

WEEKLY WEATHER AND CROP BULLETIN

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

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

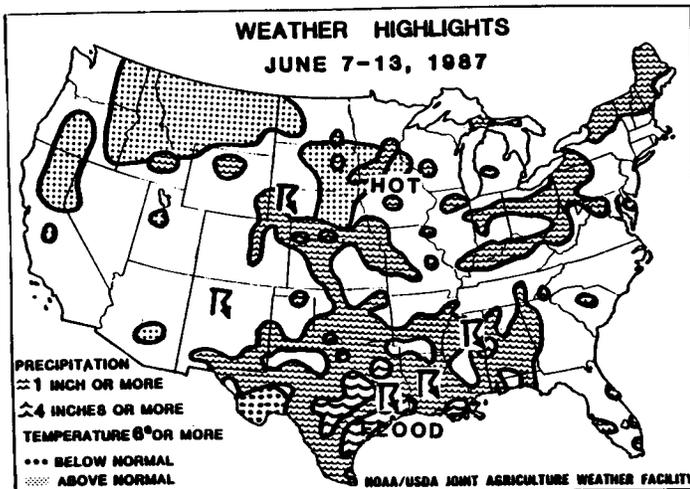
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June 16, 1987

National Weather Summary

June 7 to 13, 1987



reached through the Ohio Valley to the Mid-Atlantic States and from New York through New England. The cool weather pushed southward in the Plains and through the Great Lakes.

WEDNESDAY...Thunderstorms in Texas posed threats of flash flooding through much of Texas from the hill country to the gulf coast. Showers and thunderstorms were also widespread from the central Plains to the upper Mississippi Valley. A few thunderstorms reached from the upper Tennessee Valley into South Carolina. Cooler weather pushed into the middle Mississippi Valley and through the Mid-Atlantic States.

THURSDAY...Thunderstorms were widespread across southern and central Texas, where some of the thunderstorms produced heavy rain. Thundershowers were scattered over the Rockies, Mississippi Valley, Great Lakes, northern Maine, and Florida.

FRIDAY...Showers and thunderstorms were widespread from Texas into New England. Flooding was in south and southeast Texas. Thunderstorms were widely scattered over the Southeast.

SATURDAY...Severe thunderstorms reached from Oklahoma to New England. Thunderstorms were also spread from Texas into the Carolinas. Fair and hot weather prevailed over much of the rest of the Nation.

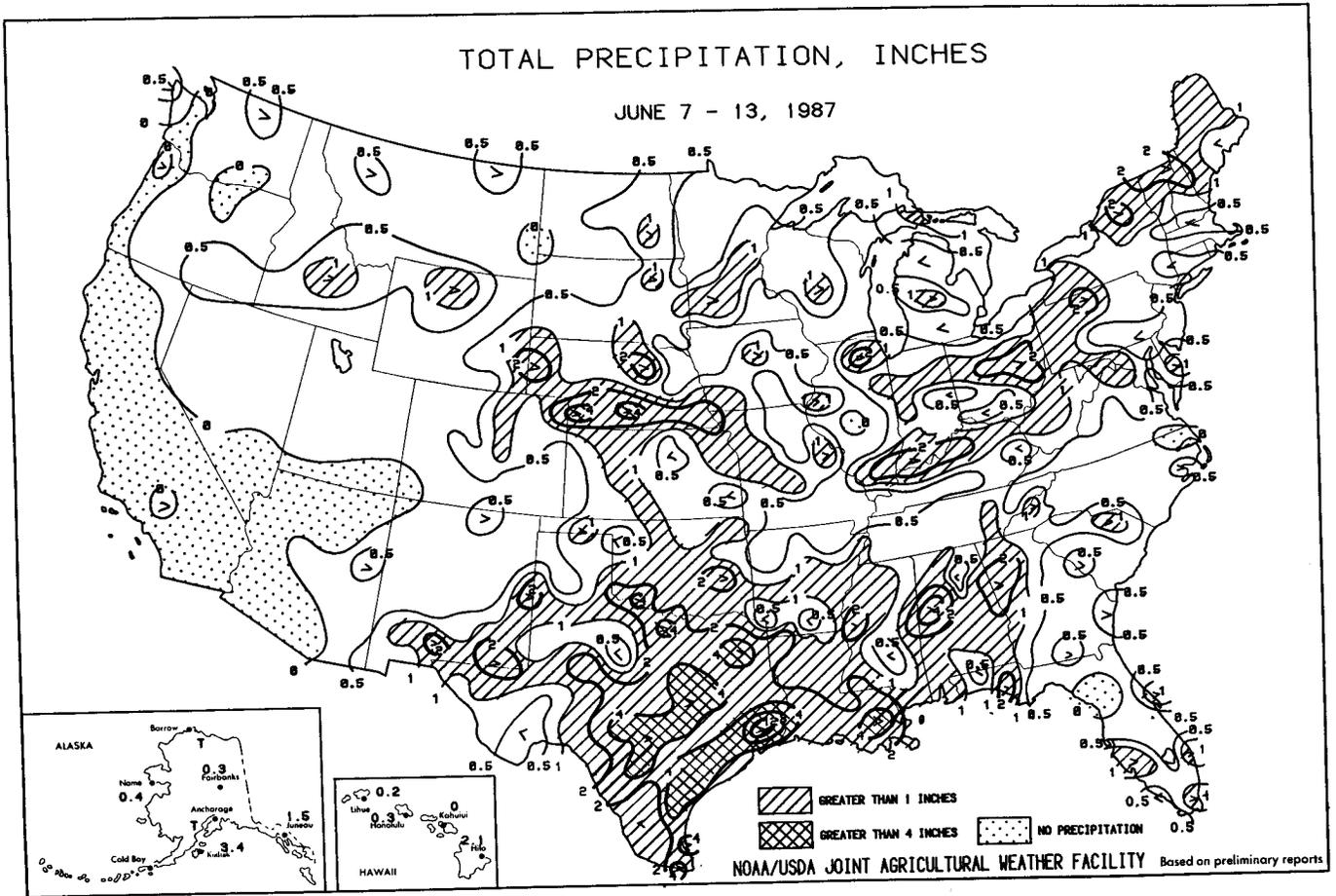
HIGHLIGHTS: Severe thunderstorms caused heavy rain and intermittent flooding across southeastern Texas. Scattered rain fell over the Corn Belt. Scattered thunderstorms became more numerous in the Southeast, while hot, dry weather covered most of the West and northern Great Plains at week's end.

SUNDAY...Showers and thunderstorms continued in southern Florida and southeastern Texas. Thunderstorms were widespread through the Rocky Mountains and scattered over the Intermountain region. Some heavy downpours fell in the southern Rockies. Thunderstorms also reached from the northern Great Plains, through the Great Lakes, to the east coast. Unusually warm weather continued in the upper Mississippi Valley.

MONDAY...Thunderstorms spread throughout Texas with heavy rainfall in the Southeast. Thunderstorms were frequent throughout the Rockies and across Nebraska. Heavy rain fell in parts of Nebraska and in the central and southern Rockies. Showers and thunderstorms covered the Northeast from the Ohio Valley and Great Lakes through New England. Cooler weather pushed into the northern Plains and west of the Rockies.

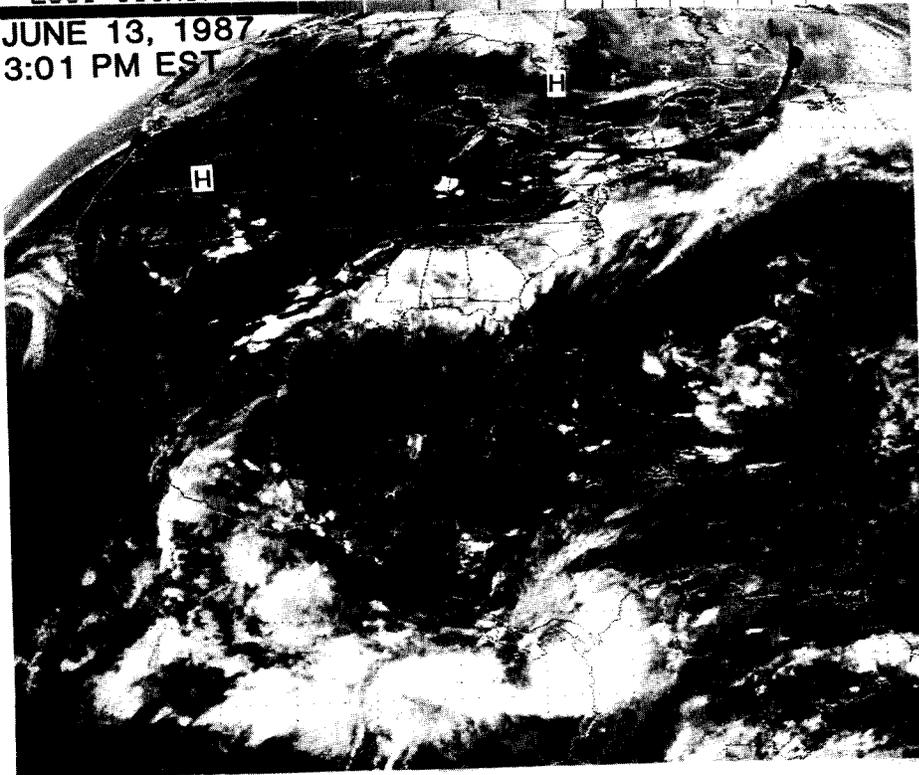
TUESDAY...Thunderstorms covered the Plains and the Rocky Mountains. Showers and thunderstorms also

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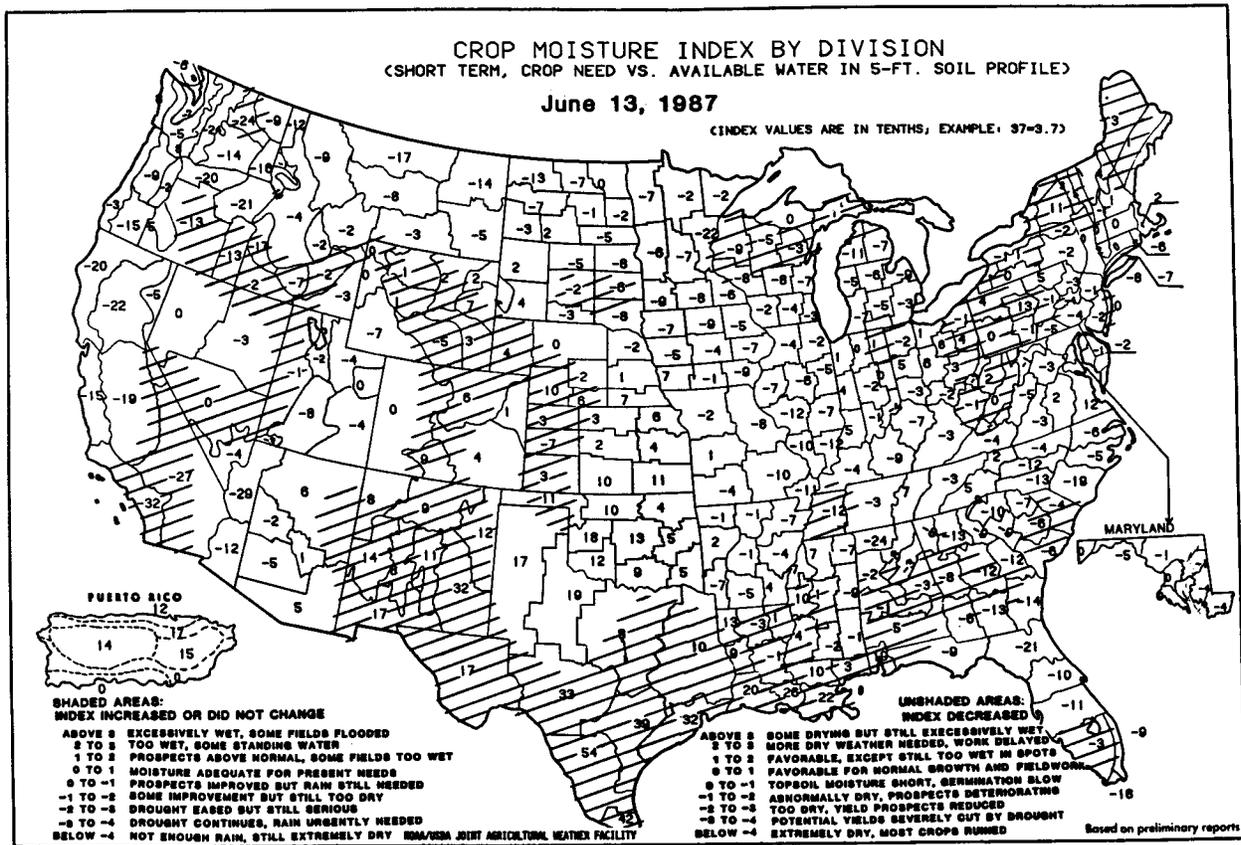
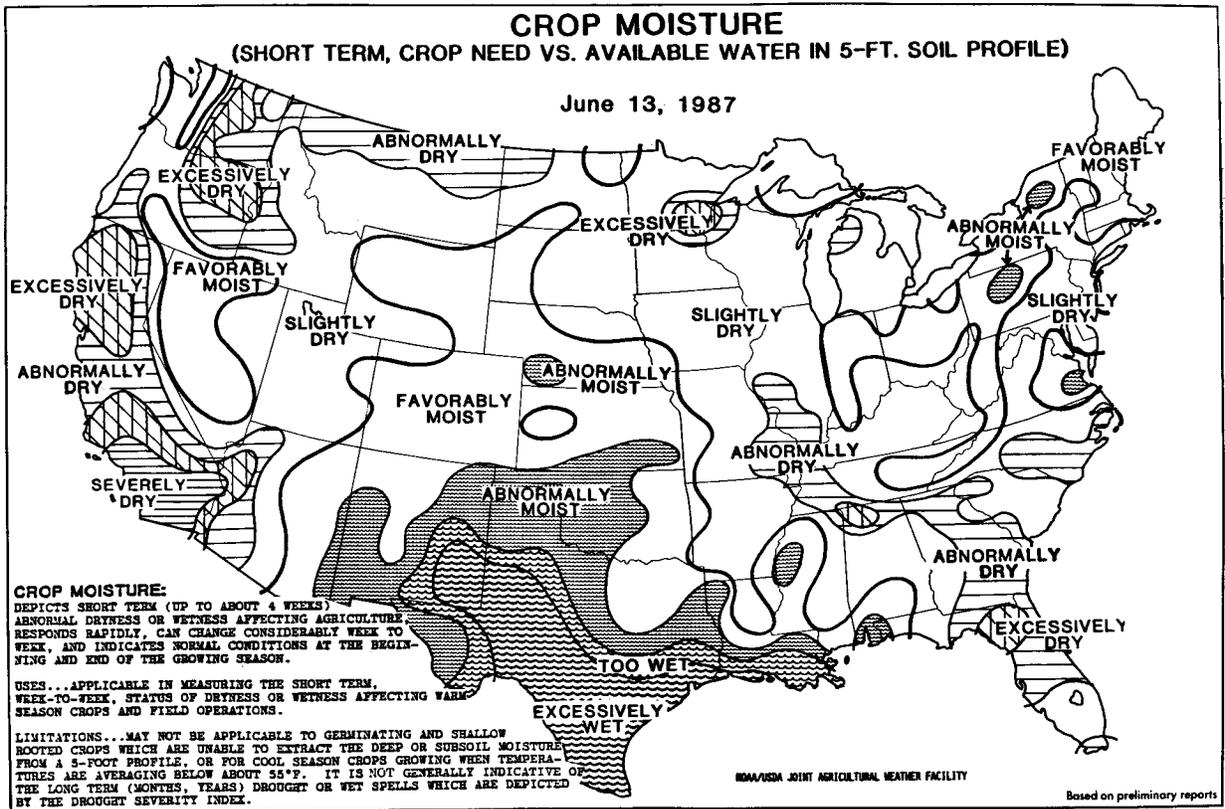
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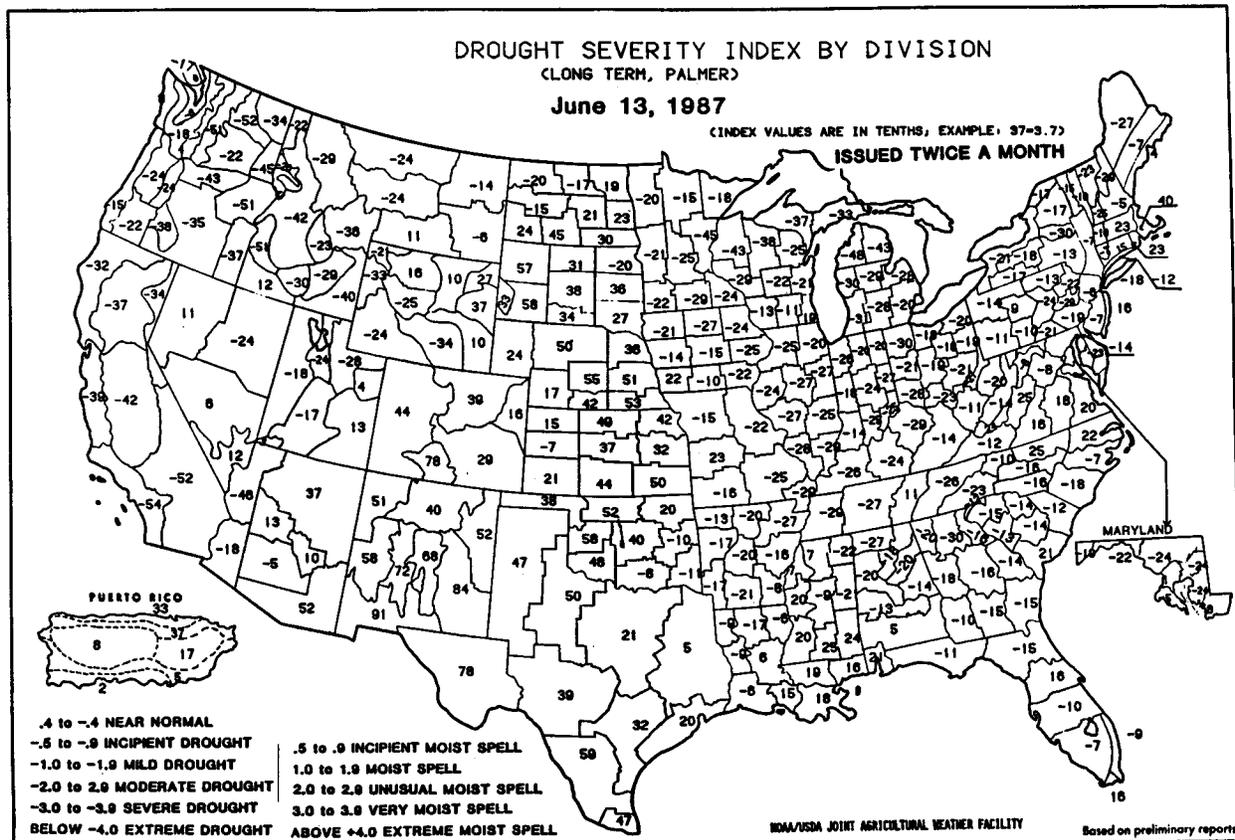
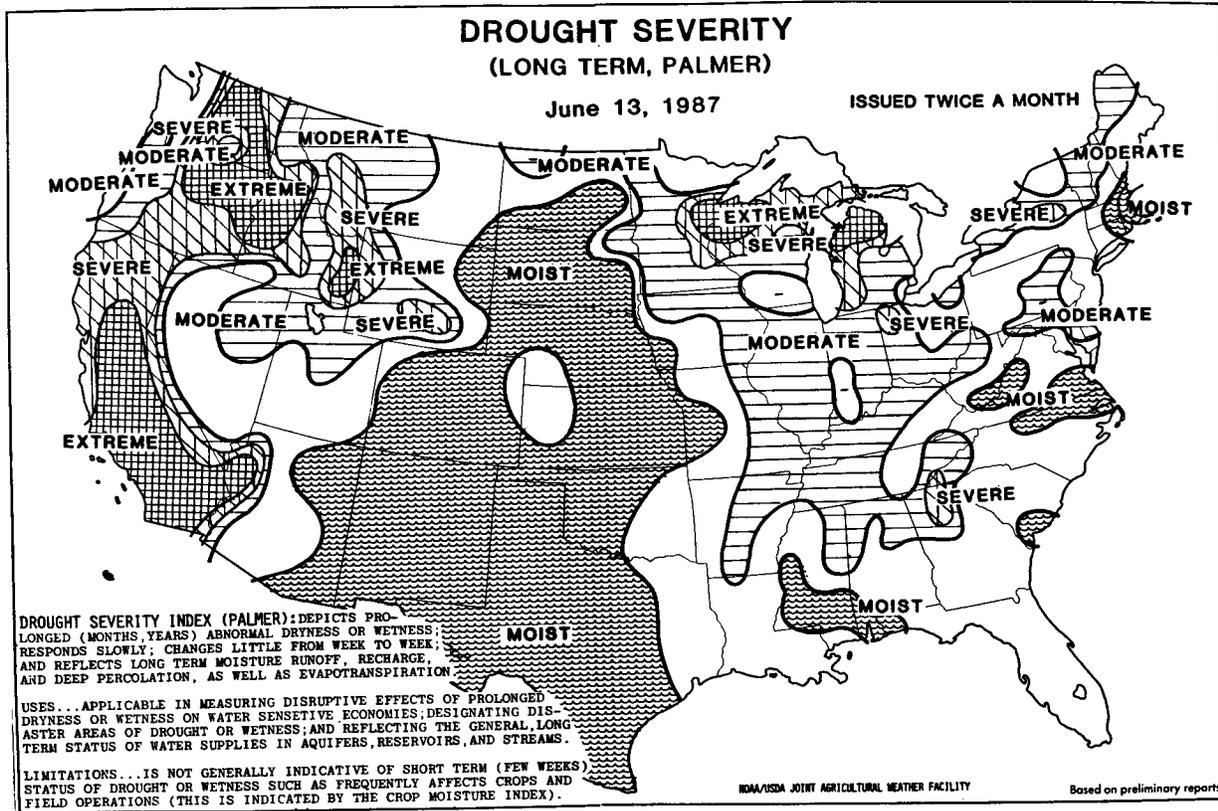
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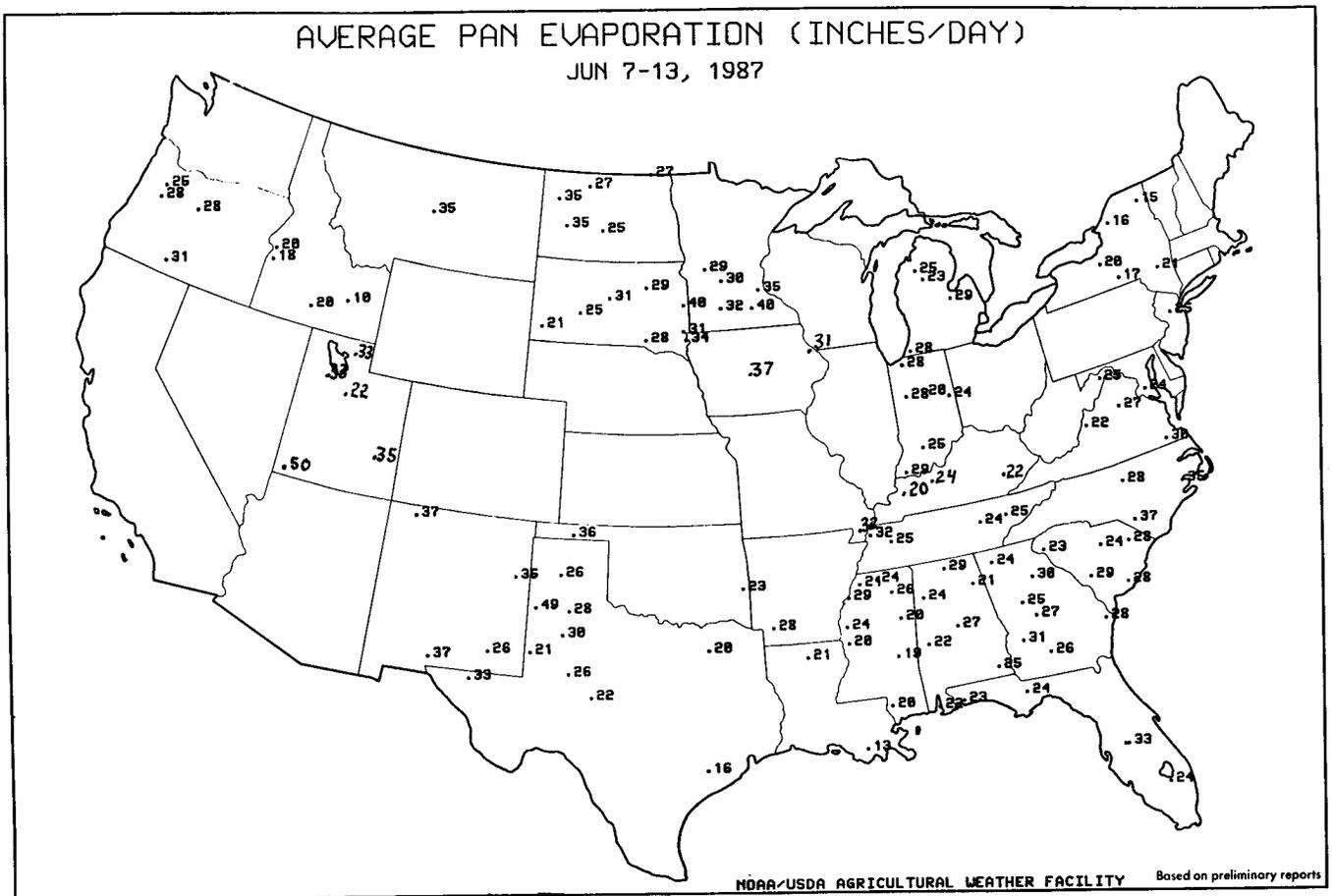
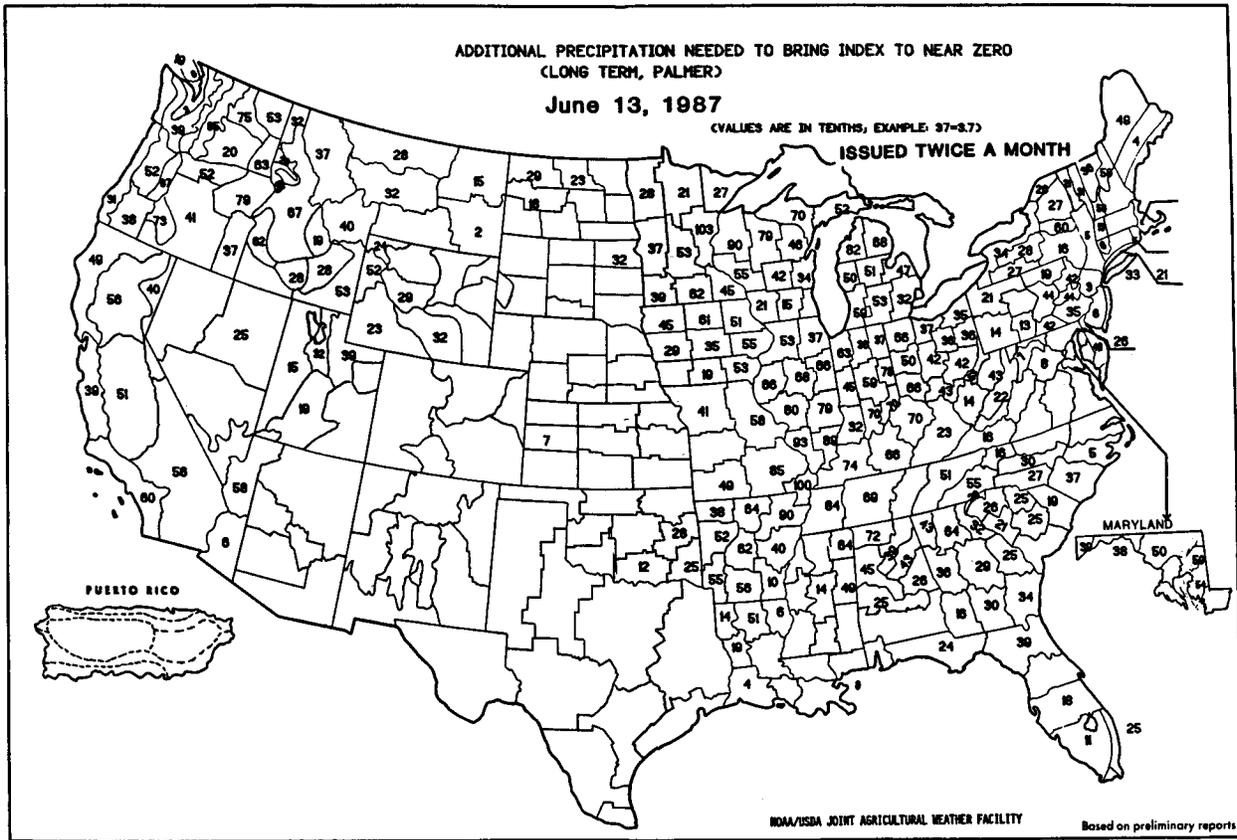


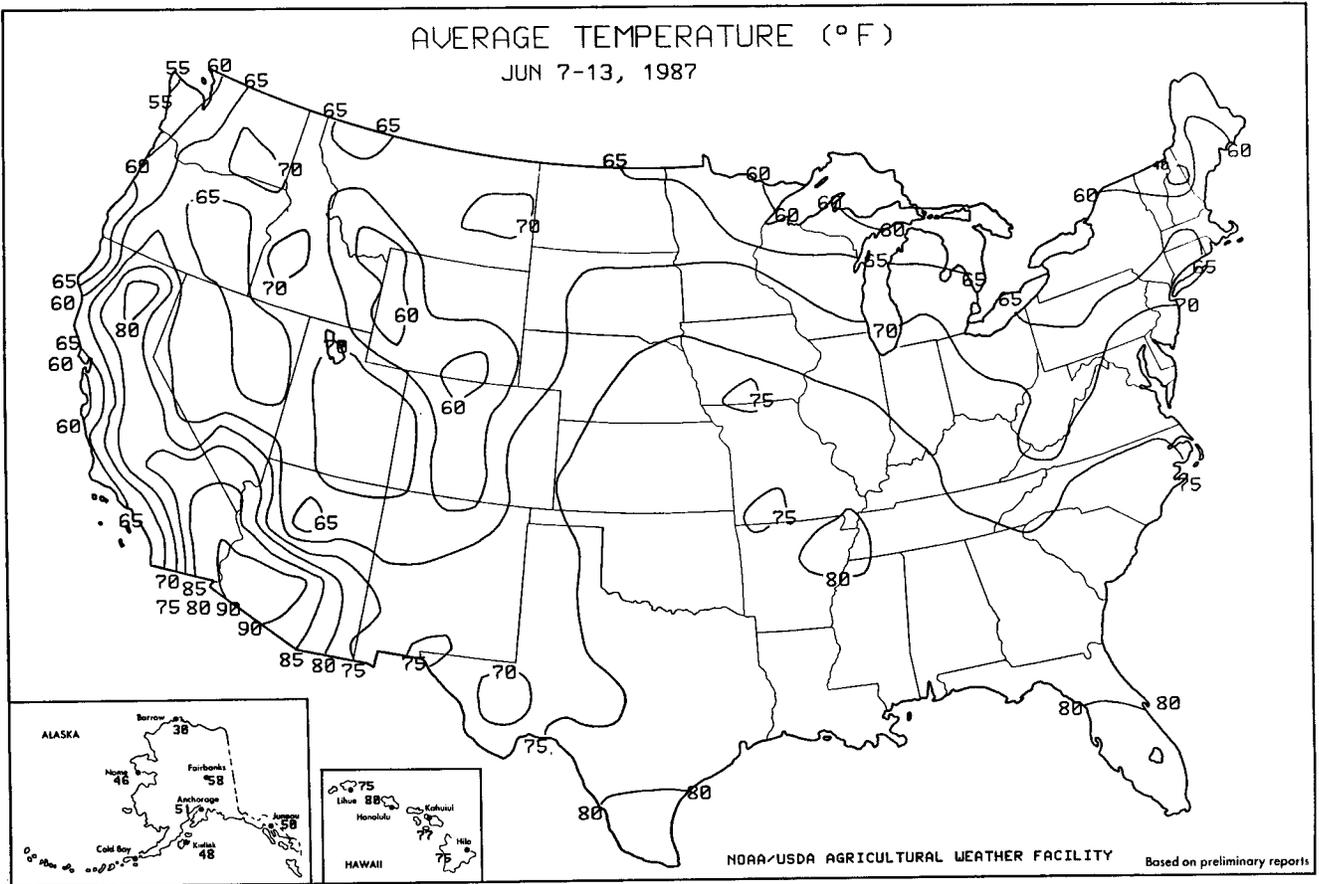
RAIN SPREADS FROM TEXAS AND ACROSS THE SOUTHEAST TO NEW ENGLAND.

CLEAR SKIES PREVAIL OVER MUCH OF THE REMAINDER OF THE NATION.

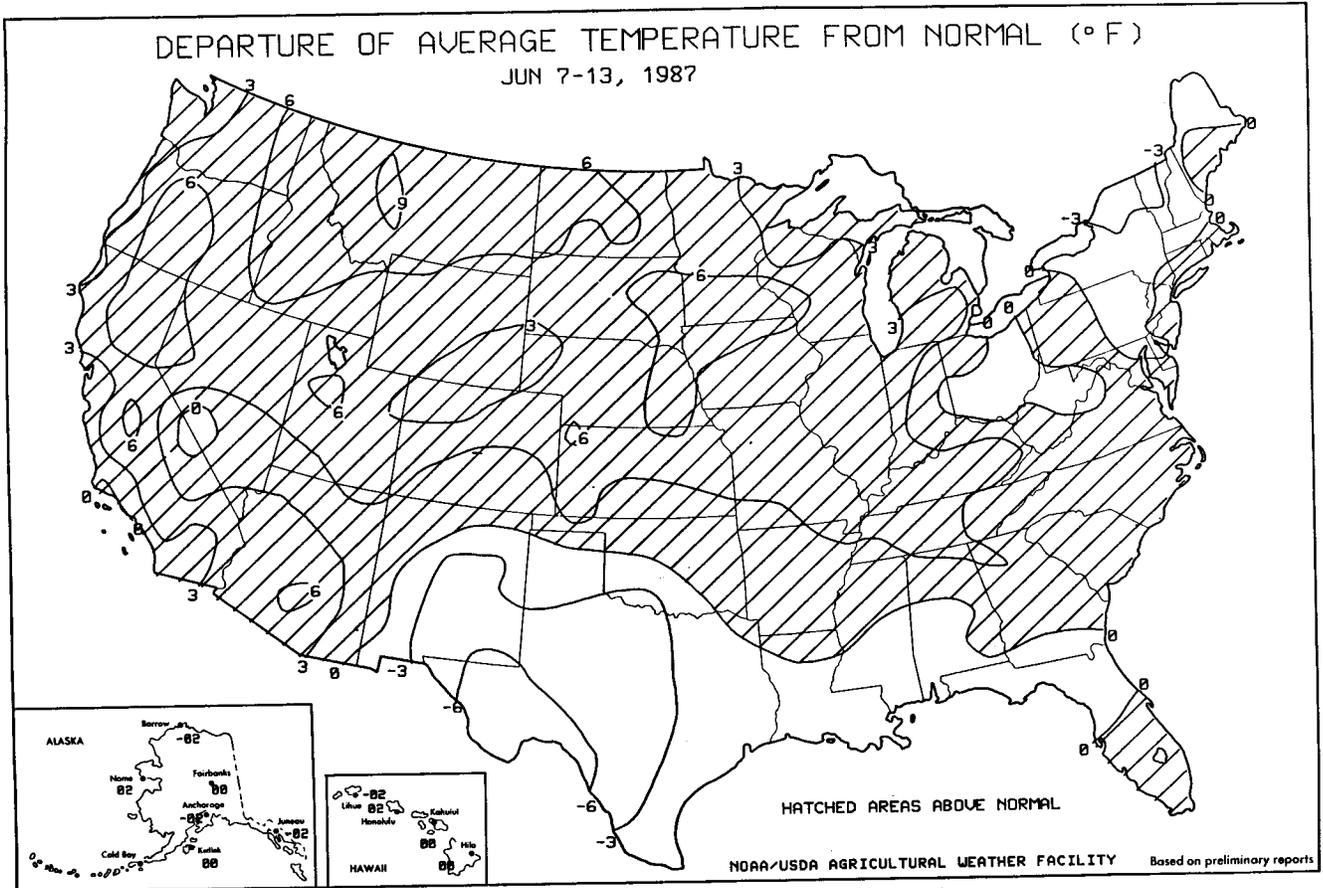


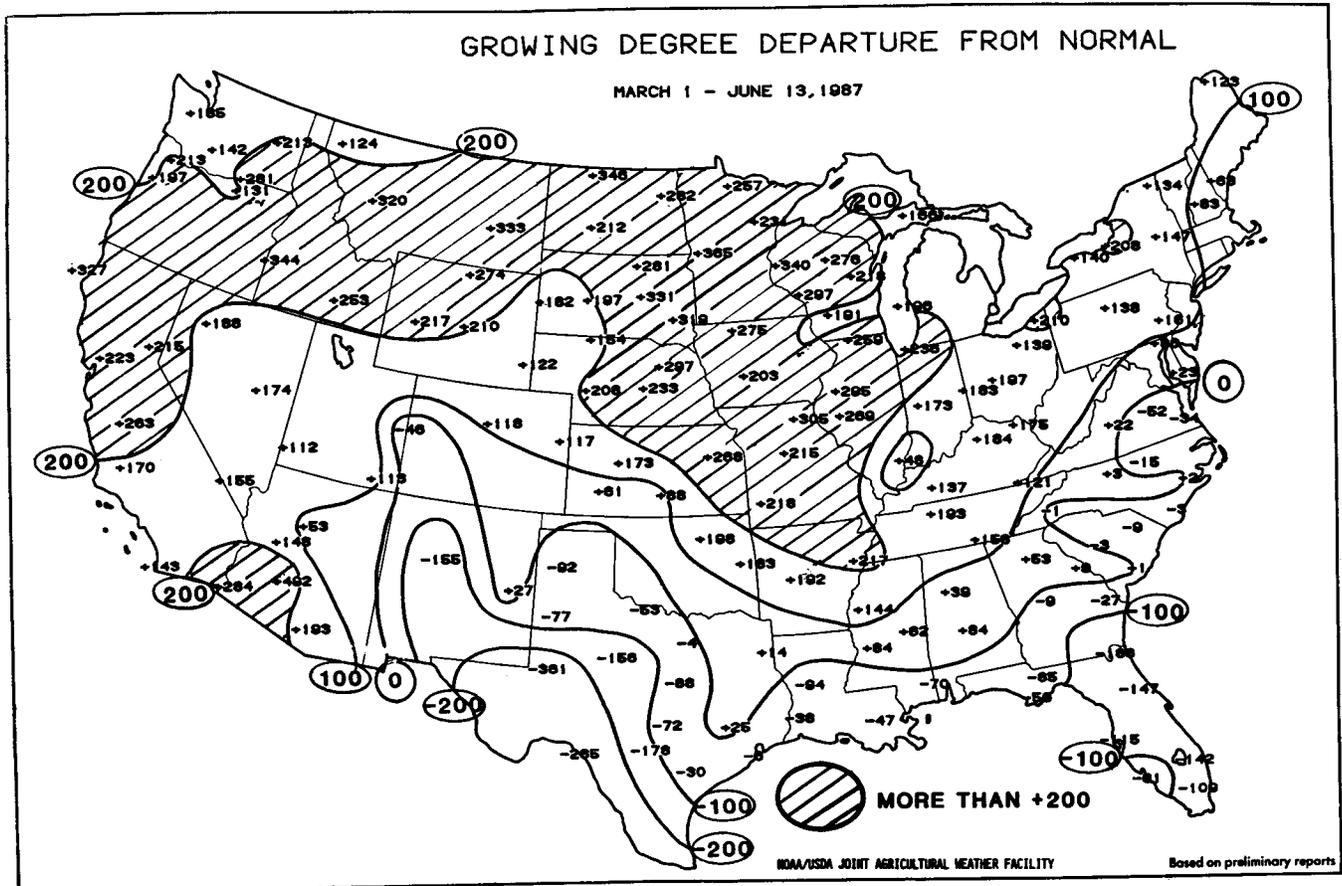
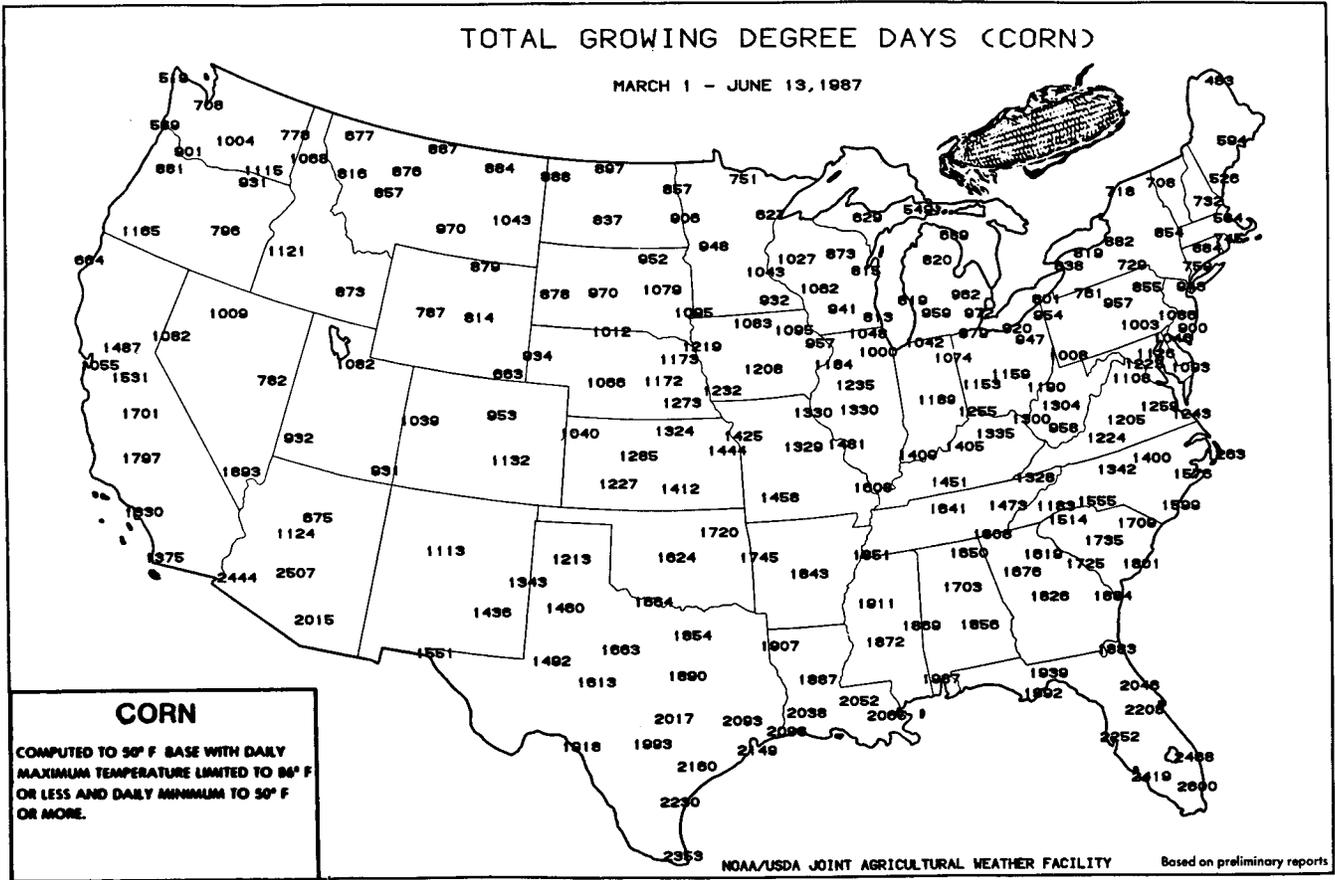




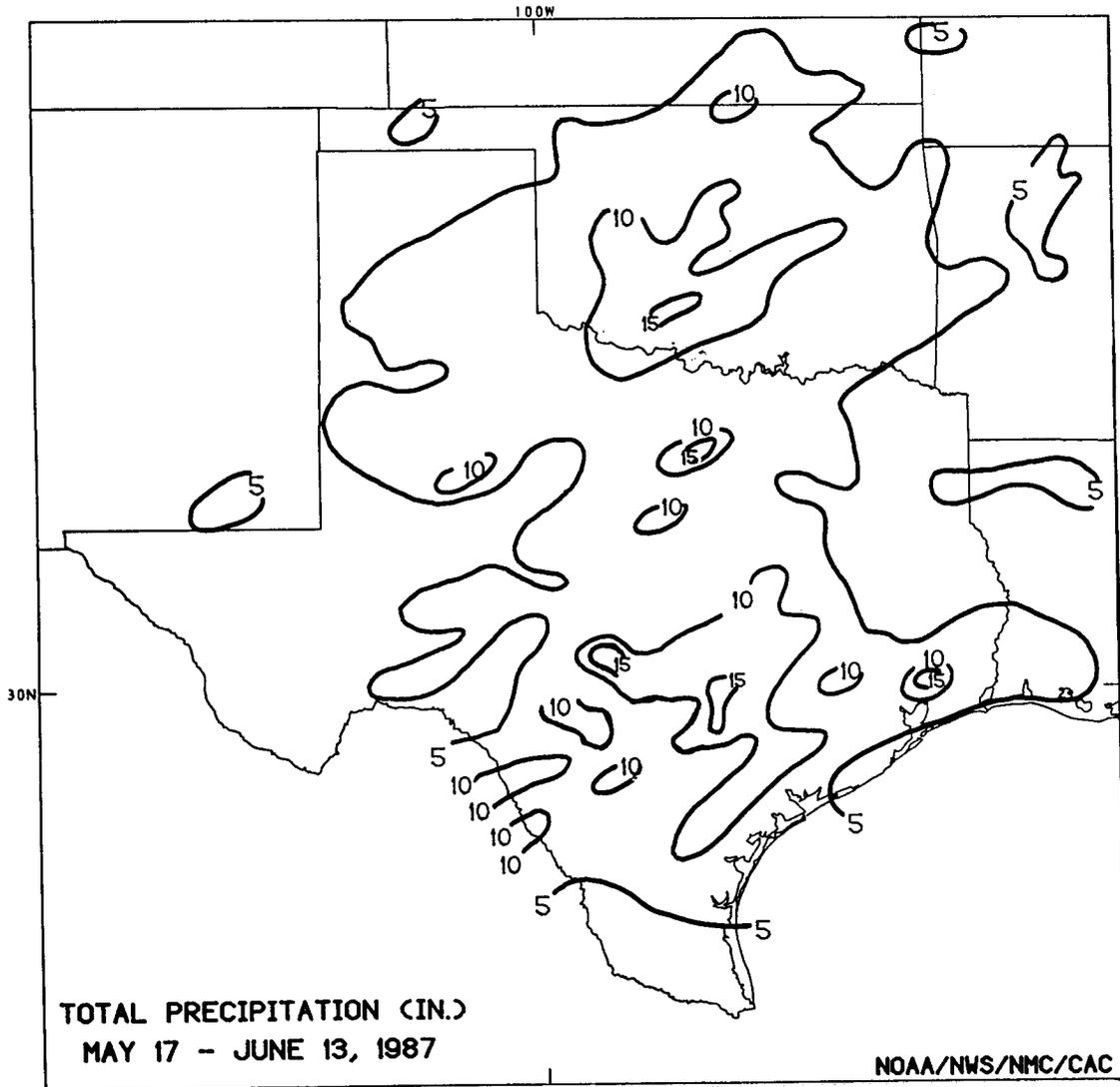


Point values may differ on these computerized maps from the reported values in the tables.





HEAVY RAIN IN TEXAS AND OKLAHOMA



Rainfall that accumulated to 12.6 inches inundated the coastal plains of southeastern Texas and extreme southwestern Louisiana last week, while lesser but still comparatively heavy amounts fell on already saturated areas of interior eastern Texas and southern Oklahoma. The heavy rains of the last 4 weeks have exceeded 10 inches at many locations in Texas and Oklahoma and have caused widespread flooding.

National Weather Data for Selected Cities

Weather Data for the Week Ending June 13, 1987

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 6	PCT. NORMAL SINCE JUNE 6	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	63	91	60	76	0	.4	-.4	.3	.6	42	21.2	77	92	43	3	0	2	0
MOBILE	87	69	89	66	78	-2	1.9	.9	1.2	2.8	141	35.2	123	98	53	0	0	2	2
MONTGOMERY	91	65	94	60	78	0	1.2	.4	1.2	1.2	83	28.5	117	97	41	6	0	1	1
AK ANCHORAGE	58	44	61	38	51	-2	T	T	T	T	100	4.1	106	86	48	0	0	1	0
BARROW	33	28	37	25	30	-1	T	T	T	T	36	.4	43	95	82	0	7	2	0
FAIRBANKS	69	48	76	41	59	0	.3	0	.1	.5	98	1.5	55	77	26	0	0	3	0
JUNEAU	54	46	57	45	50	-2	1.5	.9	.9	2.4	194	16.9	93	92	66	0	0	6	1
KODIAK	51	44	60	43	48	-1	3.4	2.4	1.4	4.1	213	33.3	130	95	78	0	0	6	2
NOME	53	39	63	33	46	2	.4	.2	.4	.4	95	2.8	83	85	50	0	0	2	0
AZ PHOENIX	107	80	111	77	93	8	0	0	0	T	33	3.2	127	31	10	7	0	0	0
PRESCOTT	88	53	95	49	71	5	.2	.2	.1	.3	775	4.9	80	56	15	2	0	2	0
TUCSON	103	70	107	68	87	5	0	0	0	.2	4.8	187	46	12	7	0	0	0	0
YUMA	105	74	110	70	90	4	0	0	0	0	0	.4	49	43	13	7	0	0	0
AR FORT SMITH	88	68	95	60	78	2	T	-.9	T	1.0	56	18.4	97	97	53	2	0	2	0
LITTLE ROCK	89	70	92	64	80	2	1.1	.2	1.1	1.1	64	18.4	74	78	50	4	0	1	1
CA BAKERSFIELD	96	65	101	63	81	4	0	0	0	0	120	3.7	97	64	22	7	0	0	0
EUREKA	68	53	61	52	56	2	T	-.2	T	T	3	17.4	79	90	76	0	0	0	0
FRESNO	98	64	103	63	81	7	0	0	0	T	20	6.6	95	69	21	7	0	0	0
LOS ANGELES	68	60	70	58	64	-1	T	0	T	.1	2.9	35	95	73	0	0	0	0	0
REDDING	98	64	108	61	81	6	0	0	0	0	19.1	79	62	17	6	0	0	0	0
SACRAMENTO	94	56	101	54	75	4	0	0	0	T	8.8	83	84	24	6	0	0	0	0
SAN DIEGO	68	61	70	60	65	-1	T	0	T	0	5.1	83	85	73	0	0	0	0	0
SAN FRANCISCO	71	53	76	50	62	1	0	0	0	0	8.5	69	91	52	1	0	0	0	0
CO DENVER	83	56	90	53	69	4	1.9	1.5	1.8	1.9	263	10.8	148	80	30	1	0	3	1
GRAND JUNCTION	87	58	95	53	73	2	T	-.1	T	T	18	5.4	153	64	20	3	0	1	0
PUEBLO	90	54	96	50	72	2	.3	.1	.2	.5	104	5.3	130	90	24	5	0	2	0
CT BRIDGEPORT	75	58	83	50	67	0	.2	-.4	.2	.9	74	16.9	91	85	48	0	0	2	0
HARTFORD	77	55	86	43	66	-2	.7	-.1	.3	2.6	176	21.2	108	90	40	0	0	4	0
DC WASHINGTON	84	62	92	56	73	0	1.5	.8	1.2	2.5	171	15.8	95	85	47	1	0	2	1
FL APALACHICOLA	87	70	90	67	79	-1	.2	-.8	.2	.6	34	23.6	123	94	57	1	0	1	0
DAYTONA BEACH	86	70	92	66	78	0	.9	-.6	.9	1.7	66	21.4	128	89	54	1	0	1	1
JACKSONVILLE	91	63	95	58	77	-2	.4	-1.0	.3	.4	16	18.1	93	97	39	4	0	2	0
KEY WEST	87	80	88	79	83	1	T	-1.2	T	T	1	13.8	115	83	67	0	0	1	0
MIAMI	88	77	89	74	83	2	.7	-1.5	.5	.8	20	13.6	69	83	55	0	0	3	1
ORLANDO	92	70	96	68	81	0	T	-1.5	T	.3	9	16.5	96	93	42	5	0	1	0
TALLAHASSEE	91	66	94	62	78	-1	.2	-1.2	.2	1.2	47	29.8	110	93	41	4	0	2	0
TAMPA	91	72	93	67	81	1	.2	-.9	.2	.4	18	20.4	129	92	48	3	0	1	0
WEST PALM BEACH	86	75	87	70	81	1	1.2	-.7	1.0	1.2	36	19.6	95	90	60	0	0	3	1
GA ATLANTA	88	68	92	65	78	3	2.3	1.5	1.8	2.7	194	23.8	95	80	42	3	0	2	1
AUGUSTA	91	66	96	58	78	2	.6	-.3	.6	1.7	105	24.5	114	94	38	5	0	1	1
MACON	92	65	96	59	79	0	.4	-.5	.4	.5	30	22.1	97	95	35	6	0	1	0
SAVANNAH	91	68	97	63	80	2	.9	-.3	.9	1.3	59	24.0	119	91	40	4	0	1	1
HI HILO	81	68	83	67	75	0	2.1	.7	1.1	4.8	179	48.0	78	94	63	0	0	7	1
HONOLULU	87	73	89	71	80	2	.3	.2	.3	.4	148	3.0	23	79	47	0	0	1	0
KAHULUI	84	69	86	63	77	0	0	-.1	0	.1	90	12.3	109	84	53	0	0	0	0
LIHUE	81	70	82	60	75	-2	.2	-.2	.1	.2	30	11.0	51	86	67	0	0	2	0
ID BOISE	86	58	99	54	72	8	.4	.2	.2	.4	91	5.5	85	74	23	3	0	4	0
LEWISTON	86	57	94	51	72	7	.2	-.2	.2	.2	28	3.8	58	69	27	3	0	1	0
POCATELLO	80	50	91	46	65	4	.6	.3	.4	.6	114	5.6	99	92	37	1	0	3	0
IL CHICAGO	84	58	93	44	71	4	1.0	0	1.0	1.6	85	10.3	72	90	40	3	0	1	1
MOLINE	87	63	98	53	75	5	.1	-.9	0	.3	14	9.5	61	80	40	4	0	2	0
PEORIA	86	62	94	54	74	4	.1	-.8	.1	2.0	120	9.8	65	87	40	3	0	1	0
QUINCY	85	66	93	58	75	4	.3	-.7	.3	1.5	84	10.2	64	87	48	2	0	1	0
ROCKFORD	85	58	94	46	72	4	.7	-.4	.7	.9	45	10.2	68	89	39	2	0	2	1
SPRINGFIELD	88	63	95	54	76	4	0	-.8	0	1.1	72	8.5	56	83	39	3	0	0	0
IN EVANSVILLE	88	65	92	58	77	3	2.7	1.9	2.7	4.3	282	16.9	82	90	53	3	0	2	1
FORT WAYNE	82	59	88	49	71	2	1.0	.1	.7	2.1	135	11.7	75	89	44	0	0	3	1
INDIANAPOLIS	83	60	90	54	72	1	.3	-.6	.3	2.2	132	11.3	64	94	44	1	0	2	0
SOUTH BEND	83	60	89	47	71	3	.8	-.1	.6	1.4	88	12.5	78	88	38	0	0	2	1
IA DES MOINES	86	65	97	58	75	5	.2	-.8	.2	.2	12	11.7	88	82	42	3	0	2	0
SIOUX CITY	89	65	99	63	77	7	.2	-.8	.2	.2	10	11.5	107	81	38	4	0	1	0
WATERLOO	86	61	100	58	73	6	.2	-.8	.1	.2	9	8.5	64	80	33	3	0	2	0
KS CONCORDIA	89	67	98	63	78	6	.3	-.7	.1	.5	27	19.3	169	88	43	3	0	3	0
DODGE CITY	88	63	95	60	75	2	.7	0	.5	.7	56	10.5	120	89	40	2	0	4	0
GOODLAND	89	60	93	55	74	6	.4	-.3	.1	.4	29	8.2	117	89	29	4	0	4	0
TOPEKA	88	68	94	63	78	6	1.7	.5	1.7	2.3	105	18.3	137	90	51	3	0	2	1
WICHITA	89	66	99	57	77	2	.5	-.5	.2	1.1	65	18.6	161	94	46	3	0	3	0
KY BOWLING GREEN	87	65	89	58	76	2	T	-1.0	T	.5	28	16.4	67	95	43	0	0	1	0
LEXINGTON	85	63	89	56	74	3	1.9	1.0	1.1	2.7	153	14.8	68	88	46	0	0	2	2
LOUISVILLE	86	64	90	59	75	2	2.2	1.4	1.4	2.9	186	15.2	72	83	45	1	0	3	2
LA ALEXANDRIA	85	72	89	68	79	-2	1.0	.1	.5	1.0	57	27.6	97	90	61	0	0	3	1
BATON ROUGE	86	71	89	68	79	-1	1.0	.4	1.0	1.0	88	27.7	108	95	61	0	0	2	1
LAKE CHARLES	84	72	88	68	78	-1	3.0	2.0	1.6	4.1	222	25.0	112	97	74	0	0	7	2
NEW ORLEANS	86	71	88	68	78	-1	5.1	4.0	2.1	8.6	454	34.9	133	99	68	0	0	5	4

Based on 1951-80 normals.

Weather Data for the Week Ending June 13, 1987

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 6	PCT. NORMAL SINCE JUNE 6	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	87	69	90	66	78	-1	3.6	2.8	2.1	4.5	285	23.1	104	97	56	1	0	5	3	
ME CARIBOU	66	46	72	38	56	-3	.5	-.2	.2	1.2	92	10.0	73	99	53	0	0	3	0	
PORTLAND	72	53	79	44	62	0	1.5	-.8	.7	2.3	175	20.9	106	87	48	0	0	4	2	
MD BALTIMORE	83	59	91	50	71	0	2	-.8	1.3	79	16.3	90	91	48	1	0	1	0		
SALISBURY	85	60	92	49	72	2	1.5	-.7	.8	1.7	117	20.0	106	96	45	1	0	3	1	
MA BOSTON	75	56	81	50	65	-1	.2	-.5	1.1	2.1	156	25.6	126	86	41	0	0	3	0	
CHATHAM	68	56	71	50	62	2	.2	-.4	.1	.4	34	26.8	125	86	66	0	0	4	1	
MI ALPENA	74	51	86	39	62	2	.2	-.2	.5	1.8	136	7.4	64	98	58	0	0	3	0	
DETROIT	81	58	89	46	69	2	.5	-.3	.4	3.2	219	12.8	96	84	38	0	0	2	0	
FLINT	82	55	90	41	68	4	.4	-.4	.4	.7	50	7.9	64	95	42	1	0	3	0	
GRAND RAPIDS	82	56	89	42	69	3	.5	-.4	.3	.6	36	6.2	44	85	35	0	0	2	0	
HOUGHTON LAKE	75	53	86	32	64	3	.2	-.5	.1	.2	17	5.2	47	85	44	0	1	3	0	
LANSING	81	55	89	40	68	3	.2	-.8	.1	.8	45	6.0	49	87	36	0	0	2	0	
MARQUETTE	73	46	80	35	60	1	.3	-.5	.2	.9	66	12.2	100	94	46	0	0	2	0	
MISKOGON	77	54	84	39	66	1	.2	-.4	.2	.6	60	9.7	73	98	41	0	0	1	0	
SAULT ST. MARIE	67	46	74	35	57	-1	1.4	-.6	1.2	1.8	125	8.7	70	98	60	0	0	3	1	
MN ALEXANDRIA	81	56	96	46	69	5	.3	-.7	.2	.3	19	7.0	73	88	38	1	0	2	0	
DULUTH	76	46	87	33	61	3	.7	-.3	.4	.7	42	6.4	60	94	43	0	0	2	0	
INT'L FALLS	78	48	92	37	63	4	.3	-.5	.3	.8	56	5.8	71	94	36	1	0	1	0	
MINNEAPOLIS	85	60	99	50	73	6	.5	-.4	.5	.5	29	4.0	39	86	33	3	0	3	0	
ROCHESTER	83	58	98	48	71	5	.3	-.5	.2	.4	24	5.6	52	90	36	2	0	4	0	
MS GREENWOOD	89	69	93	64	79	1	1.4	-.7	1.3	1.6	110	24.1	87	91	48	5	0	2	1	
JACKSON	89	67	92	61	78	-1	.4	-.3	.3	.4	29	27.0	101	96	48	5	0	3	0	
MERIDIAN	88	64	91	58	76	-1	1.3	-.5	.7	1.7	119	32.4	119	93	46	3	0	2	2	
MO CAPE GIRARDEAU	90	69	94	59	80	-	.2	-.7	.2	.9	58	13.0	60	88	45	5	0	1	0	
COLUMBIA	88	65	94	61	77	4	.4	-.9	.8	.8	45	10.2	60	91	52	2	0	1	0	
KANSAS CITY	88	66	94	62	77	3	1.5	-.4	1.0	2.3	113	15.2	102	88	50	3	0	4	1	
SAINT LOUIS	88	68	93	62	78	4	.3	-.6	.2	1.3	82	10.6	67	79	45	3	0	4	0	
SPRINGFIELD	87	64	93	55	75	3	.2	-.9	.2	.5	23	19.3	110	96	50	2	0	3	0	
MT BILLINGS	81	58	93	54	70	8	.1	-.5	.1	.2	16	6.3	79	80	36	2	0	2	0	
GLASGOW	84	55	94	49	69	7	.5	-.1	.5	.5	46	4.1	96	72	24	2	0	2	0	
GREAT FALLS	82	55	92	47	69	8	.4	-.3	.4	.8	65	6.2	78	67	28	1	0	1	0	
HAVRE	84	53	92	47	68	7	.7	-.5	.7	1	2.7	50	74	23	2	0	2	0		
HELENA	82	54	90	44	68	9	.3	-.2	.3	.4	46	4.3	79	84	34	1	0	2	0	
KALISPELL	81	47	89	39	64	7	.3	-.3	.2	.5	46	6.7	92	90	27	0	0	2	0	
MILES CITY	84	58	95	53	71	7	.7	-.7	.7	.5	2	5.3	79	73	26	2	0	1	0	
MISSOULA	84	48	93	40	66	8	.2	-.3	.1	.2	17	3.8	59	86	24	1	0	3	0	
NE GRAND ISLAND	89	64	98	60	76	6	.4	-.5	.3	.4	25	14.1	131	90	45	3	0	3	0	
LINCOLN	91	66	101	63	79	8	.9	-.0	.4	1.4	78	14.7	123	89	46	4	0	3	0	
NORFOLK	87	63	97	60	75	6	.2	-.9	.2	.2	9	14.8	139	86	40	4	0	3	0	
NORTH PLATTE	86	59	93	53	72	6	2.3	1.4	1.3	2.3	141	9.9	113	93	44	3	0	3	2	
OMAHA	86	66	95	64	76	4	.1	-.9	.1	1.0	52	14.5	115	83	48	2	0	2	0	
SCOTT'S BLUFF	81	54	93	52	67	1	3.0	2.3	2.7	3.0	223	14.5	201	92	41	1	0	2	1	
VALENTINE	84	58	96	54	71	5	.7	.0	.4	.7	51	8.9	118	84	36	3	0	3	0	
NV ELY	80	42	89	38	61	4	.1	-.1	.0	.1	16	5.0	108	81	23	0	0	2	0	
LAS VEGAS	100	70	100	60	85	3	.7	.0	.7	.1	3.3	192	44	13	7	0	0	0	0	
RENO	87	50	96	47	68	7	.4	.3	.4	.5	272	5.4	128	79	19	2	0	2	0	
WINNEMOCCA	84	49	98	45	67	5	.3	-.1	.3	.3	79	6.6	158	86	23	2	0	2	0	
NH CONCORD	75	49	86	35	62	-2	.7	.0	.3	1.9	149	14.2	92	94	48	0	0	3	0	
NJ ATLANTIC CITY	83	56	92	44	70	2	.1	-.5	.1	.9	77	20.8	115	91	45	1	0	2	0	
NM ALBUQUERQUE	84	58	92	54	71	-3	.1	.0	.1	.1	63	3.0	133	79	27	2	0	3	0	
CLOVIS	83	62	90	58	72	-1	1.7	1.2	.8	2.1	190	7.3	135	83	43	1	0	4	2	
ROSWELL	85	62	94	61	74	-3	1.0	-.8	.5	3.1	824	7.3	274	94	43	2	0	4	1	
NY ALBANY	74	53	84	41	64	-2	.4	-.4	.2	1.7	120	14.0	92	96	49	0	0	3	0	
BINGHAMTON	71	52	79	45	62	-1	.7	-.2	.3	1.8	118	12.9	83	93	54	0	0	4	0	
BUFFALO	73	56	78	48	65	0	1.9	1.3	1.6	2.2	183	14.3	93	92	47	0	0	3	1	
NEW YORK	80	62	90	57	71	1	.1	-.6	.1	1.1	81	17.7	94	87	50	1	0	2	0	
ROCHESTER	73	54	80	46	63	-2	.7	-.1	.4	1.4	117	10.8	79	95	54	0	0	3	0	
SYRACUSE	73	53	80	46	63	-2	.7	-.2	.4	1.6	106	11.8	73	93	55	0	0	4	0	
NC ASHEVILLE	82	57	87	49	69	0	.1	-.8	.1	4.7	284	22.8	112	99	53	0	0	1	0	
CHARLOTTE	86	67	90	61	77	3	.7	-.8	.7	.5	34	17.7	85	81	40	2	0	0	0	
GREENSBORO	85	63	90	59	74	2	.1	-.8	.1	.6	35	22.9	121	86	41	1	0	1	0	
HATTERAS	80	66	83	56	73	0	.1	-.9	.1	.9	48	31.1	142	93	57	0	0	1	0	
NEW BERN	88	65	92	57	76	2	.8	-.4	.8	3.0	143	23.8	113	89	44	3	0	1	1	
RALEIGH	86	62	92	55	74	1	.1	-.8	.1	.2	10	21.0	112	84	39	4	0	1	0	
WILMINGTON	88	65	93	60	76	0	.2	-.1	.2	.7	31	18.2	89	92	47	3	0	1	0	
ND BISMARCK	82	51	95	43	67	4	.4	-.3	.3	.4	30	7.8	118	94	37	2	0	-2	0	
FARGO	80	54	96	42	67	3	.1	-.5	.1	.2	16	6.1	94	92	37	1	0	1	0	
GRAND FORKS	82	52	94	38	67	5	.1	-.5	.1	.1	10	4.6	80	75	27	2	0	1	0	
WILLISTON	84	54	96	48	69	7	.1	-.5	.1	1.0	2.0	143	13.7	85	95	49	0	0	3	2
OH AKRON-CANTON	78	56	85	41	67	0	1.8	1.1	1.0	1.8	106	14.6	77	81	44	0	0	1	0	
CINCINNATI	83	60	89	51	71	1	.4	-.6	.4	1.8	106	13.7	87	91	48	0	0	3	1	
CLEVELAND	78	56	86	42	67	0	.9	-.1	.7	2.0	133	13.7	87	91	48	0	0	3	1	
COLUMBUS	88	59	87	46	70	0	1.8	.9	1.2	3.3	191	11.9	70	92	50	0	0	4	1	

Based on 1951-80 normals.

Weather Data for the Week Ending June 13, 1987

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 6	PCT. NORMAL SINCE JUNE 6	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	81	58	86	47	70	0	.2	-.7	.2	1.9	114	12.1	74	89	48	0	0	2	0
TOLEDO	82	57	88	41	69	2	.3	-.5	.2	1.3	89	9.6	70	91	40	0	0	3	0
YOUNGSTOWN	78	52	85	38	65	0	.6	-.2	.4	2.2	149	13.4	82	97	46	0	0	2	0
OK OKLAHOMA CITY	85	68	93	61	76	1	1.4	.4	.7	2.5	132	23.6	163	95	57	1	0	3	1
TULSA	87	70	94	63	79	2	1.0	-.1	.7	1.2	57	21.2	121	92	51	2	0	3	1
OR ASTORIA	65	49	68	42	57	1	T	-.6	T	.1	7	30.9	89	92	64	0	0	0	0
BURNS	76	47	91	44	62	3	0	-.2	0	T	0	5.1	87	40	40	1	0	0	0
MEDFORD	87	53	99	44	70	7	.1	-.1	.1	.1	26	8.0	81	85	26	3	0	1	0
PENDLETON	83	53	93	48	68	4	.1	-.1	.1	.1	26	4.9	78	70	24	1	0	1	0
PORTLAND	79	53	86	48	66	4	0	-.4	T	T	0	18.0	96	85	36	0	0	0	0
SALEM	80	48	87	41	64	4	0	-.3	0	T	3	19.0	91	91	36	0	0	0	0
PA ALLENTOWN	80	56	91	47	68	0	.7	-.1	.4	1.5	101	15.3	80	88	43	1	0	4	0
ERIE	75	56	82	44	66	2	1.3	.4	1.3	2.4	146	13.5	86	87	48	0	0	2	1
HARRISBURG	81	57	90	47	69	-1	.4	-.5	.2	.7	43	14.0	79	91	46	1	0	4	0
PHILADELPHIA	82	61	90	50	71	1	.2	-.7	.1	1.0	60	14.7	82	86	49	1	0	3	0
PITTSBURGH	80	56	88	43	68	1	1.0	-.2	.4	1.2	79	14.3	84	91	41	0	0	5	0
SCRANTON	76	54	84	43	65	-1	.7	-.1	.4	1.0	69	12.1	83	95	47	0	0	5	0
RI PROVIDENCE	76	56	85	45	66	0	.9	.2	.9	1.1	89	20.6	100	92	44	0	0	2	1
SC CHARLESTON	89	68	94	63	79	2	.2	-.2	.2	1.3	50	22.3	108	95	47	3	0	1	0
COLUMBIA	80	67	94	60	79	2	.2	-.8	.2	2.4	130	23.0	101	89	41	5	0	1	0
FLORENCE	89	67	93	61	78	2	1.0	0	.7	1.8	97	18.5	97	90	42	5	0	2	1
GREENVILLE	87	64	91	56	75	1	.1	-.9	.1	1.4	78	22.0	89	95	45	4	0	2	0
SD ABERDEEN	83	55	93	44	69	4	.3	-.4	.3	.3	23	5.6	71	94	39	2	0	2	0
HURON	86	57	98	54	72	6	.7	-.1	.5	.7	48	9.6	113	93	40	3	0	2	1
RAPID CITY	79	57	92	51	68	4	.8	0	.5	.8	57	7.1	89	87	48	1	0	3	0
SIoux FALLS	85	61	98	56	73	6	.3	-.5	.2	.3	21	7.2	71	90	43	3	0	4	0
TN CHATTANOOGA	90	64	92	60	77	3	.6	-.2	.4	1.5	108	26.8	102	100	44	4	0	2	0
KNOXVILLE	88	62	91	56	75	2	.2	-.7	.1	.6	35	19.6	84	94	45	1	0	2	0
MEMPHIS	90	71	93	66	80	3	1.7	.9	1.7	1.7	108	19.4	72	82	45	6	0	2	1
NASHVILLE	89	68	91	62	78	3	.8	-.1	.4	1.1	68	14.2	57	94	44	2	0	2	0
TX ABILENE	84	68	91	62	76	-3	.3	-.3	.2	.8	63	11.8	121	93	56	2	0	4	0
AMARILLO	82	62	91	57	72	-2	.4	-.5	.4	1.5	95	9.3	129	95	47	1	0	1	0
AUSTIN	84	72	92	71	78	-2	5.2	4.4	2.3	8.7	581	21.1	145	100	72	1	0	7	3
BEAUMONT	83	74	89	72	79	-1	5.9	4.8	1.6	6.5	320	28.0	124	96	76	0	0	6	4
BROWNSVILLE	86	75	92	71	80	-2	2.1	1.4	.9	2.4	195	10.6	130	97	72	2	0	5	2
CORPUS CHRISTI	85	73	91	72	79	-2	2.9	2.0	1.2	4.6	259	18.6	171	99	74	1	0	7	2
DEL RIO	85	70	91	68	78	-5	1.7	1.3	.8	5.3	687	15.7	236	90	56	2	0	6	1
EL PASO	89	61	97	59	75	-5	1.5	1.4	.8	1.5	0	3.1	189	92	29	3	0	5	1
FORT WORTH	86	71	91	64	78	-2	2.2	1.6	.9	2.4	206	15.0	97	97	65	2	0	6	2
GALVESTON	84	75	87	72	80	-1	2.5	1.6	2.0	2.7	174	15.9	106	90	68	0	0	4	1
HOUSTON	84	73	89	71	78	-2	5.9	4.8	1.9	6.4	318	19.9	99	98	74	0	0	7	4
LUBBOCK	85	64	95	59	75	-2	1.2	.6	.7	1.2	99	7.0	106	98	49	2	0	4	1
MIDLAND	84	64	91	62	74	-5	1.3	.9	1.0	1.3	192	9.3	189	99	50	1	0	3	1
SAN ANGELO	84	66	88	60	75	-5	1.5	1.0	.8	1.8	195	21.2	288	98	61	0	0	5	1
SAN ANTONIO	85	71	91	68	78	-3	3.4	2.6	1.7	7.6	521	28.8	231	98	67	1	0	6	2
VICTORIA	84	73	92	72	79	-2	6.7	5.6	1.8	10.7	501	22.7	155	100	75	1	0	6	5
WACO	87	71	92	64	79	-2	4.8	4.1	2.5	5.5	409	17.9	115	100	70	3	0	7	3
WICHITA FALLS	86	67	93	60	77	-3	1.4	.7	1.0	1.4	101	19.8	159	98	60	1	0	4	1
UT BLANDING	85	56	91	49	70	5	T	T	T	T	0	5.0	110	58	24	2	0	0	0
CEDAR CITY	86	49	93	47	68	3	T	-.1	T	T	12	4.8	107	63	15	2	0	1	0
SALT LAKE CITY	86	57	93	52	72	6	T	-.2	T	.2	37	7.8	92	79	24	2	0	2	0
VT BURLINGTON	78	51	77	40	60	-3	2.2	1.4	1.0	3.4	221	11.2	87	94	57	0	0	5	2
VA NORFOLK	85	65	91	56	75	2	.2	-.6	.1	2.4	165	24.2	129	87	48	2	0	2	0
RICHMOND	86	61	91	52	74	1	.8	0	.7	4.5	312	24.5	138	92	46	3	0	3	1
ROANOKE	85	61	89	50	73	2	.2	-.6	.1	.3	21	27.6	156	94	42	0	0	2	0
WA COLVILLE	81	54	88	47	68	8	.2	-.2	.2	.5	64	8.8	107	74	34	0	0	1	0
QUILLAYUTE	62	47	70	38	55	0	.5	-.2	.3	.8	61	52.0	99	97	61	0	0	3	0
SEATTLE-TACOMA	71	51	79	48	61	2	T	-.3	T	T	2	18.6	101	93	49	0	0	0	0
SPOKANE	80	52	87	46	66	6	.2	-.1	.2	.2	41	6.8	81	76	27	1	0	1	0
YAKIMA	84	50	92	44	67	4	T	-.1	T	T	8	3.8	97	81	26	1	0	3	2
WV BECKLEY	78	56	81	47	67	3	1.3	.4	.7	2.1	131	21.0	109	92	48	0	0	3	1
CHARLESTON	83	59	88	48	71	1	1.4	.7	1.3	2.2	172	16.7	88	95	48	0	0	3	1
HUNTINGTON	83	60	88	50	71	0	1.1	.3	1.0	1.6	110	18.2	96	96	52	0	0	3	1
PARKERSBURG	82	58	89	43	70	0	1.1	.2	1.1	1.5	90	12.0	68	91	41	0	0	2	1
WI GREEN BAY	80	55	91	42	68	4	.3	-.5	.3	.4	28	7.7	68	90	44	2	0	1	0
LACROSSE	85	60	97	50	73	5	.3	-.7	.3	.6	32	11.1	92	92	37	2	0	4	0
MADISON	82	56	91	41	69	4	.3	-.6	.3	.4	25	10.0	82	88	42	1	0	1	0
MILWAUKEE	82	58	93	48	78	7	T	-.8	T	.1	9	12.3	95	85	46	3	0	1	0
WAUSAU	78	55	94	45	67	3	.8	-.1	.4	.9	55	6.9	57	92	43	1	0	3	0
WY CASPER	79	51	90	49	65	4	.3	0	.4	.3	54	6.4	103	87	35	1	0	2	0
CHEYENNE	75	51	82	47	63	2	.8	.3	.3	.8	89	8.1	129	89	39	0	0	4	0
LANDER	77	53	88	48	65	5	.6	.2	.3	.9	112	9.4	120	82	35	0	0	3	0
SHERIDAN	77	54	89	51	66	6	1.1	.5	.5	1.1	97	6.7	83	91	41	0	0	4	1
PR SAN JUAN	89	76	91	75	82	1	.3	-.9	.1	1.4	64	30.8	163	93	76	1	0	4	0

Based on 1951-80 normals.

National Agricultural Summary

June 8 to 14, 1987

HIGHLIGHTS: Above-normal temperatures hastened small grain maturity in most areas of the Nation. Excessive moisture continued plaguing southern Great Plains, promoting disease, and delaying seeding and harvesting. Crop development continued surging ahead of normal in the central and northern Great Plains and Corn Belt. Dryness hampered crop growth and seeding in the Southeast. Fieldwork averaged 4-6 days across the Nation. Scattered precipitation caused some interruptions, but most were minor. High temperatures depleted soil moisture in the eastern half of the Nation. Soil moisture was becoming short in most areas.

Winter wheat was 96 percent (%) headed compared with the 91% 5-year average. Harvest was 12% finished, 3 percentage points above normal. Rain impeded harvest in the central and southern Great Plains. Corn development continued surging ahead of normal in the Corn Belt and central and northern Plains. Soybeans were 91% seeded, 11 points ahead of normal. Seeding approached completion in most Corn Belt and central and northern Plains States. Cotton planting reached 88% completion but lagged 3 points behind normal. Wetness hampered seeding in Oklahoma and Texas. Squares were present on 23% of the acreage, compared with 16% normally. Sorghum was 84% seeded, 12 points above normal. Sorghum was blooming and heading in Texas. Spring wheat was heading in Idaho and Minnesota. Rice was heading in Louisiana and Texas. Livestock was mostly good, but the heat caused stress in some areas.

SMALL GRAINS: Winter wheat was mostly good to fair, except in the Delta where condition was fair to good. Above-normal temperatures hastened maturity in most areas of the Nation. In the 20 major producing States, heading was 96% finished, compared with 92% in 1986 and the 91% average. Heading was finished or nearing completion in all States except Colorado, Idaho, and Montana. Harvest was 12% complete, 2 points below 1986 but 3 points above average. Georgia harvest was 80% finished, 10 points above normal. Harvest was more than double the normal pace in Arkansas at 77% completion. Twenty-nine percent of Missouri wheat was harvested, and 35% was harvested in Oklahoma, compared with 4 and 15% harvested normally in each State, respectively. Harvest trailed 14 points behind normal in Texas. Rain slowed harvest but resumed by the weekend in Kansas. Leaf rust disease was prevalent with most losses expected in central Kansas. Wheat began ripening in extreme southern Nebraska. Russian aphids were still a problem.

Spring wheat was mostly good. Seventy-two percent of North Dakota's wheat reached the jointing stage. Development was well ahead of 1986 and average. Spring wheat was heading in Idaho and Minnesota.

CORN: Corn was mostly good in the Corn Belt. Adequate moisture left crop condition mostly good to excellent in the central Great Plains. The crop was fair to good in the Delta and southern Plains as a result of too little moisture in the Delta and too much moisture in the southern Plains. Corn development continued outpacing the average in the Corn Belt. Corn borers were becoming a problem in the central Plains and Corn Belt. Silking and tasseling continued spreading across the Delta and Southeast. Four percent of Georgia's corn reached the dough stage. Corn development lagged behind normal in Texas, with silking 9 points behind and doughing 26 points behind normal.

SOYBEANS: Soybean planting continued surging toward completion with mostly double-cropped soybeans left to be planted. Dryness hampered seeding in the Southeast and Delta, while wetness caused delays in Kansas. Planting was 2 points or less from completion in Illinois, Indiana, Iowa, Michigan, and Ohio. Producers finished seeding in Minnesota and South Dakota. Soybeans were 91% planted in the 19 major producing States, 5 points greater than the previous week and 11 points above normal.

SORGHUM: Sorghum seeding reached 84% completion, compared with 77% last year and 72% average. Planting was ahead of normal in all States except Oklahoma. Planting neared completion except in Kansas and Oklahoma. Sorghum turned yellow from excessive moisture in Texas. Fields bloomed in the Blacklands and central areas and turned color at Coastal Bend and in the Valley. Thirty-one percent of the acreage was heading. Chinch bugs migrated from small grains and caused some problems in central and eastern Kansas.

COTTON: Cotton was 88% planted, trailing 3 points behind normal because of the slow seeding pace in Oklahoma and Texas. Seeding was virtually finished with the exception of these two States. In Texas, seeding was 3 points behind normal and Oklahoma registered a 15-point deficit. Squares were present on 23% of the acreage, 7 points ahead of normal. Texas cotton needed warmer weather, especially in central and southern areas. Excessive moisture caused plants to shed squares in the Blacklands and replanting in the Plains. Five percent of Texas' cotton was setting bolls. Many growers replanted washed-out cotton and fields with poor stands in Oklahoma. Cotton progressed well in California and Arizona. Thirteen percent of Arizona's acreage was setting bolls.

OTHER CROPS: Rice was mostly good. Heading was underway in Louisiana and Texas.

Peanuts were mostly planted except in Texas. Rain slowed planting and caused some replanting in Texas. Peanuts were blooming and pegging in Alabama and Georgia.

Burley transplanting was nearly finished in Kentucky. Dry soils caused considerable resetting. Tennessee burley tobacco was 92% transplanted and mostly fair to good. Tobacco harvest was underway in Florida.

FRUIT AND NUTS: Nonirrigated citrus groves showed stress and some leaf loss in Florida. Growers irrigated, and rain is still needed in most citrus producing areas. Additional moisture is needed for good fruit development.

New crop navel orange droppage continued heavy in California as a result of high temperatures in May. Clingstone peaches were thinned and treated for fruit moths and twig borers. Freestone peach, nectarine, and plum harvests continued. Thompson seedless grape harvest began for fresh market. Arizona's grapes colored and matured normally. Citrus harvest is expected to be finished by the end of June.

VEGETABLES: Typical summer weather prevailed over Florida's vegetable areas, precipitation was limited, and irrigation was active. Vegetable supplies were principally from central and northern regions.

Rain slowed vegetable harvest in Texas. The excessive rain caused heavy loss in unharvested crops in the San Antonio-Winter Garden area.

(Continued to back cover)

CROP PROGRESS

FOR WEEK ENDING JUNE 14, 1987

SOYBEANS % PLANTED			GRAIN SORGHUM % PLANTED			WINTER WHEAT % HEADED			WINTER WHEAT % HARVESTED		
	1987	1986	AVG.		1987	1986	AVG.		1987	1986	AVG.
ALA	79	62	69	ARK	97	94	NA	ARK	100	100	NA
ARK	81	55	62	ILL	95	84	71	CALIF	100	100	100
GA	75	58	70	KANS	75	65	50	COLO	89	98	95
ILL	99	96	91	LA	99	99	96	GA	100	100	100
IND	98	80	83	MISS	100	92	88	IDAHO	66	2	33
IOWA	99	93	91	MO	95	82	76	ILL	100	100	100
KANS	80	75	50	NEBR	95	95	85	IND	100	100	98
KY	72	46	51	OKLA	50	50	60	KANS	100	100	99
LA	81	83	81	S DAK	90	59	76	MICH	99	95	75
MICH	99	85	85	TENN	90	83	80	MO	100	100	99
MINN	100	94	94	TEX	88	83	87	MONT	60	35	25
MISS	82	55	69					NEBR	100	95	94
MO	88	77	62					N MEX	100	100	NA
NEBR	96	98	86	11 STATES	85	78	NA	N C	100	100	NA
N C	64	68	69					OHIO	100	100	99
OHIO	98	90	91	EXCL. STATES				OKLA	100	100	100
S C	66	64	66	WITH NA	84	77	72	OREG	98	91	87
S DAK	100	66	87					S DAK	100	78	76
TENN	75	45	55	THESE 11 STATES PRODUCED 96% OF THE 1986 GRAIN SORGHUM CROP.				TEX	100	100	100
								WASH	96	77	73
19 STATES	91	81	80	NA - NOT AVAILABLE.				20 STATES	97	93	NA
								EXCL. STATES			
								WITH NA	96	92	91
								EXCL. STATES			
								WITH NA	12	14	9
								THESE 20 STATES PRODUCED 91% OF THE 1986 WINTER WHEAT CROP.			
								THESE 19 STATES PRODUCED 96% OF THE 1986 SOYBEANS CROP.			
								NA - NOT AVAILABLE.			
								NA - NOT AVAILABLE.			

COTTON % PLANTED			COTTON % SQUARING				
	1987	1986	AVG.		1987	1986	AVG.
ALA	100	100	100	ALA	24	19	18
ARIZ	100	100	100	ARIZ	80	85	80
ARK	100	100	100	ARK	37	0	12
CALIF	100	100	100	CALIF	17	15	10
GA	98	94	98	GA	26	20	37
LA	100	100	100	LA	37	55	24
MISS	100	100	100	MISS	42	36	26
MO	100	100	100	MO	23	5	6
N MEX	100	90	92	N MEX	7	25	6
N C	100	100	100	N C	18	18	15
OKLA	45	65	60	OKLA	1	0	0
S C	100	100	100	S C	52	18	31
TENN	100	100	100	TENN	25	8	5
TEX	79	73	85	TEX	14	13	12
14 STATES	88	85	91	14 STATES	23	19	16
				THESE 14 STATES PRODUCED 100% OF THE 1986 COTTON CROP.			

CROP CONDITION PERCENT
FOR WEEK ENDING JUNE 14, 1987

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	0	8	45	40	4
CALIF	0	5	10	80	5
COLO	0	3	18	59	20
GA	0	3	28	66	3
IDAHO	0	0	5	74	21
ILL	0	1	15	66	18
IND	0	2	19	71	8
KANS	0	1	4	47	48
MICH	2	8	30	45	15
MO	0	10	50	40	0
MONT	0	0	7	77	16
NEBR	0	0	19	78	3
N MEX	0	18	33	26	23
N C	0	3	16	73	8
OHIO	0	3	19	61	17
OKLA	0	5	75	20	0
OREG	0	0	22	52	26
S DAK	4	10	39	42	5
TEX	0	13	47	27	13
WASH	0	0	20	70	10

GRAIN SORGHUM

STATE	VP	P	F	G	EX
ARK	3	7	47	42	4
ILL	0	0	24	76	0
KANS	0	0	7	26	67
LA	0	2	51	47	0
MISS	0	0	32	66	2
NEBR	0	0	17	79	4
OKLA	0	0	10	88	2
S DAK	0	4	32	62	2
TENN	2	8	57	33	0
TEX	0	1	21	55	23

RICE

STATE	VP	P	F	G	EX
ARK	0	2	40	53	5
CALIF	0	0	0	50	50
LA	0	0	4	96	0
MISS	0	0	23	71	6
TEX	0	0	22	65	13

SPRING WHEAT

STATE	VP	P	F	G	EX
IDAHO	0	1	14	67	18
MINN	0	2	33	61	4
MONT	0	0	7	79	14
N DAK	0	2	19	76	3
S DAK	2	3	37	54	4

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall totals mostly 1.00 in.; local amounts 3.00 to 6.00 in. Temperatures averaged 4° above normal extreme north; 1 to 3° below normal extreme south.

Days suitable for fieldwork 6.6. Soil moisture 94% short, 6% adequate. Dry conditions hampered crop development; widespread weekend showers, however, provided much needed moisture most areas. Sorghum 75% planted, 65% 1986, 70% avg. Soybeans 79% planted, 62% 1986, 69% avg.; 6% poor, 50% fair, 44% good. Cotton 24% squaring, 19% 1986, 18% avg.; 7% poor, 50% fair, 43% good. Corn 46% silking, 55% 1986, 38% avg.; 26% poor, 54% fair, 20% good. Peanuts 11% pegging, 1% 1986, 8% avg.; 8% poor, 50% fair, 42% good. Wheat 51% harvested, 53% 1986, 50% avg.; 3% poor, 55% fair, 39% good, 3% excellent. First hay 78% harvested, 55% 1986, 65% avg. Livestock good to fair. Pastures fair to good. Primary activities: Planting soybeans, sorghum, summer forage crops; harvesting wheat, hay, vegetables, peaches; controlling weeds, insects in row crops; spraying worms, boll weevils in cotton; general care of livestock, poultry.

ALASKA: NO DATA AVAILABLE

ARIZONA: Drier air 8th reduced number, intensity of showers, thunderstorms. Further drying 9th to 11th resulted in isolated afternoon, evening activity only over central mountains, southeast; mostly sunny skies elsewhere. Weak southeasterly flow 12th brought widely scattered showers, thunderstorms; northern, eastern sections. Rainfall little to none west, to locally over 0.50 in. White Mountains, southeast. Broad ridge high pressure caused warming trend 13th, temperatures 113° lower western deserts, upper 90s 5,000 ft., mid 80s mountains. Temperatures 1° below to 8° above normal.

Small grains 65% harvested, 55% 1986, 60% avg. Cotton good progress; 13% set bolls. Irrigation, weed control, cultivation active. Excellent curing conditions for alfalfa prevailed with some producers into fourth cutting west; light weed and insect problems. Strong winds caused some re-raking of cut hay. Sales average, prices declined. Sudan grass growth rapid, benefiting from good weather conditions. Corn growth advanced rapidly. Sorghum plantings active. Movement spring lettuce tapered off Willcox, expected to finish 19th. Carrots, greens, limited amount sweet corn shipped central valley. Dry onion harvest tapered-off. Table stock potato harvest concluded central valley; chippers continued to be shipped. Figs picked. Grapes coloring, maturing normally; perlettles, flame seedless, few thompson seedless picked. Valencia oranges, grapefruit shipped Salt River Valley; harvest expected to conclude by end of month. Cantaloups, watermelons, honeydews maturing rapidly; cantaloup harvest started, watermelon harvest progressed; few honeydews picked.

ARKANSAS: Temperatures slightly above normal with scattered thundershowers latter part. Temperature extremes 53°, 100°. Rainfall none to 1.33 in.

Days suitable for fieldwork 6.0. Cotton 100% emerged, 37% squaring. Rice 100% emerged. Soybeans 68% emerged. Sorghum 94% emerged. Major activities: Harvesting wheat; planting soybeans; cutting hay; applying herbicides, fertilizer.

CALIFORNIA: Low pressure trough brought below normal temperatures. Low replaced by strong high

pressure, temperatures rebounded; isolated thundershowers developed over mountain areas.

Barley, wheat, oat harvests continued. Cotton made excellent progress. Rice treated herbicides. Seed alfalfa ahead of normal, heavy seed set. Sugarbeets treated for aphids, leafhoppers. Blackeye peas irrigated. Corn good progress. Crops irrigated, regular basis. Apple orchards treated for codling moth. Apricot harvest active. Calimyrna fig harvest began San Joaquin Valley. Picking of table grapes continued Coachella Valley. Thompson seedless harvest began fresh market. Grapes treated for mildew, leafhoppers, nematodes, grape leaf skeletonizer. Harvest of freestone peaches, nectarines, plums continued. Clingstone peach, prune orchards treated for oriental fruit moth, twig borer; peaches thinned. Record high heat early May caused heavy drop of developing 1987-88 navel oranges. Valencia orange harvest continued. Walnuts sprayed for codling moth. Artichokes moderate, good quality, Salinas. Broccoli fairly heavy Salinas; moderate, Santa Maria; quality good, variable, respectively. Carrot moderate, good quality Salinas. Shipments from Imperial-Coachella Valley continued. Cauliflower moderate Salinas, Santa Maria; good quality. Celery light; good quality Santa Maria-Oceano. Packing Salinas-Watsonville light but increasing good quality. Early harvest sweet corn started Westside, main effort begin around June 26th. Harvest Sacramento Valley start by June 19th. Lettuce moderate Salinas, Santa Maria. Quality good Salinas, still variable Santa Maria. Melon fields continued good progress statewide. Watermelon harvest continued Palo Verde Valley, Imperial-Coachella Valley. Cantaloup movement remained at peak Imperial Valley. Early fields, Westside ready by June 26th. Honeydew picking virtually over Imperial Valley. Red, yellow onion digging continued Fresno. Dry onion harvest active Delta. Dehydrator onion fields grew well Tulelake-Butte Valley. Bell pepper, chili pepper harvest active Westside. Fall potato plantings Tulelake-Butte Valley continued, emergence progressed normally. Packing sheds continued to move 1986 crop full time. Digging spring crop continued Kern County, harvesting summer crop Riverside County set for early July. Sweetpotato plantings doing very well statewide. Tomatoes processing, fresh market progressing well statewide. Westside area table tomato packing active, good quality; processing tomato harvest expected to start July 1st. Desert area fresh market movement winding down, cannery tomato harvest expected to start June 19th. Recent showers higher elevations benefited summer ranges, foothill, valley areas remained extremely dry. Warm weather, wind deplete soil moisture lower elevations. Fire danger continued high valley, foothill districts. Stock water supplies low to totally depleted. Livestock generally good condition, lighter than normal.

COLORADO: Temperatures 2 to 5° above normal. Heavy rain some areas; 0.20 to 0.40 in. most of State; 1.87 in. Denver, Front Range area.

Days suitable for fieldwork 4.4. Soil moisture adequate. Small grains, livestock good. Corn 97% emerged. Sorghum 67% planted. Winter wheat 26% turning color.

FLORIDA: Light winds, sunny skies, dry air under high pressure. Only few scattered showers south around midweek, until weekend showers,

thunderstorms, some heavy, Panhandle, portions north averaged 1.00 to 2.00 in. Temperatures averaged near to above normal.

Topsoil moisture continued short Panhandle, most northern Peninsula areas where weekend showers, thunderstorms very beneficial; additional rain needed many areas. Moisture adequate southern Peninsula except some dry localities primarily uppermost southern areas. Nonirrigated crops, particularly early corn, showed stress drier areas. Cutworms few cotton fields; bollworm eggs, worms more prevalent. Wheat harvest well advanced. Tobacco harvest underway. Soybean plantings resumed in areas where rain received. Haymaking active. Sugarcane good progress. Pastures declined further, especially some eastern Panhandle localities. Weekend rains, however, very timely some northern, Panhandle localities. Grazing varied from very poor to mostly fair Panhandle, northern Peninsula; continued generally good to excellent south. Cattle, calves good to excellent south; fair to good elsewhere. Rain needed citrus areas; most growers irrigated. Nonirrigated groves showed stress, some leaf loss. Additional moisture needed for fruit development. Valencia harvest remained active; grapefruit harvest complete. Typical summer weather over vegetable areas. Precipitation limited. Irrigation active. Supplies principally from central, northern regions. Volume leaders: Watermelons, tomatoes, potatoes, sweet corn. Also available, celery, peppers, cucumbers, carrots. Belle glade celery season finished.

GEORGIA: Rain averaged 1.00 in. most weekend 13th, 14th. Extreme north totals 0.50 in. or less. Local totals 3.00 to 5.00 in. over central, south. Temperatures 30 above normal northern half, near normal southern half. Warmest temperatures low 90s north to mid 90s central, south. Coolest temperatures upper 50s to mid 60s except near 50s in mountains.

Days suitable for fieldwork 6.3. Soil moisture 43% very short, 54% short, 2% adequate, 1% surplus. Corn 40% silked, 61% 1986, 57% avg.; 4% dough, 23% 1986, 24% avg.; none dent, 1% 1986, 4% avg. Cotton none setting bolls, 2% avg. Sorghum grain 13% poor, 53% fair, 34% good; 79% planted, 69% 1986, 71% avg. Peanuts 37% fair, 63% good; 100% planted, 96% 1986, 99% avg.; 26% blooming, 22% 1986, 43% avg.; 3% pegging, 4% 1986, 12% avg. Tobacco 10% poor, 37% fair, 53% good; none harvested, none 1986, 3% avg. Watermelons 5% poor, 43% fair, 52% good; none harvested, 6% 1986, 4% avg. Rye 7% poor, 31% fair, 62% good. Other small grains 10% poor, 23% fair, 67% good. Apples 7% fair, 90% good, 3% excellent. Peaches 11% poor, 5% fair, 84% good; 38% harvested, 41% 1986, 35% avg. Pasture 4% very poor, 16% poor, 39% fair, 40% good, 1% excellent. Hay 4% very poor, 21% poor, 40% fair, 35% good. Cattle 29% fair, 70% good, 1% excellent. Hogs 17% fair, 81% good, 2% excellent. Main activities: Harvesting small grains, hay, peaches. Dry conditions slowed planting some areas. Soil moisture supplies lowest of season by 12th. Showers over weekend 13th and 14th beneficial. Peanut planting virtually complete. Weed, insect control operation active. Most farmers running irrigation systems 24-hours.

HAWAII: Mostly sunny, light to moderate showers. Occasionally heavy weekend showers slowed farm activity. Temperatures above average, no new records. Heavy irrigation, increased spraying. Crops mostly fair to good. Trade winds 5 to 20 mph. Temperatures ranged low 70s to high 80s. Rainfall ranged none to 3.50 in.

Days suitable for fieldwork 7.0. Banana production steady. Papaya production increased. Chinese cabbage harvesting continued active. Watermelon production continued increasing.

IDAHO: Warm temperatures prevailed, 4 to 13° above normal. Precipitation below normal north, above normal southeast. Amounts varied south central, southwest.

Days suitable for fieldwork 6.0. Under warming conditions crop progress, development advanced rapidly. Small grains heading statewide. Potato planting virtually complete, only scattered fields remained. Closing middles southwest. Sugarbeet thinning, weeding active. Cherry harvest full swing. Livestock good. Range, pastures improved, providing limited grazing. Water supplies improved, demand for irrigation remained heavy.

ILLINOIS: Temperatures averaged 2 to 7° above normal, with readings above 100° numerous locations. Precipitation 1.00 in. isolated areas of northeast, east southeast, south; elsewhere less than 0.25 in.

Days suitable for fieldwork 6.5. Soil moisture 68% short, 31% adequate, 1% surplus. Corn height average all fields 30 in., 28 in. 1986, 17 in. avg.; most advanced fields 46 in., 43 in. 1986, 28 in. avg. Soybeans 81% full stand, 89% avg. Wheat 99% filled, 98% 1986, 90% avg.; 95% turning yellow, 82% 1986, 57% avg.; 60% ripe, 34% 1986, 12% avg. Oats 92% headed, 72% 1986, 58% avg.; 60% filled, 32% 1986, 26% avg.; 10% turning yellow, 17% 1986, 11% avg.; 19% fair, 61% good, 20% excellent. Alfalfa hay 1st crop 92% cut, 83% 1986, 77% avg.; 2nd crop 12% cut, 2% 1986, 3% avg.; 1% poor, 26% fair, 61% good, 12% excellent. Red clover crop 85% cut, 53% 1986, 58% avg.; 2% poor, 24% fair, 60% good, 14% excellent. Pasture 8% poor, 38% fair, 47% good, 7% excellent.

INDIANA: Temperatures 2 to 4° above normal. Lows averaged upper 50s to low 60s, highs averaged mid 80s to 90s. Precipitation heaviest south, totals above 1.00 in. Elsewhere totals less than 1.00 in.

Days suitable for fieldwork 5.6. Topsoil moisture 33% short, 61% adequate, 6% surplus. Subsoil moisture 32% short, 64% adequate, 4% surplus. Soybeans 97% emerged, 82% 1986, 71% avg. Soybeans 7 in. tall, 5 in. 1986, 3 in. avg. Corn 27 in. tall, 20 in. 1986, 12 in. avg. Wheat 65% turning color, 50% 1986, 25% avg. Wheat 15% ripe, 10% 1986, 3% avg. Corn, soybeans, wheat, mostly good. Alfalfa 92% cut once, 62% 1986, 68% avg. Clover 75% cut, 46% 1986, 46% avg. Tobacco 92% set, 80% 1986, 60% avg. Pastures 3% poor, 43% fair, 51% good, 3% excellent. Oats 90% headed, 65% 1986, 40% avg.

IOWA: Warm, dry. Temperatures mild early, hot weekend. Extremes 51° Cresco 10th; 102° Ames 14th. Precipitation light, spotty, Osceola 2.44 in. Daily pan evaporation 0.34 in.

Days suitable for fieldwork 6.0. Topsoil moisture 45% short, 51% adequate, 4% surplus; subsoil moisture 11% short, 83% adequate, 6% surplus. Oats 3% poor, 28% fair, 60% good, 9% excellent; 80% headed, 42% 1986, 33% avg. Winter wheat mostly good. Hay 1% very poor, 4% poor, 25% fair, 57% good, 13% excellent. First crop alfalfa 80% harvested, 57% 1986, 53% avg. First crop clover 45% harvested, 23% 1986, 24% avg. Corn cultivated 1st time 75%, 38% 1986, 36% avg. Soybeans 95% emerged, 75% 1986, 72% avg.; cultivated 1st time 35%, 8% 1986, 11% avg. Livestock mostly good to excellent. Some concerns over heat stress on livestock. Pastures 9% poor to very poor, 28% fair, 54% good, 4% excellent.

KANSAS: Temperatures averaged 77° southwest to 81° northeast, 3 to 8° above normal. Rainfall averaged 0.50 in. except northwest averaged 1.20 in.

Days suitable for fieldwork 4.5. Soil moisture 13% short, 67% adequate, 20% surplus. Wheat 95% turning, 90% 1986, 55% avg.; 15% ripe, 50% 1986, 10% avg. Rain slowed harvest, resumed by weekend.

Armyworms prevalent pest. Leaf rust most prevalent disease, most losses expected central. European corn borers east, usually below treatment levels. Sorghum no major diseases, insects. Chinch bugs migrating from small grains, some problems central and east. First cutting alfalfa virtually complete, 2nd cutting 10%. Ranges, pastures good to excellent, lowest condition west central.

KENTUCKY: Very warm, humid. Daily highs mid 80s to lower 90s, 2 to 5 ° above normal. Precipitation varied from less than 0.25 in. to over 2.00 in. Normal precipitation 1.00 in.

Days suitable for fieldwork 5.5. Soil moisture 36% very short, 56% short, 8% adequate. Corn rapid growth, average height 26 in., earliest fields soon tasseling. Soybean planting slowed, most single crop beans planted. Burley transplanting nearly finished, considerable resetting due dry soil. Tobacco 1% very poor, 8% poor, 49% fair, 39% good, 3% excellent. Wheat 25% harvested, 9% 1986, 5% avg. Pastures declined; 6% very poor, 14% poor, 42% fair, 36% good, 2% excellent.

LOUISIANA: Temperature normal to 2° below normal. Temperature extremes 60°, 93°. Rainfall averaged 1.32 to 4.37 in.

Days suitable for fieldwork 4.9. Soil moisture prior to weekend rains 33% short, 38% adequate, 29% surplus. Corn fair to good; 51% silked, 85% 1986, 65% avg.; 5% dough stage, 41% 1986, 25% avg. Cotton 100% planted, 100% 1986, 100% avg.; 98% emerged, 100% 1986, 98% avg.; 37% squaring, 55% 1986, 24% avg.; 2% setting bolls, 3% 1986, 1% avg. Rice 100% planted, 100% 1986, 99% avg.; 99% emerged, 100% 1986, 98% avg.; 1% headed, 8% 1986, 5% avg. Sorghum 98% planted, 99% 1986, 96% avg.; 95% emerged, 98% 1986, 94% avg.; 2% headed, 11% 1986, 8% avg. Soybeans 81% planted, 83% 1986, 81% avg.; 68% emerged, 76% 1986, 72% avg. Sweetpotatoes fair to good; 76% planted, 83% 1986, 82% avg. Winter wheat 88% harvested, 77% 1986, 83% avg. Peaches 15% harvested, 41% 1986, 22% avg. Hay 1st cutting 75%, 73% 1986, 78% avg. Sugarcane, pastures, livestock good. Vegetables fair to good. Main activities: Planting soybeans, sweetpotatoes; baling hay; harvesting peaches, vegetables, wheat; spraying for rice water weevils.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 71°, 70° normal; lowest temperature 37°; highest temperature 94°. Precipitation averaged 0.23 in.

Days suitable for fieldwork 6.5. Topsoil moisture short to adequate. Subsoil moisture adequate. Wheat, oats, barley, rye good. Corn 98% planted, 98% avg. Soybeans 65% planted, 60% avg. Tobacco 75% transplanted, 75% avg. Alfalfa 95% 1st cut, 85% avg. Apples, peaches good to excellent.

Delaware: Temperatures averaged 71°, 71° normal. Precipitation averaged 0.13 in.

Days suitable for fieldwork 7.0. Topsoil moisture mostly short to adequate. Subsoil moisture mostly adequate to short. Wheat, barley, rye fair to good. Soybeans 60% planted, 65% avg. Apples good. Apple fruit set average. Peaches mostly fair to good.

MICHIGAN: Temperatures ranged 1 to 40° above normal. Temperature extremes 32°, 91°. Precipitation ranged from 0.06 to 0.91 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 70% short, 30% adequate. Corn 1% very poor, 4% poor, 20% fair, 50% good, 25% excellent. Soybeans 99% planted, 85% 1986, 85% avg. Wheat 99% headed, 95% 1986, 75% avg.; 2% very poor, 8% poor, 30% fair, 45% good, 15% excellent. Dry beans 75% planted, 50% 1987, 45% avg. Major activities: Making hay, cultivating, fertilizing with nitrogen,

planting dry beans, applying pesticides, thinning peaches, mowing orchards, spraying fruit, pruning.

MINNESOTA: Temperatures averaged 3 to 7° above normal. Temperature extremes 33°, 104°. Precipitation averaged 0.27 to 0.66 in. below normal. Precipitation totals averaged 0.24 to 0.80 in. Greatest weekly total 1.17 in.

Days suitable for fieldwork 5.4. Topsoil moisture 11% very short, 29% short, 59% adequate, 1% surplus. Spring wheat 79% jointing, 24% 1986, 39% avg.; 24% heading, 2% 1986, 2% avg. Oats 95% jointing, 43% 1986, 46% avg.; 48% heading, 6% 1986, 6% avg. Barley 78% jointing, 19% 1986, 37% avg.; 17% heading, 1% 1986, 2% avg. Corn 70% cultivated, 32% 1986, 31% avg.; height 16 in., 7 in. 1986, 6 in. avg. Soybeans 98% emerged, 76% 1986, 75% avg.; 39% cultivated, 8% 1986, 11% avg.; height 5 in., 2 in. 1986, 2 in. avg. Sweet corn 88% planted, 88% 1986, 86% avg. Alfalfa hay 1st crop 73% cut, 57% 1986, 44% avg. Field corn 1% very poor, 1% poor, 28% fair, 63% good, 7% excellent. Soybeans 2% poor, 42% fair, 54% good, 2% excellent. Spring wheat 2% poor, 33% fair, 61% good, 4% excellent.

MISSISSIPPI: Temperatures near normal; extremes 56°, 97°. High pressure over southeast kept State dry most of week, upper level disturbances combined with high pressure system moving east resulted in rain over weekend. Rainfall heaviest southern Delta averaged 2.00 in., lightest northeast averaged 0.30 in. Greatest 24-hour total rainfall 2.80 in. Greatest weekly rainfall 3.53.

Days suitable for fieldwork 5.0, 2.4 1986, 4.3 avg. Soil moisture 5% very short, 55% short, 35% adequate, 5% surplus. Corn 27% silking, 40% 1986, 26% avg.; 5% poor, 58% fair, 30% good, 7% excellent. Wheat 97% mature, 91% 1986, 90% avg.; 70% harvested, 42% 1986, 50% avg.; 50% fair, 47% good, 3% excellent. Sweetpotatoes 86% planted, 80% 1986, 78% avg. Peanuts 93% planted, 85% 1986, 92% avg. Hay 37% harvested, 26% 1986, 38% avg. Rice 23% fair, 71% good, 6% excellent. Sorghum 100% planted, 92% 1986, 88% avg.; 99% emerged, 89% 1986; 32% fair, 66% good, 2% excellent. Cotton 42% squaring, 36% 1986, 26% avg.; 30% fair, 55% good, 15% excellent. Soybeans 82% planted, 55% 1986, 69% avg.; 65% emerged, 42% 1986; 51% avg.; 5% poor, 33% fair, 58% good, 4% excellent.

MISSOURI: Temperatures averaged 40° above normal. Precipitation up to 2.68 in. extreme west, light rest of State.

Days suitable for fieldwork 5.3. Topsoil moisture 59% short, 38% adequate, 3% surplus. Alfalfa hay 1st cutting 96%, 81% 1986, 72% avg. Alfalfa hay 2nd cutting 12%, 10% 1986, 5% avg. Other hay 66% harvested, 43% 1986, 35% avg.

MONTANA: First half precipitation mainly from thunderstorms. Last half dry. Southwest averaged 0.40 in., west 0.30 in. south central and east dry. Temperatures 5 to 10° above normal.

Days suitable for fieldwork 6.0. Topsoil moisture 38% short, 62% adequate. Subsoil moisture 14% short, 86% adequate. Barley 15% fair, 75% good, 10% excellent. Sugarbeet 19% fair, 79% good, 2% excellent. Alfalfa 13% cut, 10% 1986, 7% avg. Insect damage to crops 23% light, 63% moderate, 14% severe. Stockwater supply 6% short, 91% adequate, 3% surplus.

NEBRASKA: Average temperatures 1 to 10° above normal. Precipitation ranged 0.20 to 3.00 in. scattered locations. Extremes 51°, 101°.

Days suitable for fieldwork 4.4. Topsoil moisture 10% short, 71% adequate, 19% surplus. Subsoil moisture 81% adequate, 19% surplus. Winter wheat 50% turned color, 44% 1986, 21% avg. Extreme southern areas beginning to ripen, harvest just around corner. Russian aphid still problem,

spreading to CRP wheat grass, other spring seeded grains. Corn cultivated, scouted for corn borers. Soybeans 90% emerged, 84% 1986, 76% avg. Sorghum 85% emerged, 86% 1986, 66% avg. Alfalfa 85% harvested, 73% 1986, 63% avg. Rain caught hay in windrow, weevils still problem. Range, pasture feeds 85% adequate, 15% surplus.

NEVADA: Southwest flow air brought moist air mass all but southern area. Thunderstorms common throughout period. Despite showery weather, air mass warm with above normal temperatures.

Alfalfa hay harvesting extending northward. Rainy weather damaged some cut hay on ground. Ranges continued to improve.

NEW ENGLAND: Precipitation averaged 1.00 to 1.50 in. north, 0.25 to 0.75 in. south. Temperatures ranged from upper 50s near Canadian border to upper 60s south.

Days suitable for fieldwork 5.0. Soil moisture 17% short, 67% adequate, 17% surplus. Grazing availability 7% short, 93% adequate. Fieldwork 1 day behind. Maine potatoes 100% planted, 97% 1986, 97% avg.; 50% emerged, 45% 1986, 43% avg. Rhode Island potatoes 99% emerged, 100% 1986, 98% avg. Field corn 92% planted, 95% 1986, 89% avg.; 80% emerged, 79% 1986, 75% avg. Maine oats 100% planted, 100% 1986, 97% avg. Sweet corn 82% planted, 87% 1986, 86% avg.; 68% emerged, 80% 1986, 75% avg. Major farm activities: Spraying, harvesting hay, picking strawberries.

NEW MEXICO: Temperatures over State warmed to near normal, precipitation of 1.00 to 2.00 in. over most of State except for northwest plateau.

Days suitable for fieldwork 6.0. Soil moisture 8% short, 75% adequate, 17% surplus. Little hail damage reported. Cotton fair to good, warmer temperatures encouraged growth. Barley, wheat, sorghum fair to good. Farmers on eastside anticipating good to excellent wheat yields planting of grain sorghum continued. Corn good. Peacan out set light to average. Onions good, harvesting continued; growers still facing good market conditions. Lettuce harvest ended.

NEW JERSEY: Temperatures averaged near normal north, central; above normal south. Extremes 39°, 94°. Rainfall averaged 0.42 in. north, 1.31 in. central, 0.16 in. south. Heaviest 24-hour total 1.94 in. on 13th, 14th. Estimated soil moisture percent field capacity averaged 70% north, central; 42% south. Four inch soil temperatures averaged 65° north, 69° central, 70° south.

Severe weekend thunderstorms accompanied by hail caused crop damage. Many recently planted fields eroded; sprays washed off. Vegetable harvest continued to increase. June drop continued on apples, peaches. Blueberry growth good, early harvest this week. Barley combining general as conditions permitted. Wheat colored. Hay, straw baling made good progress.

NEW YORK: Rain early week, dry mid week, showers end of week. Rainfall above normal except Hudson Valley. Rainfall heaviest over Adirondacks, St. Lawrence, Champlain Valleys. Temperatures near normal. Warmest 8th, 13th, some areas 80s. Coldest 11th, few spots 30s.

Days suitable for fieldwork 5.0. Soil moisture mostly adequate. Pastures good. Corn planting virtually complete, weeds problem. First cut alfalfa 27% complete, 25% 1986, 21% avg. Clover-timothy harvest 13% complete, 18% 1986, 14% avg. Grass silage harvest 34% complete, 36% 1986, 26% avg. Early planted oats heading out. Dry bean planting continued.

NORTH CAROLINA: Temperatures averaged slightly above normal. Temperature extremes 46°; 97°.

Precipitation ranged from 0.01 to 0.69 in. across State.

Days suitable for fieldwork 6.3. Soil moisture 9% very short, 69% short, 22% adequate. Irish potatoes 35% fair, 65% good. Pasture fair to mostly good. Tobacco plantbeds 4% very poor, 17% poor, 18% fair, 61% good. Tobacco plant supplies 14% short, 74% adequate, 12% surplus. Tobacco in field 33% fair, 65% good, 2% excellent. Peanuts 100% planted, 100% 1986, 100% avg.; 18% fair, 82% good. Soybeans 4% poor, 47% fair, 48% good, 1% excellent. Hay 3% poor, 35% fair, 59% good, 3% excellent; 90% harvested. Oats 49% harvested, 52% 1986, 40% avg. Barley 58% harvested, 63% 1986, 44% avg. Rye 30% harvested, 52% 1986, 37% avg. Sorghum 73% planted, 74% 1986, 74% avg. Sweetpotatoes 83% planted, 78% 1986, 75% avg.; 13% fair, 87% good. Fruit, truck crops fair to mostly good. Major farm activities: Harvesting small grains; transplanting burley tobacco, sweetpotatoes; cutting and baling hay; cultivating tobacco, soybeans, corn; planting sorghum, soybeans; sidedressing corn, cotton, tobacco; herbicide applications; harvesting vegetables, peaches, blueberries; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures averaged 6 to 9° above normal. Extremes 36° northeast; 98° southeast. Light showers across State on 10th. Heaviest northeast 1.02 in.

Days suitable for fieldwork 6.5. Topsoil moisture well below normal, generally not critical yet; 11% very short, 62% short, 27% adequate. Subsoil moisture normal; 17% short, 83% adequate. Small grains progressed well ahead of 1986 and average. Spring wheat 72% jointing and beyond, 45% 1986, 42% avg.; durum wheat 55%, 29% 1986, 29% avg.; oats 73%, 56% 1986, 45% avg.; barley 77%, 55% 1986, 50% avg.; winter wheat 89% heading and beyond, 57% 1986, 41% avg. Row crop planting completed. Broadleaf spraying 79% completed, wild oats 90%. Pasture 14% poor, 33% fair, 53% good. First cutting of hay progressed; 37% alfalfa, 12% other hay completed. Grasshopper problems many western areas.

OHIO: Average high temperatures upper 70s to low 80s; within 1 or 2° of normal. Average lows mid 50s to 60°; 2 to 3° above normal. Extremes 37°; 92°. Precipitation exceeded 1.00 in. most areas.

Days suitable for fieldwork 5.1. Soil moisture 17% short, 68% adequate, 15% surplus. Corn maturity 6 to 8 leaves emerged. Saturated soils limited cultivating, sidedressing, corn good. Corn borer sighted 2 weeks early. Soybeans good; some water damage may cause replanting. Winter wheat good; some local hail, wind damage. Haying good; advanced rapidly as weather permitted.

OKLAHOMA: Temperatures averaged normal southwest to 6° above normal northeast. Precipitation averaged 0.30 in. Panhandle to 1.15 in. east central.

Days suitable for fieldwork 4.1. Topsoil moisture 9% short, 61% adequate, 30% surplus. Subsoil moisture 7% short, 93% adequate. Wheat 5% poor, 75% fair, 20% good; 100% heading, 100% 1986, 100% avg.; 35% harvested, 30% 1986, 15% avg. Harvest delays lower overall quality. Early yields below average, test weights mid to high 50s. Sorghum 10% fair, 88% good, 2% excellent; 50% planted, 50% 1986, 60% avg. Cotton 7% poor, 65% fair, 15% good, 13% excellent; 45% planted, 65% 1986, 60% avg.; 1% squaring, none 1986, none avg. Many growers replanting washed out fields, fields with poor stands. Pastures, livestock good. Cattle marketings lower, prices steady to slightly higher.

OREGON: Temperatures above normal all areas. Coast maximums in 60s, 70s. Western interior

ranged from 80s to low 100s. East mostly 80s, 90s. Precipitation southwest, most areas east of Cascades. Mostly showers, thundershowers; heaviest precipitation eastern third of State along southern border.

Soil moisture 66% short, 34% adequate. First winter barley harvested; mid-Columbia fields turning color rapidly. Early spring wheat heading north central region, turning color Willamette Valley. Crimson clover, tall fescue seed fields swathed west; other grass seeds completed pollination, ready to swath. Hay making continued statewide; some rain, frost damage east. Dry peas harvested Umatilla County, yields below normal, good quality, some frost damaged fields disced under. Strawberry harvest continued, excellent quality, good yield. Picker shortage caused some over ripe fruit loss. Red raspberry harvest started. Blueberry harvest started. Hybrid cranberries full bloom south coast. Pears, apples thinned, cover sprayed Hood River, Medford; crops look good. Apples thinned, sprayed for codling moth Milton-Freewater. Cherry harvest started The Dalles, picker shortage problem. Green pea harvest full swing Milton-Freewater, pods set Willamette Valley. Snap bean, sweet corn planting continued west. Vegetables grew well, irrigation systems full use. Asparagus harvest neared completion, Walla Walla sweet onion harvest started Milton-Freewater. Livestock mostly good. Range, pastures fair to good, continued to mature ahead of normal although cooler weather slowed grass brown out. Hauling stockwater high desert southeast.

PENNSYLVANIA: Week began hot, turned sharply colder. Cold front triggered heavy thunderstorms. Average temperature 66°, normal 66°. Temperature extremes 36°; 91°. Average precipitation 0.99 in., 0.09 in. above normal.

Days suitable for fieldwork 5.0. Soil moisture 16% short, 79% adequate, 5% surplus. Corn 97% planted, 98% 1986, 94% avg.; 2% poor, 12% fair, 52% good, 34% excellent. Average corn height 10 in., 11 in. 1986, 8 in. avg. Soybeans 78% planted, 82% 1986, 73% avg.; 2% poor, 22% fair, 48% good, 28% excellent. Barley 51% heading or headed, 37% 1986; 44% turning yellow, 43% 1986; 5% ripe, 20% 1986. Wheat 82% heading or headed, 79% 1986; 18% turning yellow, 21% 1986; 1% poor, 14% fair, 57% good, 28% excellent. Oats 3% boot; 97% heading or headed, 100% 1986; 2% poor, 16% fair, 49% good, 33% excellent. First cutting alfalfa 62% complete, 69% 1986. Second cutting alfalfa 8% complete, 3% 1986. First cutting clover-timothy 43% complete, 50% 1986. Hay stands mostly good to fair. Feed from pastures average to above average. Activities: Planting corn, soybeans, vegetables; transplanting tobacco; harvesting hay, haylage, strawberries; weed control; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 0.73 in., 0.59 in. below normal. Highest weekly total rainfall 2.76 in. Arecibo observatory followed by 2.50 in. Mayaguez, 2.09 in. Humacao. Highest 24-hour total 1.36 in. Juana Diaz camp. San Juan mean temperature 82°, 2° above normal. Total rainfall 0.15 in., 1.13 in. below normal. Divisional temperature averaged about 81 to 82° on coasts, 76 to 79° interior with mean station temperature ranging from 84° Roosevelt Roads to 67° Pico Del Este-Luquillo. Lowest minimum temperature 62° Pico Del Este-Luquillo, highest maximum temperature 95° Mayaguez.

SOUTH CAROLINA: Scattered showers from less than 0.50 to more than 1.00 in. of rainfall across State. Temperatures averaged cooler than normal.

Days suitable for fieldwork 5.8. Soil moisture 20% very short, 54% short, 26% adequate. Cotton 52% squaring, 18% 1986, 31% avg.; 2% poor, 25%

fair, 73% good. Soybeans 66% planted, 64% 1984, 66% avg.; 6% poor, 70% fair, 24% good. Wheat fair to good with good yields. Small grains fair to good. Pastures fair.

SOUTH DAKOTA: Average temperatures ranged 3 to 80 above normal. Extremes 42°; 102°. Black Hills low 36°.

Days suitable for fieldwork 5.1. Topsoil moisture varied throughout State with both adequate, short areas; 2% critical, 39% short, 57% adequate, 2% surplus. Some reports of low hay yields due to lack of moisture. Row crop progress 10 to 12 days ahead of normal. Small grain progress 1 to 2 weeks ahead of normal. Range, pastures mostly good to excellent. Feed, stockwater mostly adequate to surplus.

TENNESSEE: Temperatures above normal. Precipitation below normal.

Days suitable for fieldwork 6.0. Soil moisture 27% very short, 61% short, 12% adequate. Crops fair to good. Corn 6% tasseling, 14% 1986, 6% avg.; 12% poor, 63% fair, 25% good. Tobacco 92% transplanted, 75% 1986, 85% avg.; 6% poor, 72% fair, 22% good. Wheat 80% ripe, 80% 1986, 60% avg. Rapid wheat harvest 40%, 5% 1986, 12% avg. Alfalfa 2nd cutting 30%, 20% 1986, 25% avg. Hay 1% very poor 8% poor, 51% fair, 38% good, 2% excellent. Cattle mostly good. Pastures 2% very poor, 16% poor, 55% fair, 27% good.

TEXAS: High pressure northwest Gulf, low pressure western part State set up very strong tropical flow. Disturbances along trough, low pressure dumped excessive rains many areas. By weekend, pattern breaking down, open weather returned. Most area above normal rainfall, except Panhandle slightly below normal. Temperatures below normal, except east.

Crops: Corn excellent progress Plains. Fields tasseling Cross-Timbers, Blacklands, central, south; doughing increased Coastal Bend. Corn 50% silked, 61% 1986, 59% avg.; 13% doughing, 46% 1986, 39% avg.; none dented, 13% 1986, 13% avg. Grain sorghum fields benefited from moisture; some fields began yellowing. Planting proceeded drier areas of Plains. Fields blooming Blacklands, central; turning color Coastal Bend, Valley. Some low lying fields washed out central areas. Sorghum 31% headed, 51% 1986, 46% avg.; 3% turning color, 29% 1986, 20% avg.; none mature, 3% 1986, 2% avg. Cotton fields could use some drier, warmer weather many central, southern areas. Planting good progress Plains early week, slowed by midweek. Some additional planting necessary Plains. Wet ground delayed much needed cultivation. Some plants shedded squares Blacklands because excessive rain. Progressed good Valley. Setting bolls 5%, 7% 1986, 6% avg. Small grain harvest delayed. Fields lodging, sprouting increased. Many remaining fields central, south damaged. Wheat 82% turning color, 99% 1986, 91% avg. Most rice fields along Upper Coast under permanent flooding. Rice 3% headed, 9% 1986, 3% avg. Soybean planting slow Upper Coast, Plains. Some damage because excessive moisture. Peanut planting slowed, some scattered replanting. Planted fields good stands. Other crops planted: Peanuts 39%, 50% 1986, 54% avg. Soybeans 58%, 60% 1986, 62% avg. Sunflowers 35%, 54% 1986, 65% avg. Other crops harvested: Oats 35%, 49% 1986, 56% avg.

Commercial Vegetables: Rio Grande Valley, cantaloup harvest nearly complete, quality suffered because rain. Tomato harvest slow. Excessive rain San Antonio-Winter Garden area caused some heavy losses unharvested crops. Onions hard hit. Excessive rain hurt watermelon crop. Trans-Pecos cantaloups behind schedule. Early fields blooming. East harvesting activities slowed. Diseases increased many fields. High Plains, potatoes

excellent progress, onions good progress. Peppers doing well. Pecan nut sets better than expected many areas. Most 1st casebearer spraying completed, lower than normal population.

Range and Pasture: Ranges, pastures continued to improve all areas. Growth, quality forage good. Fertilization where possible. Some hay damaged before baling. Lot of hay cut but not baled. Hornflies increased untreated cattle herds. Prices fallen some.

UTAH: Precipitation none to heavy. Temperature maximums 6° below to 7° above normal. Minimums 3° below to 9° above normal.

Days suitable fieldwork 5.9. Soil moisture 33% short, 67% adequate. Winter wheat 85% headed, 72% 1986, 57% avg. Spring wheat 78% booted, 77% 1986, 42% avg.; 54% headed, 43% 1986, 23% avg. Barley 81% booted, 75% 1986, 58% avg.; 55% headed, 54% 1986, 33% avg. Oats 66% booted, 21% 1986, 37% avg.; 21% headed, none 1986, 6% avg. Corn 14 in. high, 7 in. 1986, 5 in. avg. Alfalfa 1st cutting 55%, 57% 1986, 36% avg. Lower ranges need rain, higher ranges good. Livestock movement to summer ranges almost completed. Major farm activities: Irrigation, hay harvest, moving livestock, cultivation, weed control.

VIRGINIA: Normal temperatures with scattered thunderstorms during mid, late period. Temperature range 43° to 93°. Precipitation averaged 0.26 in.

Days suitable for fieldwork 5.4. Topsoil moisture 15% short, 85% adequate. Thunderstorms hindered planting, hay curing. Field crops good to excellent. Corn 98% planted, 99% 1986, 99% avg. Soybeans 62% planted, 60% 1986, 62% avg. Flue-cured tobacco transplanting neared completion. Burley tobacco 90% transplanted, 57% 1986, 81% avg. Fire-cured tobacco 96% transplanted, 99% 1986, 99% avg. Small grain harvest continued. Extensive lodging due to stormy weather north, eastern area. Barley 30% harvested, 51% 1986, 51% avg. Wheat 10% harvest complete, 20% 1986, 17% avg. Oats 28% complete, 30% 1986, 24% avg. Effects of cool, wet spring being overcome. Hay yields excellent. Over mature fields reported. Livestock good condition with lush pastures. Potatoes excellent.

WASHINGTON: Scattered showers, warm temperatures statewide. Temperature extremes 40°; 93°. Maximum precipitation 0.67 in.

Soil moisture 15% short, 85% adequate. Winter wheat 96% headed, 77% 1986, 73% avg. Winter wheat mostly good. Spring wheat, barley also heading well. Farmers gearing up for harvest. First cutting alfalfa underway. Some farmers caught with hay down when rains hit. Cherry harvest began. Fruit thinning slightly behind schedule; continued

full swing. U-pick strawberry farmers doing well. Blueberry, raspberry crops progressed well. Scattered rain showers improved range, pasture conditions; 10% short, 80% adequate, 10% surplus. Livestock graze range, pasture. Kittitas County received wool pool. Grant County, green pea harvest 5% complete.

WEST VIRGINIA: Average temperatures 69°, 1 to 3° above, except north central division 1° below. Extremes 35° Greenbank; 95° Wheeling. Precipitation near normal. Most rainfall 2.10 in. Wheeling, Belington, least 0.10 in. Romney.

Days suitable for fieldwork 5.0. Wheat, barley, oats, corn good to fair. Wheat 20% ripe. Corn 95% planted. Oats 9% ripe. Barley 30% ripe. Tobacco fair; 86% set. Hay good to fair; 1st cut 49% complete. Pasture fair to good. Farm activities: Harvesting hay, tending livestock, spraying, setting tobacco, general maintenance.

WISCONSIN: Temperatures averaged 69°, 3° above normal. Extremes 32°; 102°. Record highs 13th, 14th. Rainfall 0.10 to 0.80 in. Rain needed most areas.

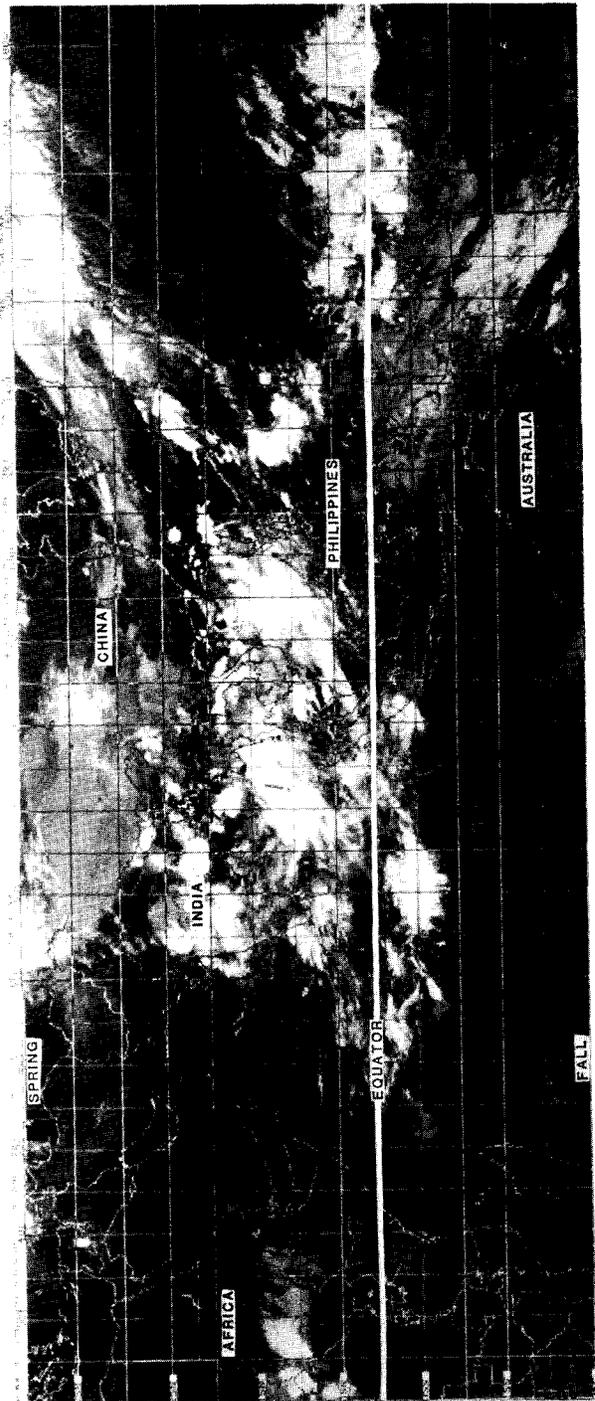
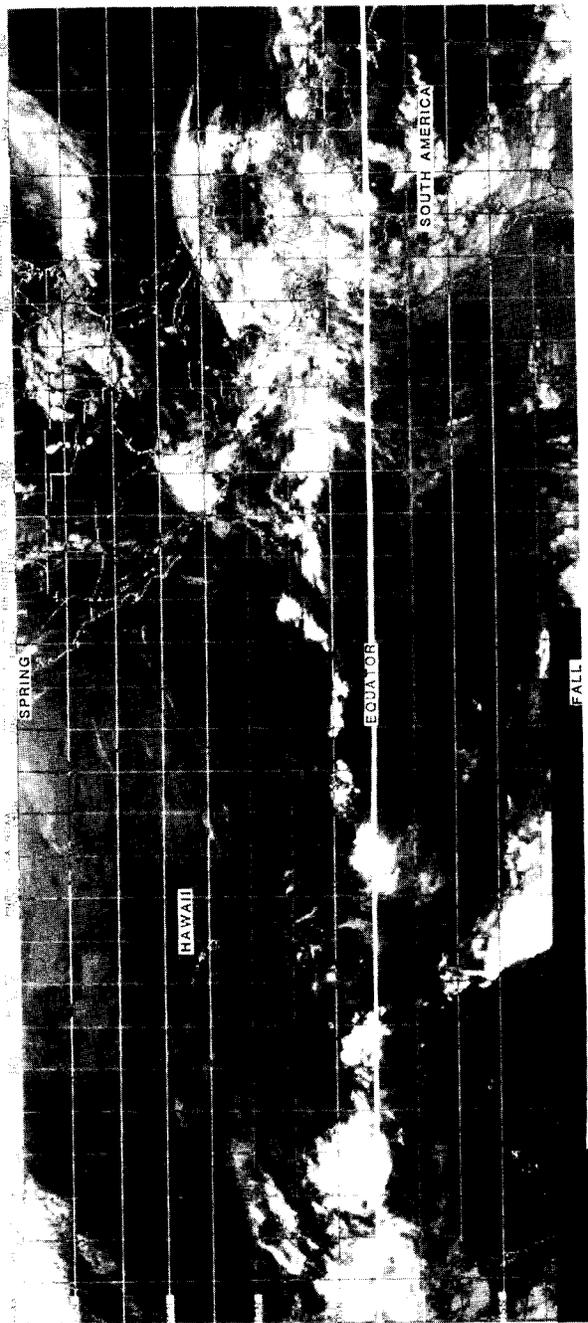
Days suitable for fieldwork 5.4. Soil moisture 40% short, 58% adequate, 2% surplus. Crops 2% poor, 17% fair, 70% good, 11% excellent. Corn 1% poor, 12% fair, 60% good, 27% excellent. Average corn height 13 in., 8 in. 1986, 6 in. avg. Soybeans 92% planted, 89% 1986, 88% avg. First crop hay 58% cut, 56% 1986, 43% avg. Yields below average except for red clover east central, alfalfa south. Hay quality down. Oats 29% headed, 13% 1986, 7% avg. Pasture 84% normal. Potatoes blossoming. Peas very good, harvest began. Snap beans being planted.

WYOMING: Temperatures above normal. Precipitation mostly above normal.

Days suitable for fieldwork 4.0. Topsoil moisture 22% short, 67% adequate, 11% surplus. Spring wheat mostly emerged. Oats 95% emerged, 95% 1986. Barley mostly emerged, 95% 1986. Corn 95% planted, most 1986; 90% emerged, 85% 1986, 90% avg. Potatoes 85% planted, most 1986; 65% emerged, 75% 1986, 80% avg. Dry beans 35% planted, 90% 1986, 90% avg; 70% emerged, 60% 1986, 60% avg. Sugarbeets 50% thinned, 50% 1986. Winter wheat 5% not jointed, 5% 1986; 15% jointed, 15% 1986; 30% boot, 30% 1986; 50% headed, 50% 1986. Russian aphid infestations continued, some yield losses estimated at 50%. Some winter wheat being cut for hay, other fields being plowed under. Field crops mostly good. First cutting alfalfa started. Livestock mostly good to excellent. Ranges, pastures mostly good. Cattle moved to summer ranges 70%, sheep 70%.

Global Weather Satellite Image

June 15, 1987



International Weather and Crop Summary

June 7-13, 1987

HIGHLIGHTS:

UNITED STATES ... Above-normal temperatures hasten small grain maturity in most areas of the Nation. Excessive moisture plagues the southern Great Plains, promotes disease, and delays seeding and harvesting. Crop development surges ahead of normal in the central and northern Great Plains and Corn Belt. Dryness hampers crop growth and seeding in the Southeast.

U.S.S.R. ... In Western U.S.S.R., widespread showers and warmer weather benefit winter grains in the Ukraine and North Caucasus. In the New Lands, dry weather accompanies a warming trend in the southern Urals and western Kazakhstan.

EUROPE ... Showers in western and central Europe benefit heading and filling wheat. Dry, warm weather in the southeast favors summer crop planting.

SOUTH ASIA ... Showers in southern India promote summer crop planting. Vegetative rice progresses normally.

SOUTHEAST ASIA ... Moderate to heavy showers benefit rainfed grains throughout Southeast Asia and the Philippines.

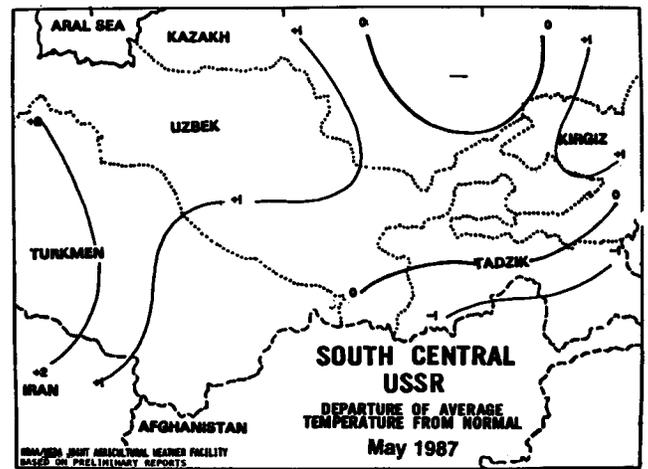
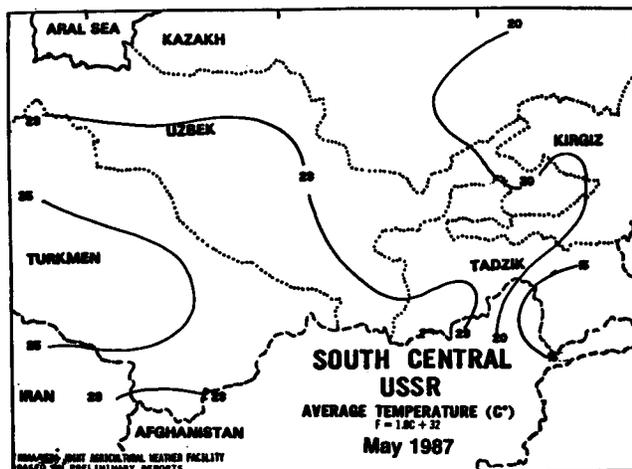
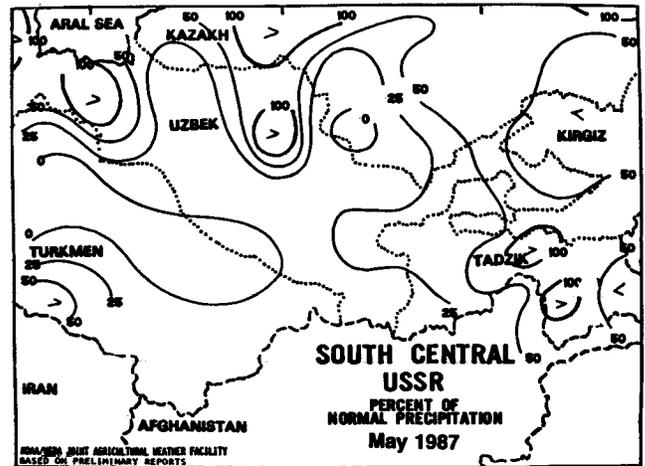
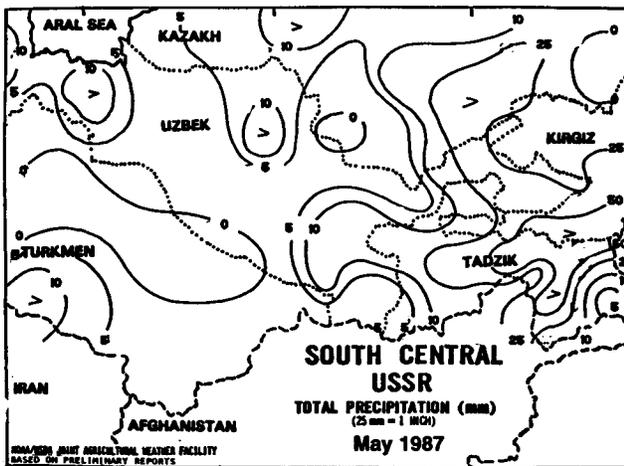
EASTERN ASIA ... Dry weather returns to crop areas in the northern portion of the North China Plain. Welcomed dryness covers rice areas in Guangxi and Guangdong.

SOUTH AMERICA ... Showers cover southern Brazil, while dry weather in Argentina promotes field preparations for wheat planting.

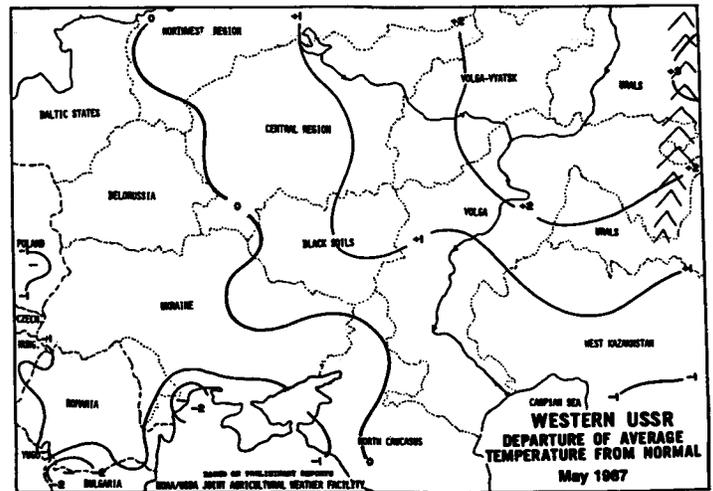
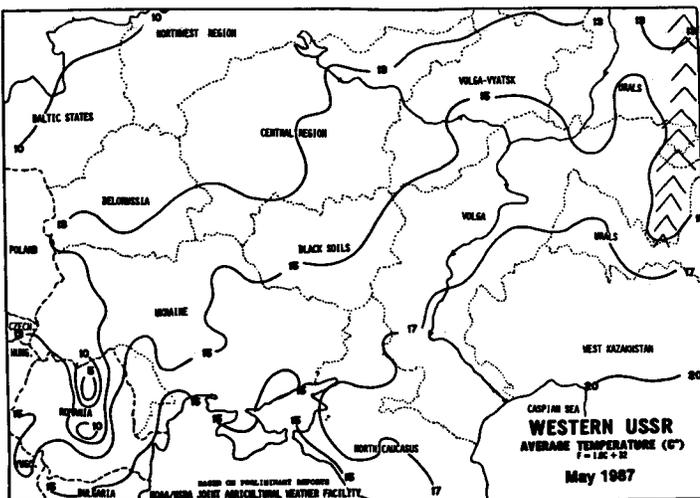
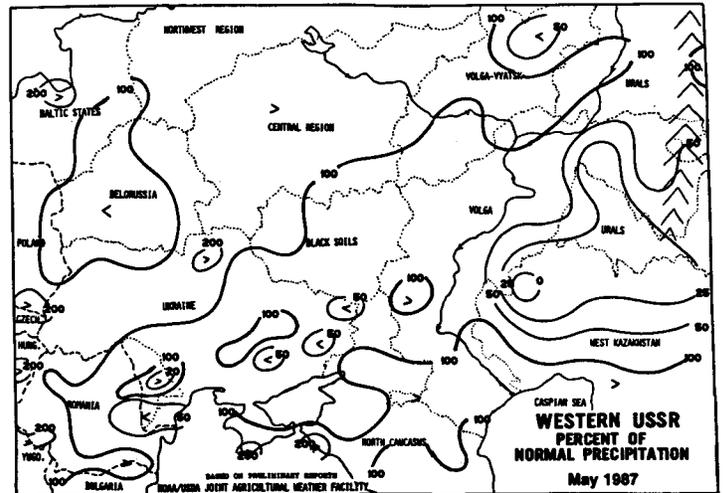
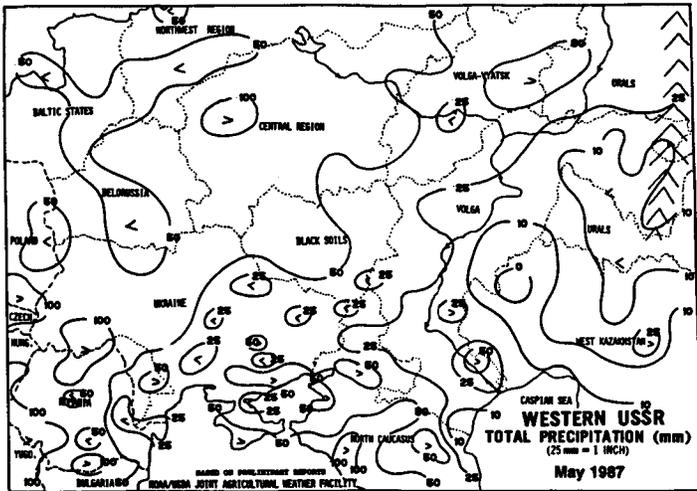
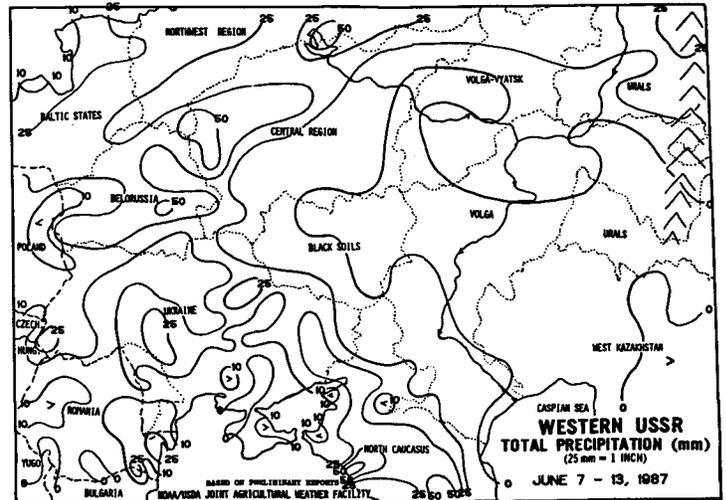
AUSTRALIA ... Rain in western and southeastern wheat areas benefits emergence and establishment.

MEXICO ... Widespread showers benefit corn growth.

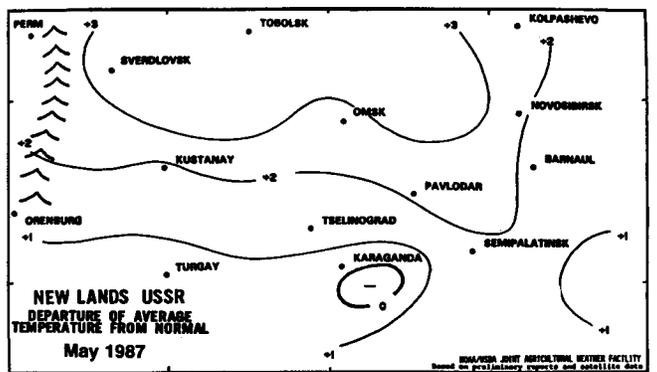
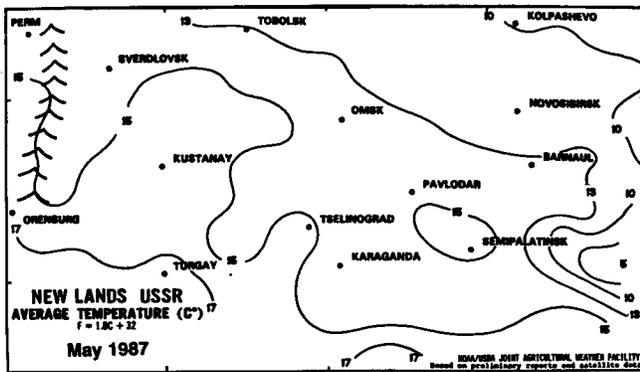
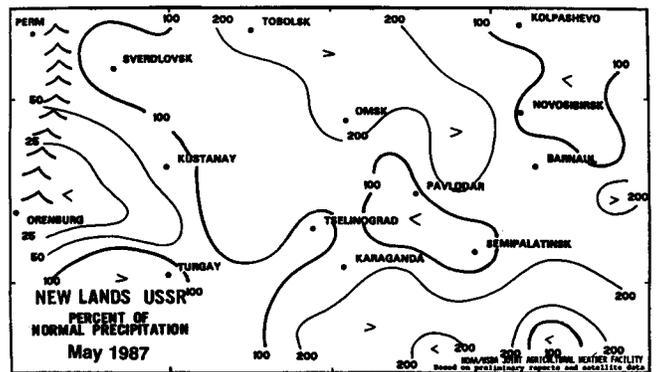
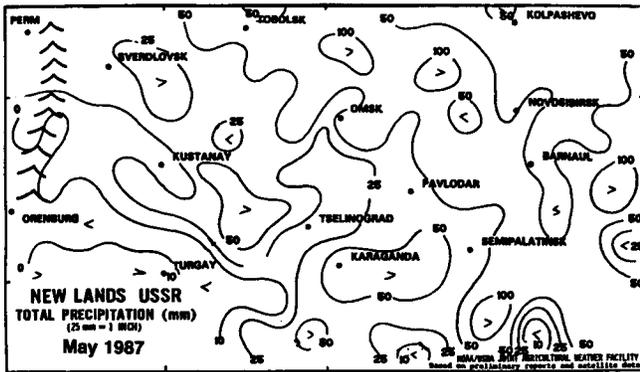
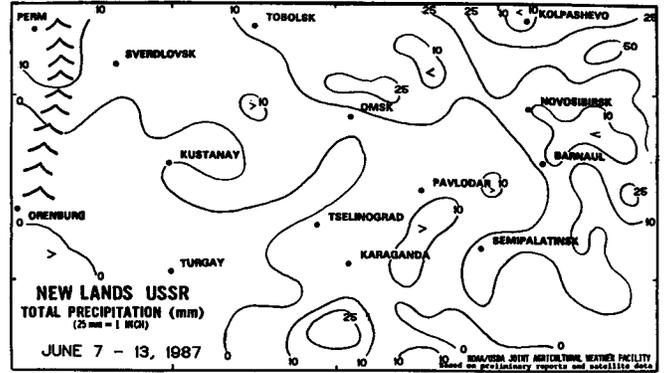
CANADA ... Light rain provides minimal relief to the increasing moisture shortage in the southwestern grain belt.



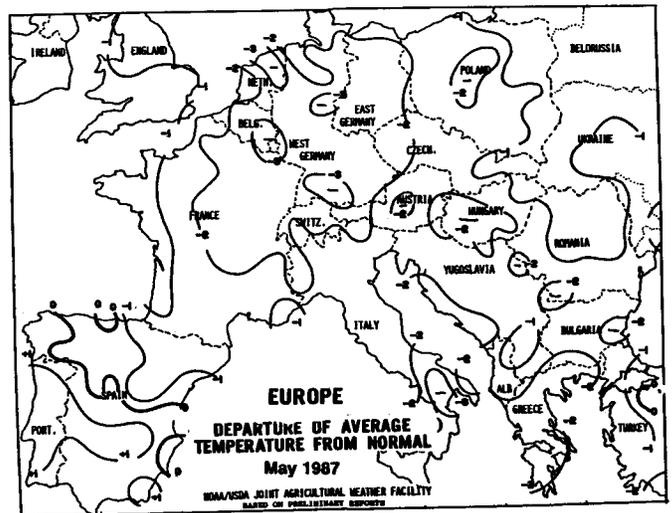
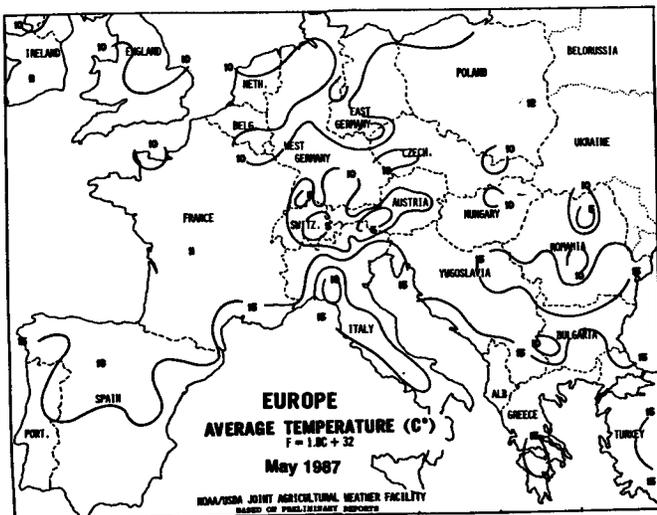
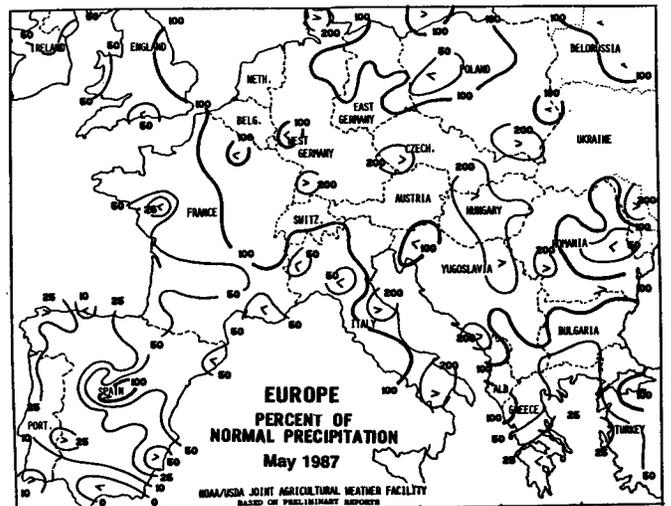
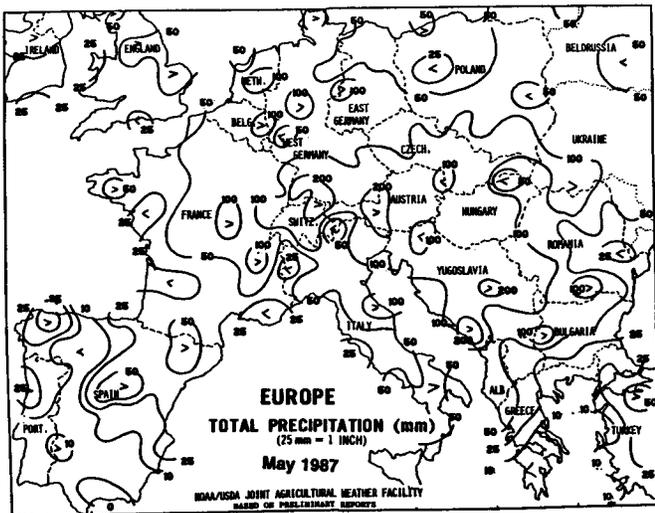
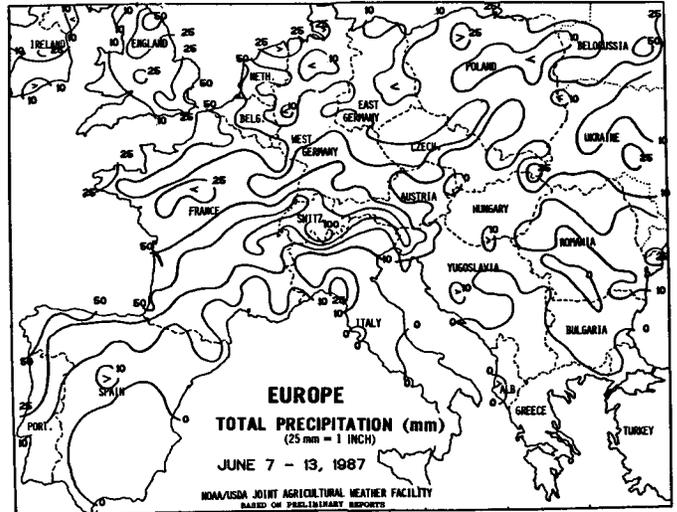
WESTERN U.S.S.R. ... Early-week widespread showers over the Ukraine and North Caucasus benefited winter grains which entered the heading stage as well as corn and spring barley in the vegetative stage. Dry weather returned to crop areas in the Black Soils Region, Volga, and the southern Urals. In May, below-normal precipitation, mostly scattered showers, covered Moldavia, the eastern Ukraine, the northern North Caucasus, the eastern Black Soils Region, and the Volga. The variable precipitation pattern in these areas caused only minor delays in spring planting, and allowed the planting pace to increase steadily during the month. Above-normal May precipitation likely caused some planting delays in the Baltics, the western Ukraine, and the Central Region. This past week, moisture conditions throughout much of the region continued adequate for crop growth. A warming trend during the week helped promote crop growth, previously delayed by unseasonable cold. The combination of May dryness and recent hot, dry weather in the Volga and southern Urals has reduced soil moisture.

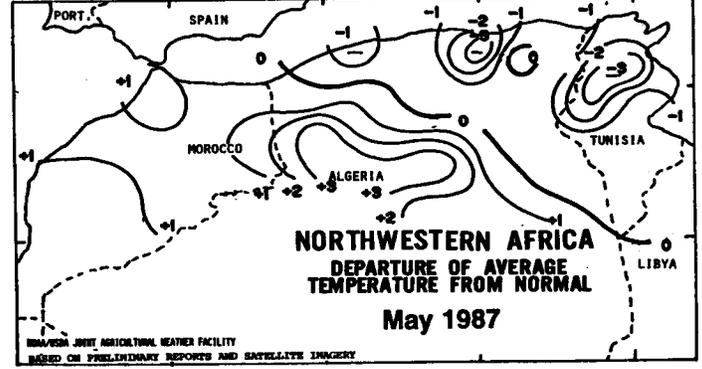
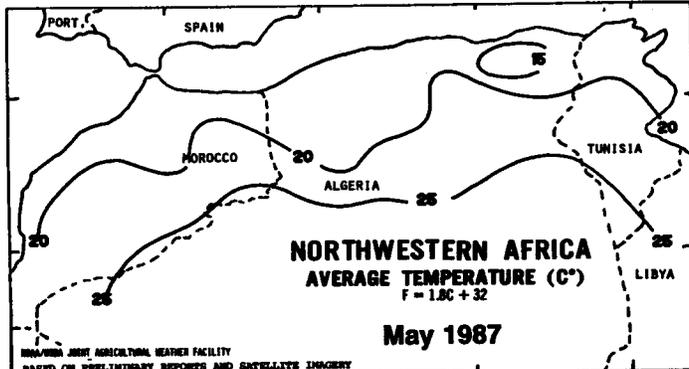
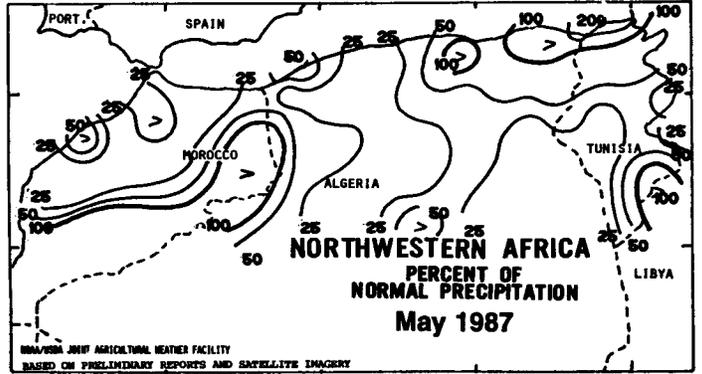
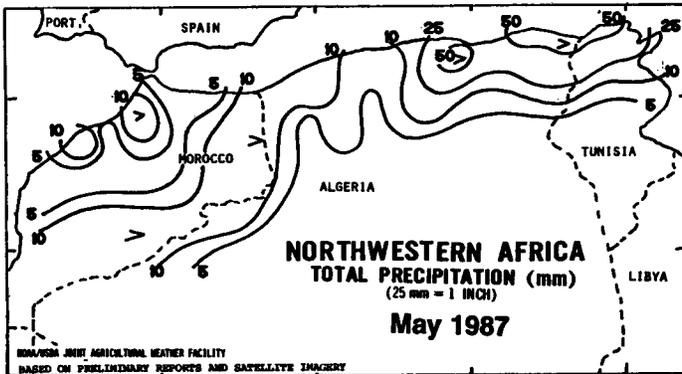
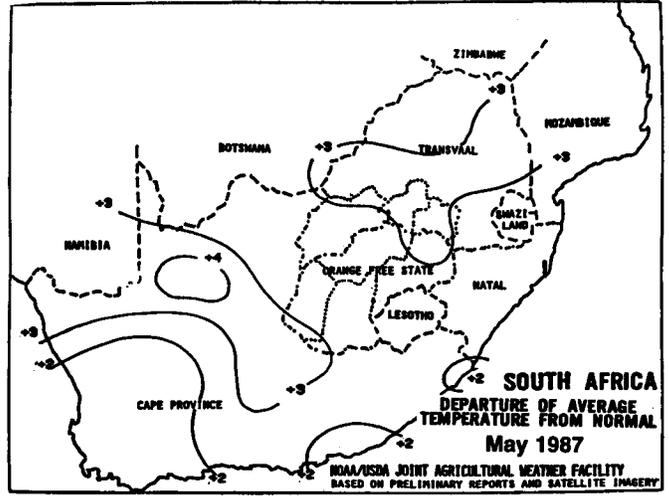
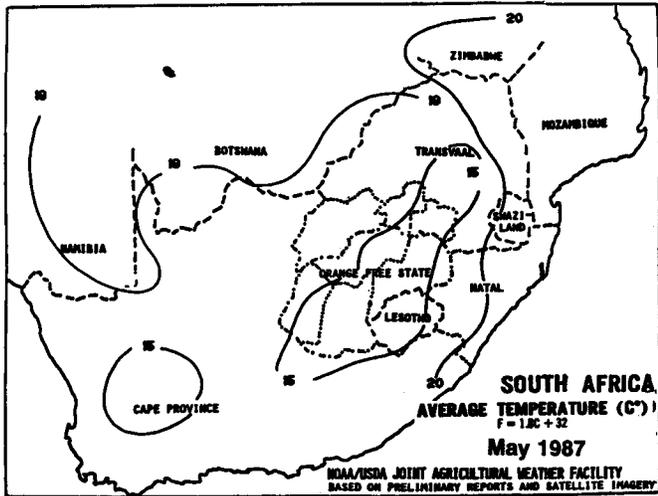
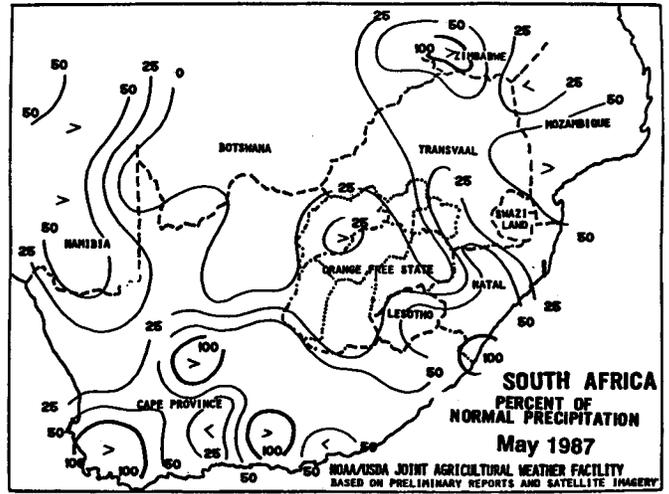
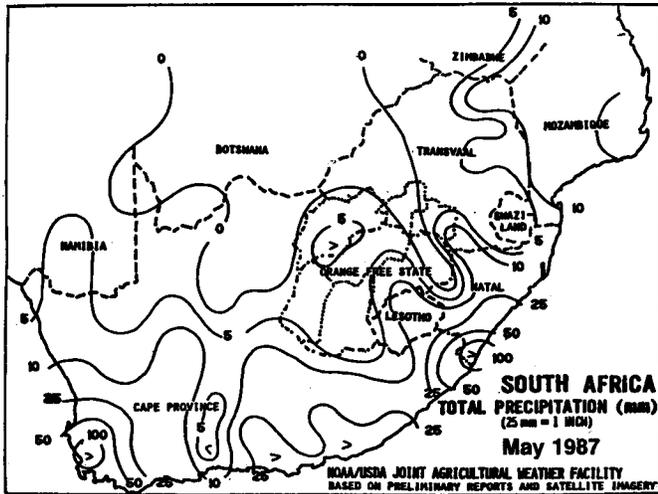


NEW LANDS ... High pressure over the west kept most spring grain areas dry. In the east, light showers (10-25mm) fell early in the week. In May, spring grain sowing took place under mostly favorable weather conditions. Above-normal precipitation in central and eastern areas provided favorable topsoil moisture needed for uniform seed emergence and early plant establishment. A drying trend took place during the month in crop areas around Orenburg. May temperatures increased to above normal in most areas, helping to dry topsoils for planting. As a result of May dryness and recent hot, dry weather, soil moisture was becoming limited in the southern Urals and western Kazakhstan.

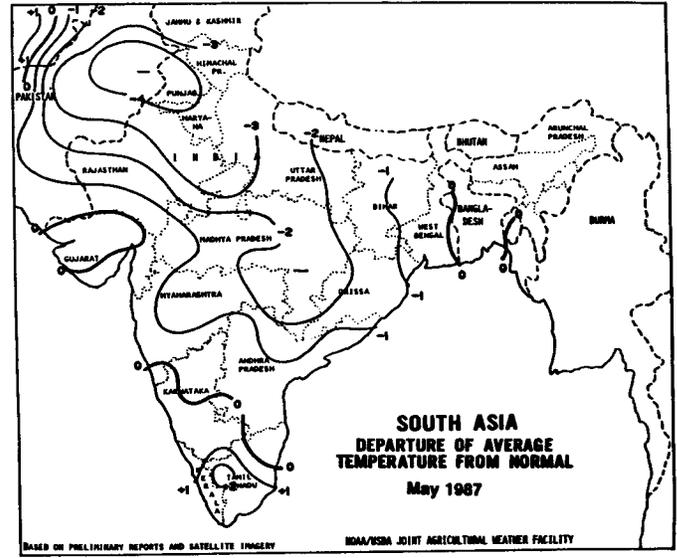
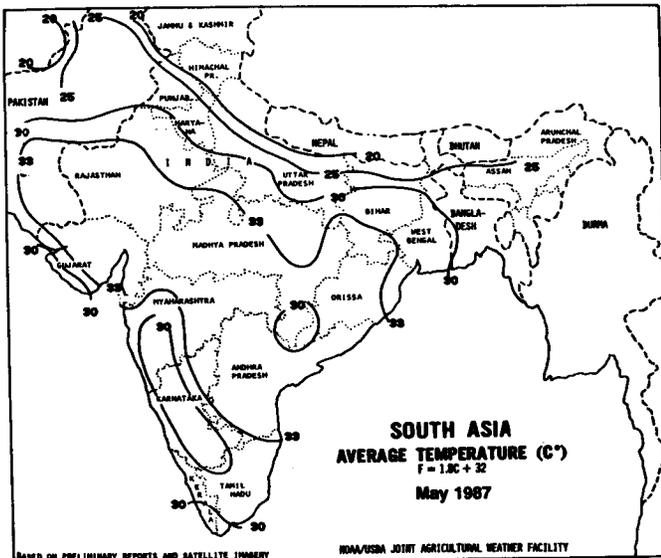
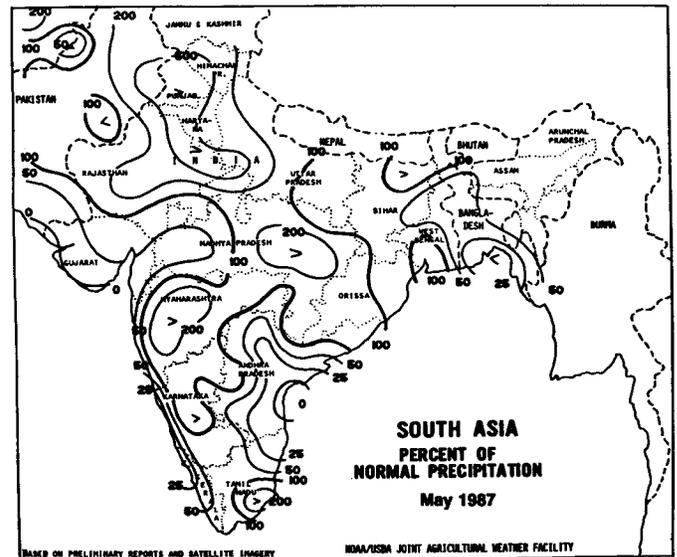
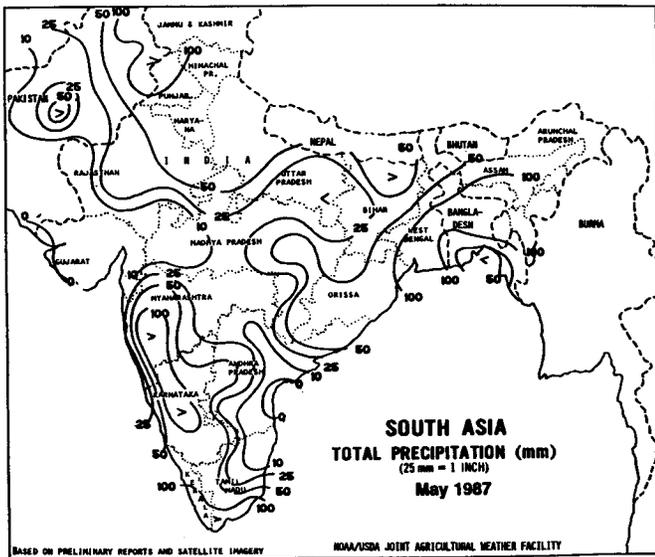
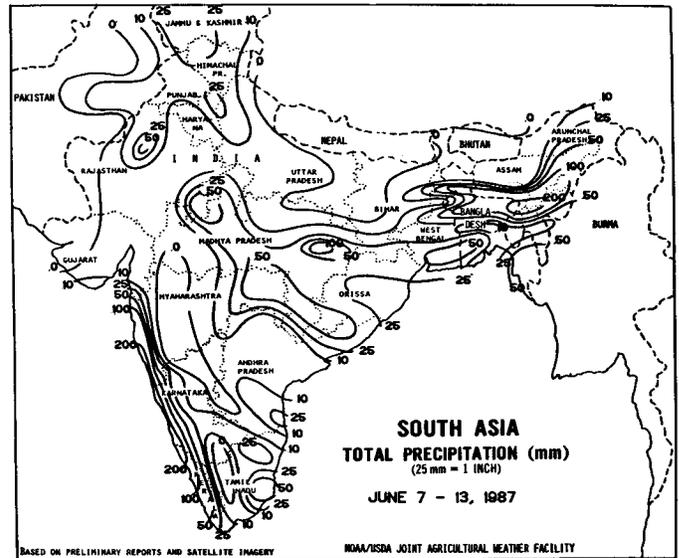


EUROPE ... Moderate to heavy showers (10 to more than 50mm) from England and France to Austria benefited heading to filling winter wheat. The increased rainfall in southern France improved conditions for vegetative corn, following below-normal rainfall since the April planting. Light rain (less than 10mm) persisted throughout Spain, benefiting wheat harvesting. However, persistent dry weather in May stressed Spanish grains in the filling stage. Mostly dry weather in Hungary, Romania, and Yugoslavia favored summer crop planting, delayed by excessive May rainfall. Except for the southwest, moisture favored winter wheat in the heading to filling stages of development. May temperatures were 1-3 degrees C below normal in all areas except southern Spain, with periods of light, scattered frost in northern Spain and in northern Europe from West Germany to Poland.

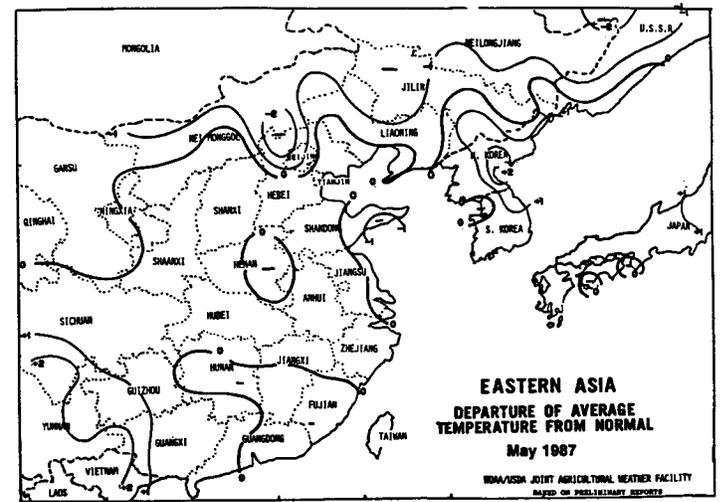
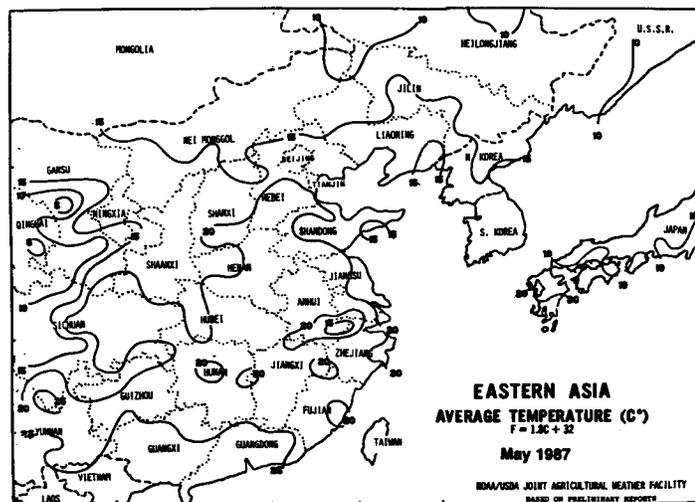
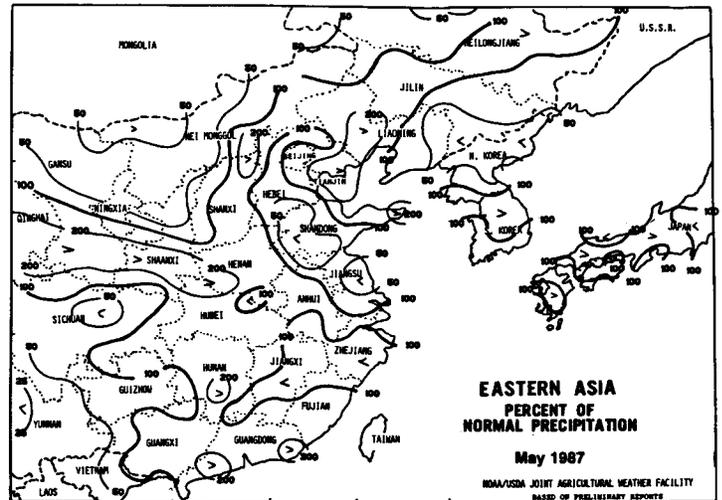
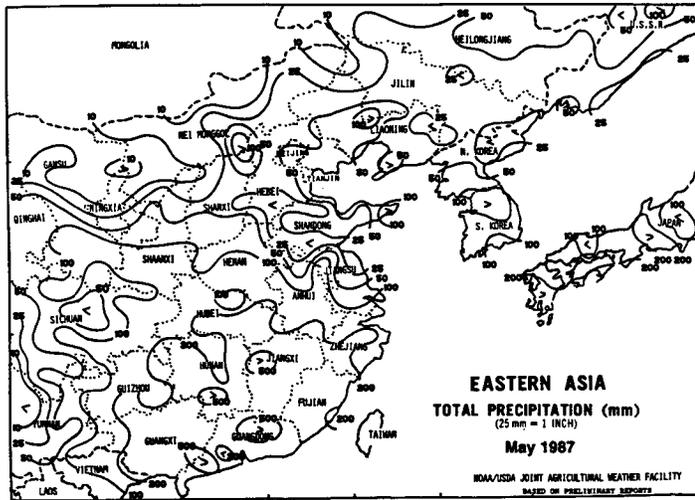
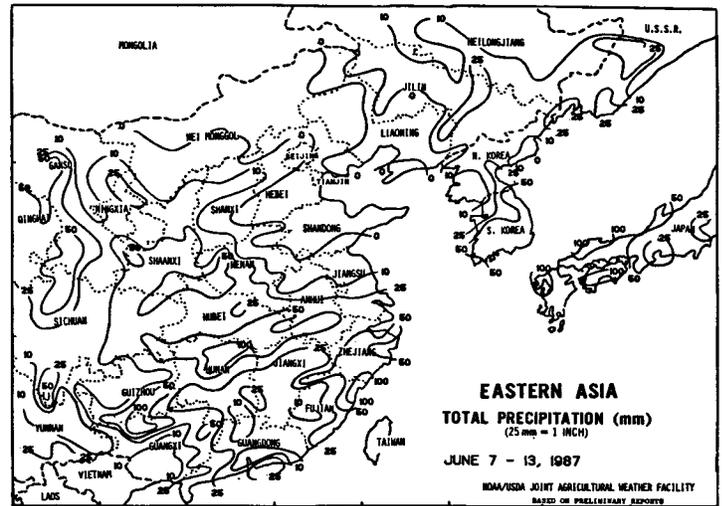




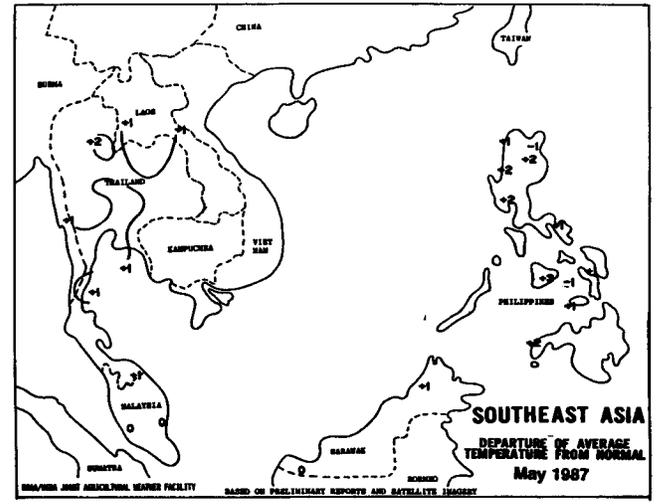
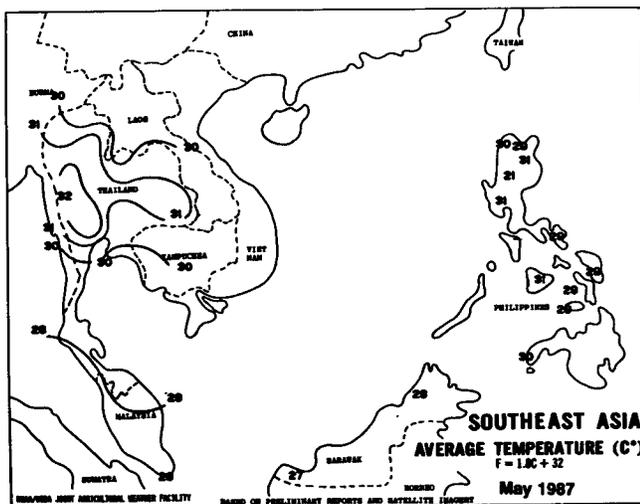
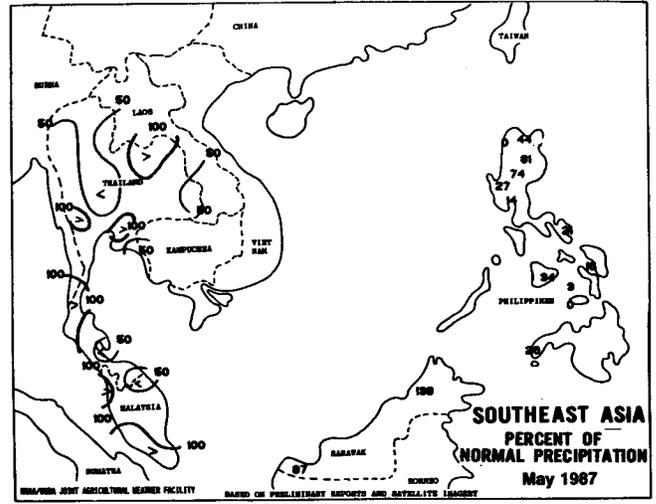
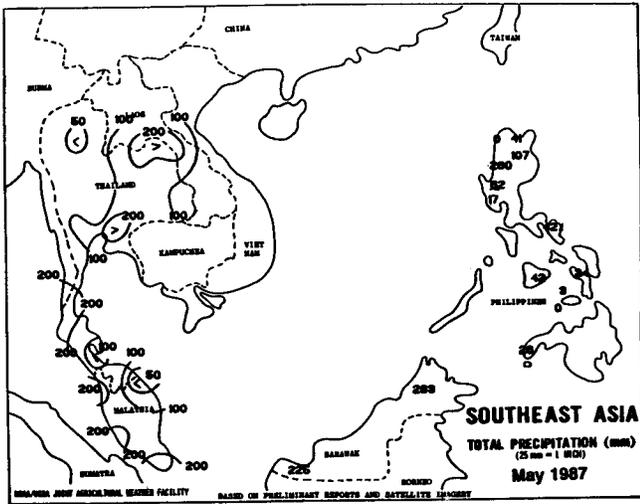
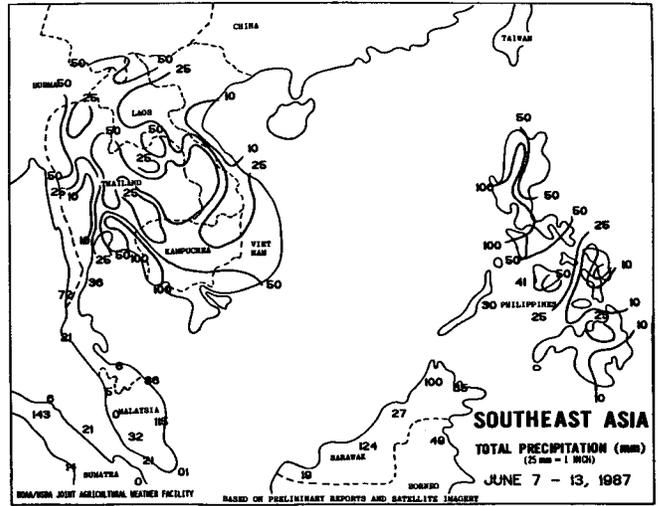
SOUTH ASIA ... Variable showers (10 to more than 200mm) continued throughout South Asia, promoting cotton and groundnut planting activities and maintaining favorable moisture reserves for vegetative rice. Heavy showers, however, in Bangladesh and along India's southwest coast likely promoted flooding of already wet areas. Light to moderate rain (2-27mm) in northern Pakistan and northern India maintained irrigation reserves for cotton and rice. In May, periodic dry weather in eastern coastal areas favored summer rice harvesting. However, cool, wet weather in northern India and northern Pakistan hampered wheat harvesting and caused damage to mature crops.



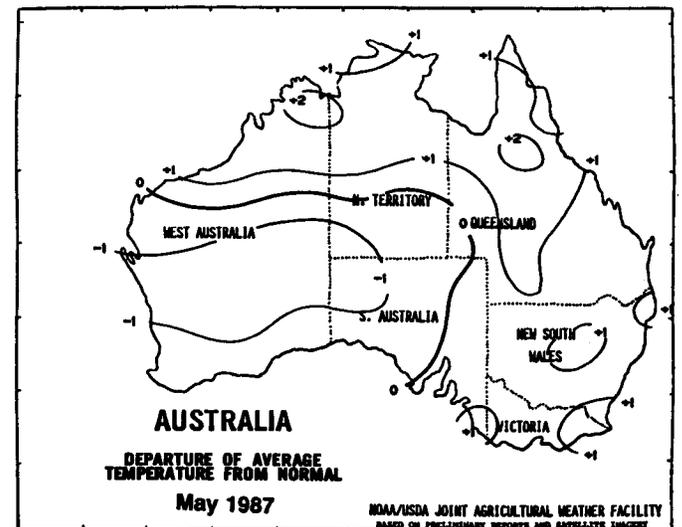
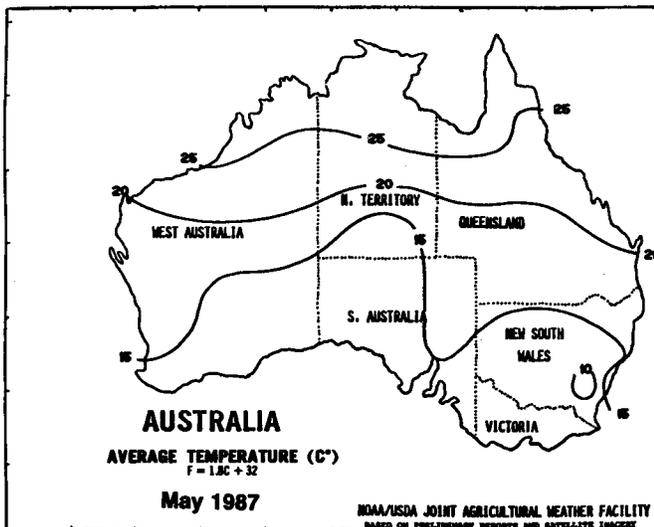
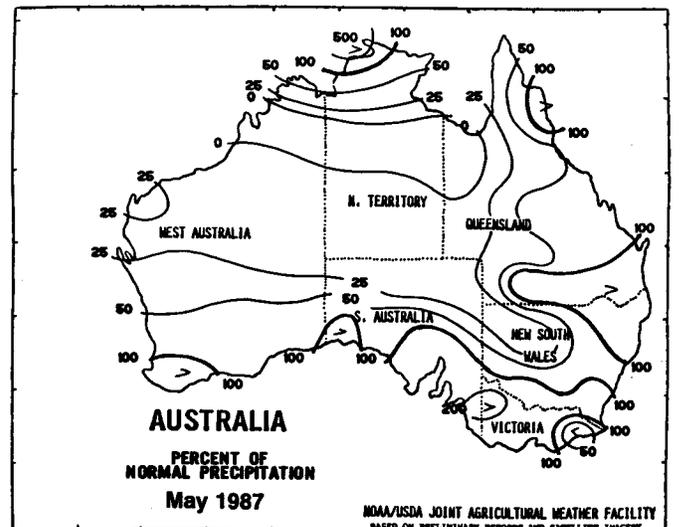
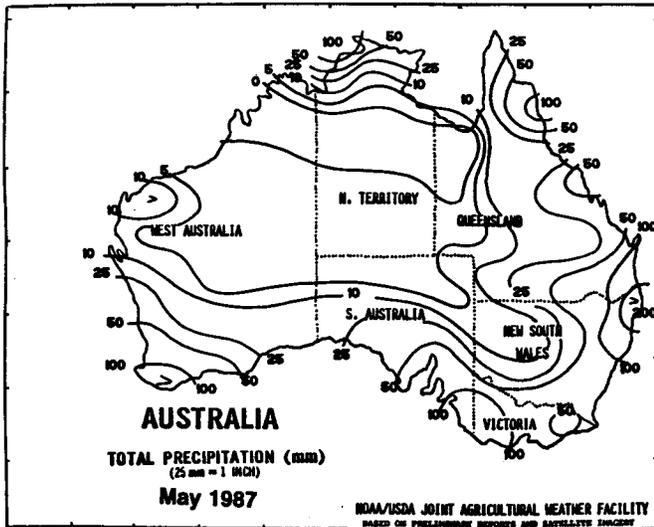
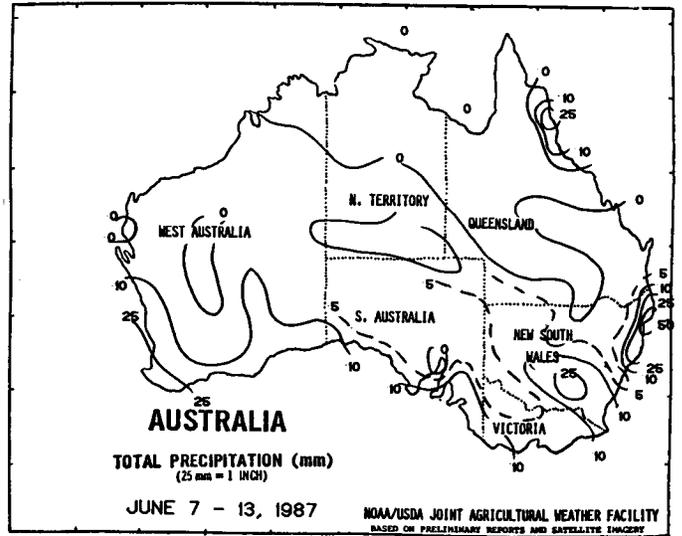
EASTERN ASIA ... Dry weather over crop areas in Shandong, northern Jiangsu, and Hebei favored winter wheat maturation. More rain is needed for early corn, early soybeans, and cotton. Light to moderate precipitation (20-68mm) over southern Shaanxi, Henan, Hubei, and Anhui maintained May's above-normal rainfall pattern, benefiting early rice in the heading stage and intermediate rice approaching the heading stage. In southern China, welcomed dryness over western Guangxi and Guangdong helped floodwaters to recede, following excessive rain since mid-May. In the Manchurian Valley, widespread showers favored corn and soybeans in Jilin and southern Heilongjiang. Dry weather continued May's below-normal precipitation pattern in Liaoning and northern Heilongjiang. Above-normal precipitation continued over Korean crop areas.



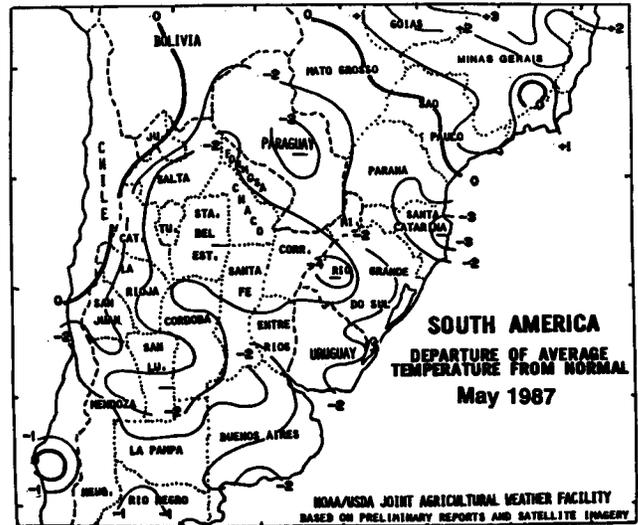
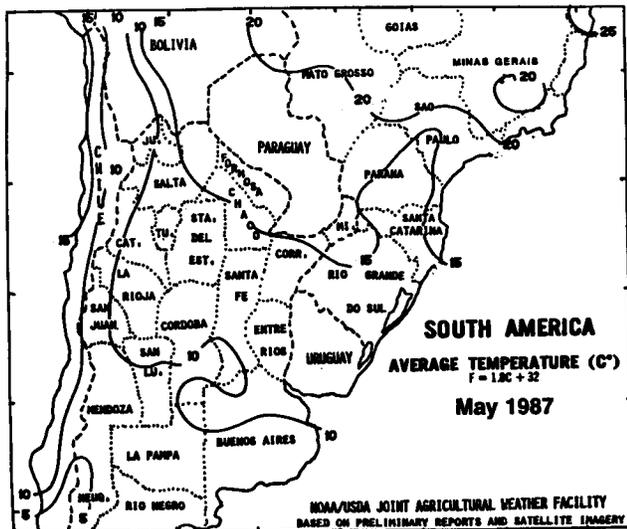
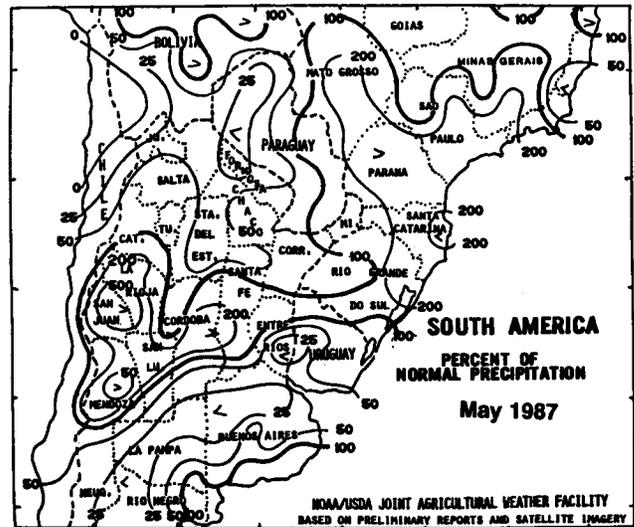
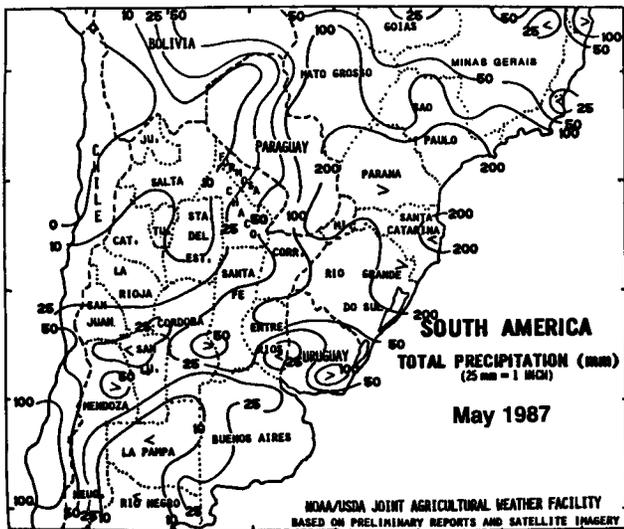
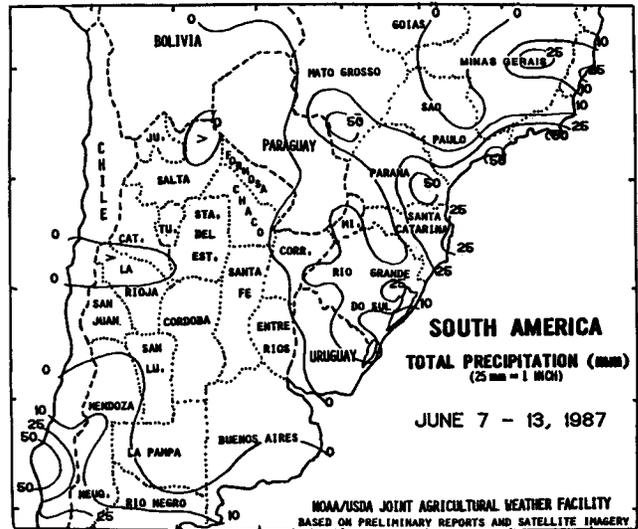
SOUTHEAST ASIA ... Moderate to heavy showers (18-148mm) covered Thailand's rainfed crop areas, maintaining beneficial moisture reserves as corn and rice near reproduction. Dry pockets (less than 10mm) continued in central Vietnam and peninsular Thailand. Rainfall was mostly below normal in May throughout Southeast Asia, but amounts ranged from 60 to 238mm in Thailand's crop regions, maintaining adequate soil moisture for vegetative corn and rice. In the Philippines, moderate to heavy showers (25 to more than 200mm) improved conditions for rainfed corn and rice. Recently planted crops, however, in western Luzon may have been washed out by rainfall exceeding 200mm. Below-normal rainfall had persisted throughout the Philippines from November through early May.



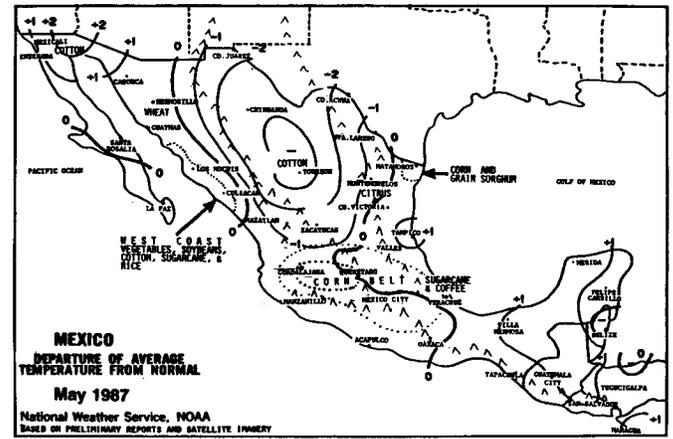
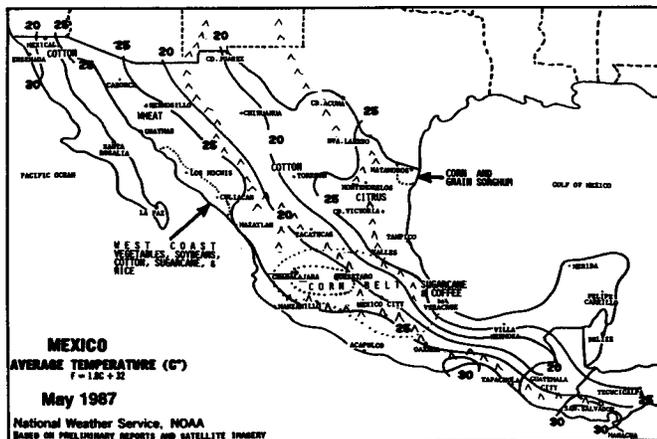
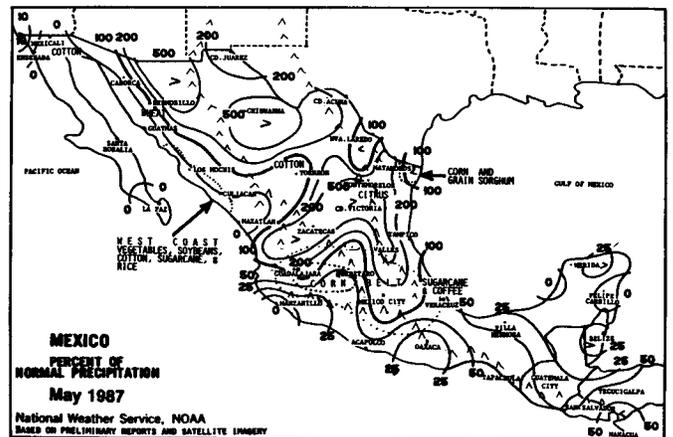
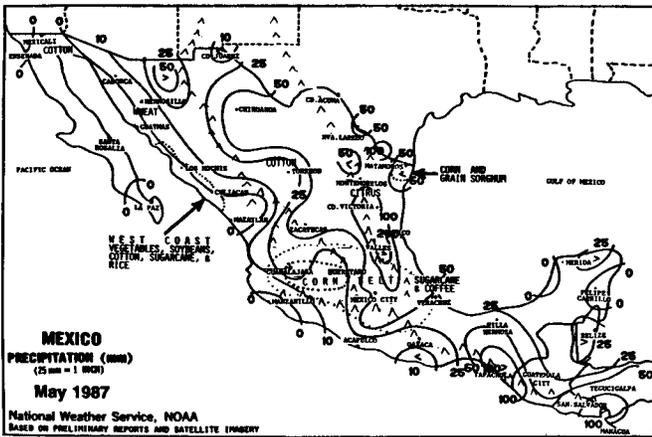
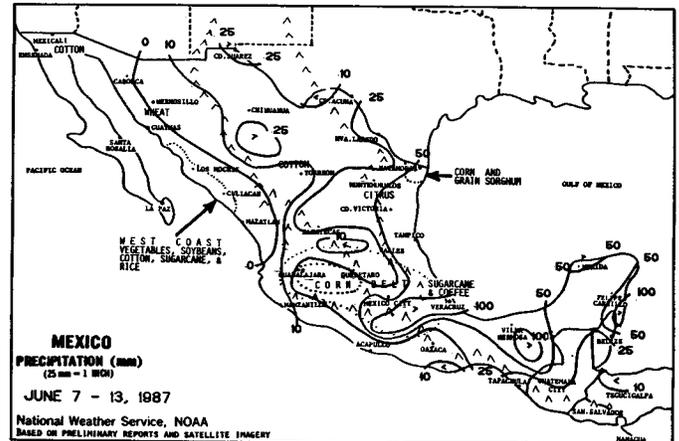
AUSTRALIA ... Light to moderate rain (2-21mm) swept through Australia's winter grain areas, benefiting emerging and early vegetative wheat. Dry weather continued in southeastern Queensland, however, reflecting this season's below-normal rainfall pattern. Moisture reserves in Western Australia, South Australia, and Victoria favored the crop's normal development, following near-to above-normal May rainfall. Below-normal rainfall since early May in New South Wales depleted moisture reserves, but recent rain improved conditions in most areas in the south. Wheat planting will continue through the end of June. Showers (10-56mm) benefited sugarcane in coastal areas of northern Queensland and northern New South Wales, reflecting May's rainfall pattern.



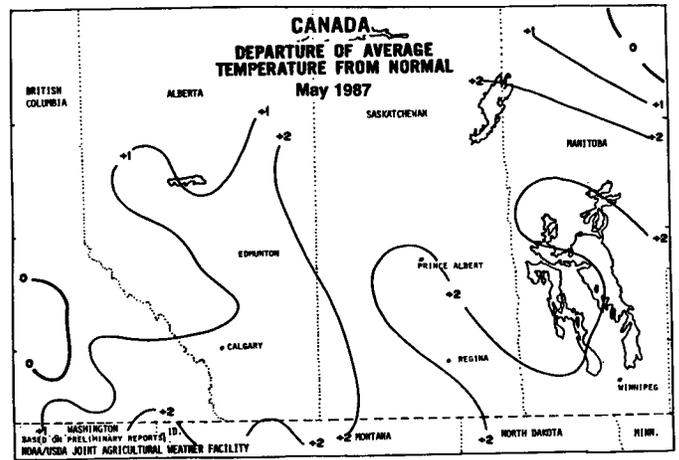
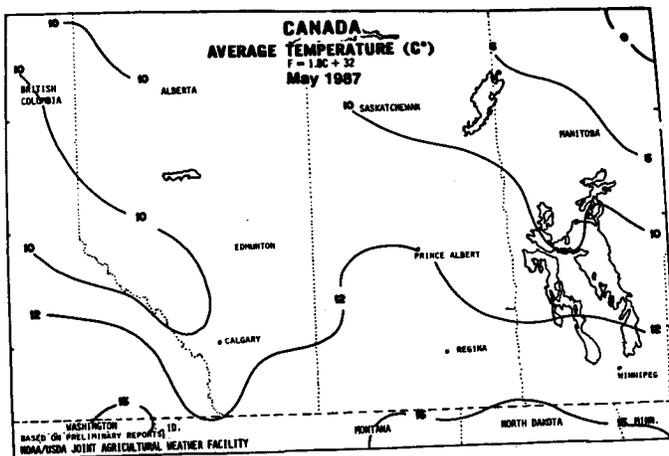
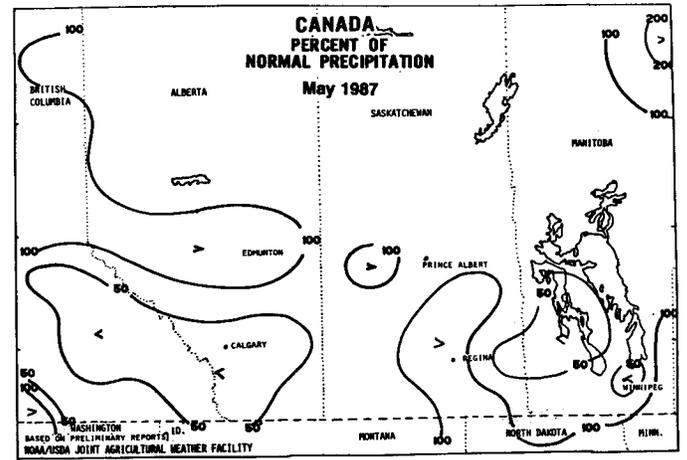
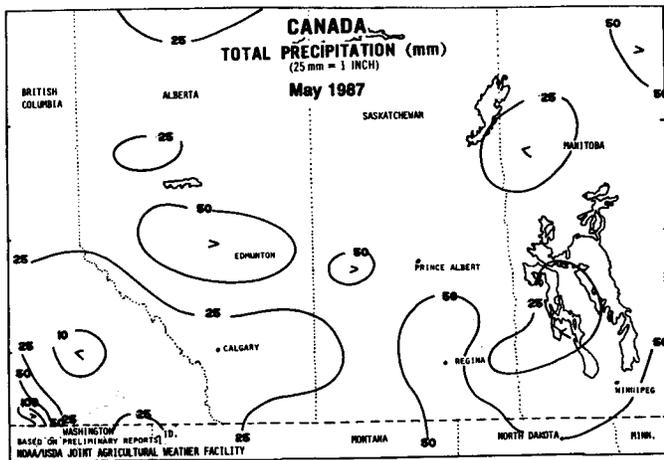
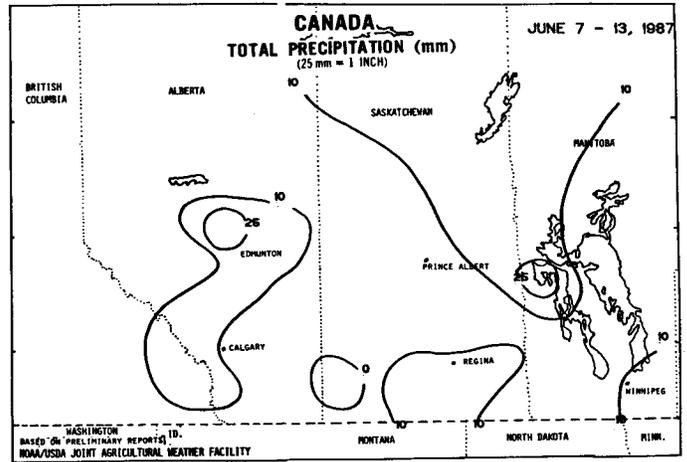
SOUTH AMERICA ... In Brazil, locally heavy showers (31-61mm) in extreme southern Mato Grosso do Sul and Parana kept vegetative wheat and mature coffee wet following much above average May rainfall. The wetness hampered late cotton harvesting as well. Some rain (6-27mm) also covered Rio Grande do Sul, where heavy rain fell during the previous week but mostly near-normal May rainfall allowed virtual completion of the soybean harvest. Scattered, light showers covered Sao Paulo and southern Minas Gerais, where above average May rain fell in the east. In Argentina, dry weather continued over the wheat areas where planting is underway. Below-average May rainfall promoted rapid summer crop harvesting in northern Buenos Aires, while near average May rain in the south favored preparations for early wheat planting. May rainfall was above average in central portions of Corodoba and Santa Fe.



MEXICO ... Widespread showers again covered the Southern Plateau corn belt, providing beneficial moisture for vegetative growth. Locally heavy rain (100-225mm) inundated a small area south of Mexico City to Veracruz. Substantial showers (25-95mm) maintained moist field conditions throughout eastern and southern Mexico. May rainfall indicated a favorable start of the wet season with above-average monthly totals over much of northern Mexico, extending southward to include the eastern portion of the corn belt. Tropical showers did not begin over southern Mexico until late May and early June. Sunny weather continued over the climatologically drier west coast.



CANADA ... Mostly light, scattered showers (1-8mm) covered the Prairie Provinces with isolated, beneficial rain (10-24mm) over grain areas of southeastern Manitoba, northeastern and south-central Saskatchewan, and northwestern Alberta. Weekly temperatures generally averaged 2-4 degrees C above normal, increasing the rate of moisture loss for cereal and oilseed crops in vegetative growth stages. Moisture is becoming limited in the southwest where May rainfall was substantially below average. In southern Alberta, total monthly rainfall averaged less than 25mm. Virtually no rain has fallen thus far in June resulting in fair to poor growing conditions in southern Alberta and southwestern Saskatchewan. In Saskatchewan, the majority of cereal crops are tillering to jointing, while oilseeds are mostly in the seedling stage.



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(Continued from p. 13)

California vegetable harvest consisted mostly of broccoli, celery, cauliflower, lettuce, and sweet corn. Sweet corn, lettuce, carrots, and greens were harvested in Arizona.

PASTURES AND LIVESTOCK: Livestock was mostly good. The extreme heat caused stress in some areas. Pastures were good to fair but needed moisture in the Southeast and the Delta.

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