10 in.

Days suitable for fieldwork 7.0. Weather mostly favorable for crop development. Soil moisture adequate. Pineapple, sugarcane harvesting active. Bananas fair. Papayas fair to good; output low. Some leafy crops affected tipburn.

IDAHO: Cold front brought rain, cooler temperatures early week continued throughout remainder of week.

Days suitable for fieldwork 6.0. Major activity cutting of alfalfa hay. Small grains developing well. Winter wheat good, harvest getting started. Spring wheat good. Range, pastures improving with rains, providing adequate grazing. Potatoes progressing well, may be slowed by frost 4th. Livestock good.

ILLINOIS: Temperatures averaged 3° below normal to 4° above normal, warmest south. Precipitation 0.83 to 5.62 in, most stations reporting over 1.50 in.

Days suitable for fieldwork 3.8. Soil moisture 15% short, 48% adequate, 37% surplus. Corn dough 9%, 7% 1985, 3% avg. Soybeans setting pods 20%, 11% 1985, 7% avg. Oats 1% poor, 17% fair, 65% good, 17% excellent; turning yellow 90%, 91% 1985, 78% avg.; ripe 55%, 55% 1985, 36% avg.; harvested 25%, 27% 1985, 16% avg. Alfalfa 1% poor, 17% fair, 65% good, 17% excellent; alfalfa 2nd crop cut 55%, 73% 1985, 60% avg. Pasture 4% poor, 18% fair, 52% good, 26% excellent. Major farm activities: Harvesting wheat and hay, cultivating and spraying beans, mowing roadsides, repairing farm machinery.

INDIANA: Temperatures averaged 1 to 3° warmer than usual. Temperature extremes ranged from middle 90s mid afternoon to lower 60s overnight. Precipitation widespread, heavy. Most sections received 1.50 to 2.50 in.

Fieldwork averaged 4.7 days. Topsoil moisture 9% short, 64% adequate, 27% surplus. Subsoil moisture 10% short, 73% adequate, 17% surplus. Dry soils first half of period allowed fieldwork progress. Weather excellent for row crop development. Corn 65 in. high, 60 in. 1985, 50 in. avg. Corn mostly good to excellent. Soybeans 15 in. high, 15 in. 1985, 12 in. avg. Soybeans fair to mostly good. Oats 15% combined, 25% 1985, 5% avg. Rye 40% combined, 65% 1985, 40% avg. Alfalfa 35% cut twice, 65% 1985, 40% avg.

IOWA: Wet week; near seasonal temperatures.

Days suitable for fieldwork 1.5. Topsoil moisture 24% adequate, 76% surplus; subsoil moisture 44% adequate, 56% surplus; 3% poor, 24% fair, 63% good, 10% excellent; turning color 90%, 96% 1985, 42% avg.; harvested 5%, 28% 1985, 14% avg. Winter wheat good to fair; harvested 15%, 67% 1985, 39% avg. Hay 2% poor, 15% fair, 60% good, 23% excellent. Second crop alfalfa harvested 28%, 63% 1985, 37% avg.; 1st crop clover harvested 91%, 100% 1985, 94% avg.; 2nd crop clover harvested 8%, 27% 1985, 11% avg. Corn good to excellent; corn tasseled 25%, 36% 1985, 16% avg. Some weedy soybean fields; soybeans cultivated 1st time 87%, 99% 1985, 95% avg. Livestock mostly good, flies causing some stress. Pastures good to excellent.

KANSAS: Precipitation averaged 0.70 to 1.20 in. west, 3.00 to over 4.00 in. northeast, east central and central areas, 1.30 to 2.40 in. elsewhere. Temperatures averaged 83° southeast, 78 to 81° elsewhere; 1° below normal north central, 4° above normal southeast, normal to 2° above normal elsewhere.

Days suitable for fieldwork 4.0. Topsoil moisture 12% short, 60% adequate, 28% surplus. Wheat harvest complete; earliest since 1974. Corn excellent growth, development ahead of schedule. Rains beneficial to dryland stands. Corn borer infestations light to moderate. Spraying where necessary. Sorghum excellent growth, adequate moisture insuring development. Beneficial insects at work controlling greenbugs. Soybean growth, development ahead of schedule, planting complete. Range, pasture excellent, except west fair. Second cutting alfalfa 90%, 3rd cutting 10%. Blister beetles problem isolated areas.

KENTUCKY: Hot, humid conditions prevailed. High temperatures upper 80s to lower 90s, lows upper 60s to lower 70s. Soil temperatures averaged around 80°. Most areas received rainfall due to scattered thundershowers. Amounts ranged from less than 0.25 in. to over 3.50 in.

Days suitable for fieldwork 5.1. Soil moisture 14% very short, 63% short, 23% adequate. Most areas need cooler temperatures, more rain. Corn developing rapidly, heat at pollination a concern. Tobacco uneven 45% under 2 ft. tall, only 15% over 3 ft. Tobacco 1% very poor, 13% poor, 63% fair, 23% good. Soybean planting virtually complete. Wheat harvest almost complete. Hay short, pastures dry. Pasture 15% very poor, 30% poor, 45% fair, 10% good.

LOUISIANA: Temperature normal to 1° above. Temperature extremes 68°, 98°. Rainfall averaged none to 0.80 in.

Days suitable for fieldwork 4.9. Soil moisture 24% short, 57% adequate, 19% surplus. Corn good; 93% dough stage, 88% 1985, 78% avg. Corn 22% mature, 19% 1985, 26% avg.; 1% harvested, none 1985, 3% avg. Rice 2% ripe, 4% 1985, 3% avg. Sheath blight, stem rot reported. Sorghum 21% turning color, 19% 1985, 14% avg. Sorghum midge numbers increasing dramatically; control measures being taken. Soybeans 100% planted, 100% 1985, 99% avg.; 98% emerged, 99% 1985, 97% avg.; 5% setting pods, 4% 1985, 5% avg. Sweetpotatoes fair to good; 100% planted, 100% 1985, 99% avg. Hay 1st cutting 97% complete, 100% 1985, 97% avg. Sugarcane, pastures, livestock good; vegetables fair. Main activities: Harvesting hay, vegetables; fertilizing pastures; applying pesticides, herbicides.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 5° above normal over State; lowest temperature 54° Hancock, Upper Marlboro; highest temperature 100° Bel Air. Precipitation averaged 0.36 in., ranging from a trace to 1.93 in.

Days suitable for fieldwork 6.4. Topsoil, subsoil moisture very short to short. Small grains fair to good. Wheat 93% harvested, 95% 1985. Rye 70% harvested, 99% 1985, 83% avg. Field corn 36% silked, 35% 1985, 28% avg.; 16% dough, 2% 1985; 4% dent; poor to fair. Soybeans 89% planted, 100% 1985, 100% avg.; 13% blooming, 5% 1985; poor to fair. Tobacco 6% blooming; poor to fair. Harvest progress: Sweet corn 18% harvested, 20% 1985, 14% avg.; potatoes 5% harvested, 5% 1985; watermelons 7% harvested, 10% 1985; cantaloupes 21% harvested, 15% 1985, 8% avg.; cucumbers 63% harvested, 35% 1985, 31% avg.; snap beans 37% harvested, 55% 1985, 55% avg.; green peas 100% harvested, 100% 1985, 99% avg.; tomatoes 9% harvested, 5% 1985.

Delaware: Temperatures averaged 4° above normal over State; lowest temperature 63° Middletown; highest temperature 98° Milford. Precipitation averaged trace, ranging from none to trace.

Days suitable for fieldwork 7.0. Topsoil, subsoil moisture very short. Small grains fair. Field corn 56% silked; fair to good. Soybeans 99% planted; fair to good. Pasture very short. Harvest progress: Cucumbers 20% harvested, 20% 1985, 35% avg.; snap beans 30% harvested, 22% 1985, 42% avg.; green peas 100% harvested, 100% 1985, 94% avg.; tomatoes 5% harvested, 4% 1985, 3% avg.

MICHIGAN: Temperatures ranged 3° below to 2° above normal. Temperature extremes 43°; 94°. Precipitation ranged from 0.20 to 4.80 in.

Days suitable for fieldwork 4.7. Soil moisture 10% short, 60% adequate, 30% surplus. Corn 2% silked, 5% 1985, 3% avg.; 3% very poor, 12% poor, 20% fair, 45% good, 20% excellent. Soybeans 10% blooming, 5% 1985, 10% avg.; 3% very poor, 7% poor, 30% fair, 45% good, 15% excellent. Wheat 2% harvested, 10% 1985, 5% avg.; 3% very poor, 12% poor, 30% fair, 45% good, 10% excellent. Major farm activities: Haying, cultivating, sidedressing fertilizer. Tart cherry harvest underway statewide. Wheat harvest underway south.

MINNESOTA: Temperatures averaged normal to 3° below normal. Temperature extremes 47°; 88°. Precipitation averaged 0.13 to 1.72 in. above normal. Greatest weekly total 3.84 in.

Days suitable for fieldwork 4.2. Topsoil moisture 6% short, 68% adequate, 26% surplus. Small grains mature, southern portion; rust in oats, winter wheat, northern portion. Spring wheat 6% turning ripe, 13% 1985, 15% avg. Oats 89% heading, 94% 1985, 94% avg.; 24% turning ripe, 39% 1985, 26% avg. Barley 86% heading, 94% 1985, 92% avg.; 12% turning ripe, 25% 1985, 26% avg. Corn uneven height, some drowned out, but good overall; height 48 in., 45 in. 1985, 40 in. avg. Soybeans uneven, some weed control not effective; height 14 in.; 13 in. 1985, 12 in. avg.

MISSISSIPPI: Temperatures 1° below to 6° above normal, extremes 62°; 99°. Widely scattered thundershowers throughout week. Greatest 72-hour total 1.64 in.

Days suitable for fieldwork 6.3, 6.0 1985, 5.8 avg. Soil moisture 22% very short, 56% short, 22% adequate. Corn 3% very poor, 10% poor, 29% fair, 51% good, 7% excellent; 89% silking, 83% 1985, 80% avg.; 58% dough stage, 57% 1985, 48% avg.; 25% dented; 6% mature; 1% harvested. Wheat 98% harvested, 100% 1985, 97% avg. Sweetpotatoes 98% planted, 100% 1985. Peanuts 99% planted, 100% 1985, 100% avg. Watermelons 28% harvested, 42% 1985, 40% avg. Hay 50% harvested, 56% 1985, 56% avg. Peaches 73% harvested, 65% 1985, 56% avg. Corn silage 8% harvested, 10% 1985, 7% avg. Sorghum silage 6% harvested.

MISSOURI: Temperatures averaged 2 to 4° above normal. Rainfall averaged 3.00 to 6.00 in. across

north with local flooding, 1.00 to 2.00 in. central, none to 1.00 in. south.

Days suitable for fieldwork 4.6. Soil moisture 48% short, 32% adequate, 20% surplus. Oats harvested 75%, 83% 1985, 50% avg. Alfalfa 2nd cutting 76%, 85% 1985, 64% avg. Other hay cut 83%, 85% 1985, 78% avg. Double-crop soybeans planted 98%, 94% 1985, 78% avg. Soybeans setting pods 12%, none 1985, none avg. Pasture 2% very poor, 22% poor, 48% fair, 25% good, 3% excellent.

MONTANA: Temperatures cool, ranged 2 to 7° below normal. Sub-freezing temperatures parts of west, southwest. Some heavy showers, 1.00 to 1.50 in. widely scattered areas. Rest of State mostly light amounts, less than 0.25 in.

Days suitable for fieldwork 5.5. Topsoil moisture 40% short, 56% adequate, 4% surplus. Winter wheat 70% turning color, 75% 1985, 60% avg.; harvest expected to start July 24th; spring wheat 85% headed, 90% 1985, 85% avg.; barley 85% headed, 90% 1985, 80% avg.; oats 85% headed, 95% 1985, 80% avg.; 1st cutting alfalfa 90%, 95% 1985, 80% avg.; wild hay 65% cut, 60% 1985, 45% avg. Grasshopper damage 14% light, 35% moderate, 51% heavy.

NEBRASKA Precipitation amounts averaged 3.00 to 5.00 in. Temperatures normal to 4° below normal. Temperatures extremes 48°; 95°.

Days suitable for fieldwork 4.3. Topsoil moisture 5% short, 71% adequate, 24% surplus. Subsoil moisture 5% short, 79% adequate, 16% surplus. Wheat good to fair. Virtually all turned color. Wheat ripe 90%, 97% 1985, 75% avg. Southern finishing harvest, slowed by weather. Test cutting west, full swing this week. Corn excellent to good. Developing ahead of normal. Seed corn fields detasseled. Corn silking 25%, 15% 1985, 6% avg. Soybeans mostly good to excellent. Sorghum mostly good to excellent. Some heavy chinch bug infestations east central. Second cutting alfalfa 50%, 60% 1985, 40% avg.; mostly good. Oats harvested 35%, 30% 1985, 20% avg. Pasture, range mostly adequate to surplus. Rangeland plentiful north, west some shortage southwest, south central.

NEVADA: Week started with traces precipitation from scattered thunderstorms north, below normal temperatures all areas. Warming trend midweek brought temperatures near normal, cloudy skies. Scattered thunderstorms common central, south central near end of week. Temperatures slightly above normal at close of period.

Hot, dry weather ideal small grain, hay harvests. Quality alfalfa hay excellent. Ranges, pastures beginning to show affect searing temperatures. Shortages some stocks water ponds reported.

NEW ENGLAND: Precipitation near normal, 0.50 to 1.00 in. Temperatures averaged near normal 60s north, central, low 70s south, coastal.

Days suitable for fieldwork 5.7. Soil moisture 10% short, 85% adequate, 5% surplus. Grazing availability 10% short, 90% adequate. Fieldwork on schedule. Hot, humid conditions boost crop growth. Maine potatoes good; 5 to 7 days behind in heat units. Field corn fair to good north, good to excellent south. Sweet corn good to excellent; early variety harvest under way south. First crop hay good; 80% cut, 70% 1985, 80% avg. Second crop hay good to excellent; 15% cut, 10% 1985, 15% avg. Vegetable harvest active. Heavy bloom, good set on cranberries. Early peach harvest underway. Major farm activities: Haying, cultivating, spraying, harvesting.

NEW JERSEY: Temperatures averaged near normal north, central, above normal south. Extremes 50°; 99°. Rainfall averaged 1.24 in. north, 0.82 in. central, 0.23 in. south. Heaviest 24-hour total

1.02 in. on 12th, 13th. Estimated soil moisture percent field capacity averaged 69% north, 48% central, 38% south. Four inch soil temperatures averaged 71° north, 75° central, 77° south.

Weekend showers came critical time for unirrigated crops. Summer vegetable harvest active. Peach, summer variety apple picking increased. Blueberry movement past peak. Barley harvest completed. Wheat harvest active. Early field corn in tassel, some on short stalks due to dry weather. Early soybeans fair; rain improved prospects. Second cutting of hay began; some yields light.

NEW MEXICO: Weekly average temperatures 1 to 3° above normal northeastern plains, 1 to 3° below normal elsewhere. Temperatures 44° northern mountains to 101° northwestern plateau, western mountains. Rain over most of State. Precipitation none southeastern plains, northeastern plains to 3.31 in. northwestern plateau, western mountains.

Days suitable for fieldwork 5.8. Soil moisture 9% short, 82% adequate, 9% surplus. Hail damage 89% none, 11% light. Alfalfa 10% poor, 20% fair, 60% good, 10% excellent. Corn 75% good, 25% excellent. Barley 45% fair, 44% good, 11% excellent. Irrigated grain sorghum 38% fair, 49% good, 13% excellent. Dryland grain sorghum 100% fair. Pecans 20% fair, 60% good, 20% excellent. Apples 33% fair, 67% good. Chile 20% fair, 60% good, 20% excellent. Onions 100% good. Cattle 17% fair, 83% good. Sheep 11% fair, 89% good. Range 50% fair, 42% good, 8% excellent.

NEW YORK: Temperatures average little below normal. Rainfall normal or well above normal with exceptions being around New York City, Long Island, border areas of northeast.

Days suitable for fieldwork 6.0. Soil moisture adequate. First cut alfalfa hay 82% harvested, 81% 1985, 84% avg. Some second cutting started. Clover-timothy hay 71% harvested, 71% 1985, 72% avg. Grass silage 91% harvested, 91% 1985, 88% avg. Corn showed rapid growth. Sweet cherry harvest active, good quality. Harvest of early peach varieties beginning. Summer vegetables moving to market. Pastures good.

NORTH CAROLINA: Temperatures averaged well above normal across State. Temperature extremes 56°; 103°. Precipitation ranged from none to 2.45 in. across State.

Days suitable for fieldwork 6.1. Soil moisture 57% very short, 28% short, 15% adequate. Corn mostly poor to fair; soft dough stage. Cotton mostly fair to good; setting bolls. Soybeans mostly fair to poor. Tobacco 16% poor, 58% fair, 25% good, 1% excellent. Flue-cured tobacco harvested 5%, 4% 1985, 7% avg. Peanuts 35% fair, 61% good, 4% excellent. Sweetpotatoes 4% poor, 44% fair, 48% good, 4% excellent. Irish potatoes harvested 88%, 73% 1985, 75% avg.; 25% poor, 63% fair, 12% good. Apples 22% poor, 71% fair, 7% good. Peaches harvested 65%, 52% 1984, 59% avg.; 17% poor, 39% fair, 44% good. Hay 66% poor, 24% fair, 9% good, 1% excellent. Truck crops 27% poor, 57% fair, 16% good. Pasture 67% poor, 18% fair, 12% good, 3% excellent. Major farm activities: Irrigating crops; topping, suckering tobacco; cutting hay; cultivating soybeans, tobacco, cotton, peanuts; harvesting vegetables, fruits, flue-cured tobacco; shearing Christmas trees; tending livestock; spraying soybeans, peanuts; mowing; general farm maintenance.

NORTH DAKOTA: Cloudy and cool. Unofficial reports over 5.00 in. rain central, southern Red River Valley 10th, 2.50 in. south central 11th. Heavier thunderstorms produced hail, gusty winds. Temperatures averaged 6° below normal west central

to 1° below normal northeast. Low 41° west central, 7th. High 89° north central 8th.

Days suitable for fieldwork 4.1. Rain improved moisture conditions statewide except for southwest corner. Topsoil moisture supplies well above average; 2% very short, 2% short, 92% adequate, 4% surplus. Moisture welcomed, but warm humid weather is promoting foliar diseases. Small grains continued mostly good condition with development well ahead of normal. Hard red spring wheat milk to dough and beyond 41%, 55% 1985, 36% average; durum milk to dough and beyond 24%, 38% 1985, 22% average; barley milk to dough and beyond 54%, 72% 1985, 52% average. Row crop development better than normal pace; mostly good. Potatoes 58% bloom or beyond, 36% 1985, 32% average; flax bloom or beyond 38%, 45% 1985, 29% avg.; dry beans bloom or beyond 36%, 15% 1985, 16% avg.; soybean bloom or beyond 34%, 15% 1985, 12% average.

OHIO: Temperatures averaged 1 to 4° above normal. Extremes low 40s to mid 90s. Precipitation widespread, heavy, averaging 1.50 to 2.50 in. Locally heavier amounts common.

Days suitable for fieldwork 4.5. Soil moisture 6% short, 61% adequate, 33% surplus. Activities included planting soybeans; harvesting wheat, hay, fruit, vegetables; cultivating; spraying. Corn good; growing fast in hot, humid weather. Working in seed corn fields. Soybeans good; late plantings emerging, drown-outs frequent north. Wheat fair to good; harvest fast as conditions permit. Oats fair to good; storms lodged many fields. Hay, pastures fair to good; some hay stands lodged, leaf hoppers active. Vegetables harvests more active. Fruit harvests include blueberries, peaches, apples.

OKLAHOMA: Temperatures averaged normal Panhandle, west central, southwest to 5° above normal northeast. Precipitation averaged 0.05 in. south central to 2.11 in. northeast.

Days suitable for fieldwork 6.1. Topsoil moisture 55% short, 45% adequate. Subsoil moisture 5% short, 95% adequate. Wheat 100% harvested, 100% 1985, 95% avg. Sorghum 10% fair, 87% good, 3% excellent; 10% headed, 10% 1985, 10% avg. Cotton 45% fair, 55% good; 25% squaring, 30% 1985, 15% avg.; 3% setting bolls, 5% 1985, none avg. Scattered, irregular rains contributed to uneven cotton development. Irrigation started this week. Some sorghum, cotton stressed by hot, dry winds. Pastures good, growth limited. Cattle marketings average, prices stable.

OREGON: Beginning of week warm daytimes, cool nights; remainder of week cool days, mild nights. Most of State averaged slightly below normal temperature. Locations above normal coast, Medford; biggest departure 3° above normal. Other western areas near normal to slightly below normal temperatures. Eastern locations up to 5° below normal. Precipitation came end of week. Western locations received up to 1.00 in. Most eastern areas received less than 0.50 in.

Soil moisture 52% short, 48% adequate. Barley 10% harvested, 28% 1985. Rain slowed grain harvest most areas, damaged some hay southern coast. Grain crops fair to excellent depending on time of seeding; cool weather, moisture helping growth. Crimson clover combining delayed by rain Willamette Valley. Grass seed swathed western areas, combining delayed by rain; swathings slowed by rain central areas. Dry beans in blossom, early field corn tasseling, mint good Malheur County. Caneberry harvest continued; yields, quality good, Red, Black raspberries nearly finished; Marionberries, loganberries, boysenberries in last half of harvest. Blueberry harvest full swing. Sweet cherry harvest winding down Hood River, The Dalles; slight rain damage. Tart cherry harvest underway Willamette Valley. Second cover sprays on

pears Medford. Bartlett pear, Newtown apple thinning Hood River. Harvest of over winter onions neared completion Willamette Valley. Walla Walla sweet onion harvest continued Milton-Freewater. Onions sizing well Jackson County; some thrips problems, earliest onions 3 in. diameter Malheur County. Early sweet corn nearing harvest western areas, other crops good to excellent, irrigation systems running near capacity. Potatoes very good Klamath County; tubers 3 to 4 in. diameter, crop good Malheur County. Livestock good to excellent. Range, pastures fair to good. Low elevation pastures matured early, but recent rains, cool temperatures have extended season. Eastern high elevation ranges good. Scattered grasshopper problems east.

PENNSYLVANIA: Hot spell during first part of week, cold front moved through State during mid week producing widespread showers, thunderstorms. Most rain western and central portions of State. Average temperature 73°, 4° above normal. Temperature extremes 47°; 99°. Average precipitation 1.44 in., 0.56 in. above normal.

Days suitable for fieldwork 5.0. Soil moisture 59% short, 22% adequate, 19% surplus. Corn 2% very poor, 7% poor, 30% fair, 45% good, 16% excellent. Average corn height 44 in., 40 in. 1985, 35 in. avg. Soybeans 99% planted, 99% 1985, 99% avg.; 2% very poor, 6% poor, 32% fair, 43% good, 17% excellent. Barley 12% turning yellow, 28% ripe, 60% harvested; 1985 10% turning yellow, 21% ripe, 69% harvested. Wheat 29% turning yellow, 48% ripe, 23% harvested; 1985 6% headed, 24% turning yellow, 52% ripe, 18% harvested. Wheat 4% poor, 15% fair, 60% good, 21% excellent. Oats 32% heading, 44% turning yellow, 22% ripe, 2% harvested; 1985 38% heading, 44% turning yellow, 18% ripe. Oats 6% poor, 24% fair, 55% good, 15% excellent. First cutting alfalfa 98% complete; 1985 96%. Second cutting alfalfa 52% complete; 1985 40%. First clover-timothy 94% complete; 1985 87%. Quality of hay good to fair. Feed from pastures below average to average. Activities: Making hay and haylage; clipping pastures; spraying soybeans; harvesting wheat, barley, cherries, peaches, vegetables.

PUERTO RICO: Island average rainfall 0.77 in., 0.43 in. below normal. Highest weekly total 2.85 in. Highest 24-hour total 1.71 in. Temperature averaged about 81 to 82° on coasts and 70 to 76° interior divisions. Mean station temperature ranged from 67 to 83°. Extremes 53°; 94°. San Juan WSFO mean temperature 82 minus 0.40. Total rainfall 0.66 in., minus 0.39.

SOUTH CAROLINA: Temperatures 4 to 7° above normal. Hot and dry. Isolated showers brought little relief.

Days available for fieldwork 5.9. Soil moisture 81% very short, 19% short. Cotton planted 100%; 86% squaring, 100% 1985, 100% avg.; 57% setting bolls, 80% 1985, 71% avg.; 16% very poor, 26% poor, 49% fair, 9% good. Soybeans planted 100%; 5% blooming, 11% 1985, 5% avg.; 34% very poor, 22% poor, 44% fair. Tobacco fair; 83% topped, 90% 1985, 86% avg. Corn poor; 95% silked, 98% 1985, 86% avg.; 64% dough 75% 1985, 59% avg.; 14% mature, 15% 1985, 14% avg. Peaches harvested 60%, 70% 1985, 53% avg. Peanuts poor to fair. Pastures, hay poor.

SOUTH DAKOTA: Average temperatures ranged 1 to 4° below normal. Extremes 39°; 93°. Black Hills low 33°. Rainfall averaged above normal. Greatest amount 2.74 in.

Days suitable for fieldwork 5.2. Topsoil moisture short to adequate; 3% critically short, 35% short, 56% adequate, 6% surplus. Grasshoppers and alfalfa weevils reportedly causing problems. Small grain harvest beginning. All crops good condition. Range, pastures, livestock good to

excellent. Feed, stockwater supplies adequate to surplus.

TENNESSEE: Temperatures 2 to 5° above normal. Widely scattered thundershowers.

Days suitable for fieldwork 5.3. Soil moisture 41% very short, 43% short, 16% adequate. Corn 75% tasseling, 75% 1985, 50% avg.; 25% dough, 25% 1985, 10% avg.; 7% very poor, 16% poor, 49% fair, 26% good, 2% excellent. Cotton 90% squaring, 85% 1985, 85% avg.; 20% setting bolls, 14% 1985, 10% avg.; 6% poor, 26% fair, 62% good, 6% excellent. Sorghum 25% headed, 20% 1985; 2% very poor, 10% poor, 58% fair, 30% good. Soybeans 17% blooming, 14% 1985, 11% avg.; 3% setting pods, 4% 1985, 1% avg.; 6% very poor, 21% poor, 54% fair, 19% good. Tobacco 8% very poor, 31% poor, 57% fair, 4% good. Cattle fair. Pastures poor to fair.

TEXAS: Series weak, easterly waves triggered scattered thunderstorms coast, parts southeast, south central early week. Pacific moisture helped produce few showers western Trans-Pecos, High Plains. Upper level high pressure limited thunderstorm activity elsewhere. Rainfall totals below normal all areas. Temperatures near to below normal.

Crops: Small grain harvest good progress under open weather Plains, Cross-Timbers, virtually complete week's end. Corn fields drying rapidly over much State under hot temperatures. Irrigation operations steady Plains. Harvest nearing Coastal Bend, Valley as producers finish sorghum harvest. Doughing 65%, 61% 1985. Dented 57%, 49% 1985. Mature 24%, 5% 1985. Grain sorghum planting virtually complete Plains, Cross-Timbers last week. Cultivation occurring some fields. Midge continued plague blooming fields Blacklands. Spraying headworms continued. Early harvest started scattered fields. Most fields turned color. Producers getting ready to begin cutting central, some test plots already cut. Good yields Valley, Coastal Bend, Upper Coast, some interruptions from showers Valley, Upper Coast. Planted 99%, 100% 1985, 100% avg. Turning color 53%, 42% 1985, 50% avg. Mature 38%, 21% 1985, 29% avg. Harvested 21%, 9% 1985, 14% avg. Cotton planting completed Plains last week. Planted fields responding to good weather Plains, showing good development. Bollworms increasing early Blacklands fields, spraying occurring. Most fields look good. Harvest should begin soon Valley, Coastal Bend. Spraying bollworms underway Trans-Pecos. Planted 100%, 100% 1985, 100% avg. Open bolls 3%, 1% 1985, 2% avg. Rice harvest began Upper Coast last week. Most other fields continued head, turn color. Turning color 29%, 2% 1985, 24% avg. Peanut planting good progress last week. Early fields up to stands, showing excellent growth Low Plains, Cross-Timbers. Some leaf spot showing up. Planted fields slowly emerging south central Texas because dry conditions. Planted 92%, 100% 1985, 98% avg. Soybeans continued look good Plains. Many fields planted behind hailed out cotton. Pods continued fill along Upper Coast, good yield potential. Planted 96%, 98% 1985, 95% avg.

Other Field Crops: Sunflowers 97% planted, 100% 1985, 95% avg. Oats 83% harvested, 96% 1985, 94% avg.

Commercial Vegetables: Rio Grande Valley, land preparation fall crops active until showers stalled operations. San Antonio-Winter Garden, watermelon harvest about complete. Movement vegetables light. East, sweetpotatoes good progress. Movement other vegetables steady. High Plains, onion, potato harvest continued. Cabbage, carrots good growth. Trans-Pecos, cantaloup harvest continued. Onion harvest complete. Watermelon harvest begin soon. Peppers making good growth. Pecans sizing, filling across State. Light crop expected. Aphids increasing. Some spraying casebearers continued.

Range and Livestock: Ranges, pastures beginning show signs drying because recent hot conditions. Grasshoppers continued problems some areas. Haying operations active many areas, yields good. Livestock good. Markets strong.

UTAH: Temperatures 10° above normal southeast to 20° below normal west, north central. Precipitation light to moderate.

Days suitable fieldwork 6.7. Topsoil moisture 69% short, 31% adequate. Crop progress 7 to 10 days ahead of schedule. Winter wheat, barley harvests beginning. Winter wheat 31% ripe, 14% 1985, 18% avg.; 8% harvested, none 1985, none avg.; spring wheat 71% turned, 42% 1985, 46% avg.; barley 77% turned, 60% 1985, 59% avg.; oats 68% headed, 68% 1985, 74% avg.; 21% turned, 28% 1985, 18% avg. Corn height 39 in., 38 in. 1985, 30 in. avg. Alfalfa 2nd cutting 16% complete, 7% 1985. Grass hay nearly complete. Tart cherry harvest underway, apricots full swing. Pasture, rangeland good, rain needed. Livestock good to excellent.

VIRGINIA: Hot, dry. Isolated severe thunderstorms did little to ease drought. Highs 90s entire period, lows 70s; range 45 to 103°. Precipitation range none to 1.22 in.

Days suitable for fieldwork 6.0. Soil moisture 97% short, 3% adequate. Drought continued, crop growth slow. Corn very poor to poor, some corn beyond help. Corn 42% in silk, 50% 1985, 54% avg. Soybeans 92% planted, 97% 1985, 97% avg.; poor to fair, germination spotty. Peanuts good to excellent. Weed control active. Tobacco poor to good. Irrigated fields best condition. Still transplanting burley few areas. Topping, spraying, cultivating flue-cured tobacco. Apples, peaches fair to mostly good. Need rain to size well. Vegetable harvest active. Some non irrigated vegetables total loss. Potatoes 70% harvested, 70% 1985, 54% avg. Barley harvest virtually complete. Wheat 97% harvested, 94% 1985, 93% avg. Pasture, hay land conditions declined, range from severe drought to poor most areas. Fair to some good in isolated mountain areas. Many feeding hay, selling livestock due to inadequate pastures. Many counties seeking disaster designation.

WASHINGTON: Week began mild, dry across State. Midweek cool, rain mostly east, northwest.

Days suitable for fieldwork 5.4. Soil moisture 35% short, 65% adequate. Winter wheat, barley mostly good to fair. Berry harvests continued;

raspberries peaking, strawberries winding down. Vegetable crops; progress, condition mostly good. Walla Walla onion harvest progressing. Range, pasture 10% short, 90% adequate. Continued grasshopper concern, east.

WEST VIRGINIA: Temperatures above normal statewide. Temperature extremes 55° Terra Alta, 98° Wheeling. Average temperature 75°. Precipitation above normal. Greatest amount 3.79 in. Williamson.

Days suitable for fieldwork 3.8. Soil moisture 35% short, 58% adequate, 7% surplus. Feed supplies: 39% short, 58% adequate, 3% surplus.

WISCONSIN: Temperatures averaged 69°, 2° below normal, low 47°, high 90°. Rainfall 0.60 to 3.10 in. Thunderstorms, tornadoes on 11th, 12th.

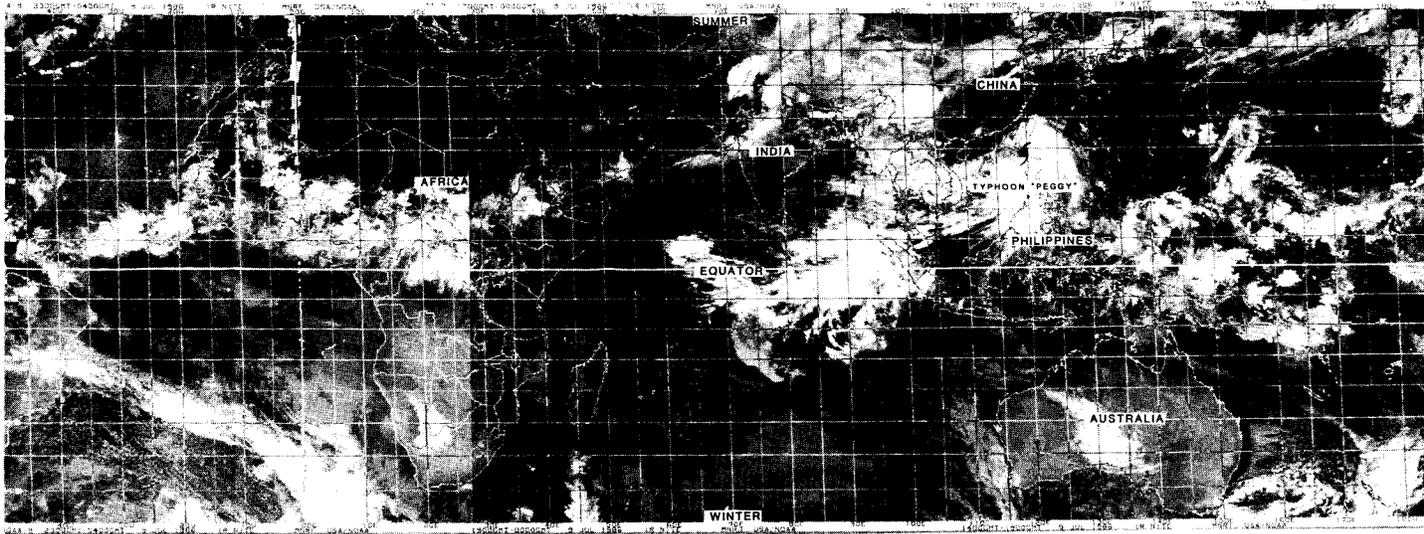
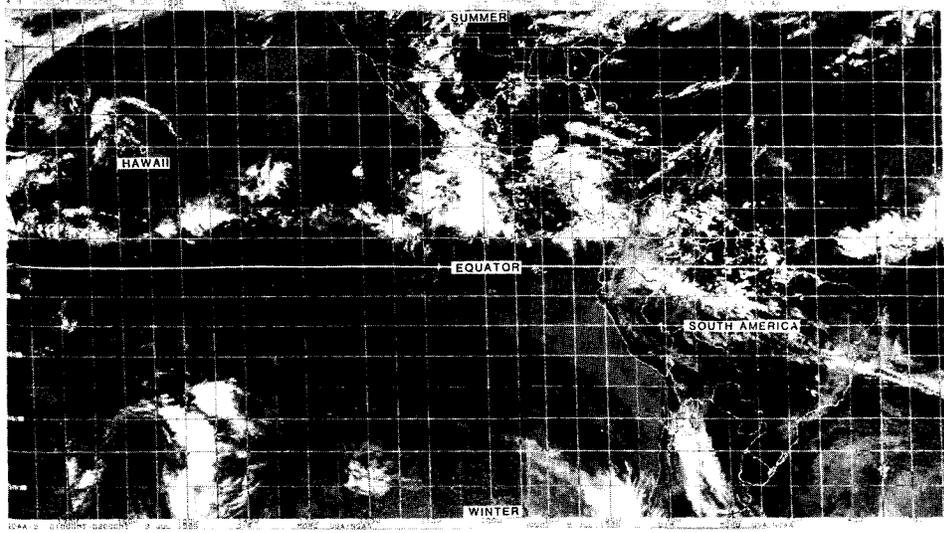
Days suitable for fieldwork 4.1. Soil moisture 29% short, 64% adequate, 7% surplus. Crops 1% very poor, 1% poor, 9% fair, 72% good, 17% excellent. Corn 8% fair, 50% good, 42% excellent. Corn shot up, average height 50 in., 45 in. 1985, 42 in. avg. Corn silking 3%, 5% 1985, 3% avg. First cutting hay 96% complete, 99% 1985, 96% avg. Second cutting hay 14%, 27% 1985, 14% avg. Wet weather slowed haying. Quality varied. Oats 95% headed, winter wheat 99% headed. Small grains turning color, lodging occurred some areas, harvest just beginning. Potatoes blooming.

WYOMING: Temperatures below normal. Above normal precipitation except Lower Platte and Wind River Drainages.

Days suitable for fieldwork 6.0. Topsoil moisture 51% short, 46% adequate, 3% surplus. Subsoil moisture 35% short, 65% adequate. Winter wheat headed 20%, 20% 1985; turning color 50%, 55% 1985; mature 25%, 20% 1985; harvested 5%, 5% 1985. Barley jointed 5%; booted 10%, 20% 1985; headed 30%, 45% 1985, 60% avg.; turning color 45%, 20% 1985; mature 10%, 15% 1985. Spring wheat jointed 5%, 5% 1985; boot 15%, 15% 1985; headed 55%, 60% 1985, 60% avg.; turning color 25%, 15% 1985. Oats jointed 10%, 5% 1985; boot 15%, 25% 1985; headed 65%, 60% 1985, 60% avg.; turning color 10%, 10% 1985. Alfalfa 1st cutting complete 80%, 75% 1985, 70% avg. Other hays harvested 40%, 35% 1985, 25% avg. Dry beans in bloom 20%, 20% 1985. Potatoes in bloom 15%, 35% 1985. Field crops mostly good to excellent. Ranges, pastures 5% poor, 35% fair, 55% good, 5% excellent. Stockwater supplies 10% short, 90% adequate.

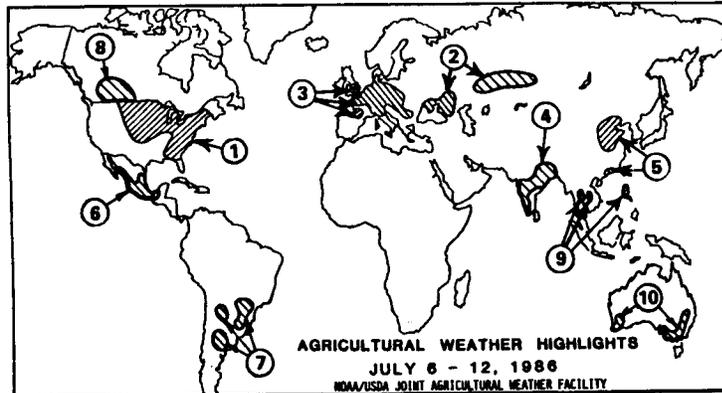
Global Weather Satellite Image

JULY 9, 1986



International Weather and Crop Summary

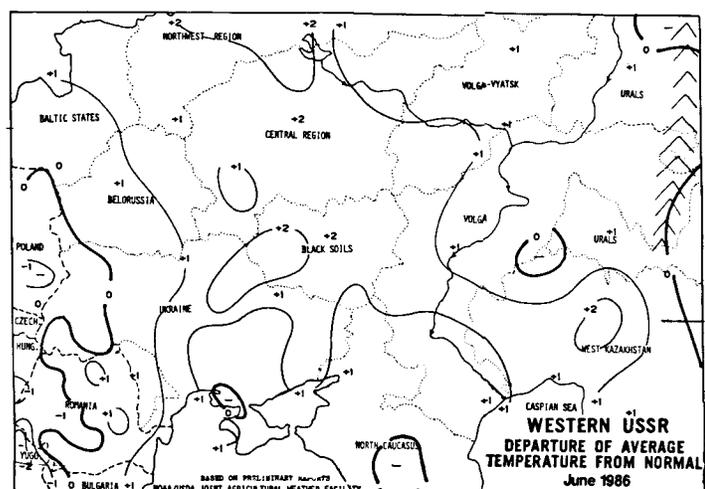
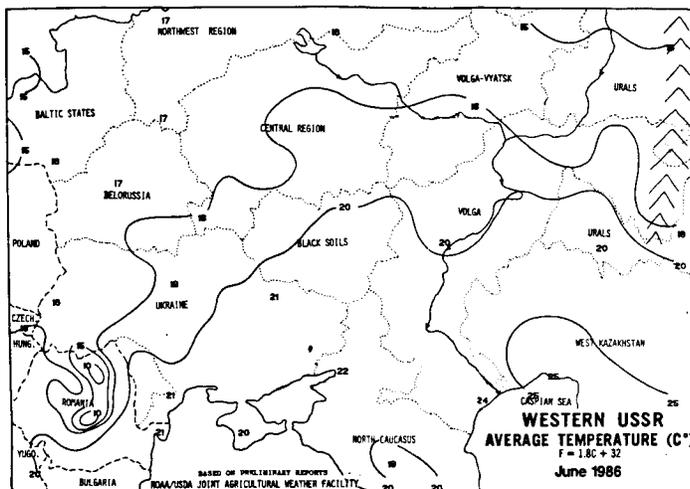
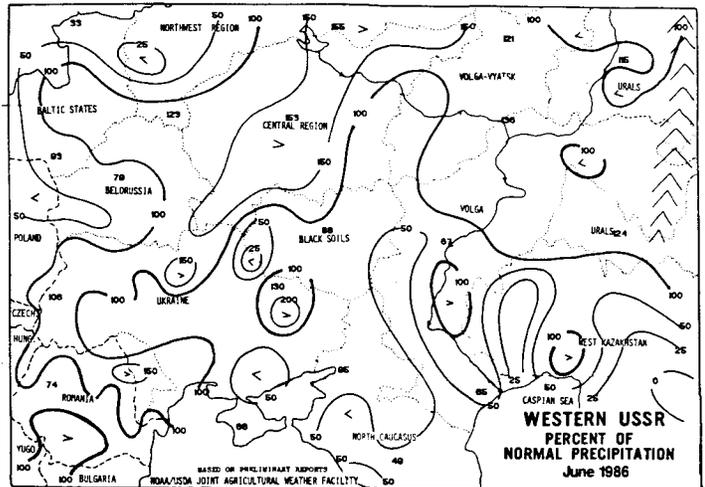
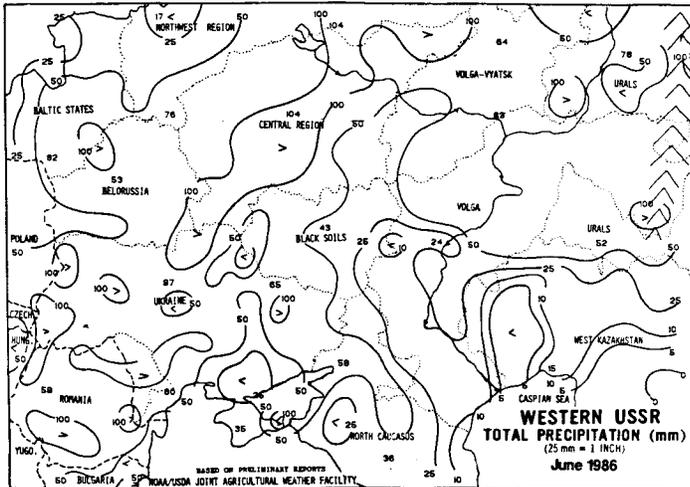
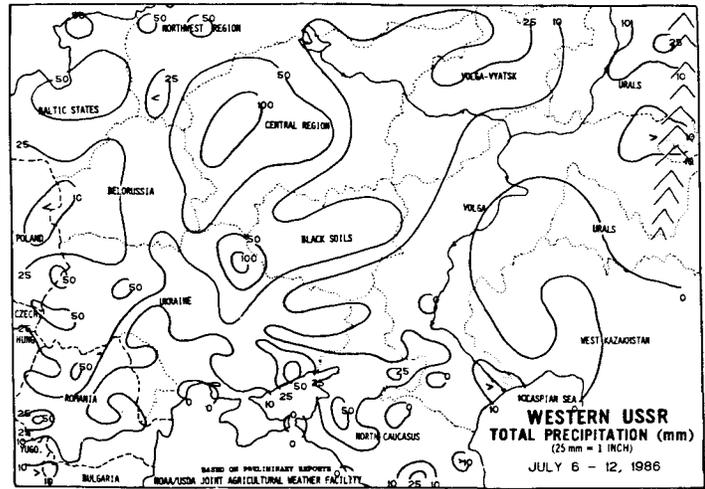
July 6 - 12, 1986



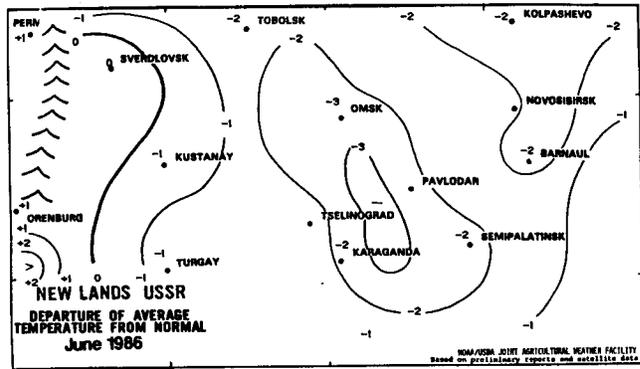
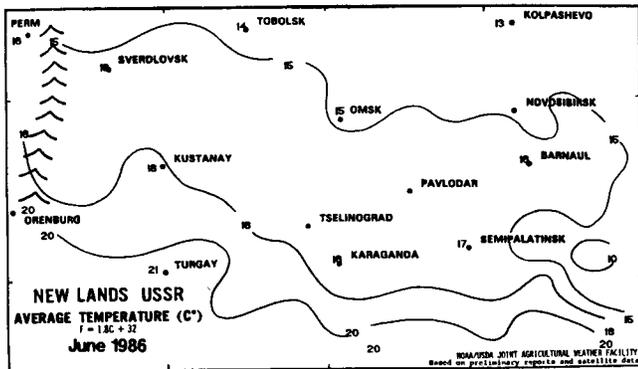
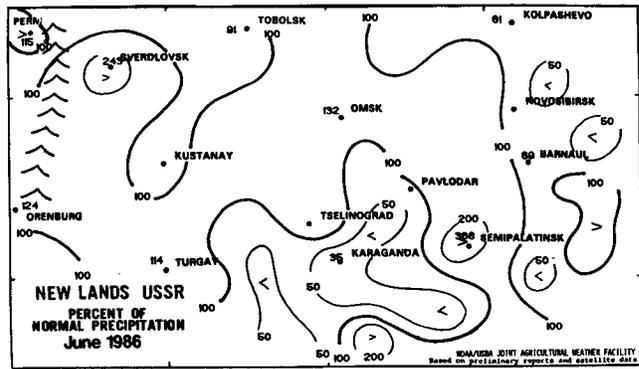
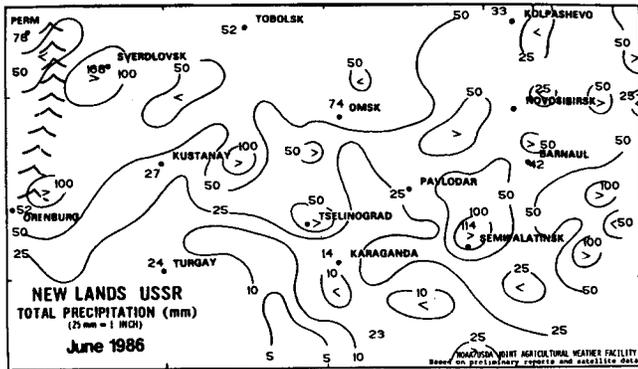
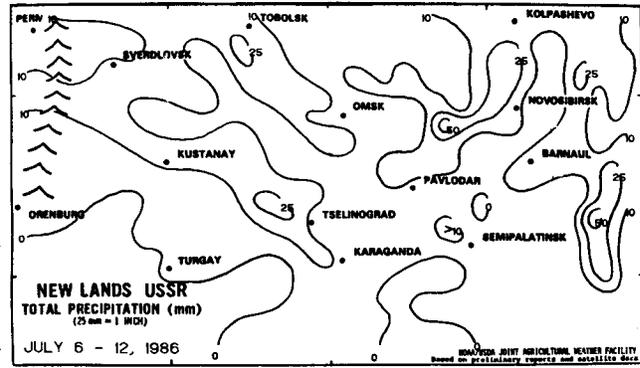
HIGHLIGHTS:

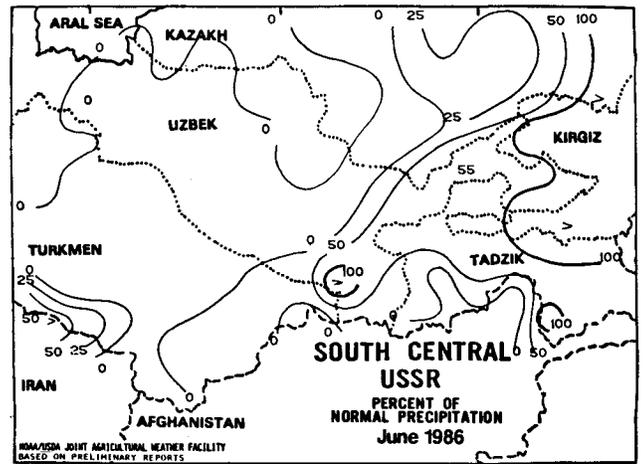
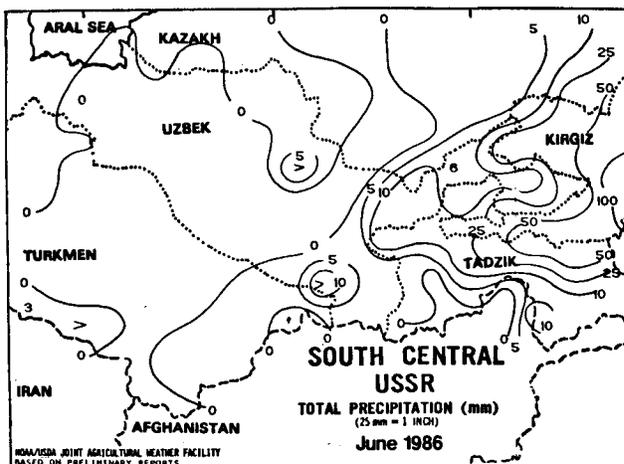
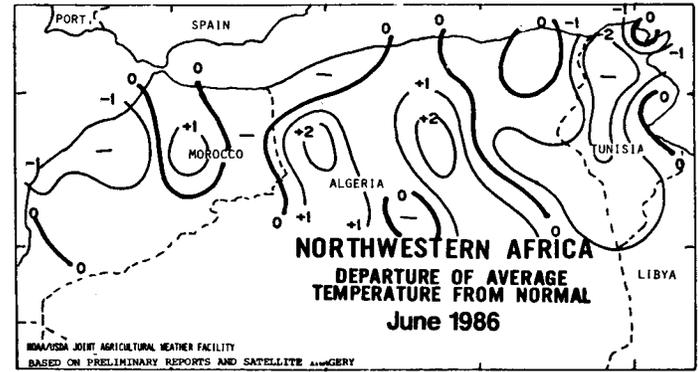
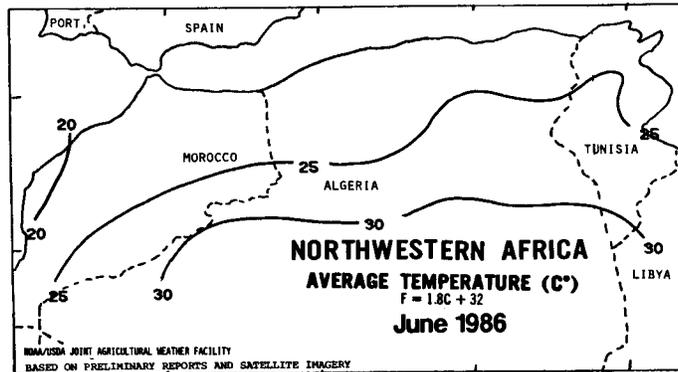
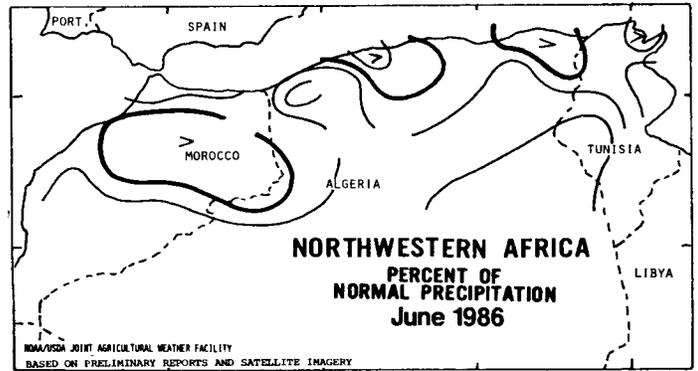
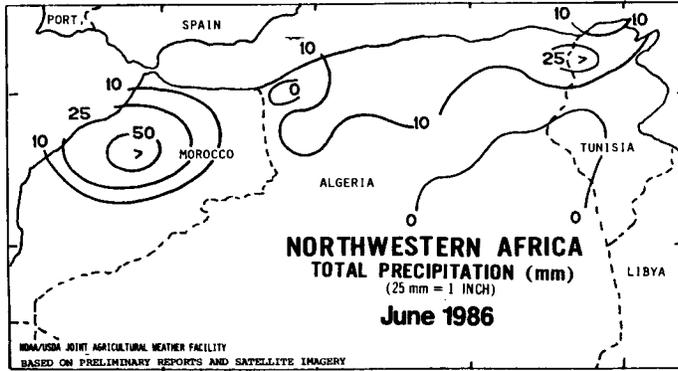
1. UNITED STATES ... Excessive heat intensifies the dryness throughout the Southeast. Crops decline in most areas from the lack of moisture. Rain boosts crop development through the Corn Belt and in the central and northern Great Plains.
2. U.S.S.R. ... In Western U.S.S.R., cooler weather and showers favor spring grains and summer crops except for areas in the southern Ukraine and Volga where the weather continued unfavorably dry. In the New Lands, weather conditions continue mostly favorable for spring grains.
3. EUROPE ... Showers benefit crops over much of the region. Corn in southwestern France continues to be stressed by dryness.
4. SOUTH ASIA ... Monsoon rains increase over central portions of India but diminish in the south and west.
5. EASTERN ASIA ... Dry weather returns to crop areas in the North China Plain, increasing the need for irrigation. Corn and soybeans in the northeast continue to receive beneficial showers. Typhoon Peggy produces coastal flooding in Guangdong.
7. SOUTH AMERICA ... Dry, mild weather prevails throughout Brazil's center-south and Argentina's wheat areas where moisture is limited for crop establishment.
8. CANADA ... Widespread showers and cool weather promote crop development across the Prairie Provinces.
9. SOUTHEAST ASIA ... Typhoon Peggy brings high wind and flooding to the northern Philippines damaging some crops. Rainfed rice and corn regions of central and eastern Thailand remain dry.
10. AUSTRALIA ... Dry weather returns to the drought-stricken wheat belt of New South Wales and Queensland.

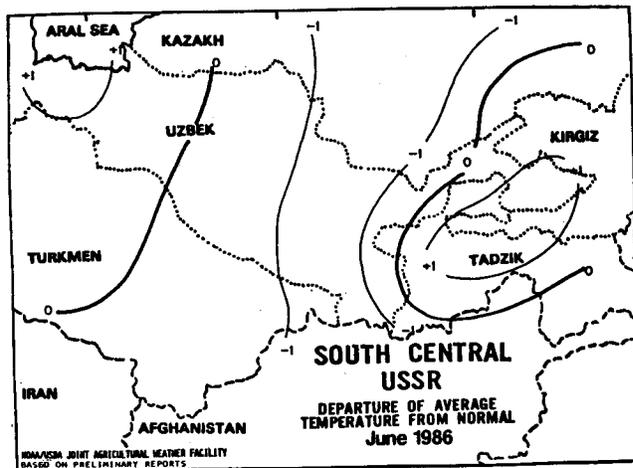
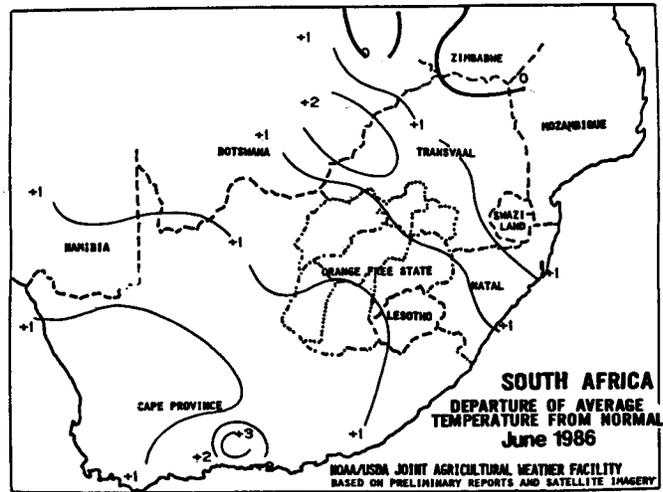
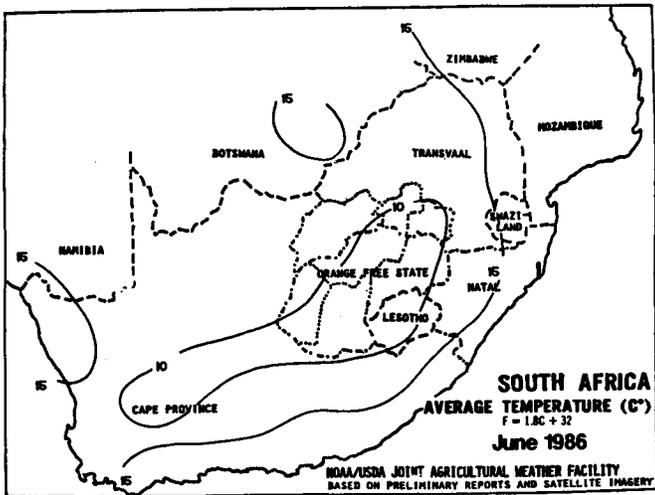
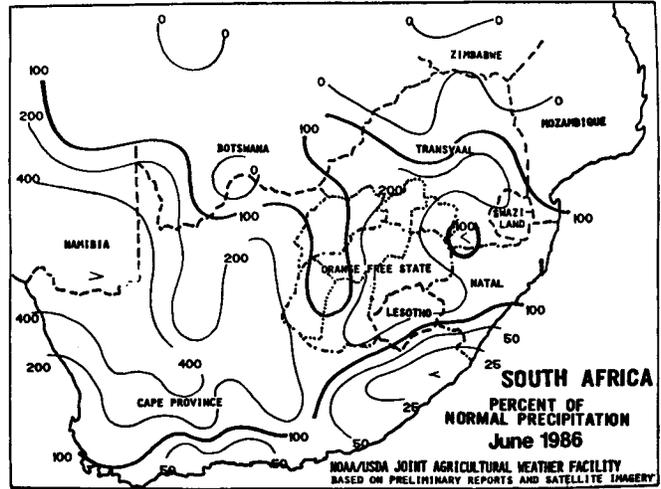
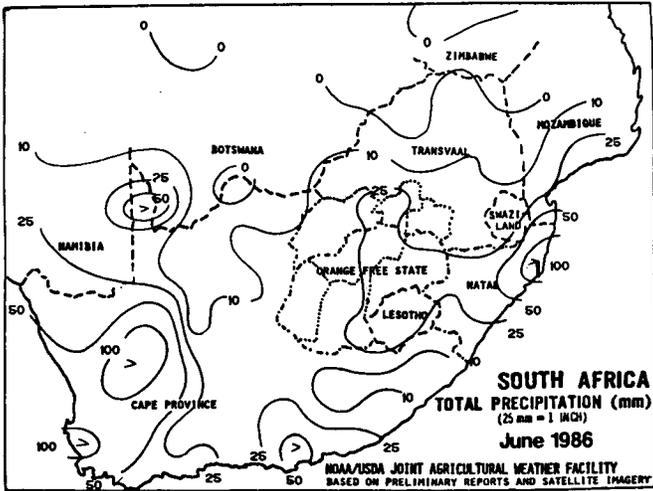
U.S.S.R. ... An eastward moving cold front brought cooler weather and showers. The heaviest rainfall (25 to 50mm) covered the Black Soils Region, the western and northern Ukraine, the Baltic States, Belorussia, and the Central Region, with some locations receiving more than 100mm. The rain in these areas benefited spring grains in the filling stage but was unfavorable for winter grain maturation. Elsewhere, light showers in the eastern Ukraine improved moisture conditions while dry weather persisted in the southern Ukraine and the Volga. In mid-June, hot, dry, windy weather spread westward into the Ukraine, stressing winter wheat in the filling stage, spring grains in the flowering and grain formation stages, and corn in the vegetative stage. Temperatures fell below normal around June 24, alleviating heat stress. Light showers began around June 21, with more substantial rainfall stabilizing crop conditions during late June. Crop areas in the southern Ukraine and the western Volga were mostly dry during June.



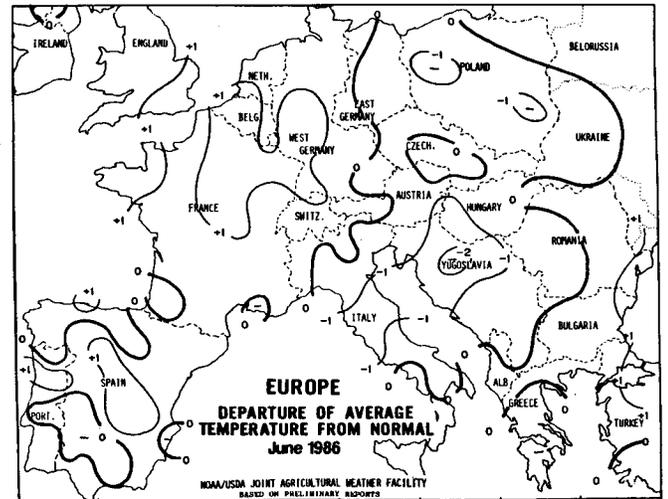
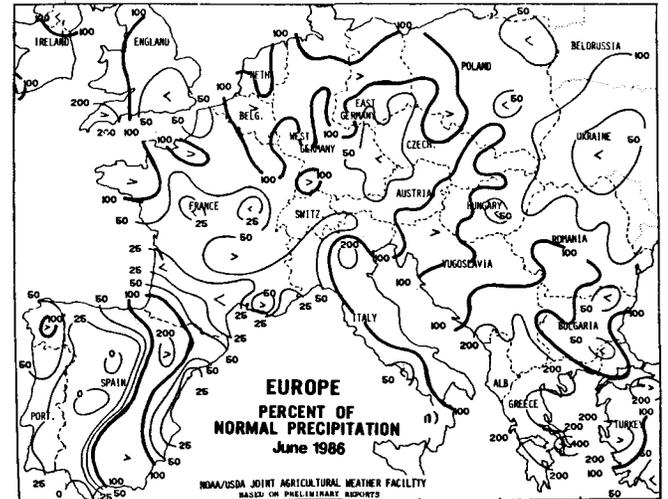
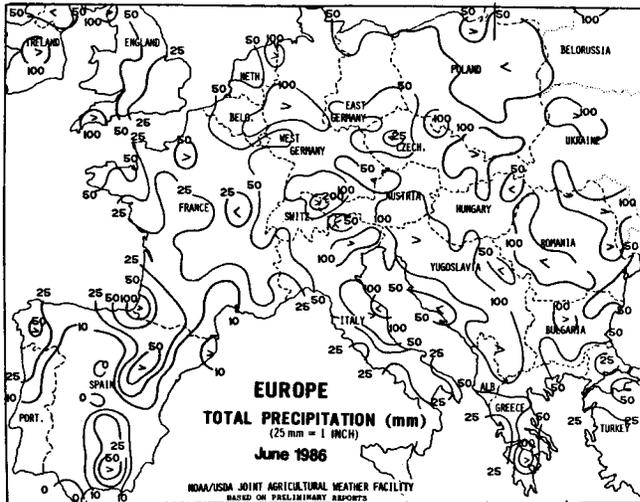
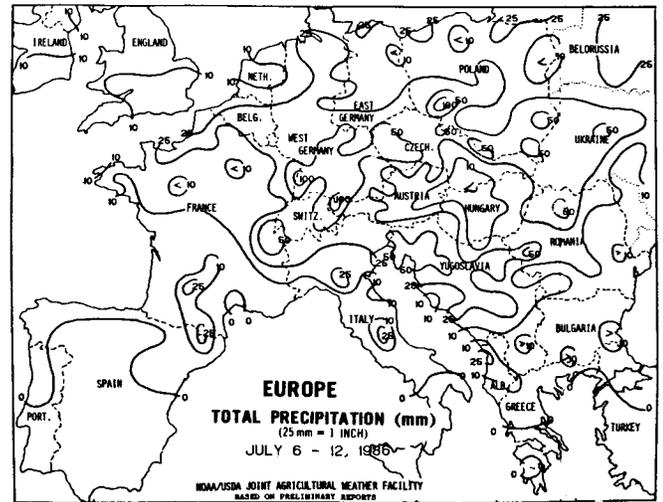
NEW LANDS ... Weather conditions were mostly favorable for spring grains. Cool weather and light showers covered much of the region recently. In early June, above-normal precipitation benefited crops in the vegetative stage. However, unseasonably dry weather during the latter half of June, especially in southwestern and central areas, resulted in near average monthly rainfall. Currently, spring grains in the south are in the heading stage while further north in the Urals and Siberia, the crop is jointing.



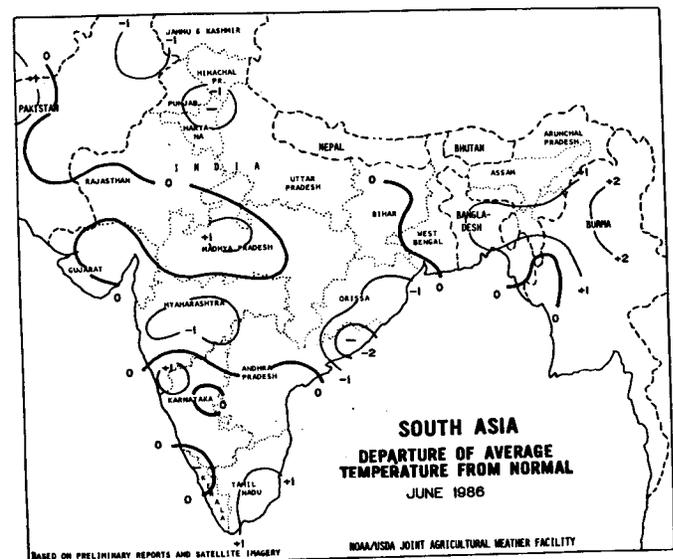
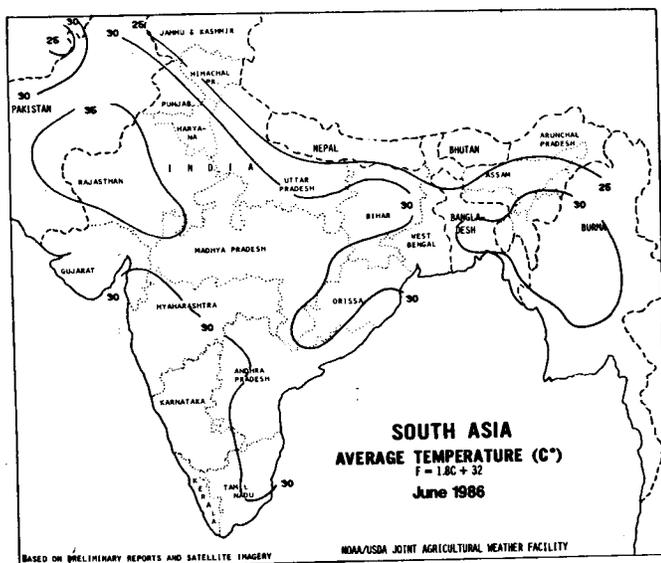
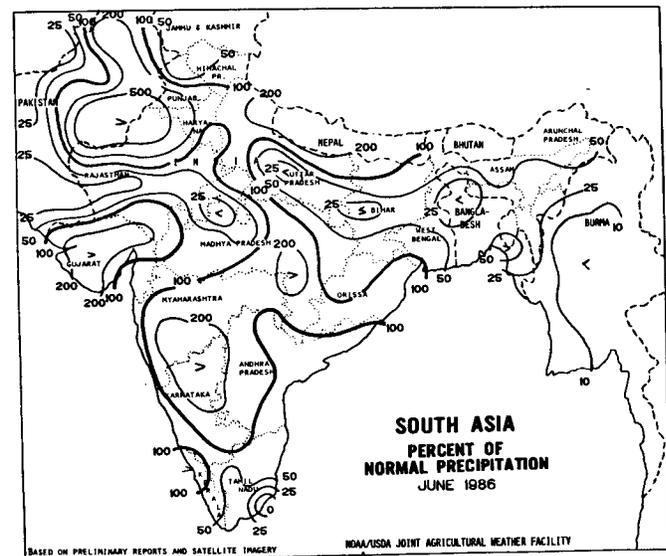
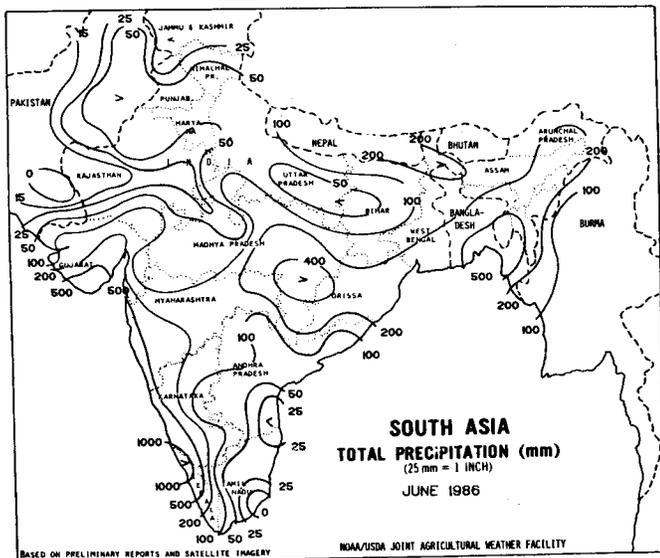
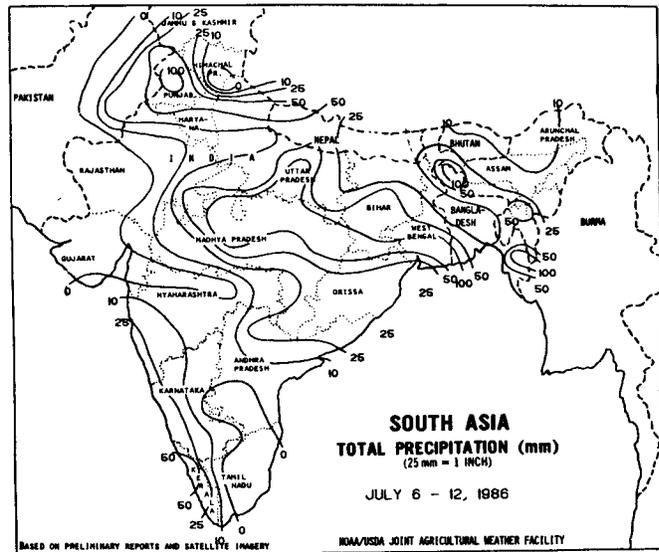




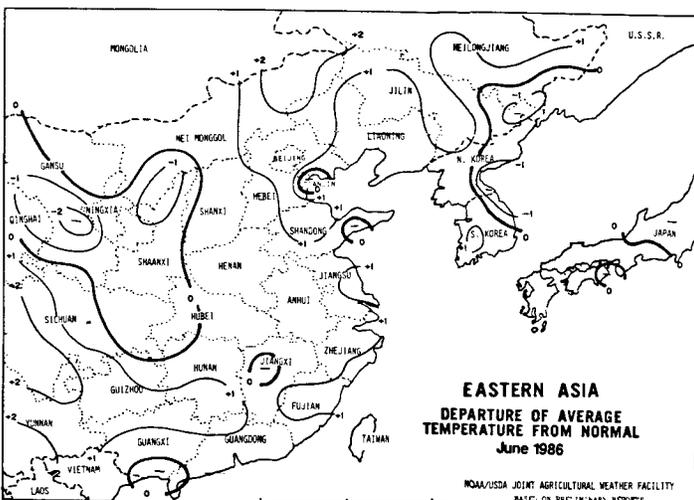
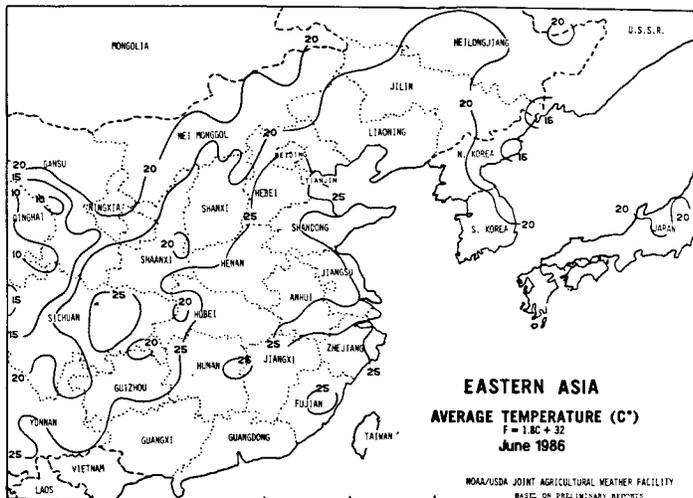
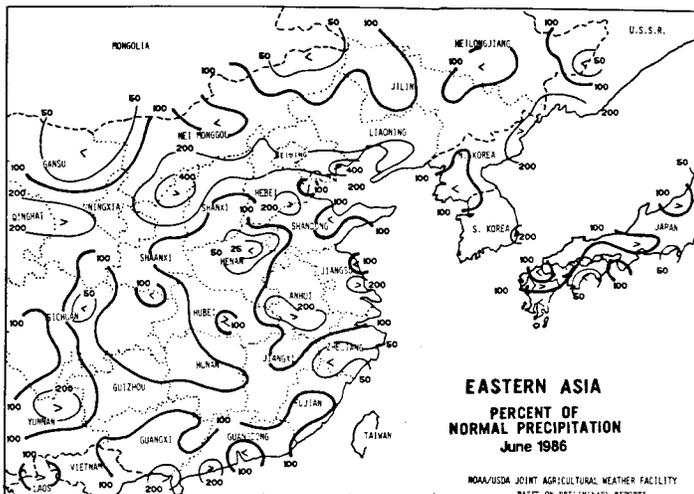
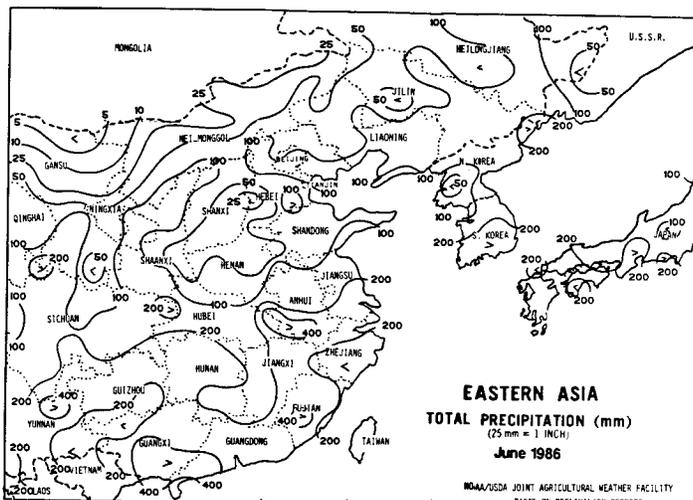
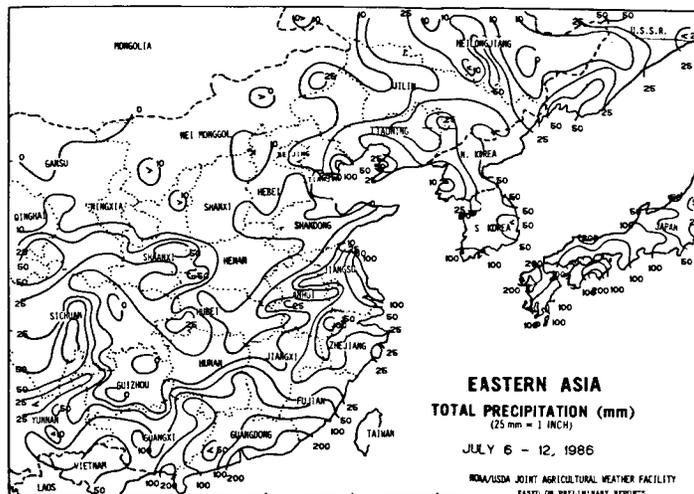
EUROPE ... Showers and unseasonably cool weather covered much of the region. However, unfavorably dry weather continued in southwestern France, limiting moisture for corn entering the tasseling stage. In June, below-normal precipitation and periods of hot weather over France were unfavorable for wheat, which progressed through reproduction. Near-normal June precipitation in West Germany, East Germany, Czechoslovakia, and Poland maintained adequate moisture conditions for crops. Moderate rains in these areas last week benefited spring grains and summer crops. In southeastern Europe, early June wet weather relieved unfavorable dryness. The rain probably came too late to help maturing winter grains but benefited summer crops in the vegetative stage. Recently, light rain in these areas maintained adequate moisture for corn entering the tasseling and silking stages.



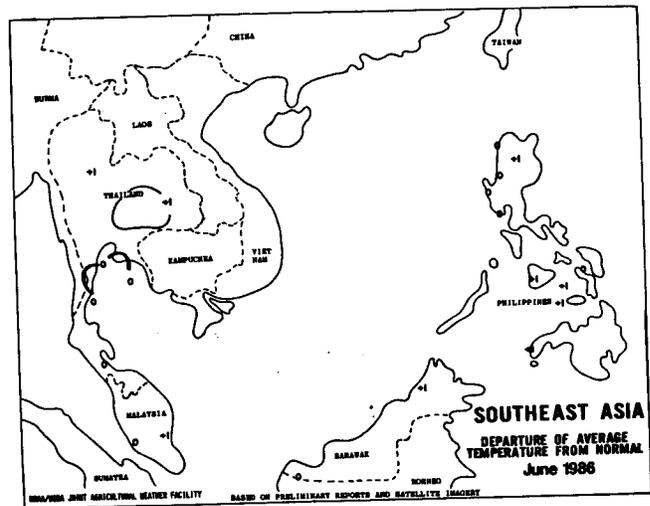
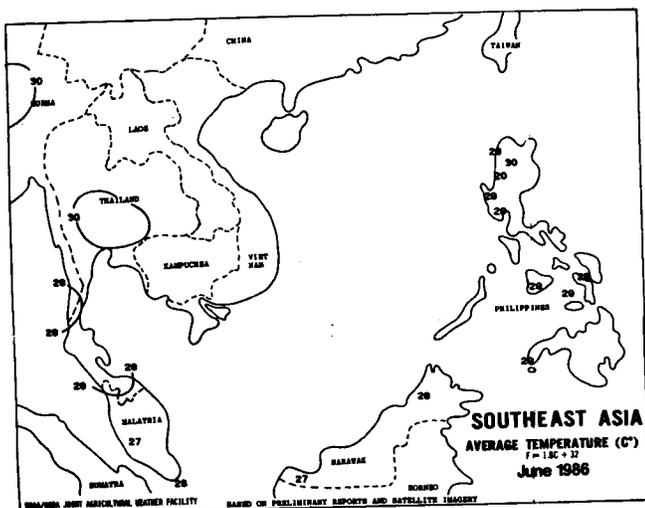
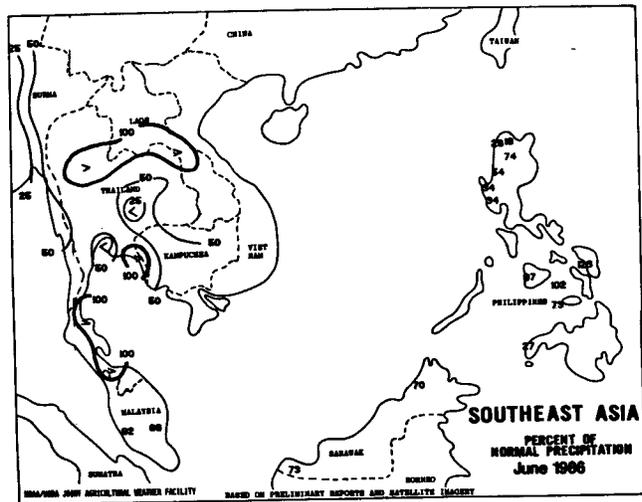
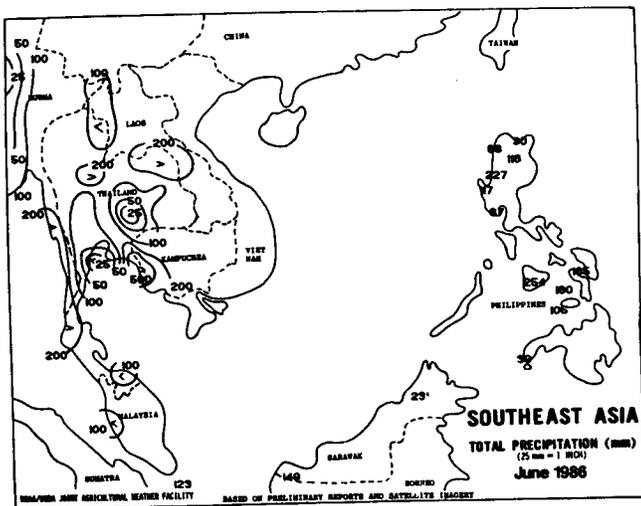
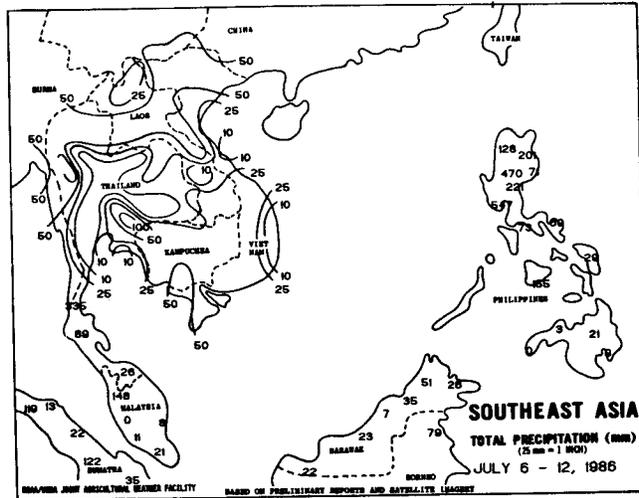
SOUTH ASIA ... Heavy monsoon rain (75 to 150mm) fell over much of Uttar Pradesh, and through Bihar and West Bengal providing ample moisture for rice planting and early growth. Lighter amounts (25 to 40mm) fell to the south in Orissa aiding crop planting while minimal rain (less than 10mm) fell in southern Andhra Pradesh and Tamil Nadu, reflecting the below-normal rain pattern for June in these areas. Rainfall continued to diminish along the west coast as 25 to 50mm of rain fell in Karnataka and Kerala, where amounts had been above normal in June. Dry weather covered Gujarat where groundnut and cotton planting is usually underway. Late June rain in Gujarat provided moisture for early planting, but the monsoon has not firmly established itself in the northwest.



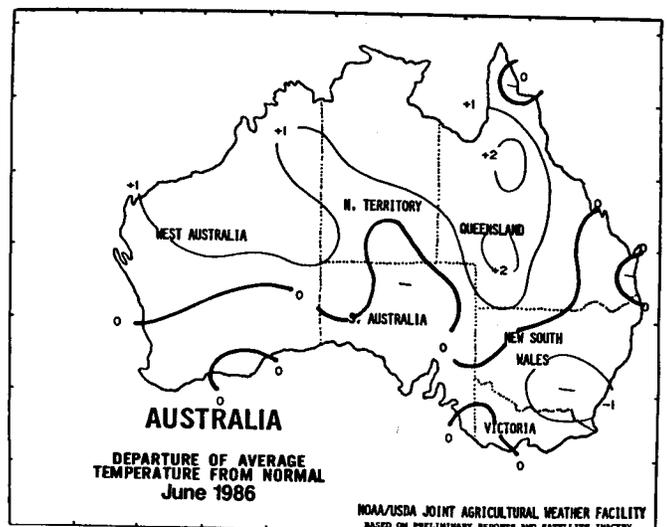
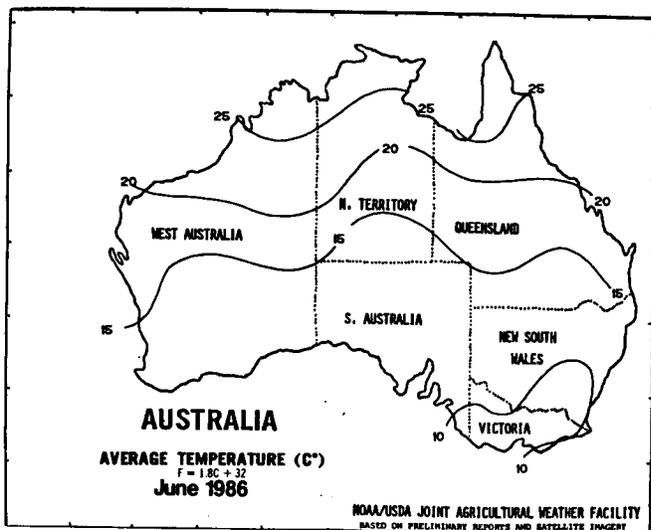
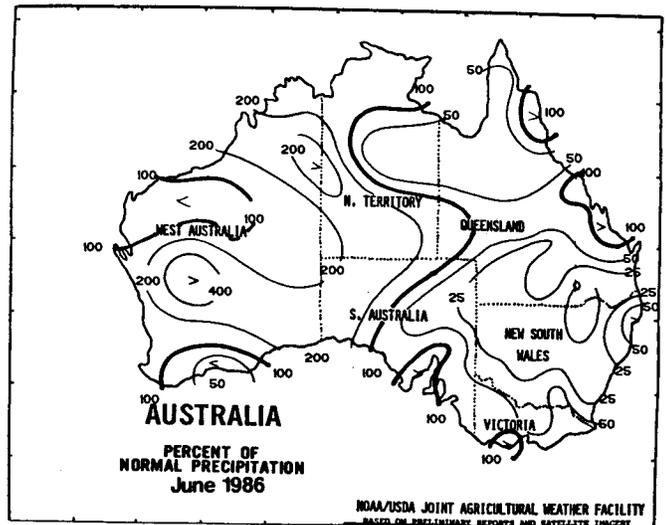
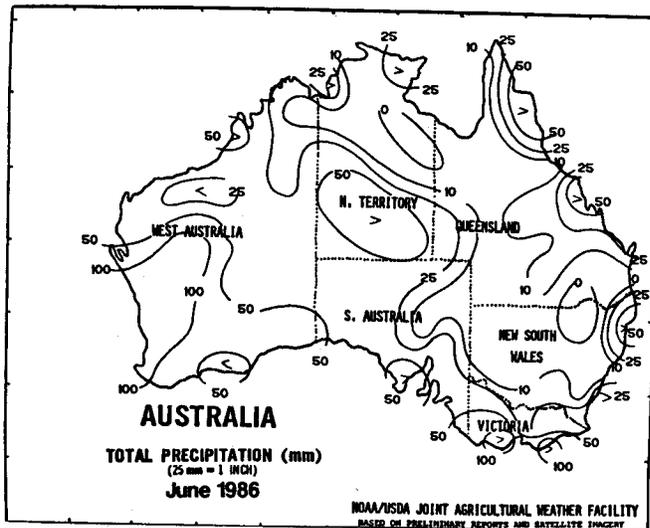
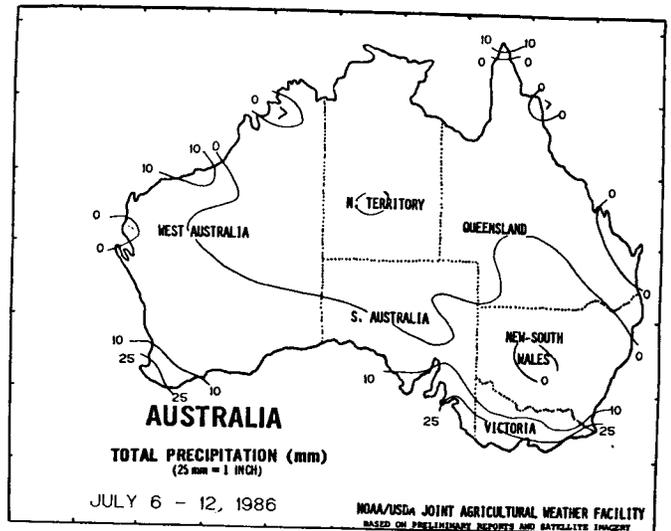
EASTERN ASIA ... Dry weather returned to crop areas in the North China Plain. The dry weather aided wheat harvesting but stressed nonirrigated cotton, soybeans, and corn in reproduction. Beneficial showers continued to cover northeast corn and soybean areas in Liaoning, Jilin, and Heilongjiang. A series of low pressure systems moved eastward along a stationary front, which stretched from Jiangsu through Korea and Japan and produced moderate to heavy rain (50 to 100mm). Typhoon Peggy entered coastal areas of Guangdong on July 11, producing locally heavy rainfall and flooding. In June, early-month dryness in the North China Plain and the northeast was followed by beneficial moderate showers by month's end. Intermediate rice in Hubei received below-normal June precipitation, increasing the need for irrigation. Rice areas in Anhui and Jiangsu received above-normal June precipitation.



SOUTHEAST ASIA ... Typhoon Peggy passed over northern Luzon Island earlier in the week bringing heavy rain and high winds to the northern Philippines. Flooding and possible crop damage occurred in areas of Luzon, where rice, corn, and oilseed crops are grown. In Thailand, moderate to heavy showers (25 to 125mm) fell just north of Bangkok and in northern Thailand, through northern Laos and Vietnam, and in Kampuchea. Mostly light showers (1 to 23mm) fell in most of the central and eastern regions, where rain is needed for rainfed rice and corn in the vegetative stage. Light rain (less than 10mm) fell along the east coast of Vietnam. In June, central Thailand received near-normal rainfall, but most of eastern Thailand was dry with some areas receiving only half of their average amounts. Most of the northern Philippines was dry, with near-normal rain over most of the southern island.



AUSTRALIA ... Dry weather returned to the eastern wheat belt following the previous week's beneficial showers. Only minimal rain (less than 10mm) fell in the moisture-deficient wheat regions of New South Wales and Queensland, as well as in Western Australia, most of South Australia, and Victoria. Soil moisture is adequate in the western and southern crop areas after 2 weeks of beneficial showers. A moisture shortage persists in the drought-stricken east where planting is behind schedule. Last week's rain moistened topsoils sufficiently to help planting, but more rain is needed to promote crop establishment and to complete grain planting in those affected areas. The New South Wales and Queensland crop areas were unfavorably dry throughout June with some areas receiving no rain at all. Significant shower activity, during the last 2 weeks of June in Western Australia, South Australia, and Victoria, brought monthly totals in those regions to near average.



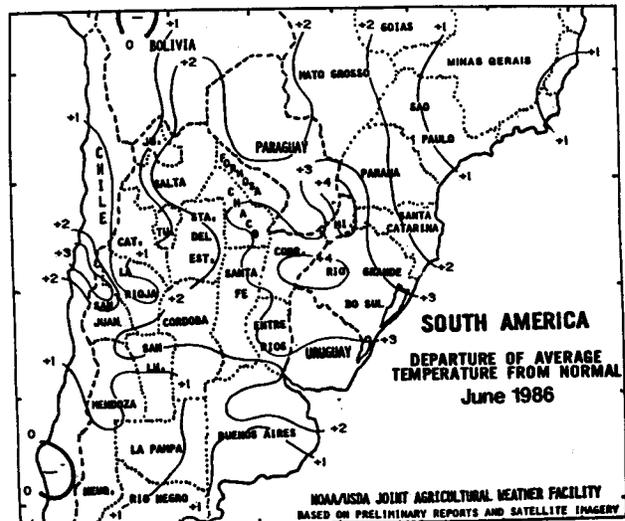
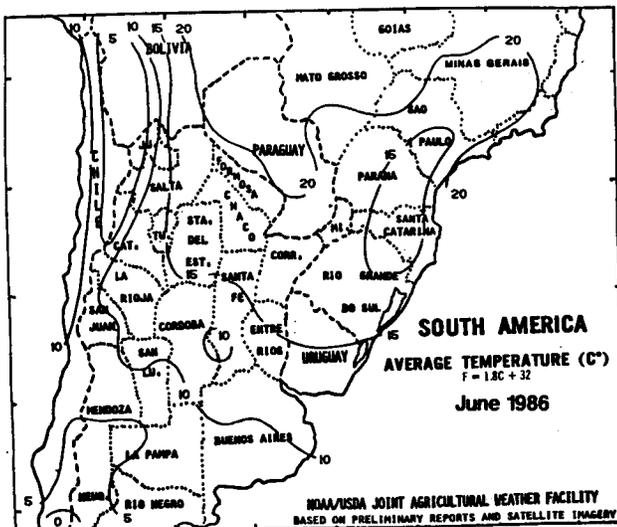
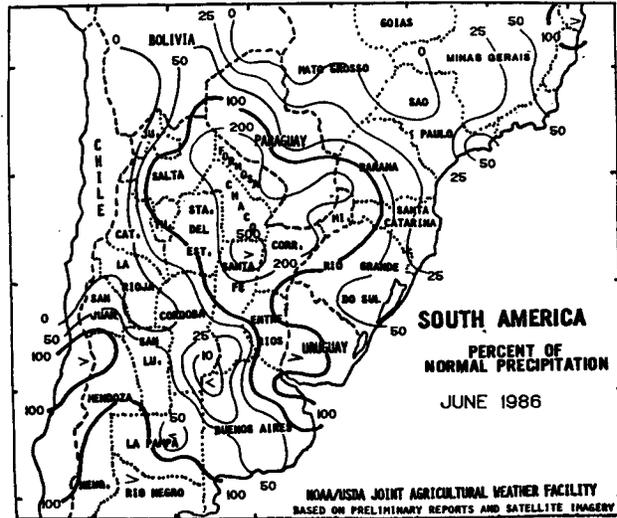
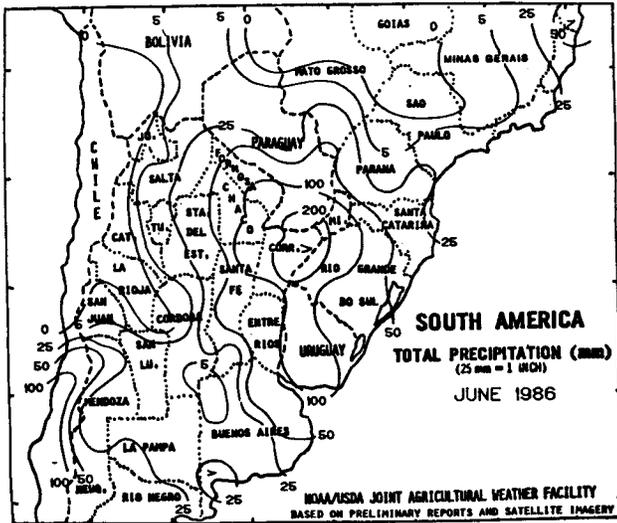
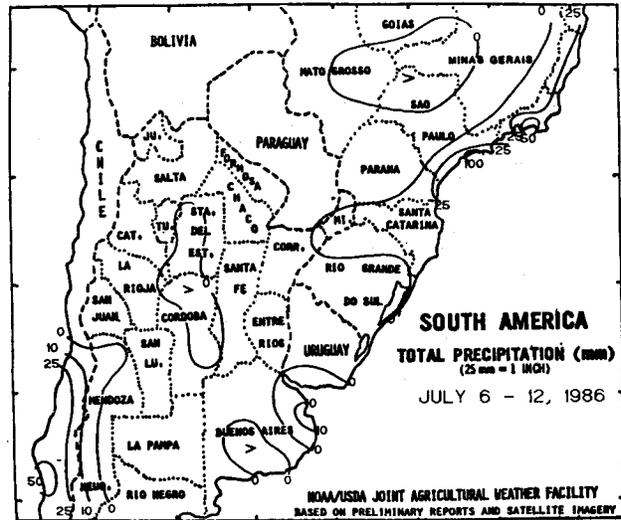
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

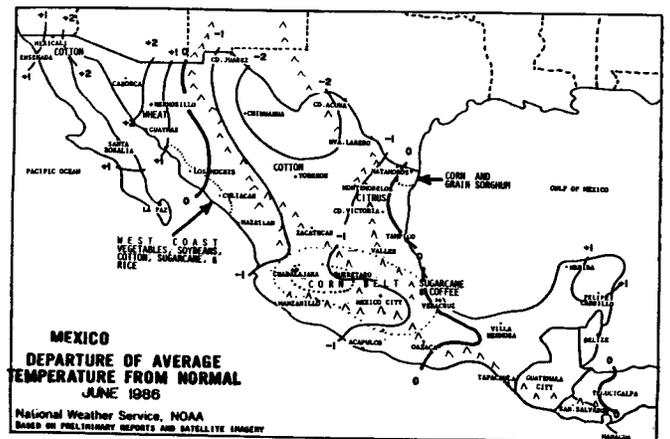
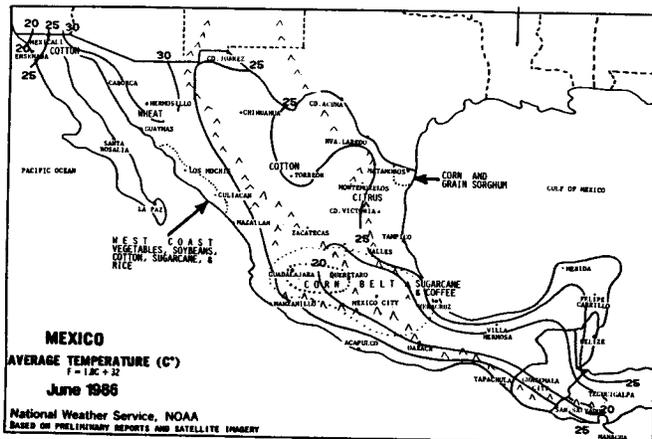
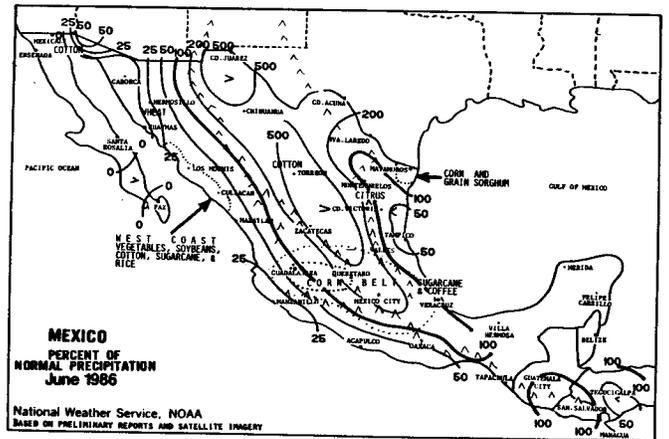
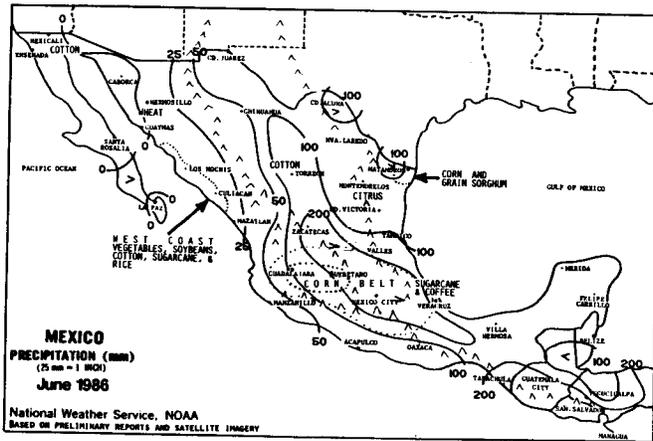
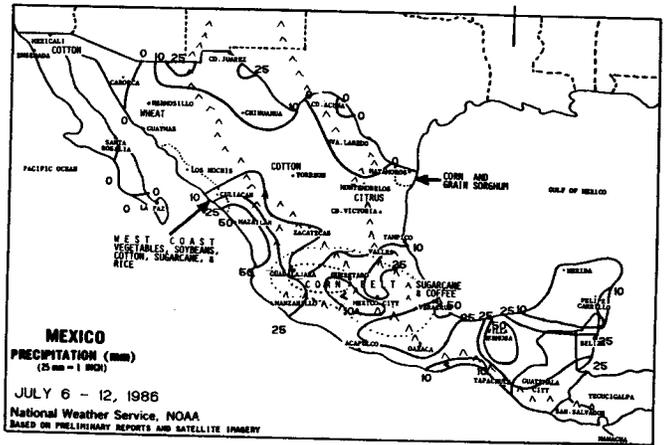
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

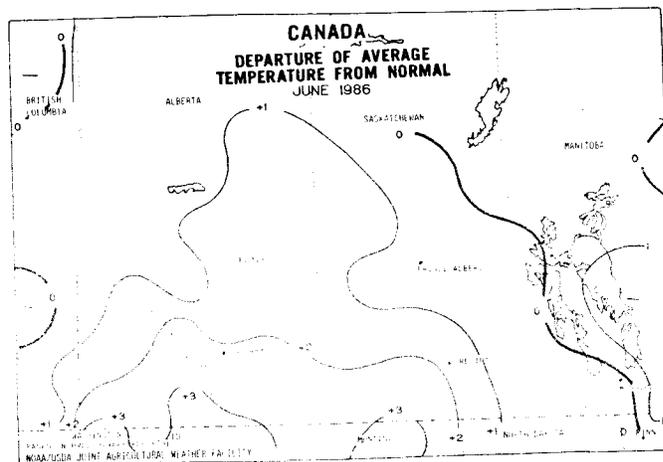
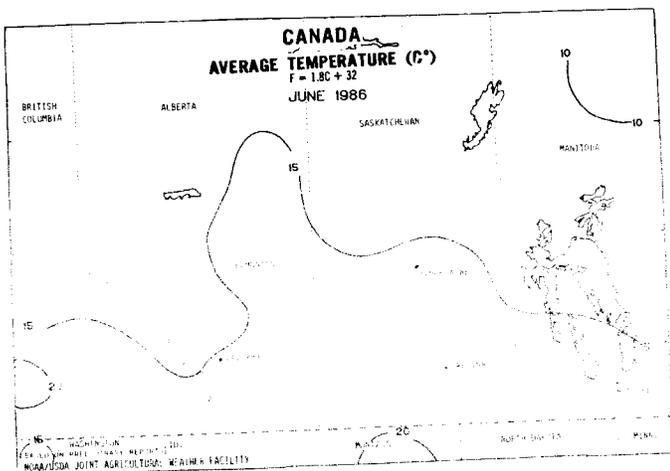
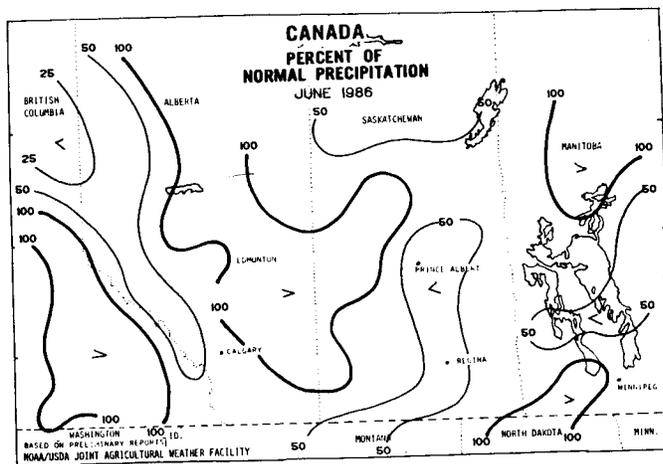
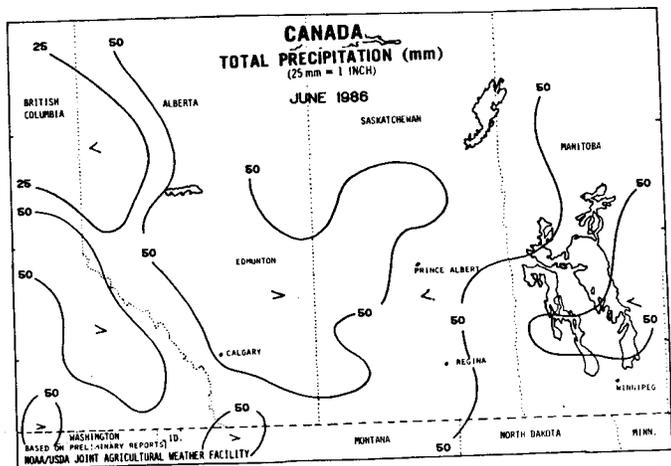
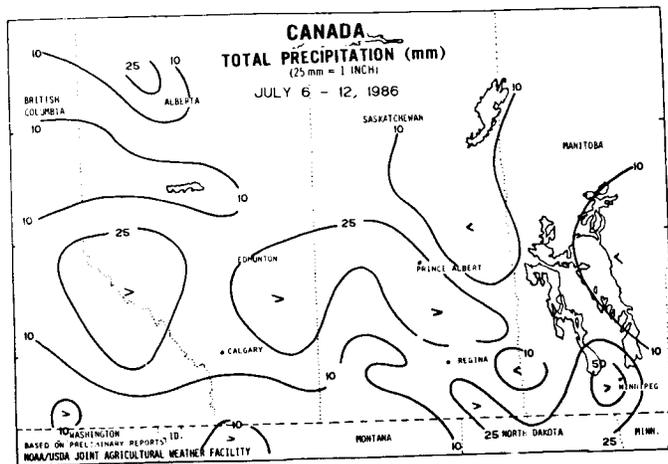
SOUTH AMERICA ... Dry, mild weather prevailed over Brazil's center-south region and Argentina's wheat areas. In Brazil, the recent dry weather helped late wheat planting in western Rio Grande do Sul where June rainfall was above average. Dryness returned to Parana where the wheat crop is more advanced in its development. June rainfall was below average, but earlier rains provided favorable moisture for wheat establishment. Rainfall normally decreases to a winter minimum in Parana, Sao Paulo, and surrounding states, but virtually no rain fell during June in these areas. The warm, dry weather promoted wheat growth but has restricted moisture reserves for the tropical crops. Unseasonable dryness also prevailed in Argentina's wheat areas, where June rainfall was below average, except in extreme eastern Buenos Aires, Entre Rios, and northern Santa Fe. Much above-normal June rainfall occurred in the northeast. The mild, dry weather in the wheat areas favored fieldwork, but moisture is limited for crop establishment.



MEXICO ... Shower activity continued over the principal crop areas. Weekly rainfall was again quite variable, but 10 to 45mm fell in most of the Southern Plateau corn belt. Light rain (less than 10mm) was confined to south-central portions of the corn belt. Corn's crop calendar ranges from just emerging to grain filling. Near to above-average June rainfall and periodic early July showers have provided favorable moisture for corn. The recent increase in rainfall along the western edge of the corn belt improved conditions following the drier-than-average June. Similarly, recent showers along the west coast farming region and western mountain watersheds have helped relieve the high irrigation needs during the earlier dry, warm weather. Mostly light rain fell this week in north-central cotton and grazing regions as well as in the northeast where sorghum is being harvested. Above average June rainfall promoted cotton development.



CANADA ... Cool, showery weather covered the Prairie grain belt. Weekly rainfall averaged 10 to 25mm across southern portions of the Prairie Provinces, except in Manitoba to the south of the lakes region where 25 to 70mm of rain fell. Substantial showers (20 to 50mm) also fell across northern grain areas of Saskatchewan and Alberta, providing beneficial moisture for crops entering the reproductive cycle. June rainfall was near to mostly below average in the Prairies with episodes of unfavorably hot weather causing stress on newly-emerging crops. Cooler weather during July has been more favorable for crop development. Weekly temperatures generally averaged about 2 degrees C below normal. Maximum temperatures in the low to mid-twenties and showers provided favorable weather conditions for grains advancing into heading and oilseeds in flowering.



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

Annual subscriptions: domestic \$25, foreign \$33 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C. and additional mailing offices.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor (Acting) Lyle Denny
Meteorologists Tom Heddinghaus
Ray McInturff, Jim Williams, Wes Byrd,
and Randall Taylor

Subscriptions (202) 447-7917 . . Cheryl Caleco

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
Editor Sharon Lee
National Agricultural Statistics Service
Agricultural Statistician Clif James
World Agricultural Outlook Board
Agricultural Weather Analysts . . Ray Motha,
Tom Puterbaugh, and Mark Brusberg

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

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

WEEKLY NEWS BULLETIN
SECOND CLASS

SECOND CLASS MAIL
POSTAGE AND FEES PAID
NOAA PERMIT NO.
ISSN 0043 1974