

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

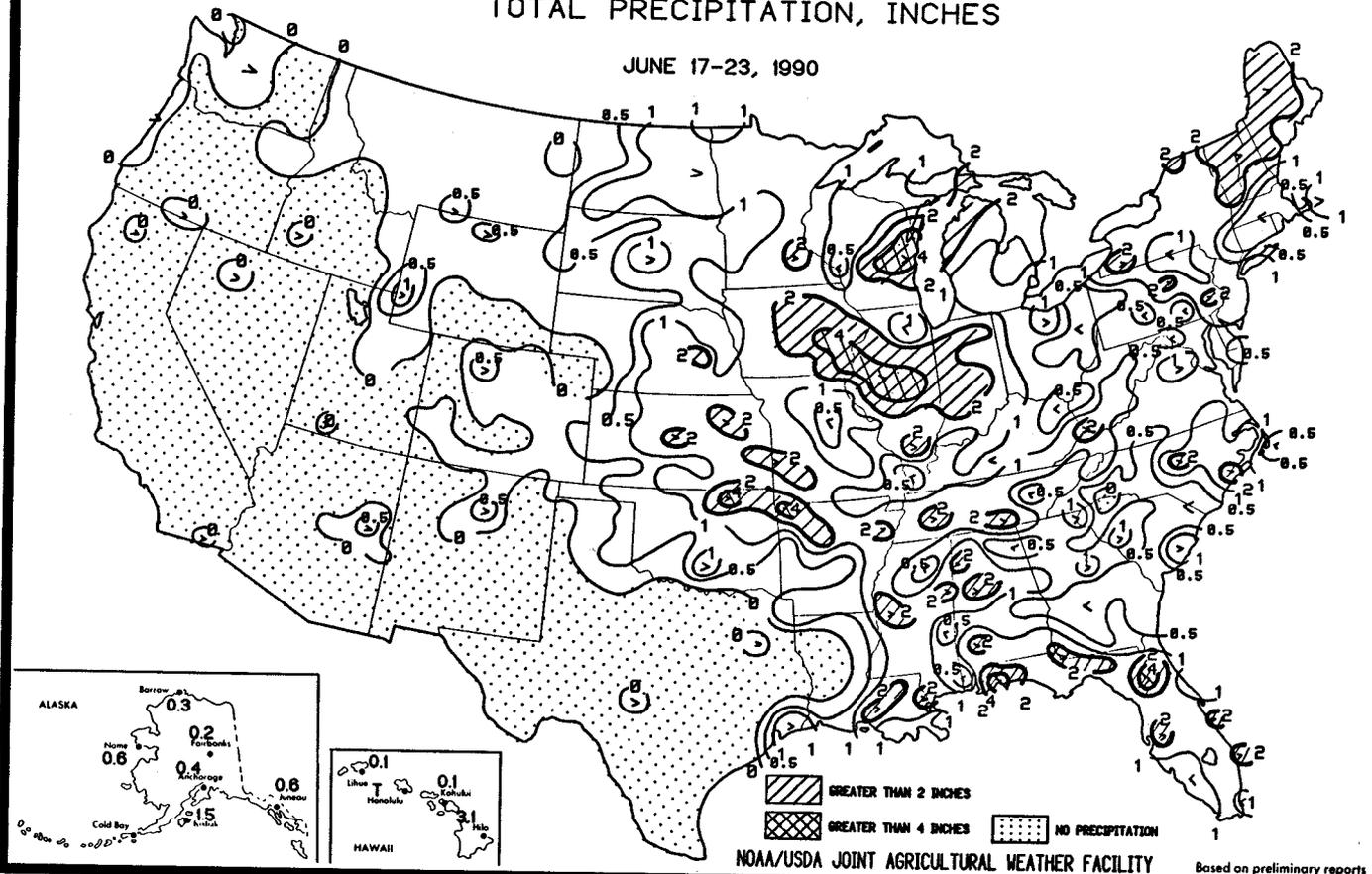
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June 26, 1990

TOTAL PRECIPITATION, INCHES

JUNE 17-23, 1990



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

June 17-23, 1990

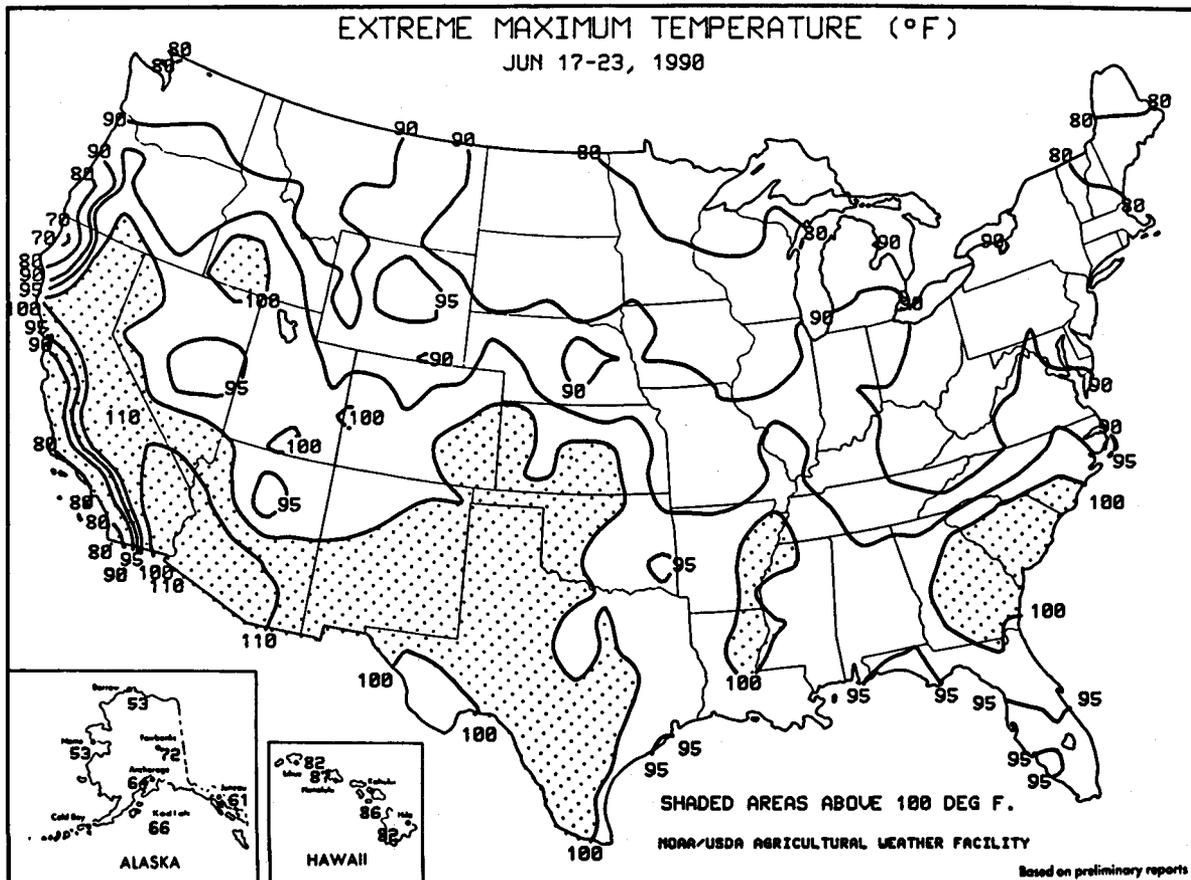
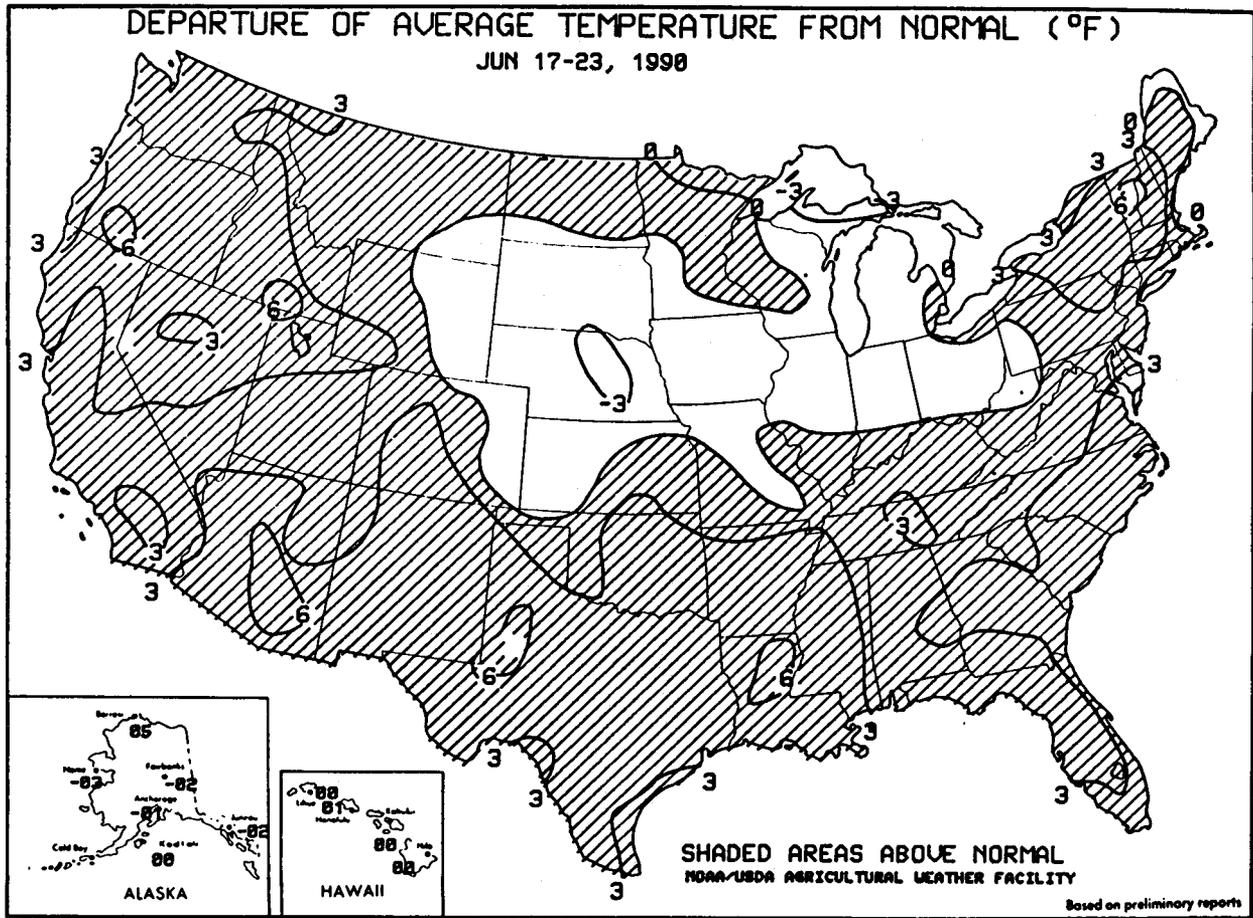
Scattered thunderstorms again developed in the warm, humid air covering the **eastern half of the Nation**, while hot, dry weather remained over the **West** and **southern Plains**. At the beginning of the week, a frontal system spread showers and thunderstorms from the **eastern Corn Belt** to the **northern and middle Atlantic coast**. Loganton, PA, was pounded with 3 inches of rain in 1 hour on Monday. Severe thunderstorms erupted over the **northern and central Plains** on Tuesday morning, spawning tornadoes and producing large hail. On Wednesday, a frontal system developed over the **central States** and caused widespread showers and thunderstorms. Heavy rains drenched **central Iowa** to **southern Indiana** and **southeastern Kansas** to **central Tennessee**. At week's

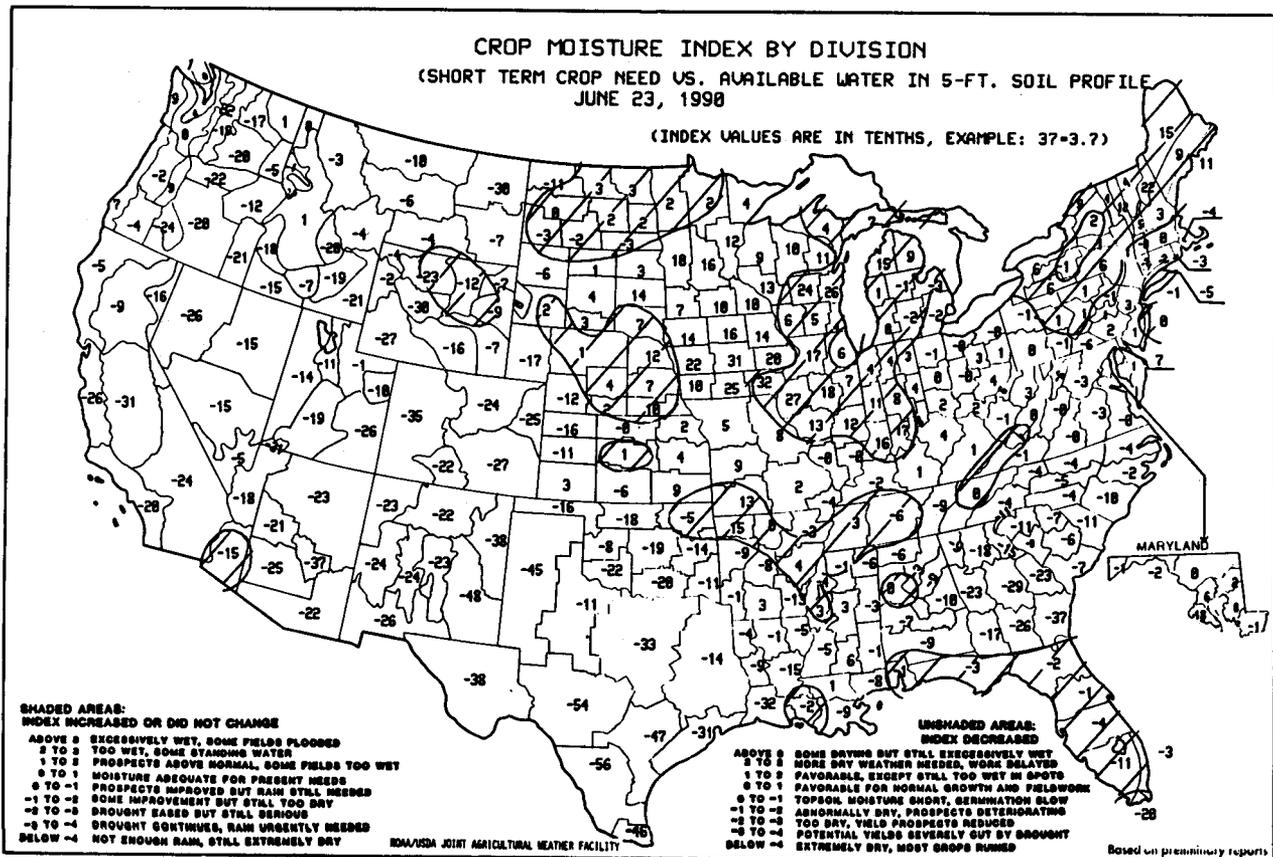
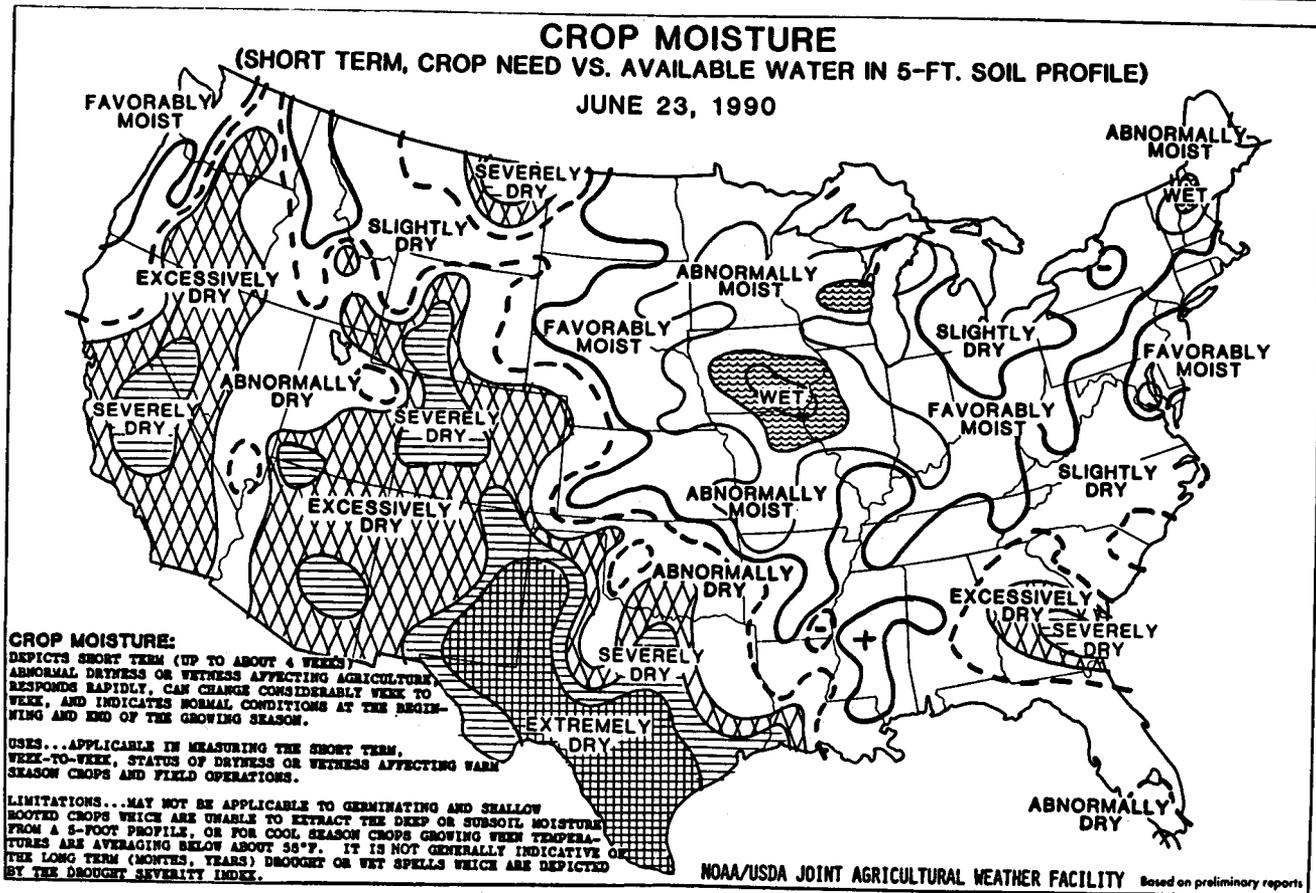
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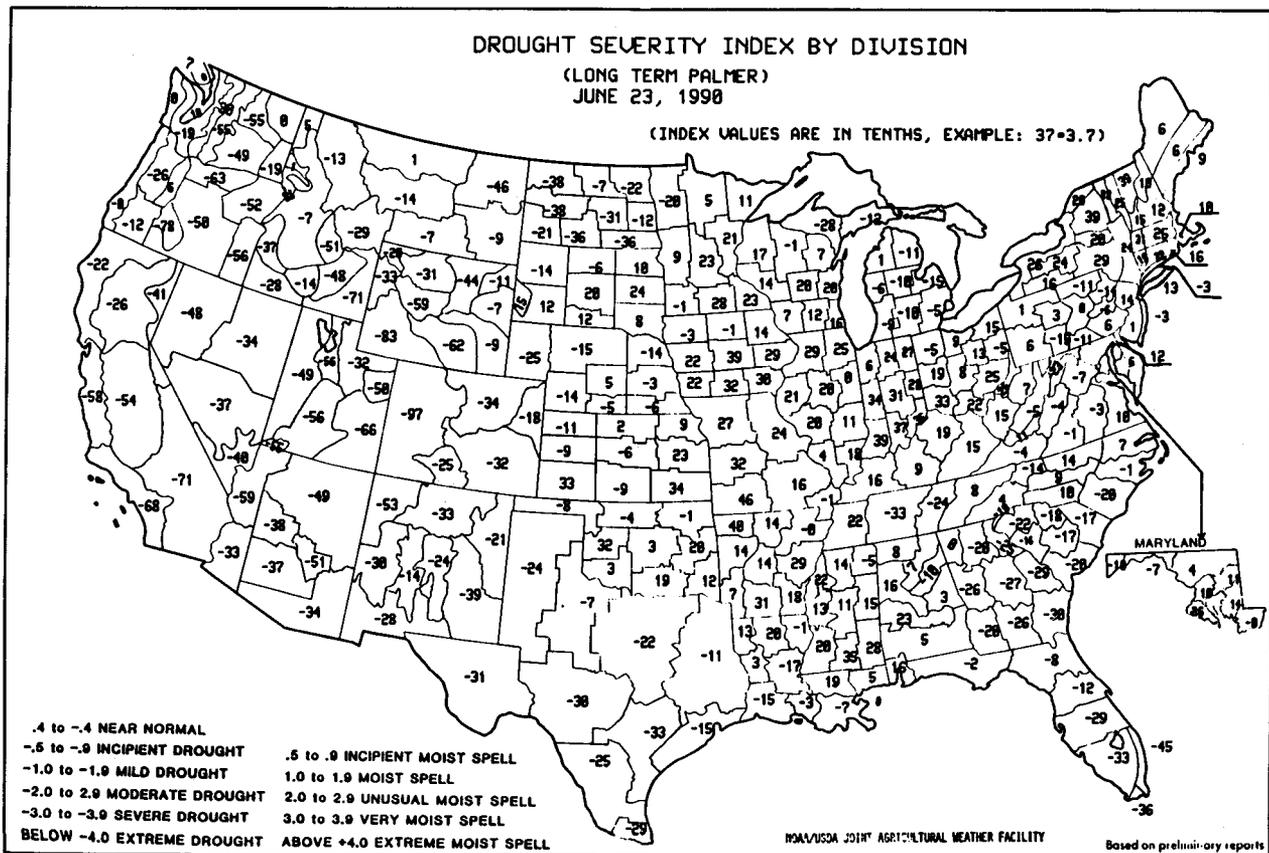
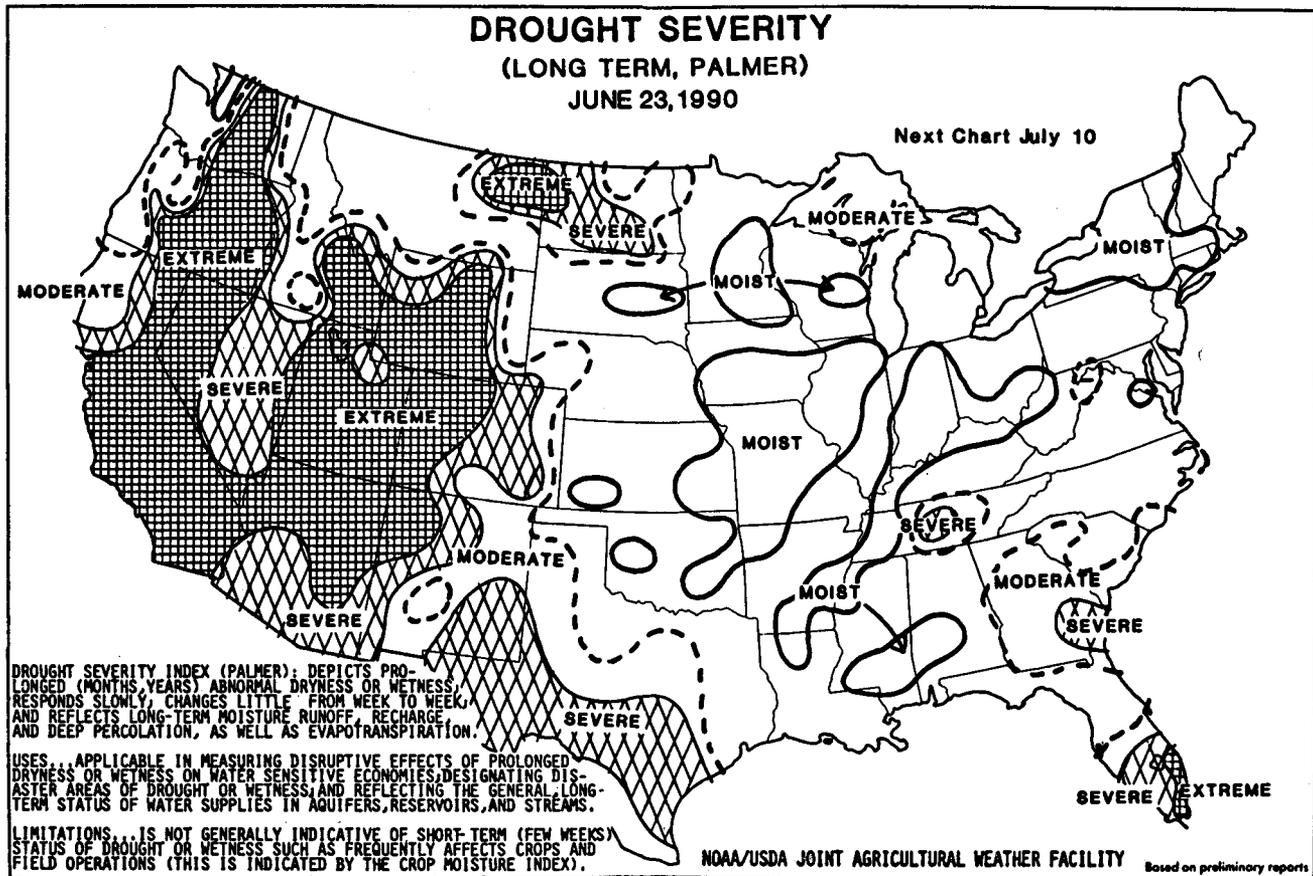
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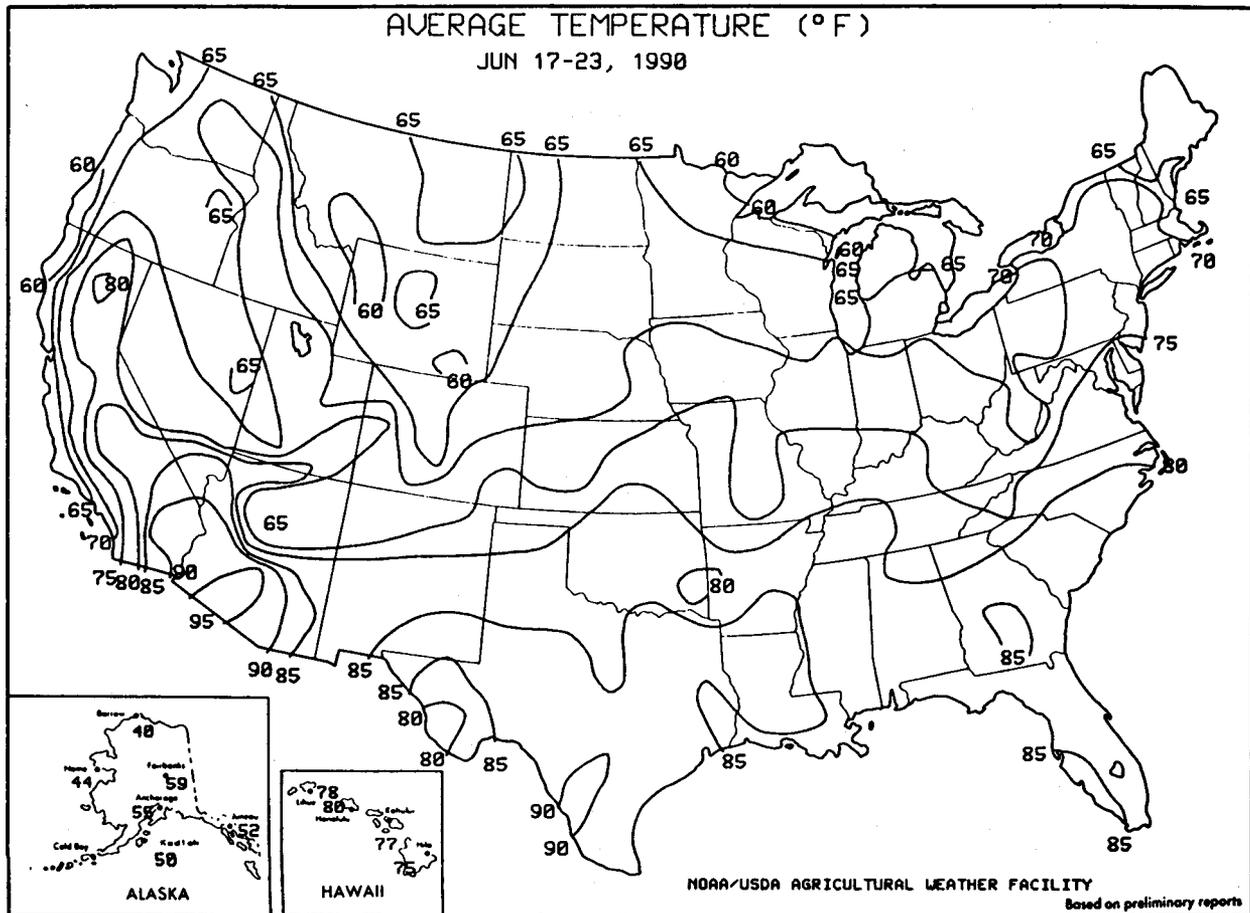
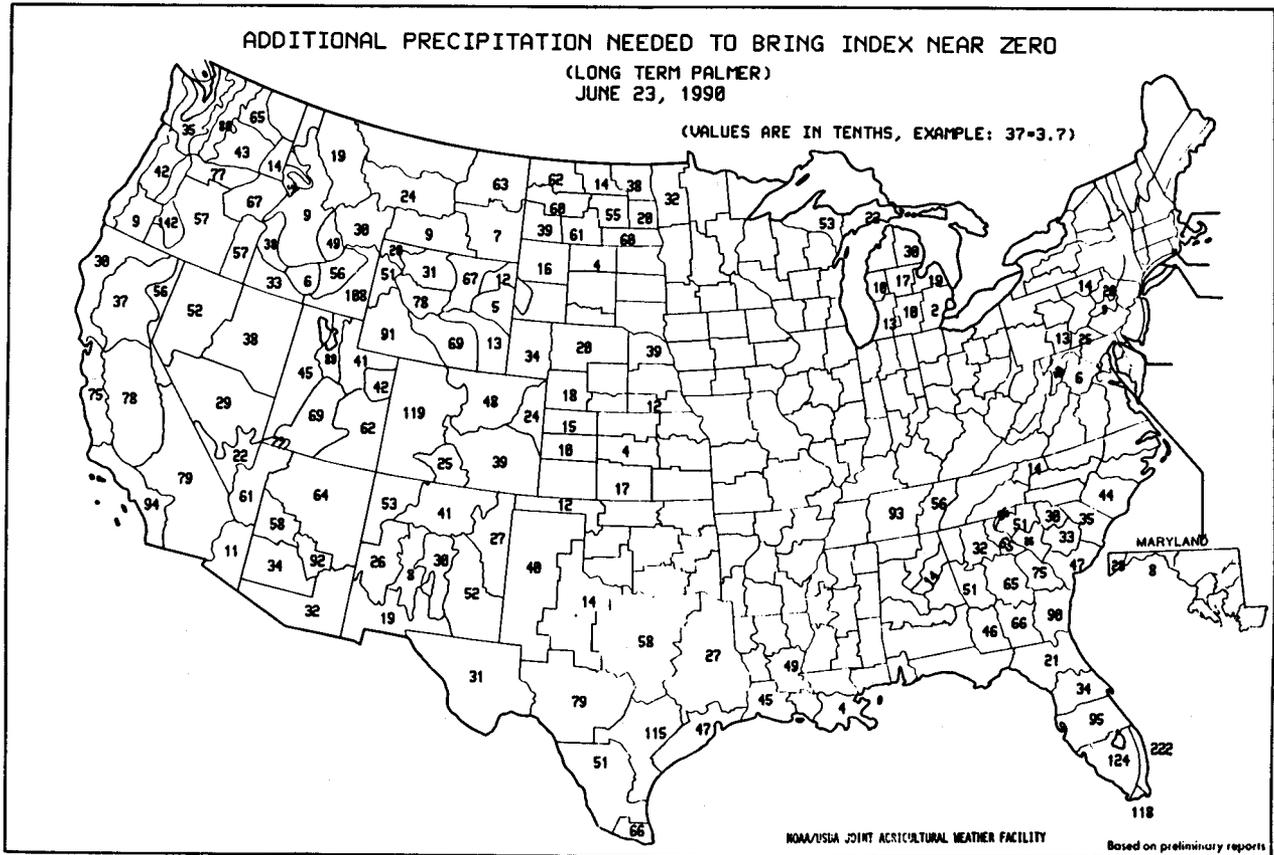
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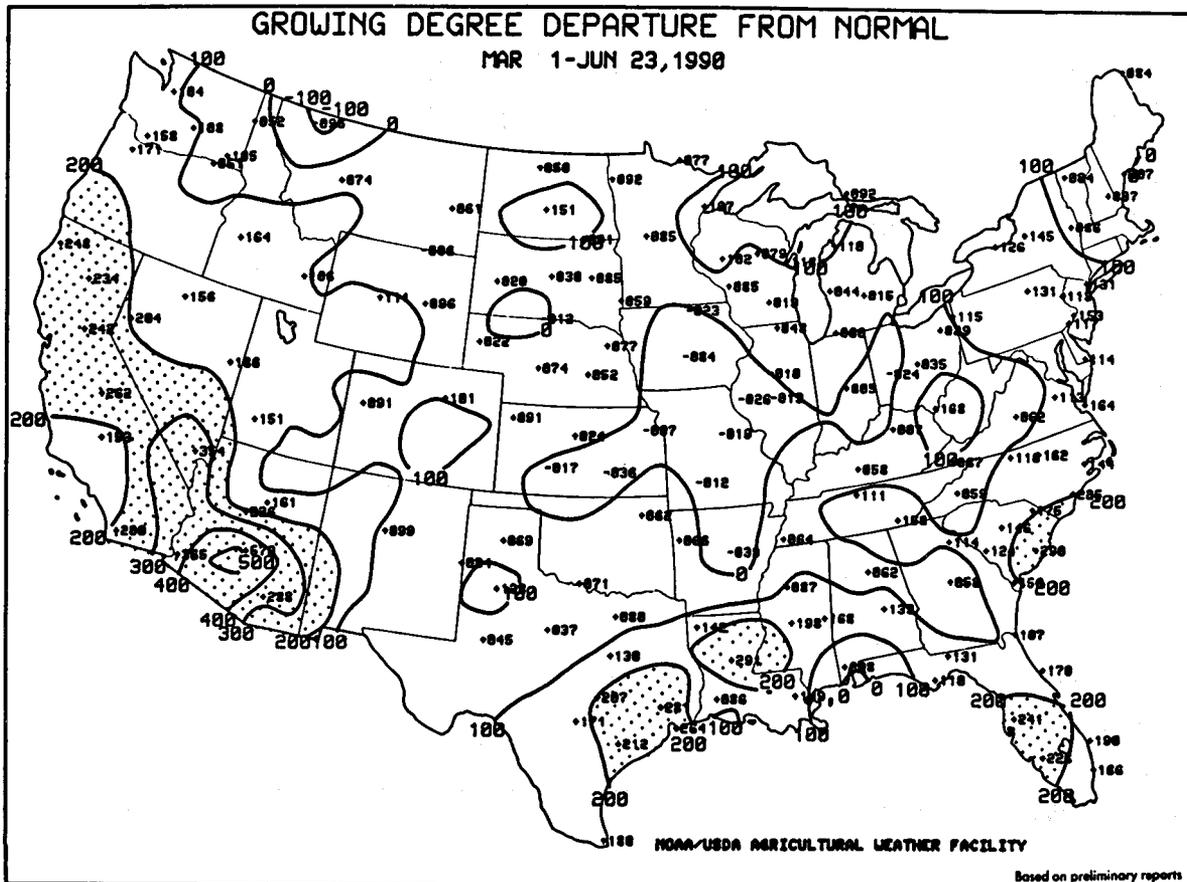
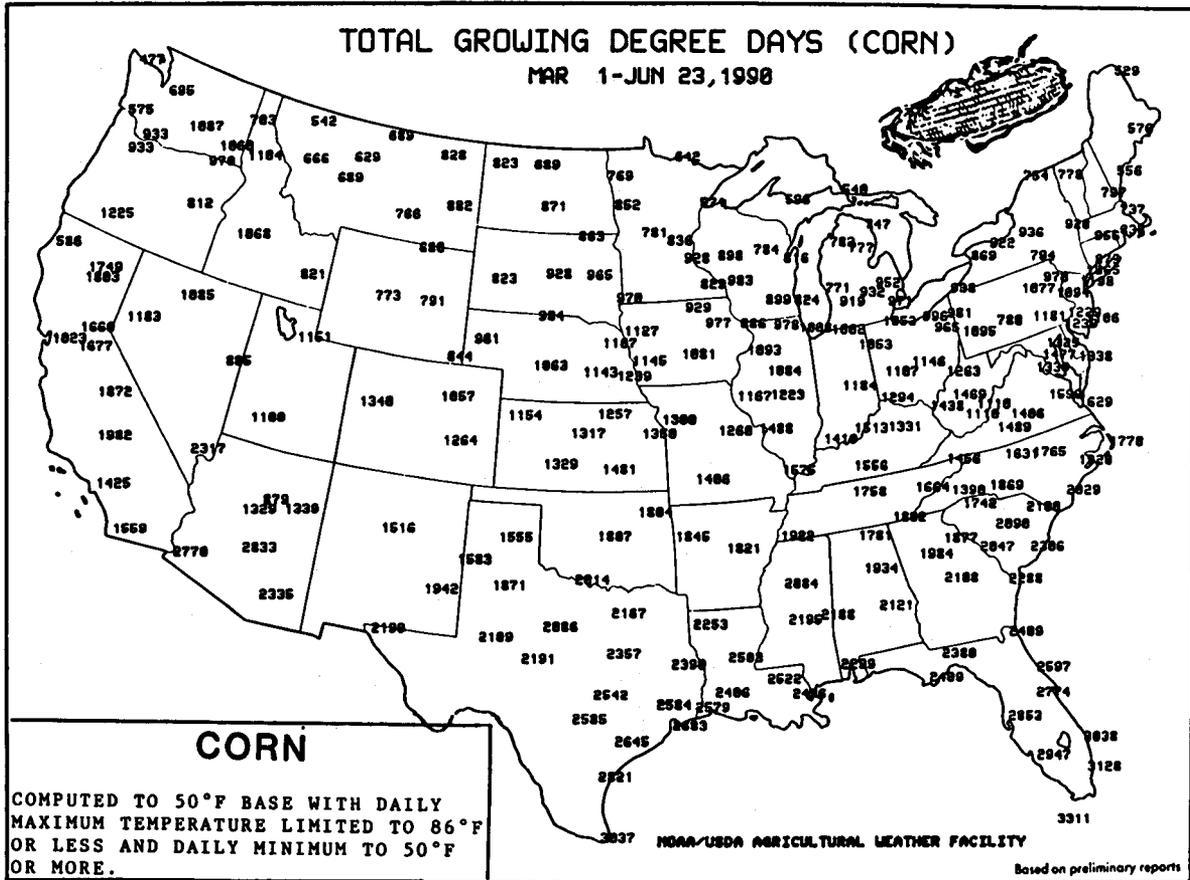
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National Weather Data for Selected Cities

Weather Data for the Week Ending June 23, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.
													.01 INCH OR MORE						.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	92	68	98	63	80	2	1.5	.6	1.2	2.1	78	28.6	100	91	43	6	0	2	1		
MOBILE	93	74	97	70	83	3	.4	-.8	.4	2.1	57	40.8	134	97	51	5	0	0	0		
AK ANCHORAGE	95	70	99	65	82	3	.2	-.7	.2	.9	34	39.0	153	96	41	6	0	1	0		
BARRROW	61	49	64	47	55	-1	.4	.1	.1	1.6	205	5.9	141	87	54	0	0	3	0		
FAIRBANKS	47	33	53	31	40	-5	.3	-.2	.2	.3	129	.8	69	98	69	0	5	5	0		
JUNEAU	68	49	72	46	59	-2	.2	-.2	.1	1.7	180	3.5	112	87	38	0	0	5	0		
KODIAK	56	49	61	46	52	-1	2.3	1.6	.6	3.4	151	23.0	120	100	73	0	0	6	2		
NOME	55	45	66	43	50	-3	1.5	.6	1.3	2.2	68	28.5	106	96	72	0	0	2	1		
AZ PHOENIX	50	37	53	33	44	-3	.6	.3	.3	.7	84	5.9	157	96	55	0	0	4	0		
PRESCOTT	111	79	114	71	95	7	0	0	0	T	44	2.2	86	24	9	7	0	0	0		
TUCSON	95	53	100	45	74	6	0	-.2	0	.1	33	4.7	75	29	5	6	0	0	0		
YUMA	109	71	112	62	90	6	0	-.1	0	.6	633	2.7	105	22	8	7	0	0	0		
AR FORT SMITH	110	76	114	69	93	4	0	0	0	0	0	.5	57	30	10	7	0	0	0		
LITTLE ROCK	95	71	100	62	83	5	.3	-.5	-.2	.6	22	38.2	191	95	40	6	0	2	0		
CA BAKERSFIELD	93	73	98	67	83	3	.5	-.4	-.3	.6	19	35.9	138	83	47	5	0	2	0		
EUREKA	97	65	106	59	81	1	0	0	0	T	0	2.6	69	57	21	7	0	0	0		
FRESNO	63	53	65	51	58	3	0	-.1	0	.3	67	20.5	93	91	74	0	0	0	0		
LOS ANGELES	96	63	105	59	80	4	0	0	0	0	0	7.4	106	69	19	6	0	0	0		
REDDING	71	60	72	59	65	-1	0	0	0	T	0	5.1	61	91	66	0	0	0	0		
SACRAMENTO	96	65	106	60	81	3	T	-.2	T	.8	117	19.8	81	66	17	6	0	0	0		
SAN DIEGO	93	58	105	52	76	4	0	0	0	0	0	11.5	109	79	22	4	0	0	0		
SAN FRANCISCO	72	63	75	62	67	1	0	0	0	.9	5	5.9	92	87	65	0	0	0	0		
CO DENVER	76	55	91	51	65	4	T	0	T	0	0	7.9	64	88	48	1	0	0	0		
GRAND JUNCTION	88	52	99	47	70	2	.2	-.2	-.2	.2	17	7.1	92	74	18	2	0	1	0		
PUEBLO	94	57	102	51	75	1	0	-.1	0	.3	76	3.2	88	31	7	5	0	0	0		
CT BRIDGEPORT	93	53	104	48	73	0	0	-.3	0	.1	6	6.4	143	66	16	5	0	0	0		
HARTFORD	79	65	88	63	72	3	.2	-.5	.1	.9	42	20.6	106	95	61	0	0	3	0		
DC WASHINGTON	83	63	91	59	73	3	.5	-.3	-.5	2.4	91	23.2	112	100	57	1	0	2	0		
FL APALACHICOLA	87	67	90	63	77	1	.5	-.3	.2	2.9	116	19.0	108	92	49	1	0	4	0		
DAYTONA BEACH	91	75	95	72	83	2	1.4	-.2	1.0	2.8	81	16.1	77	95	61	5	0	4	1		
JACKSONVILLE	93	73	98	67	83	3	.6	-.1	.3	1.8	37	13.7	72	97	51	5	0	4	0		
KEY WEST	94	73	100	69	84	3	.5	-.9	-.2	1.6	37	10.5	49	95	47	5	0	3	0		
MIAMI	91	81	92	77	86	3	T	-.2	T	.7	18	9.4	69	81	55	7	0	0	0		
ORLANDO	93	76	94	73	84	3	1.2	-.1	1.1	1.9	27	20.4	89	88	51	7	0	2	1		
TALLAHASSEE	93	74	96	72	84	2	1.9	-.1	1.2	5.4	103	13.9	71	96	51	5	0	4	1		
TAMPA	94	73	99	71	83	3	2.2	.6	1.8	3.9	81	23.1	79	100	57	5	0	2	1		
WEST PALM BEACH	93	76	94	74	84	3	2.0	.7	1.2	4.1	107	14.2	81	93	56	6	0	4	2		
GA ATLANTA	93	75	94	71	84	3	2.2	.3	1.1	3.2	53	17.3	74	92	50	7	0	2	2		
AUGUSTA	91	69	96	64	80	4	.6	-.2	.6	.8	32	35.4	135	95	48	5	0	1	1		
MACON	97	66	104	62	81	3	.6	-.3	.6	1.4	49	11.8	52	96	34	6	0	1	0		
SAVANNAH	97	70	102	65	83	4	.3	-.6	.3	1.0	34	17.9	75	88	34	6	0	1	0		
HI HILO	96	72	102	67	84	5	.1	-.1	0	1.0	23	15.6	70	90	37	6	0	1	0		
HONOLULU	81	69	82	67	75	0	3.1	1.7	1.0	6.2	133	73.6	116	95	66	0	0	7	3		
KAHULUI	86	73	87	71	80	1	T	-.1	T	T	5	9.9	76	75	49	0	0	1	0		
LIHUE	84	71	86	70	77	0	.1	-.1	0	.4	200	14.3	125	94	62	0	0	4	0		
ID BOISE	82	74	82	71	78	0	.1	-.2	.1	.2	15	19.0	87	80	64	0	0	1	0		
LEWISTON	88	56	102	47	72	5	T	-.2	T	.1	14	8.7	128	69	20	3	0	0	0		
POCATELLO	84	60	90	53	72	5	0	-.3	0	.6	57	6.9	98	62	31	2	0	0	0		
IL CHICAGO	84	48	96	41	66	2	0	-.2	0	.8	89	6.6	110	81	19	2	0	0	0		
MOLINE	79	59	89	52	69	-1	1.0	-.1	.8	2.5	77	18.5	117	92	55	0	0	5	1		
PEORIA	80	61	87	59	71	-2	3.1	2.1	1.7	7.1	219	28.6	169	97	52	0	0	4	2		
QUINCY	79	61	87	57	70	-2	3.1	2.1	1.2	4.5	150	22.2	135	98	63	0	0	5	3		
ROCKFORD	83	64	90	58	73	0	.9	0	.9	4.9	157	21.8	126	97	58	1	0	1	1		
SPRINGFIELD	78	60	85	56	69	-1	1.3	.2	.9	6.2	180	19.8	120	91	53	0	0	4	1		
IN EVANSVILLE	82	63	92	57	73	-2	4.2	3.4	4.0	8.5	314	28.4	173	90	51	1	0	4	1		
FORT WAYNE	87	66	94	61	77	1	.8	0	.6	3.0	111	30.1	139	94	48	4	0	3	1		
INDIANAPOLIS	79	62	92	55	70	-1	2.0	1.2	1.1	3.7	133	23.8	141	90	54	1	0	4	2		
SOUTH BEND	82	63	89	54	72	0	2.1	1.1	1.6	2.9	95	21.7	115	95	51	0	0	4	1		
IA DES MOINES	79	59	94	52	69	-2	2.0	1.0	.9	3.1	103	23.2	124	91	51	1	0	4	2		
SIOUX CITY	79	62	88	57	71	-2	2.5	1.5	1.2	7.3	223	23.2	158	95	50	0	0	4	3		
WATERLOO	81	61	91	56	71	-1	.8	-.2	.8	4.2	137	16.1	133	89	44	1	0	2	1		
KS CONCORDIA	79	60	88	56	70	-1	2.9	1.9	1.4	7.6	235	20.9	141	97	51	0	0	4	2		
DODGE CITY	86	62	93	55	74	-1	1.2	-.2	1.1	3.8	114	16.0	125	87	41	2	0	3	1		
GOODLAND	89	59	99	50	74	-2	.4	-.3	.2	1.0	43	14.0	143	88	31	3	0	3	0		
TOPEKA	90	53	103	46	71	0	.2	-.4	.2	.6	28	8.3	105	76	24	3	0	2	0		
WICHITA	89	66	96	59	78	2	1.4	-.2	.7	4.8	121	17.5	115	95	41	3	0	4	1		
KY BOWLING GREEN	94	67	105	58	80	3	.9	-.1	.7	1.9	62	10.2	79	84	29	4	0	3	1		
LEXINGTON	90	67	95	60	79	3	.8	-.3	.7	1.8	52	22.9	89	95	48	5	0	3	1		
LOUISVILLE	83	64	87	59	74	1	.6	-.4	.5	4.6	143	21.9	95	93	53	0	0	4	1		
LA ALEXANDRIA	86	68	93	64	77	2	1.4	.5	1.0	5.8	211	34.2	154	90	48	3	0	5	1		
BATON ROUGE	98	79	101	74	88	7	T	-.9	T	.1	3	34.1	123	69	37	7	0	0	0		
LAKE CHARLES	96	76	100	70	86	5	1.9	1.2	1.7	2.5	114	33.9	127	92	46	6	0	2	1		
NEW ORLEANS	94	75	99	73	85	4	T	-.9	T	.9	30	27.6	117	96	50	7	0	1	0		
								-.5	.6	1.0	29	39.9	143	93	53	5	0	3	1		

Based on 1951-80 normals

Weather Data for the Week Ending June 23, 1990

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	96	76	98	71	86	5	0	-.8	0	.5	17	37.1	159	90	45	7	0	0	0	0	
ME CARIBOU	68	56	83	49	62	0	2.8	2.0	1.5	3.9	167	16.1	110	98	78	0	0	0	7	2	
PORTLAND	68	56	75	54	62	-1	2.2	1.5	1.6	3.3	140	20.8	100	100	81	0	0	0	5	1	
MD BALTIMORE	86	65	89	61	76	2	.9	.1	.5	2.6	90	19.4	101	93	45	0	0	0	5	0	
SALISBURY	87	65	90	60	76	3	.4	-.4	.4	1.7	62	21.3	106	97	42	0	0	0	5	0	
MA BOSTON	78	60	87	57	69	0	T	-.6	T	.5	24	22.1	104	98	65	0	0	0	1	0	
CHATHAM	68	57	73	54	62	-1	1.7	1.0	.8	2.6	121	25.1	113	97	89	0	0	0	1	0	
MI ALPENA	73	50	91	41	62	-1	2.0	1.2	1.6	2.5	104	14.1	112	96	57	1	1	0	4	1	
DETROIT	78	61	92	55	70	0	.7	-.1	.3	3.9	149	19.1	131	88	55	1	0	0	3	0	
FLINT	76	57	89	51	67	0	1.1	.3	.4	3.1	126	14.4	107	88	55	1	0	0	3	0	
GRAND RAPIDS	76	58	91	51	67	-2	.9	.1	.7	1.8	62	12.9	97	85	49	0	0	0	5	0	
HOUGHTON LAKE	71	55	85	44	63	-1	1.0	.3	.9	1.9	81	12.0	98	87	56	1	0	0	3	1	
LANSING	76	58	90	51	67	-1	.7	-.2	.4	1.7	57	13.1	96	92	53	0	0	0	3	0	
MARQUETTE	69	47	82	38	58	-3	1.0	.2	.6	3.1	103	15.3	88	92	56	1	0	0	4	1	
MUSKEGON	72	56	81	49	64	-3	1.0	.4	.6	2.8	147	17.8	127	89	58	0	0	0	4	1	
SAULT ST. MARIE	67	47	77	38	57	-3	2.5	1.7	.9	4.1	164	16.1	118	99	66	0	0	0	6	2	
MN ALEXANDRIA	75	58	81	55	66	0	.6	-.3	.6	3.5	113	13.1	119	94	49	0	0	0	6	1	
DULUTH	71	52	78	48	62	1	1.5	.6	.9	4.2	141	13.9	115	97	58	0	0	0	1	1	
INT' L FALLS	69	54	80	50	62	-1	1.7	.8	.7	4.7	172	9.6	102	96	59	0	0	0	4	2	
MINNEAPOLIS	79	60	82	57	69	0	2.0	1.0	1.4	7.8	250	19.5	167	93	49	0	0	0	4	2	
ROCHESTER	78	59	82	55	68	0	1.6	.7	.8	5.4	187	21.2	176	95	49	0	0	0	4	2	
MS GREENWOOD	94	72	98	66	83	3	.9	.1	.6	6.3	248	33.1	115	95	52	0	0	0	4	1	
JACKSON	95	71	100	65	83	3	1.1	.4	1.0	1.5	62	35.5	128	93	46	6	6	0	4	1	
MERIDIAN	95	70	98	64	82	3	.5	-.4	.4	4.0	156	46.5	164	97	47	0	0	0	3	0	
MO CAPE GIRARDEAU	90	69	98	61	79	-1	.4	-.4	.2	1.6	60	31.2	136	92	45	3	3	0	4	0	
COLUMBIA	85	65	91	58	75	0	.4	-.4	.3	6.6	226	33.1	181	95	51	1	0	0	4	0	
KANSAS CITY	87	65	94	57	76	-1	1.1	.1	.4	5.1	142	22.2	135	91	44	3	0	0	4	0	
SAINT LOUIS	88	69	96	62	79	2	.7	.7	.6	3.0	106	23.3	137	86	43	4	0	0	5	0	
SPRINGFIELD	85	66	92	57	75	1	2.8	1.7	1.1	3.9	107	38.6	202	94	53	3	0	0	4	1	
MT BILLINGS	80	51	96	48	66	1	.3	-.1	.2	.6	35	7.9	92	85	26	1	0	0	4	3	
GLASGOW	82	53	95	48	67	2	.2	-.4	.2	.9	45	3.2	62	75	23	1	0	0	4	0	
GREAT FALLS	77	49	89	41	63	0	.3	-.3	.2	1.2	55	8.2	93	85	30	0	0	0	2	0	
HAVRE	79	52	89	46	66	1	.1	-.4	.1	.2	9	3.2	53	80	28	0	0	0	2	0	
HELENA	80	49	91	42	65	3	.1	-.4	.1	1.0	63	4.5	74	81	24	2	0	0	1	0	
KALISPELL	76	48	86	42	62	3	.3	-.2	.1	1.0	56	11.0	137	92	39	0	0	0	3	0	
MILES CITY	81	55	89	50	68	0	.1	-.5	.1	1.4	66	5.6	73	77	30	0	0	0	3	0	
MISSOULA	80	46	91	41	63	2	T	-.4	T	.4	29	7.3	103	89	27	1	0	0	1	0	
NE GRAND ISLAND	81	57	88	51	69	-4	1.8	1.0	1.8	6.7	230	15.1	125	93	45	0	0	0	2	1	
LINCOLN	85	62	92	57	73	0	.9	.1	.9	2.4	81	11.6	88	89	42	1	0	0	1	1	
NORFOLK	82	60	90	54	71	-1	.5	-.5	.5	7.6	226	15.1	125	91	42	1	0	0	1	1	
NORTH PLATTE	84	52	93	44	68	-2	.4	-.5	.4	1.9	65	9.2	92	94	36	1	0	0	1	0	
OMAHA	80	62	90	56	71	-3	.5	-.5	.5	4.2	130	12.9	92	87	47	1	0	0	2	0	
SCOTTSBLUFF	86	51	97	41	68	-1	T	-.7	T	1.0	42	9.6	117	80	22	2	0	0	1	0	
VALENTINE	82	52	94	45	67	-3	.3	-.4	.3	1.8	80	9.3	108	75	31	1	0	0	1	0	
NV ELY	84	43	92	39	64	3	0	-.2	0	.9	139	6.2	128	53	12	2	0	0	0	0	
LAS VEGAS	103	73	110	65	88	3	0	0	0	1.0	T	2.7	155	23	8	7	0	0	0	0	
RENO	89	51	98	44	70	3	T	-.1	T	T	15	3.2	74	55	12	4	0	0	0	0	
WINNEMUCCA	88	49	99	40	68	3	.2	0	.2	.2	29	4.3	95	59	22	3	0	0	1	0	
NH CONCORD	78	62	87	59	70	4	1.3	.6	.5	2.1	92	17.3	105	99	66	0	0	0	4	0	
NJ ATLANTIC CITY	82	62	88	57	72	2	1.0	.4	.4	1.5	74	17.1	89	99	53	0	0	0	5	0	
NM ALBUQUERQUE	96	63	101	53	80	0	T	-.1	T	.3	82	3.5	144	45	11	7	0	0	1	0	
CLOVIS	95	63	100	57	79	3	T	-.6	T	T	0	3.7	59	72	22	6	0	0	0	0	
ROSWELL	100	69	106	63	85	0	0	-.2	0	T	3	2.4	80	51	17	7	0	0	0	0	
NY ALBANY	82	64	88	59	73	5	1.4	-.7	1.1	1.8	73	23.3	143	92	56	0	0	0	4	1	
BINGHAMTON	77	60	83	56	68	3	.9	-.1	.6	1.6	60	18.1	108	99	62	0	0	0	4	1	
BUFFALO	78	62	89	53	70	3	1.4	-.8	.7	3.4	163	24.8	152	97	56	0	0	0	4	2	
NEW YORK	82	66	90	63	74	2	.6	-.2	.3	1.4	57	22.7	115	90	50	1	0	0	3	0	
ROCHESTER	80	61	91	55	71	3	1.5	-.9	1.0	2.5	115	18.9	131	96	50	1	0	0	3	1	
SYRACUSE	81	63	91	59	72	5	1.7	-.8	.8	2.5	92	22.0	126	92	52	1	0	0	5	2	
NC ASHEVILLE	86	61	89	57	74	3	T	-.9	T	.9	31	25.2	117	98	45	0	0	0	0	0	
CHARLOTTE	91	70	96	67	80	4	T	-.8	T	.8	30	20.9	95	87	41	4	0	0	1	0	
GREENSBORO	89	66	92	60	78	3	T	-.9	T	T	0	20.2	100	90	44	4	0	0	0	0	
HATTERAS	83	69	87	63	76	1	.6	-.4	.4	1.4	44	26.3	113	99	71	0	0	0	3	0	
NEW BERN	92	69	99	64	81	4	1.4	-.1	.8	1.4	38	25.1	110	97	44	6	0	0	2	2	
RALEIGH	89	66	94	58	78	3	.8	0	.5	1.0	37	22.1	111	94	44	4	0	0	3	0	
WILMINGTON	92	71	101	63	81	4	.9	-.5	.8	2.0	48	22.0	98	96	48	5	0	0	2	1	
ND BISMARCK	80	53	86	44	66	1	1.7	.9	1.5	3.6	155	6.7	87	92	36	0	0	0	3	1	
FARGO	77	57	85	52	67	0	1.9	1.2	1.7	5.4	235	10.7	133	93	51	0	0	0	5	1	
GRAND FORKS	82	51	87	44	67	1	1.9	1.2	1.0	3.4	157	8.7	116	96	51	0	0	0	3	2	
WILLISTON	76	59	87	50	68	-1	.4	-.4	.3	2.9	117	23.7	137	96	59	0	0	0	2	0	
OH AKRON-CANTON	81	64	90	59	73	0	1.4	-.5	.6	5.0	162	28.8	142	89	53	1	0	0	2	0	
CINCINNATI	78	61	90	52	70	0	.8	-.1	.5	1.5	55	20.1	119	96	55	1	0	0	3	1	
CLEVELAND	80	63	90	58	72	0	.4	-.6	.2	5.2	170	24.0	131	98	59	1	0	0	3	0	

Based on 1951-80 normals

Weather Data for the Week Ending June 23, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F				
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	79	64	90	58	72	-1	.9	0	.5	3.1	107	26.3	148	90	55	1	0	3	1	
TOLEDO	80	61	93	56	70	1	-.7	-.1	.7	2.3	88	20.1	135	89	52	1	0	2	1	
YOUNGSTOWN	77	57	87	44	67	0	-.4	-.5	.2	2.0	74	17.5	100	97	56	0	0	3	0	
OK OKLAHOMA CITY	94	72	99	62	83	4	.3	.5	.2	1.3	41	23.1	147	83	35	5	0	2	0	
TULSA	93	73	98	66	83	4	-.8	.3	.5	1.1	30	25.1	132	87	42	5	0	2	0	
OR ASTORIA	69	54	89	49	61	4	T	.6	.6	3.4	167	44.9	127	96	65	0	0	1	0	
BURNS	83	49	91	38	66	4	T	.1	T	.1	19	2.8	52	71	17	2	0	1	0	
MEDFORD	91	55	104	46	73	7	0	.1	0	.2	31	8.3	83	79	23	4	0	0	0	
PENDLETON	84	56	92	50	70	3	-.1	.1	.1	.6	100	6.2	95	67	26	1	0	1	0	
PORTLAND	80	56	93	53	68	5	T	.3	T	1.9	161	20.5	107	88	43	1	0	0	0	
SALEM	80	54	97	47	67	5	0	.3	0	1.1	106	20.8	98	91	47	1	0	0	0	
PA ALLENTOWN	84	62	88	58	73	2	-.6	.2	.3	2.4	91	19.8	98	96	52	0	0	3	0	
ERIE	77	61	90	51	69	3	1.2	-.2	.4	1.7	55	20.2	119	96	53	1	0	3	0	
HARRISBURG	85	64	90	59	74	2	.3	-.6	.2	3.4	120	21.6	115	95	47	1	0	3	0	
PHILADELPHIA	85	65	88	63	75	2	1.2	-.3	.5	3.4	115	20.8	107	95	53	0	0	5	1	
PITTSBURGH	78	60	87	49	69	0	-.6	-.2	.4	3.3	124	21.0	115	95	54	0	0	4	0	
SCRANTON	81	61	87	57	71	3	1.0	-.2	.5	2.2	83	18.4	117	93	52	0	0	4	1	
RI PROVIDENCE	78	62	88	59	70	2	T	.6	.9	.9	41	22.1	103	98	62	0	0	1	0	
SC CHARLESTON	95	73	100	68	84	6	1.9	-.3	1.9	3.1	64	19.0	83	95	41	6	0	1	1	
COLUMBIA	95	68	106	66	82	3	.3	-.8	.3	1.3	38	13.8	57	91	35	5	0	1	0	
FLORENCE	96	70	105	66	83	5	T	-.1	T	.5	16	10.1	49	90	33	7	0	0	0	
GREENVILLE	92	67	97	63	79	3	T	-.1	T	.3	10	22.3	85	90	38	5	0	0	0	
SD ABERDEEN	78	56	85	51	67	0	-.5	-.2	.2	5.1	207	9.8	108	94	46	0	0	3	0	
HURON	79	56	86	51	68	-.2	-.7	-.1	.7	5.3	206	15.5	161	91	46	0	0	3	1	
RAPID CITY	80	51	86	47	65	-.1	-.1	-.7	.1	1.4	57	8.9	98	83	35	0	0	1	0	
SIOUX FALLS	80	58	91	53	69	-.1	1.2	-.4	.9	2.4	84	10.3	91	92	43	1	0	3	1	
TN CHATTANOOGA	89	68	96	63	79	3	1.9	1.1	1.2	3.4	135	39.4	144	96	45	4	0	2	2	
KNOXVILLE	88	67	91	59	78	2	.8	-.1	.7	1.7	58	27.5	111	94	48	3	0	2	1	
MEMPHIS	94	73	100	69	83	4	1.8	1.0	1.6	2.3	84	32.3	116	83	42	5	0	2	1	
NASHVILLE	91	70	95	64	80	3	1.7	-.9	1.3	2.4	84	17.6	68	89	43	5	0	1	1	
TX ABILENE	98	75	100	73	86	5	0	-.6	0	.4	18	16.7	157	63	28	7	0	0	0	
AMARILLO	96	63	103	58	80	3	-.1	-.8	0	-.1	5	7.5	90	77	22	5	0	2	0	
AUSTIN	99	75	102	72	87	4	0	-.7	0	1.6	63	15.3	99	90	36	7	0	0	0	
BEAUMONT	95	75	99	72	85	4	1.2	0	1.2	2.0	55	37.5	155	97	47	7	0	1	1	
BROWNSVILLE	96	75	98	72	86	2	0	-.6	0	-.2	8	6.4	71	95	48	7	0	0	0	
CORPUS CHRISTI	94	73	98	71	84	1	0	-.9	0	.9	28	12.9	106	98	47	7	0	0	0	
DEL RIO	99	74	102	60	87	2	T	-.4	T	.9	0	12.0	167	66	26	7	0	0	0	
EL PASO	104	72	106	61	88	5	0	-.2	0	T	0	1.2	65	42	16	7	0	0	0	
FORT WORTH	97	75	100	70	86	3	0	-.5	0	1.6	86	30.8	190	79	39	7	0	0	0	
GALVESTON	92	79	93	76	85	3	1.0	-.2	1.0	1.1	40	19.8	122	83	54	7	0	1	1	
HOUSTON	98	75	100	73	86	4	0	-.1	0	T	1	22.1	103	91	40	7	0	0	0	
LUBBOCK	99	69	104	63	84	6	T	-.7	T	0	0	6.0	79	70	21	7	0	0	0	
MIDLAND	102	72	105	68	87	6	0	-.3	0	T	1	4.6	85	65	22	7	0	0	0	
SAN ANGELO	99	73	101	70	86	4	0	-.4	0	-.1	3	12.3	155	72	24	7	0	0	0	
SAN ANTONIO	100	77	102	74	88	6	0	-.7	0	.2	9	17.1	127	87	32	7	0	0	0	
VICTORIA	97	75	101	74	86	4	0	-.1	0	.6	15	12.2	76	94	38	7	0	0	0	
WACO	101	76	102	71	88	5	0	-.5	0	-.8	38	20.6	127	79	32	7	0	0	0	
WICHITA FALLS	98	72	101	62	85	3	T	-.6	T	2.7	119	26.9	203	77	31	6	0	0	0	
UT CEDAR CITY	89	50	96	45	69	1	0	-.1	0	.3	97	5.8	123	35	9	3	0	0	0	
SALT LAKE CITY	90	60	100	53	75	5	0	-.2	0	.7	94	6.6	75	50	12	3	0	0	0	
VT BURLINGTON	79	62	87	55	71	4	1.2	-.3	.3	2.6	95	16.0	113	94	57	0	0	5	0	
VA NORFOLK	88	68	92	62	78	3	-.5	-.3	.4	3.2	124	20.3	102	95	47	3	0	3	0	
RICHMOND	90	65	94	59	77	3	-.6	-.2	.4	.7	25	18.1	95	93	39	4	0	4	0	
ROANOKE	86	62	92	56	74	1	-.7	-.1	.6	.8	32	18.8	100	97	46	1	0	5	1	
WA QUILLAYUTE	68	53	90	48	61	5	T	-.6	T	5.8	258	57.5	108	94	59	1	0	1	0	
SEATTLE-TACOMA	74	54	84	50	64	3	T	-.3	T	3.0	277	23.4	124	93	52	0	0	1	0	
SPOKANE	79	51	83	47	65	2	T	-.3	T	1.9	194	10.6	121	80	31	0	0	0	0	
YAKIMA	87	54	92	44	70	5	T	-.1	T	.2	47	3.4	81	76	26	1	0	1	0	
WV BECKLEY	78	58	84	52	68	2	1.2	-.3	.7	2.9	97	19.7	96	96	54	0	0	3	2	
CHARLESTON	83	63	90	56	73	1	-.3	-.5	.3	3.0	124	19.3	96	95	55	1	0	3	0	
HUNTINGTON	84	64	89	59	74	1	-.2	-.6	.2	3.8	150	24.3	122	93	54	0	0	1	0	
PARKERSBURG	80	63	89	57	71	-.1	-.4	-.5	.3	3.0	104	21.7	116	99	61	0	0	3	0	
WI GREEN BAY	76	56	83	47	66	0	5.4	4.7	4.7	9.6	394	19.4	157	90	51	0	0	3	2	
LACROSSE	79	62	85	58	71	1	1	-.3	-.6	.3	3.8	120	14.8	110	92	48	0	0	1	0
MADISON	79	58	85	50	68	0	1.4	-.5	1.1	2.5	86	16.6	122	91	48	0	0	4	1	
MILWAUKEE	77	55	88	49	66	0	2.0	1.2	1.0	2.7	101	20.2	142	91	48	0	0	4	2	
WAUSAU	75	57	81	50	66	0	0	-.1	-.1	.5	6.2	209	16.3	122	96	50	0	0	3	0
WY CASPER	83	44	100	40	63	-.1	-.8	-.2	-.1	.7	67	5.2	80	83	18	2	0	1	0	
CHEYENNE	76	45	89	39	61	-.3	T	-.4	T	1.0	65	10.8	155	79	30	0	0	1	0	
LANDER	83	48	96	41	65	-.2	T	-.3	T	.4	30	4.3	52	64	16	1	0	0	0	
SHERIDAN	76	46	86	40	61	-.2	.2	-.3	.1	2.0	112	8.6	98	93	39	0	0	2	0	

Based on 1951-80 normals

National Agricultural Summary

June 18-24, 1990

HIGHLIGHTS: Favorable weather again allowed winter wheat harvest to progress rapidly in the central and southern Great Plains, but rain slowed harvest in Illinois, Indiana, and Missouri. Rain added to soil moisture in the Corn Belt. Soil moisture was surplus to adequate in Illinois, Minnesota, Iowa, and Missouri. Row crop plantings continued to lag behind normal in Illinois, Kentucky, and Missouri. Rain was needed in the Delta and Southeast, especially in Georgia and South Carolina where soil moisture was short to very short. Soil moisture was mostly adequate to short in the northern Great Plains and Pacific Northwest, and mostly short to adequate in most of the West. Hot and humid weather stressed livestock in the Delta. Most of Florida's fruit and vegetable producing areas received needed rain.

SMALL GRAINS: Winter wheat condition was mostly good to fair, with harvest 32 percent (%) complete, 8 percentage points behind the 5-year average. Harvest was active in the central and southern Great Plains. Harvest began in Colorado, Illinois, and Indiana. In Kansas, crop condition was good with harvest 20% complete, 25 points behind normal. Harvest was active in the southern area but was delayed midweek by rain. Oklahoma's winter wheat harvest advanced 35 points and was 90% complete, 10 points ahead of normal. In Texas, harvest advanced 26 points, reaching 67% completion, 3 points ahead of normal. Harvest advanced rapidly in the Plains and was nearly complete in the Cross Timbers and northern Blacklands. Winter wheat was good to fair in the eastern Corn Belt, mostly fair in Illinois, and fair to poor in Missouri. Harvest lagged 36 and 15 points behind normal in Illinois and Indiana, respectively, and 30 points behind normal in Missouri. Winter wheat was good to fair in Colorado and fair to good in Nebraska. Crop condition was mostly good to fair in the Pacific Northwest. Montana's winter wheat was in good condition.

Spring wheat was mostly good with 30% of the acreage headed, 3 points behind normal. North Dakota's crop was good with 26% of the acreage headed, 2 points behind normal.

CORN: Corn was in mostly good to fair condition. Crop condition was good to fair in Illinois and Iowa and mostly good in Nebraska. Corn was fair to good in Indiana and Ohio. Above-normal temperatures and lack of moisture stressed corn in Georgia. Hot and dry weather stressed corn in portions of Texas.

SOYBEANS: Soybean planting was 89% complete, 4 points behind normal. Crop condition was good to fair. Planting lagged 17 and 31 points behind normal in Kentucky and Missouri. In Illinois, planting was 91% complete, 9 points behind normal. Crop condition was good to fair in the Corn Belt. Missouri's crop was fair, and Arkansas' was fair to good. Dry soil conditions slowed planting in Louisiana.

COTTON: Cotton was in mostly good to fair condition with 45% of the acreage squaring, 6 points ahead of normal. Eight percent of the acreage was setting bolls, equal to the average. Texas' crop was good to fair. Fields were setting bolls in the Blacklands and central area of Texas. Lack of

moisture forced some boll shedding in the Coastal Bend and Rio Grande Valley. Cotton was mostly good in California, good to excellent in Arizona and good to fair in Mississippi, Louisiana, and Arkansas.

SORGHUM: Sorghum planting was 92% complete, 1 point ahead of normal. Crop condition was good to fair. Planting lagged behind normal in Illinois and Missouri. In Texas, sorghum was fair to good with planting 98% complete, 5 points ahead of normal. Dry soil conditions slowed planting in the Plains area. Fields were heading in the Blacklands, and harvest continued in the Coastal Bend and Rio Grande Valley, Texas. Planting was 90% complete in Kansas, 5 points ahead of normal. Crop condition was good to excellent in Kansas and good to fair in Nebraska.

OTHER FIELD CROPS: Rice was in mostly good to fair condition with 4% of the acreage headed, 1 point behind normal. Arkansas' rice was good to fair. Peanuts were good to fair in Georgia and excellent to good in Alabama. Peanut planting continued in Texas and Oklahoma. In Kentucky, tobacco was good to fair. However, water damage forced some resetting of tobacco plants in Kentucky. North Carolina's tobacco was good to fair. Harvest of flue-cured tobacco was active. Louisiana's sugarcane was in fair condition.

FRUIT AND NUTS: Rain fell in most of Florida's citrus producing areas. New growth was abundant with some scattered late blooming. New crop fruit sizes were good. Peach harvest continued ahead of normal in the Delta and Southeast. Late variety peach harvest was active in Texas. Arizona's citrus harvest was complete. Grape harvest continued in the central and western areas of Arizona. Apricot, grapefruit, and Valencia orange harvests were active in California, and freestone peach harvest was 36% complete. Cherry harvest continued in Oregon, Washington, and Idaho.

VEGETABLES: Summertime temperatures with locally heavy rainfall occurred in Florida's vegetable producing areas. Potato harvest was complete in the Hastings area. Watermelon harvest was active in Georgia and South Carolina. Irish potato harvest was 37% complete in North Carolina. Sweetpotato planting continued in Mississippi and Louisiana. Watermelon harvest was nearly complete in the Rio Grande Valley, Texas. Onion harvest neared completion in the San Antonio-Winter Garden area. Above-normal temperatures stressed vegetables in the High Plains. Melon harvests continued in central and western Arizona. Onion harvest was underway in western Arizona. In California, cantaloupe harvest began in the Huron area. North Dakota's potatoes were in good condition.

PASTURES AND LIVESTOCK: Pastures were in good to excellent condition in the Corn Belt. Muddy feedlot conditions stressed cattle in Iowa. In the Delta and Southeast, pastures were mostly good to fair. Pasture condition was declining in Georgia due to lack of moisture. High temperatures and humidity stressed livestock and poultry in Arkansas and Louisiana. In the West, pastures and ranges were mostly good to fair. North Dakota's pastures improved and were in fair condition.

Crop Progress

FOR WEEK ENDING JUNE 24, 1990

**RICE
% HEADED**

	1990	1989	AVG.
AR	0	0	0
CA	0	0	0
LA	10	11	14
MS	0	0	0
TX	13	14	16

5 STATES 4 4 5

THESE 5 STATES PRODUCED 97%
OF THE 1989 RICE CROP.

**SPRING WHEAT
% HEADED**

	1990	1989	AVG.
ID	45	18	22
MN	34	23	45
MT	14	9	20
ND	26	11	28
SD	63	58	59

5 STATES 30 19 33

THESE 5 STATES PRODUCED 89%
OF THE 1989 SPRING WHEAT CROP.

**WINTER WHEAT
% HARVESTED**

	1990	1989	AVG.
AR	90	58	82
CA	50	60	61
CO	2	0	2
GA	97	88	95
ID	0	0	0
IL	4	7	40
IN	1	5	16
KS	20	20	45
MI	0	0	0
MO	17	16	47
MT	0	0	0
NE	0	0	0
NC	90	42	65
OH	0	0	0
OK	90	50	80
OR	0	0	0
SD	0	0	0
TX	67	52	64
WA	0	0	0

19 STATES 32 23 40

THESE 19 STATES PRODUCED 88%
OF THE 1989 WINTER WHEAT CROP.

**SOYBEANS
% PLANTED**

	1990	1989	AVG.
AL	90	75	83
AR	74	70	81
GA	87	80	86
IL	91	100	100
IN	94	93	96
IA	99	100	100
KS	95	80	85
KY	60	74	77
LA	92	78	87
MI	100	90	97
MN	98	99	99
MS	79	58	78
MO	58	84	89
NE	99	100	100
NC	87	62	76
OH	92	54	90
SC	87	73	81
SD	99	100	94
TN	74	77	82

19 STATES 89 87 93

THESE 19 STATES PRODUCED 95%
OF THE 1989 SOYBEANS CROP.

**COTTON
% SETTING BOLLS**

	1990	1989	AVG.
AL	9	14	8
AZ	60	74	39
AR	0	0	1
CA	1	5	5
GA	12	4	15
LA	12	1	7
MS	0	0	0
MO	0	0	0
NM	0	0	1
NC	0	0	0
OK	0	0	0
SC	5	0	10
TN	0	0	0
TX	8	10	10

14 STATES 8 9 8

THESE 14 STATES PRODUCED 99%
OF THE 1989 COTTON CROP.

**GRAIN SORGHUM
% PLANTED**

	1990	1989	AVG.
AR	93	98	98
CO	93	90	93
IL	60	91	94
KS	90	85	85
LA	100	96	99
MS	100	93	97
MO	71	95	96
NE	99	99	100
NM	75	NA	NA
OK	85	65	85
SD	86	88	88
TX	98	92	93

12 STATES 92 NA NA

EXCL. STATES
WITH NA 92 90 91

THESE 12 STATES PRODUCED 98%
OF THE 1989 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

**COTTON
% SQUARING**

	1990	1989	AVG.
AL	65	61	63
AZ	92	98	89
AR	35	27	55
CA	60	70	64
GA	72	52	65
LA	85	41	55
MS	57	31	59
MO	35	32	43
NM	40	57	45
NC	38	11	36
OK	5	2	5
SC	32	19	47
TN	22	25	43
TX	34	16	18

14 STATES 45 32 39

THESE 14 STATES PRODUCED 99%
OF THE 1989 COTTON CROP.

Crop Condition

FOR WEEK ENDING JUNE 24, 1990

WINTER WHEAT

STATE	VP	P	F	G	EX
AR	1	9	79	11	0
CA	0	0	10	85	5
CO	2	5	30	49	14
GA	8	7	44	40	1
ID	0	1	8	58	33
IL	7	27	37	27	2
IN	3	11	27	55	4
KS	0	3	26	47	24
MI	0	5	15	55	25
MO	8	40	42	10	0
MT	1	6	18	52	23
NE	0	1	50	45	4
NC	0	2	32	64	2
OH	1	4	25	56	14
OK	0	0	10	85	5
OR	0	0	41	57	2
SD	0	1	10	64	25
TX	3	6	31	48	12
WA	0	0	33	44	23
19 STATE	1	6	28	51	14
PREV WEEK	1	5	25	53	16
PREV YEAR	17	24	34	22	3

CORN

STATE	VP	P	F	G	EX
CO	0	2	28	63	7
GA	4	15	49	32	0
IL	0	3	32	59	6
IN	0	6	44	47	3
IA	0	6	29	61	4
KS	0	0	24	63	13
KY	0	9	28	49	14
MI	0	5	25	50	20
MN	1	7	41	48	3
MO	1	16	56	27	0
NE	0	0	8	81	11
NC	3	1	37	55	4
OH	3	11	37	43	6
PA	0	7	27	49	17
SD	0	1	10	74	15
TX	9	15	30	40	6
WI	1	5	32	61	1
17 STATE	1	5	30	57	7
PREV WEEK	1	5	31	56	7
PREV YEAR	1	4	30	57	8

SOYBEANS

STATE	VP	P	F	G	EX
AL	0	3	32	65	0
AR	0	0	67	27	6
GA	0	14	46	40	0
IL	0	4	37	58	1
IN	0	3	41	51	5
IA	0	7	39	50	4
KS	0	11	16	62	11
KY	0	8	27	55	10
LA	0	0	59	41	0
MI	0	5	20	55	20
MN	1	4	42	51	2
MS	0	15	30	51	4
MO	1	15	58	26	0
NE	0	0	25	70	5
NC	0	1	33	66	0
OH	2	11	36	44	7
SC	0	0	66	34	0
SD	0	0	9	79	12
TN	0	10	29	60	1
19 STATE	0	6	39	51	4
PREV WEEK	1	5	36	54	4
PREV YEAR	0	4	40	52	4

SPRING WHEAT

STATE	VP	P	F	G	EX
ID	0	1	15	56	28
MN	0	2	23	52	23
MT	4	10	26	45	15
ND	0	0	18	61	21
SD	0	0	13	62	25
5 STATE	1	2	20	56	21
PREV WEEK	1	4	20	55	20
PREV YEAR	0	3	20	66	11

SORGHUM

STATE	VP	P	F	G	EX
AR	0	0	71	29	0
CO	0	4	36	51	9
IL	NA				
KS	0	1	12	60	27
LA	0	10	45	45	0
MS	0	1	17	82	0
MO	2	14	54	30	0
NE	0	0	30	67	3
NM	50	0	35	15	0
OK	0	0	5	94	1
SD	0	4	20	74	2
TX	2	11	38	47	2
12 STATE	2	5	28	54	11
PREV WEEK	2	4	26	57	11
PREV YEAR	1	10	33	44	12

COTTON

STATE	VP	P	F	G	EX
AL	0	2	19	74	5
AZ	0	0	0	89	11
AR	0	0	47	53	0
CA	0	0	10	85	5
GA	0	5	34	61	0
LA	0	0	31	69	0
MS	6	0	35	53	6
MO	9	18	64	9	0
NM	0	5	25	65	5
NC	0	0	21	79	0
OK	0	0	2	93	5
SC	0	0	70	30	0
TN	5	8	37	46	4
TX	0	12	34	50	4
14 STATE	1	6	30	59	4
PREV WEEK	1	6	34	56	3
PREV YEAR	0	18	45	34	3

RICE

STATE	VP	P	F	G	EX
AR	0	0	36	59	5
CA	0	0	15	75	10
LA	0	4	23	68	5
MS	0	0	46	54	0
TX	0	1	9	77	13
5 STATE	0	1	28	65	6
PREV WEEK	0	3	35	54	8
PREV YEAR	0	2	28	63	7

VP - VERY POOR P - POOR F - FAIR G - GOOD EX - EXCELLENT

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall under 0.25 in.; 1.00 to 3.00 in. local areas. Temperatures near normal.

Days suitable for fieldwork 6.0. Soil moisture 62% short, 38% adequate. Continued hot, dry weather most areas; corn, cotton, peanut conditions all showed improvement. Corn 78% silked, 76% 1989, 68% avg.; 1% poor, 24% fair, 53% good, 22% excellent. Sorghum 93% planted, 80% 1989, 84% avg.; 10% poor, 14% fair, 71% good, 5% excellent. Cotton 65% squaring, 61% 1989, 63% avg.; 9% setting bolls, 14% 1989, 8% avg.; 2% poor, 19% fair, 74% good, 5% excellent. Peanuts 43% pegging, 31% 1989, 28% avg.; 28% good, 72% excellent. Soybeans 90% planted, 75% 1989, 83% avg.; 3% poor, 32% fair, 65% good. Winter wheat 88% harvested, 68% 1989, 81% avg.; 1% very poor, 2% poor, 66% fair, 31% good. First hay 94% harvested, 83% 1989, 89% avg. Pastures 2% very poor, 3% poor, 40% fair, 47% good, 8% excellent. Livestock 16% fair, 74% good, 10% excellent. Primary activities: Controlling weeds, insects in row crops; cutting, baling hay; planting late soybeans, sorghum; combining winter wheat, small grains; harvesting fruits, vegetables; monitoring, feeding catfish; general care of livestock, poultry.

ALASKA: Shower activity in differing light amounts was a cause for concern as farmers were trying to get first crop hay harvested. Highs 3° below normal to 1° above normal. Lows 2° below normal to 2° above normal. Seasonal precipitation 0.92 in. below normal at Clearwater to 1.42 in. above normal at Kenai.

Days suitable for fieldwork 4.0. Topsoil 23% short, 77% adequate. Subsoil 17% short, 83% adequate. Small grain stage: 95% oats, 55% barley in boot stage of development. Heights of avg. 9 in. Crop growth mostly moderate; slow in areas needing rain. Harvest first crop hay 20% complete. Pasture, range mostly good to excellent. Commercial potato heights avg. 5 in. Harvest of radishes, turnips, spinach, other greens underway.

ARIZONA: Sunny, hot, dry statewide. No precipitation. Temperatures 1° below normal to 7° above.

Cotton squaring 92%, 98% 1989, 89% avg.; setting bolls 60%, 74% 1989, 39% avg.; selective spraying beet army worm west, central, south; crop 89% good, 11% excellent. Small grains harvest 97%, 100% 1989, avg.; good. Alfalfa hay harvest 57% active, 29% moderate, 14% light; crop 71% good, 29% excellent. Grape, honeydew, watermelon, cantaloupe harvest continued west, central; processing tomato, garlic, onion harvest started west. Table potato harvest completed central; dry onion harvest neared completion, mixed winter squash, summer squash, sweet corn harvest continued. Dry onion harvest started east; cabbage harvest continued; citrus harvest completed.

ARKANSAS: Warm, humid week. Temperatures above normal. Widely scattered thunderstorms northwest, east central. Extremes 52°; 101°. Rainfall none to 4.26 in.

Days suitable for fieldwork 7.0. Soil moisture 65% short, 35% adequate. Main activities: Soybeans, sorghum, planting; wheat, oat harvest; cultivating cotton; flooding rice fields; applying fertilizer, herbicides, insecticides; cutting,

baling hay; burning, disking wheat stubble. Corn 100% planted, 100% 1989, 100% avg.; 2% poor, 51% fair, 47% good. Oats 85% harvested, 64% 1989, 80% avg.; 79% fair, 21% good. Cotton 100% emerged, 100% 1989, 100% avg.; 47% fair, 53% good. Soybeans 56% emerged, 58% 1989, 68% avg.; 67% fair, 27% good, 6% excellent. Sorghum 87% emerged, 97% 1989, 96% avg.; 71% fair, 29% good. Cotton irrigation, boll weevil spraying. Rice water weevils appeared. Salt damage to rice. Soybean fields required irrigation. Good stand of sorghum with some weed problems. Lower than normal wheat yields, test weights. Corn tasseling, irrigation continues. Blueberry quality good. Peach quality good. Tomato quality good. Pastures 22% poor, 72% fair, 6% good. Livestock good, heat, humidity causing continued stress.

CALIFORNIA: After a few thunderstorms over the north State early in the week, a brief heat wave arrived mid week. An upper level low pressure trough moved toward the coast on 22nd, bringing cooler weather.

Small grain harvesting continued active, some areas nearing completion. Double cropping to silage corn, milo full swing central valley. Rice completely emerged, good stands due to mild weather. Early planted cotton central valley squaring well, blooms more prevalent. Cultivation, irrigation, insect control continued. Sugarbeet harvest progressed younger plants treated for leafhoppers. Late fields Sudan being planted. Dry beans seeded, corn in various stages of development. Alfalfa hay harvest progressed, third cutting in the Sacramento Valley. Alfalfa seed, safflower in bloom. Growers worked orchard floors. Apricot harvest advanced. Avocado harvest slow; 1991 set suggests normal crop. Figs packed, Fresno County. Grapes irrigated; treated for pests, mildew. Desert valley table grape harvest continued. Thirty-six percent Freestone peaches, 28% nectarines, 22% plums packed. Peaches thinned, sprayed for pests. Navel orange harvest slow, few exports to Japan. Grapefruit, valencia orange harvests advanced. Some oranges, lemons sprayed for red scale. Citrus growers pruned, planted new trees. Almonds irrigated, treated for mites, weeds. Walnuts sprayed for worms. Broccoli continued heavy supply, generally good quality. Bushberries central coast heavy supply, good quality. Cantaloupe harvest started Huron area. Cauliflower moderate supply, variable quality. Sweet corn being picked, Fresno, Visalia areas. Iceberg head lettuce heavy supply central coast, variable quality. Melons desert area Riverside County hurt by virus problems. Spring potato harvest continued Kern district. Processing tomatoes being harvested. Strawberries moderate supply, generally good quality, Watsonville. Livestock generally good, statewide. Pasture, range good to fair northern third State, fair to poor or very poor elsewhere. Water supplies continued adequate northern areas, only marginally sufficient central, southern areas.

COLORADO: Hot dry weather across the State yielded little precipitation. Parts of the southeast hit well over 100° during the week. Precipitation a trace to 0.25 in. Temperatures within 1 to 2° of normal.

Days suitable for fieldwork 6.4. Soil moisture 17% very short, 48% short, 35% adequate. Alfalfa,

1st cutting 60% complete, 2nd cutting just underway. Spring barley, 59% headed, 19% turning. Oats, 53% headed, 8% turning color. Winter wheat, 73% turning color, harvest just underway at 2% complete. Sorghum, 93% planted, 71% emerged. Summer potatoes, 96% emerged, fall potatoes, 85% emerged. Sugarbeets, 92% thinned. Livestock mostly good condition. Pasture, range feed fair to good.

FLORIDA: Much needed rains fell late week, weekend. Rains 1.00 to 3.00 in. common; few areas reported less than 0.50 in. for week, mainly north. Excessive heat, humidity prevailed before rains; maximum temperatures 95 to 100° common, north. Coolest readings mostly upper 60s to mid 70s; some low, mid 60s northwest late weekend. Temperatures 2 to 4° above normal.

Soil moisture short to adequate. Tobacco harvest active; quality good. Hay harvest active areas with adequate moisture to produce cuttings. Corn silage harvest active. Soybean planting winding down. Cotton, peanuts, sugarcane good progress. Panhandle pastures good to excellent; northern, central Peninsula poor to good, lower Peninsula good to excellent. Cattle varied fair to excellent, most good. Rain most citrus areas. Abundant new growth, scattered late bloom. Good sizes, minimal drop on early bloom, new crop fruit. Valencia harvest virtually over. Caretakers cutting cover crops, pruning freeze damaged trees, fertilizing, spraying. Locally heavy rainfall, summertime temperatures over vegetable producing areas. Northern Peninsula, Panhandle harvests supplying July 4th holiday market. Volume leaders: Watermelons, sweet corn. Lesser volume: Peppers, tomatoes, cucumbers, eggplant. Very limited marketings other vegetables. Hastings potato harvest finished. Potato marketings from earlier harvest.

GEORGIA: Hot, humid most of week, cooler, less humid by weekend. Temperatures 1 to 3° above normal. Extreme highs northeast around 90°, 100° or more common central, south. Lows around 50° northeast, low to mid 60s elsewhere except near 70° coast. Many locations rain, under 0.20 in. Showers most numerous northwest, more widely scattered central, south, south east.

Days suitable for fieldwork 6.4. Soil moisture 41% very short, 57% short, 2% adequate. Corn 88% silked, 82% 1989, 87% avg.; 56% dough, 39% 1989, 51% avg.; 20% dent, 11% 1989, 16% avg.; rain needed badly; high temperatures hurting pollination, some corn already lost. Beet armyworms on the increase in cotton. Sorghum 8% poor, 43% fair, 49% good; 93% planted, 89% 1989, 90% avg. Peanuts 21% fair, 79% good; 88% blooming, 79% 1989, 72% avg.; 43% pegging, 36% 1989, 34% avg.; rain needed soon. Earliest soybeans beginning to bloom. Tobacco 1% poor, 25% fair, 74% good; 9% harvested, 7% 1989, 7% avg. Watermelons 3% poor, 51% fair, 40% good, 6% excellent; 28% harvested, 7% 1989, 23% avg. Apples 13% poor, 54% fair, 33% good. Peaches 8% very poor, 21% poor, 9% fair, 63% good; 70% harvested, 65% 1989, 62% avg. Hay 3% very poor, 22% poor, 40% fair, 35% good; harvest active. Pasture 1% very poor, 18% poor, 56% fair, 24% good, 1% excellent; conditions declining rapidly. Cattle, hogs fair to good, poultry stressed. Main activities: Harvesting wheat, tobacco, peaches, hay, watermelons; irrigating; spraying cotton, peanuts. soybean pesticides.

HAWAII: Gusty trade winds pushed two shower bands through Island chain. High cloudiness, mostly windward showers. Trade winds gusty, 15 to 30 mph. Temperatures low 70s to mid 80s. Rainfall none to 4.60 in.

Days suitable for fieldwork 7.0. Heavy seasonal irrigation necessary to maintain crop progress many areas. Papaya production at low level. Sugar, pineapple harvesting continuous. Watermelon production at seasonally high level.

IDAHO: Temperatures slightly above normal, trace precipitation, below normal for State.

Days suitable for fieldwork 7.0. Soil moisture 1% very short, 17% short, 81% adequate, 1% surplus. Winter wheat improved, good to excellent. Spring wheat good. Potatoes 92% emerged, 90% 1989, 95% avg.; 24% 12" high; 3% closing middles. Sugarbeets 99% thinned, 98% 1989, 94% avg. Alfalfa 1st cutting 54% harvested, 64% 1989, 64% avg. Field corn virtually emerged. Dry beans nearly planted; 84% emerged, 91% 1989, 94% avg. Cherries 40% harvested, 15% 1989, 24% avg. Onions mostly thinned. Other fruit thinned, progressing well. Very high infestations Hessian fly in spring wheat, Nez Perce County. Pea aphids, excess moisture damage to lentils north. Spraying russian wheat aphids southern areas. Alfalfa weevils, mormon crickets spreading. Slight frost damage alfalfa, potatoes, east. Irrigation water supplies good. Livestock good. Range, pasture 1% very poor, 6% poor, 18% fair, 58% good, 17% excellent. Stockwater may be problem, east.

ILLINOIS: Temperatures 1 to 3° below normal across State. Precipitation 1.00 to 3.00 in. across State.

Days suitable for fieldwork 3.00. Soil moisture 24% adequate, 76% surplus. Corn avg. height 19 in., 30 in. 1989, 39 in. avg. Corn height most advanced 30 in., 44 in. 1989, 56 in. avg. Wheat turning yellow 92%, 95% 1989, 98% avg. Wheat ripe 38%, 51% 1989, 76% avg. Wheat harvested 4%, 7% 1989, 40% avg. Oats 2% poor, 15% fair, 72% good, 11% excellent. Oats headed 75%, 91% 1989, 98% avg. Oats filled 40%, 51% 1989, 76% avg. Oats turning color 5%, 7% 1989, 30% avg. Alfalfa first crop 12% fair, 75% good, 13% excellent. Alfalfa hay first cutting 80%, 100% 1989, 100% avg. Alfalfa hay second cutting 9%, 23% 1989, 25% avg. Red clover 9% fair, 85% good, 6% excellent. Clover hay cut 60%, 73% 1989, 83% avg. Pasture 3% fair, 61% good, 36% excellent.

INDIANA: Temperatures 3 to 5° below normal. Lows mid 50s to mid 60s, highs mid 70s to mid 80s. Precipitation up to 1.00 in., scattered.

Days suitable for fieldwork 4.4. Topsoil 6% short, 72% adequate, 22% surplus. Subsoil 2% short, 80% adequate, 18% surplus. Corn 97% emerged, 97% 1989, 99% avg.; 16 in. high, 20 in. 1989, 32 in. avg. Soybeans 94% emerged, 93% 1989, 96% avg.; 5 in. high, 5 in. 1989, 8 in. avg. Oats 75% headed, 67% 1989, 84% avg. Alfalfa hay 88% cut, 88% 1989, 94% avg. Pasture 18% fair, 63% good, 19% excellent. Wheat 24% ripe, 26% 1989, 47% avg. Tobacco 83% set, 83% 1989, 92% avg. Corn planting virtually complete. Corn, soybean condition improved.

IOWA: Temperatures 1 to 2° below normal. Extremes 50°; 91°. Precipitation 0.49 to 5.00 in; average 1.83 in.

Days suitable for fieldwork 1.3. Topsoil 20% adequate, 80% surplus. Subsoil 57% adequate, 43% surplus. Winter wheat mostly good to excellent. Hay 3% poor, 16% fair, 62% good, 19% excellent. Pasture 2% poor, 11% fair, 52% good, 35% excellent. Oats 90% headed, 95% 1989, 93% avg.; 2% poor, 16% fair, 60% good, 22% excellent. First crop alfalfa hay 65% harvested, 97% 1989, 97% avg. Corn 38% cultivated first time, 94% 1989, 94% avg. Soybeans 95% emerged, 100% 1989, 100% avg.; 12% cultivated first time, 74% 1989, 69% avg. Livestock mostly good to excellent. Muddy feedlots continue causing stress.

KANSAS: Temperatures near normal; northeast, north central 1 to 2° below normal; rest of State 1 to 2° above normal. Precipitation all areas, 0.25 in. northwest to 1.70 in. southeast.

Days suitable for fieldwork 4.0. Topsoil 15% short, 56% adequate, 29% surplus. Subsoil 12% short, 85% adequate, 3% surplus. Wheat mostly good to excellent. Harvest full swing southern areas, delays caused by wind, rain, hail mid week; resumed by weekend. Test cutting northern counties. Corn, sorghum no problems. Growth generally good. Some scattered hail damage. Some sorghum may need to be replanted to get stand. Soybean planting good progress; ahead of schedule. Stands good growth except southeast where wet fields have been problem since early spring. Haying operations good progress, even with rain delays. Alfalfa second cutting 20% complete. Prairie hay prospects good to excellent. Range, pasture good for time of year; grazing excellent.

KENTUCKY: Temperature within 1 to 2° of seasonal mean. Highs 87°, lows 64°. Highs to lows 1 to 3° above normal. Precipitation 0.70 in., 0.25 in. below normal.

Days suitable for fieldwork 4.7. Soil moisture 2% very short, 7% short, 81% adequate, 10% surplus. Earliest corn tasseling, most late planting completed. Small grain harvest active with double crop soybean following. Wheat 22% harvested, 20% 1989, 47% avg. Barley harvest nearly three quarters complete. Tobacco mostly, good to fair. Some resetting where plants damaged by water. Aphids, Japanese Beetles active. Haying active. Second cutting alfalfa underway. Pasture good to excellent.

LOUISIANA: Temperatures 2 to 5° above normal. Extremes 66°; 102°. Rainfall none to 1.77 in.

Days suitable for fieldwork 6.5. Soil moisture 23% very short, 57% short, 20% adequate. Spring plowing 99%, 100% 1989, 100% avg. Corn silked 99%, 77% 1989, 81% avg.; dough stage 46%, 32% 1989, 40% avg.; 4% poor, 28% fair, 56% good, 12% excellent. Cotton squaring 85%, 41% 1989, 55% avg.; setting bolls 12%, 1% 1989, 7% avg.; 31% fair, 69% good. Irrigation began in northeast. Hay first cutting 90%, 68% 1989, 83% avg. Peaches harvested 50%, 23% 1989, 37% avg.; 29% fair, 71% good. Rice emerged 100%, 100% 1989, 100% avg.; headed 10%, 11% 1989, 14% avg.; 4% poor, 23% fair, 68% good, 5% excellent. Water management, disease control continued. Sorghum planted 100%, 96% 1989, 99% avg.; emerged 98%, 93% 1989, 97% avg.; headed 9%, 5% 1989, 18% avg.; 10% poor, 45% fair, 45% good. Soybeans planted 92%, 78% 1989, 87% avg.; emerged 89%, 69% 1989, 77% avg.; 59% fair, 41% good. Planting was slowed due to lack of moisture. Sweet potatoes planted 83%, 78% 1989, 86% avg.; 22% fair, 78% good. Sugarcane 12% very poor, 63% fair, 25% good. Wheat harvested 97%, 90% 1989, 95% avg. Livestock 32% fair, 64% good, 4% excellent. Heavy losses to broilers due to extreme heat. Pasture 11% poor, 46% fair, 43% good. Vegetables 5% poor, 46% fair, 49% good.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.66 in. Temperature 74°, normal 72°. Extremes 40°; 91°.

Days suitable for fieldwork 5.2. Topsoil 18% short, 58% adequate, 24% surplus. Subsoil 82% adequate, 18% surplus. Soybeans 75% planted, 58% 1989, 73% avg. Sweet corn 97% planted, 92% 1989, 96% avg. Snap beans 89% planted, 86% 1989, 92% avg.; 25% harvested, 8% 1989, 10% avg. Green peas 82% harvested, 100% 1989, 94% avg. Small grains fair to good. Wheat 92% turning, 93% 1989, 93% avg.; 7% harvested, 3% 1989, 21% avg. Oats 75% headed, 55% 1989, 76% avg.; 19% turning, 10% 1989, 42% avg.; 12% harvested, 3% 1989, 6% avg. Barley 95% turning, 100% 1989, 100% avg.; 66% harvested,

39% 1989, 70% avg. Rye 91% turning, 89% 1989, 94% avg.; 31% harvested, 37% 1989, 30% avg. Alfalfa hay first cut 96% complete, 91% 1989, 97% avg.; second cut 24% complete, 6% 1989, 31% avg. Other hay first cut 92% complete, 87% 1989, 92% avg.; second cut 2% complete, 2% 1989, 7% avg. Strawberries 100% harvested, 99% 1989, 98% avg. DELAWARE: Precipitation 0.43 in. Temperature 74°, normal 73°. Extremes 54°; 92°.

Days suitable for fieldwork 6.7. Topsoil 43% very short, 14% short, 43% adequate. Subsoil 14% very short, 14% short, 72% adequate. Soybeans 93% planted, 79% 1989, 81% avg. Sweet corn 97% planted, 98% 1989, 98% avg. Snap beans 99% planted, 100% 1989, 94% avg. Green peas 79% harvested, 36% 1989, 69% avg. Small grains good. Wheat 99% turning, 97% 1989, 99% avg.; 5% harvested, 4% 1989, 15% avg. Barley 85% harvested, 36% 1989, 69% avg. Rye 90% turning, 99% 1989, 86% avg.; 16% harvested, 1% 1989, 7% avg. Lima beans 73% planted, 38% 1989, 77% avg. Alfalfa hay second cut 20% complete, 7% 1989, 41% avg. Other hay first cut 98% complete, 77% 1989, 91% avg.

MICHIGAN: Temperatures normal to 2° below normal. Extremes 41°; 94°. Precipitation 0.32 to 3.65 in. across the State.

Days suitable for fieldwork 5.5. Soil moisture 35% short, 60% adequate, 5% surplus. Corn 5% poor, 25% fair, 50% good, 20% excellent. Soybeans 100% planted, 90% 1989, 97% avg.; 5% poor, 20% fair, 55% good, 20% excellent. Wheat 5% turning, 3% 1989, 30% avg.; 5% poor, 15% fair, 55% good, 25% excellent. Pasture 5% poor, 20% fair, 45% good, 30% excellent. Major activities: Completion of dry bean planting, weed spraying, cultivating, rotary, hand hoeing, surveying for pests, preparing equipment for wheat harvest, orchard spraying, thinning, pruning.

MINNESOTA: Temperatures 0 to 1° below normal. Extremes 40°; 90°. Precipitation 0.50 to 1.10 in., greatest weekly total 1.85 in.

Days suitable for fieldwork 2.0. Topsoil 50% adequate, 50% surplus. Subsoil 1% very short, 22% short, 65% adequate, 12% surplus. Spring wheat 92% jointing, 83% 1989, 85% avg.; 34% heading, 23% 1989, 45% avg. Oats 96% jointing, 93% 1989, 92% avg.; 48% heading, 49% 1989, 64% avg. Barley 93% jointing, 81% 1989, 86% avg.; 35% heading, 24% 1989, 48% avg. Corn 98% emerged, 99% 1989, 99% avg.; 52% cultivated once, 83% 1989, 85% avg.; 12 in. average unextended height, 14 in. 1989, 22 in. avg. Soybeans 96% planted, 99% 1989, 99% avg.; 93% emerged, 98% 1989, 98% avg.; 33% cultivated once, 56% 1989, 64% avg.; 5 in. average unextended height, 5 in. 1989, 7 in. Sweet corn 89% planted, 99% 1989, 99% avg. Alfalfa 41% first crop cut, 83% 1989, 89% avg. Field corn 1% very poor, 7% poor, 41% fair, 48% good, 3% excellent. Soybeans 1% very poor, 4% poor, 42% fair, 51% good, 2% excellent. Spring wheat 2% poor, 23% fair, 52% good, 23% excellent. Oats 1% very poor, 2% poor, 19% fair, 55% good, 23% excellent.

MISSISSIPPI: Temperatures 3° above normal. Extremes 53°; 102°. Dry south, northeast; wet north, central. Rainfall 1.06 in., 0.22 in. above normal. Soil temperatures 88°.

Days suitable for fieldwork 5.7, 4.1 1989, 4.8 avg. Soil moisture 3% very short, 29% short, 65% adequate, 3% surplus. Wheat 99% mature, 97% 1989, 99% avg.; 87% harvested, 58% 1989, 83% avg.; 7% very poor, 38% poor, 40% fair, 15% good. Cotton 57% squaring, 31% 1989; 59% avg.; 6% very poor, 35% fair, 79% good, 6% excellent. Corn 41% silking, 32% 1989, 46% avg.; 2% poor, 10% fair, 81% good, 7% excellent. Rice 96% emerged, 97% 1989, 99% avg.; 46% fair, 54% good. Soybeans 79% planted, 58% 1989, 78% avg.; 68% emerged, 47% 1989, 66% avg. Sorghum 1% poor, 17% fair, 51%

good, 4% excellent. Peanuts 91% planted, 94% 1989, 97% avg. Sweet potatoes 92% planted, 85% 1989, 90% avg. Peaches 52% harvested, 39% 1989, 33% avg.; 31% very poor, 35% poor, 24% fair, 10% good. Hay 46% harvested, 30% 1989, 39% avg. Pasture, livestock fair to good. Activities: Planting soybeans, cultivating row crops, cutting hay, wheat harvest ending.

MISSOURI: Temperatures near normal. Rainfall 2.00 in southwest, less than 1.00 in. elsewhere.

Days suitable for fieldwork 3.0, northern two thirds 1.4 to 2.4 days, southern one third 4.9 to 5.6 days. Topsoil short, 31% adequate, 63% surplus. Corn planting over 1 month behind normal. Single crop soybean plantings ranges over 70% northwest, southeast, less than 50% west central, central. Sorghum over 81% northwest, south central, southeast, less than 50% north central, northeast, west central. Alfalfa first cutting 78%, 98% 1989 and avg. Other hay 44% cut, 64% 1989, 70% avg. Pastures 1% poor, 7% fair, 69% good, 23% excellent. Wheat light test weights reported. Scab, other diseases present.

MONTANA: Temperatures normal to 4° above. Precipitation fell most locations. Most amounts near 0.15 in. Nearly all stations now below normal for growing season. Driest part of State in northeast.

Days suitable for fieldwork 5.7. Topsoil 31% short, 68% adequate, 1% surplus. Subsoil 46% short, 54% adequate. Barley 2% very poor, 5% poor, 18% fair, 56% good, 19% excellent; 13% headed, 10% 1989, 18% avg. Oats 4% very poor, 10% poor, 26% fair, 51% good, 9% excellent; headed 11%, 4% 1989, 25% avg. Pasture, range feed 4% very poor, 11% poor, 25% fair, 47% good, 13% excellent. First cutting alfalfa harvested 15%, 17% 1989, 36% avg. Other hay harvested 11%, 13% 1989, 17% avg.

NEBRASKA: Temperatures near normal. Extremes 41°; 100°. Precipitation at or below normal west, slightly above normal east.

Days suitable for fieldwork 3.6. Topsoil 14% short, 53% adequate, 33% surplus. Subsoil 25% short, 72% adequate, 3% surplus. Winter wheat 75% turning color, 71% 1989, 83% avg.

NEVADA: Summer weather right on schedule. Temperatures for week about 5° above normal. Rain showers spotty, light. Most north locations only trace. Southern areas dry. Extremes 36°; 113°.

First crop alfalfa hay about completed. Some rained on, most good quality. Second crop expected better quality. Potato acreage all emerged despite earlier frosts, low night temperatures. Nearly all 1990 potato crop cultivated at least once. Still shipping 1989 potatoes. Prices for both hay, potatoes favorable. Cattle mostly good.

NEW ENGLAND: Precipitation 0.01 to 0.50 in. Connecticut, Rhode Island, southern Massachusetts; 1.10 to 2.60 in. elsewhere; selected stations northern Maine, northern Vermont 3.00 in. or more. Temperatures 3 to 5° above normal. Highs low to mid 80s north, mid 80s to 90s south; lows 50s.

Days suitable for fieldwork 5.0. Soil moisture north 62% adequate, 38% surplus; south 15% short, 82% adequate, 3% surplus. Grazing availability 89% adequate, 11% surplus. Pasture 5% fair, 76% good, 19% excellent. Maine potatoes 95% emerged, 100% 1989, 88% avg.; good. Rhode Island potatoes 95% emerged, 100% 1989, 100% avg.; good. Connecticut River Valley potatoes 94% emerged, 100% 1989, 100% avg.; good. Field corn 97% planted, 95% 1989, 97% avg.; 87% emerged, 90% 1989, 93% avg.; good. Sweet corn 92% planted, 90% 1989, 93% avg.; 83% emerged, 86% 1989, 88% avg.; good. First cut hay 57% complete, 40% 1989, 62% avg.; good. Apples

average fruit set, light to average scab. Strawberries 29% harvested; good. Cranberries 10 to 20% open blossoms. Major farm activities: Cutting hay, picking strawberries, spreading manure, spraying fruit crops.

NEW JERSEY: Temperatures near normal. Extremes 53°; 91°. Rainfall 1.33 in. north, 1.01 in. central, 1.33 in. south. Heaviest 24 hour total 1.80 in. on 18th, 19th. Estimated soil moisture percent field capacity averaged 87% north, 70% central, 72% south. Four inch soil temperatures averaged 70° north, 70° central; 72° south.

Fieldwork again very active as result of favorable weather conditions. Some fields too wet in low spots, crops drowned out. Recent low humidity excellent for vegetable crop quality. Spring vegetable harvest nearing completion. Summer vegetable harvest increased. Strawberry picking about over. Blueberry harvest increased. Barley combining increased. Hay baling active. Soybean planting continued. Pasture growth continued excellent.

NEW MEXICO: Temperatures 5 to 8° above normal, some spotty precipitation.

Days suitable for fieldwork 6.9. Soil moisture 93% short. Cotton squaring 40%; 5% poor, 25% fair, 65% good, 5% excellent. Milo planted 75%; very poor to good. Cattle poor to good; sheep poor to good; range 13% very poor, 74% poor, 13% fair.

NEW YORK: Temperatures 2 to 4° above normal. Rainfall variable, highest in southeast with about 0.50 in. Most areas received 1.00 to 2.00 in. Over 3.00 in. fell at Jamestown, Massena, Slide Mountain as a result of localized heavy storms.

Days suitable for fieldwork 4.6. Soil moisture adequate. Pastures 16% fair, 75% good, 9% excellent. Hay, wheat good. Hay harvest slowed by wetness. First cutting of alfalfa 48% complete, 25% 1989, 54% avg. Clo tim harvest 42% complete, 17% 1989, 37% average. Corn planting virtually finished. Dry bean planting in full swing. Early planted fields emerged, good. Early potatoes blooming. Hudson Valley apples in excellent. Grape bloom ending. Early sweet cherry picking almost ready to begin. Vegetables developing rapidly. Most crops in good condition. Lettuce, strawberry harvests active.

NORTH CAROLINA: Temperatures above normal across State. Precipitation none to 2.02 in. Extremes 51°; 104°.

Days suitable for fieldwork 6.1. Soil moisture 19% very short, 60% short, 21% adequate. Pasture 2% very poor, 4% poor, 40% fair, 50% good, 4% excellent. Livestock feed from pasture 83%. Hay first cutting 90%. Hay second cutting 38%. Sorghum planted 76%; soybeans planted 87%. Irish potatoes harvested 37%; wheat harvested 90%; oats harvested 92%; barley harvested 94%; rye harvested 81%; peaches harvested 45%. Corn silked 26%; cotton squared 38%. Crop condition: Wheat, 2% poor, 32% fair, 64% good, 2% excellent; corn 3% very poor, 1% poor, 37% fair, 55% good, 4% excellent; cotton 21% fair, 79% good; soybeans 1% poor, 33% fair, 66% good; peanuts 36% fair, 64% good; flue cured tobacco 31% fair, 66% good, 3% excellent; irish potatoes 23% fair, 69% good, 8% excellent; sweet potatoes 25% fair, 75% good; peaches 13% very poor, 12% poor, 42% fair, 33% good; apples 4% very poor, 13% poor, 25% fair, 58% good; truck crops 44% fair, 54% good, 2% excellent; hay 3% poor, 32% fair, 62% good, 3% excellent. Major activities: Planting soybeans; cultivating, spraying, harvesting, topping flue cured tobacco; hay harvesting; transplanting burley tobacco; harvesting small grains; cultivating, spraying field crops; harvesting cabbage, cucumbers. Other activities included:

planting truck crops; tending livestock; planting sorghum; harvesting irish potatoes; transplanting sweet potatoes; harvesting peaches; general farm maintenance.

NORTH DAKOTA: Temperatures 2° above normal northwest to near normal west central, southwest, south central. Extremes 41° west central; 87° northwest. Precipitation 0.69 in. northwest to 1.89 in. southwest.

Days suitable for fieldwork 5.7. Topsoil 2% very short, 32% short, 66% adequate. Subsoil 27% very short, 48% short, 25% adequate. Spring wheat 18% fair, 61% good, 21% excellent; 89% jointing and beyond, 81% 1989, 88% avg. Durum wheat 19% fair, 57% good, 24% excellent; 74% jointing and beyond, 65% 1989, 78% avg. Oats 32% fair, 54% good, 14% excellent; 89% jointing and beyond, 78% 1989, 89% avg. Barley 13% fair, 62% good, 25% excellent; 93% jointing and beyond, 84% 1989, 91% avg. Winter wheat 17% poor, 45% fair, 33% good, 5% excellent; 88% heading to flowering and beyond, 77% 1989, 90% avg. Late season crop growth slightly behind five year avg. Flax 18% fair, 69% good, 13% excellent; 5 in. height, 5 in. 1989, 6 in. avg. Corn 22% fair, 73% good, 5% excellent; 9 in. height, 9 in. 1989, 13 in. avg. Soybeans 10% fair, 89% good, 1% excellent; 6 in. height, 6 in. 1989, 7 in. avg. Dry edible beans 5% fair, 92% good, 3% excellent; 6 in. height, 5 in. 1989, 6 in. avg. Potatoes 100% good; 7 in. height, 8 in. 1989, 9 in. avg. Sunflower 1% very poor, 12% fair, 75% good, 12% excellent; 6 in. height, 6 in. 1989, 7 in. avg. Pastures improved to none very poor, 32% poor, 48% fair, 20% good; furnished 96% roughage requirements. Stockwater 2% very short, 43% short, 54% adequate, 1% surplus. Hay crop harvest in full swing, first cutting alfalfa 16% complete, other hay 8% complete.

OHIO: Cool. Highs mid 70s. Lows mid 50s. Temperatures generally 1 to 3° subnormal. Growing degree day accumulation 10 to 30 units below normal. Precipitation 0.20 to 0.75 in.; few areas greater than 1.00 in.

Days suitable for fieldwork 5.5. Soil moisture 8% short, 70% adequate, 22% surplus. Activities: Planting, cultivating, spraying, rotary hoeing, cutting, baling hay. Corn fair to good; some fertilizer deficiencies from leaching, slug infestation diminishing. Soybeans fair to good; few weedy stands, bean leaf beetles. Winter wheat good, ripening quickly, some disease. Pasture 1% very poor, 5% poor, 26% fair, 53% good, 15% excellent. Hay fair to good; regrowth fast. Potato leaf hopper feeding in alfalfa.

OKLAHOMA: Temperatures 1° above normal north central to 3° above normal southwest. Precipitation 0.17 in. west central to 1.56 in. northeast.

Days suitable for fieldwork 6.6. Topsoil 63% short, 35% adequate, 2% surplus. Subsoil 5% short, 95% adequate. Wheat 10% fair, 85% good, 5% excellent; 100% heading, 100% 1989, 100% avg.; 90% harvested, 50% 1989, 80% avg.; 40% ground plowed, 10% 1989, 20% avg. Cotton 2% fair, 93% good, 5% excellent; 95% planted, 80% 1989, 85% avg.; 85% up to stand, 75% 1989, 65% avg.; 5% squaring, 2% 1989, 5% avg. Some irrigation in southwest. Sorghum 5% fair, 94% good, 1% excellent; 85% planted, 65% 1989, 85% avg.; 70% up to stand, 50% 1989, 55% avg. Soybeans 75% planted, 70% 1989, 80% avg.; 25% up to stand, 50% 1989, 55% avg.; 0% flowering, 0% 1989, 2% avg. Peanuts 90% planted, 95% 1989, 90% avg.; 65% up to stand, 70% 1989, 70% avg.; 1% pegging, 3% 1989, 2% avg. Corn 10% tasselling, 10% 1989, 20% avg. Alfalfa 85% second cutting, 50% 1989, 50% avg. Pastures 1% poor, 24% fair, 70% good, 5% excellent. Dry winds slowing forage growth. Cattle good; marketings average, prices up from preceding week.

OREGON: Temperatures above west: 1 to 3° coast, 4° interior except Medford 6° above. East mostly 2 to 4° above normal except Klamath Falls, Lakeview 2 to 3° below normal, Heppner, Madras 5 to 6° above. Thunderstorms beginning, end of week brought less than 0.10 in. precipitation to most areas. Northeast mountains had 0.25 to 0.40 in.

Soil moisture 25% short, 75% adequate. Fieldwork resumed with warm, dry weather. First hay cutting nearly complete, second cutting underway most areas. Early grass seed varieties harvested Willamette Valley. Winter wheat, barley beginning to turn; harvest very near some eastern areas. Sweet cherries in good condition The Dalles, harvest underway, some splitting in early varieties, majority of crop unharmed. Harvest underway Douglas County, Willamette Valley; significant fruit cracking Willamette Valley. Cherry picking continued Milton Freewater. Strawberry picking continued under better conditions Willamette Valley; red raspberry, Earliblue blueberry harvests started. Excellent cranberry fruit set south coast. Green pea harvest continued all areas, maturing rapidly under warm weather. Early sweet corn tasseling Umatilla County. Onions good. Many potatoes just breaking ground Klamath County. Livestock excellent. Pasture good to excellent west except Douglas County, Jackson County, where conditions are drier. Range poor to excellent east; very dry southeast, Columbia Basin; much wetter than normal Wallowa Mountains.

PENNSYLVANIA: Warm, slightly normal precipitation. Temperatures 70°, 30° above normal. Extremes 46°, 94°. Precipitation 0.79 in., 0.15 in. below normal.

Days suitable for fieldwork 4.0. Soil moisture 1% short, 85% adequate, 14% surplus. Corn 96% planted, 86% 1989, 97% avg.; height 11 in., 9 in. 1989, 15 in. avg.; 8% poor, 24% fair, 50% good, 18% excellent. Tobacco 83% transplanted, 70% 1989, 86% avg. Soybeans 86% planted, 58% 1989, 83% avg.; 2% very poor, 6% poor, 27% fair, 54% good, 11% excellent. Barley 33% heading or headed, 37% 1989; 49% turning yellow, 47% 1989; 15% ripe, 16% 1989; 3% harvested, 2% 1989. Wheat 69% heading or headed, 74% 1989; 31% turning yellow, 26% 1989; 2% very poor, 1% poor, 20% fair, 54% good, 23% excellent. Oats 98% heading or headed, 100% 1989; 2% turning yellow, 0% 1989; 2% poor, 17% fair, 53% good, 28% excellent. First cutting alfalfa 72% complete, 43% 1989. Second cutting alfalfa 4% complete, 4% 1989. First cutting clover timothy 49% complete, 29% 1989. Hay stands mostly fair. Feed from pastures average. Peaches 37% below avg., 63% avg., 0% above avg. Apples 16% below avg., 84% avg., 0% above avg. Activities: Planting corn, soybeans, potatoes, vegetable; harvesting hay, haylage, strawberries; repairing fence; weed control; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

PUERTO RICO: Rainfall 0.93 in. was 0.34 in. below normal. Highest rainfall 5.54 in. at Pico Del Este Luquillo, 3.92 in. at Dos Bocas, 2.99 in. at San Sebastian. Temperature 81 to 82° on the Coast, 75 to 78° in Interior with mean station 67° at Pico Del Este Luquillo to 84° at Roosevelt Roads N.S. Extremes 61° Adjuntas Aes; 95° Coloso, San Sebastian.

SOUTH CAROLINA: Temperatures 2° above normal in northwest to 5° above normal along coast. Rainfall 0.20 in. northwest to 0.50 in. lower State.

Days suitable for fieldwork 6.1. Soil moisture 37% very short, 58% short, 5% adequate. Cotton 70% fair, 30% good; 32% squaring, 19% 1989, 47% avg.; 5% setting bolls, 0% 1989, 10% avg.

Soybeans 66% fair, 34% good; 87% planted, 73% 1989, 81% avg. Corn fair; 66% silked, 39% 1989, 53% avg.; 17% dough stage, 3% 1989, 9% avg. Sorghum fair to good; 83% planted, 45% 1989, 72% avg. Tobacco 55% topped, 21% 1989, 28% avg.; 3% harvested, 0% 1989, 0% avg. Peanuts fair to good. Watermelons 21% harvested, 13% 1989, 12% avg. Cantaloupes fair to good; 22% harvested, 19% 1989, 14% avg. Peaches fair, 35% harvested, 22% 1989, 27% avg. Oats fair to good; 97% harvested, 65% 1989, 80% avg. Wheat 92% harvested, 72% 1989, 84% avg.

SOUTH DAKOTA: Temperatures 4° above to 3° below normal. Extremes 40°; 93°. Precipitation widespread with largest southeast, east central. Maximum 4.66 in. Growing season precipitation generally above normal, spotty in north, northwest; 7.80 in. above to 2.38 in. below normal. Growing degree days 116 units above to 140 units below normal.

Days suitable for fieldwork 3.8. Subsoil 4% critically short, 31% short, 62% adequate, 3% surplus. Topsoil 1% critically short, 8% short, 77% adequate, 14% surplus. Range, pasture 5% poor, 19% fair, 57% good, 19% excellent. Crops mostly good. Some drowning out in low lying areas with heavy rains. Hail damage west central, east central, central, southeast, some reseeding. Grasshoppers showing up but little damage reported. Barley yellow dwarf, tan spot, wheat streak mosaic, rust, cutworms. Major activities: Cultivating, spraying, haying, planting forage, other row crops, working cattle, fencing.

TENNESSEE: High pressure brought hot, humid conditions through mid week. Cold front 22nd brought heavy showers, thunderstorms most sections. Temperatures 4° above normal west, middle; normal east; 4° below normal Cumberland Plateau. Temperatures excess of 100° common west. Isolated thunderstorms early week. Heavier rainfall associated with cold front late week. Rainfall 1.00 in. above normal west, middle, less than 0.50 in. above normal east; 0.50 in. below normal Cumberland Plateau.

Days suitable for fieldwork 5.3. Soil moisture 2% very short, 36% short, 58% adequate, 4% surplus. Corn 8% tasseling, 7% 1989, 24% avg.; 2% very poor, 4% poor, 25% fair, 61% good, 8% excellent. Cotton 22% squaring, 25% 1989, 43% avg.; 5% very poor, 8% poor, 37% fair, 46% good, 4% excellent. Sorghum 98% planted, 100% 1989, 95% avg.; 2% very poor, 8% poor, 27% fair, 57% good, 6% excellent. Soybeans 74% planted, 77% 1989, 82% avg.; 10% poor, 29% fair, 60% good, 1% excellent. Tobacco 100% transplanted, 90% 1989, 97% avg.; 4% poor, 32% fair, 64% good. Wheat 92% ripe, 90% 1989, 94% avg.; 58% harvested, 22% 1989, 63% avg.; 2% very poor, 16% poor, 63% fair, 13% good, 6% excellent. Alfalfa 48% 2nd cutting, 18% 1989, 51% avg. Primary activities: Controlling weeds, insects in row crops; cutting, baling hay; planting soybeans, sorghum; combining small grains; harvesting fruit crops, early vegetables; mowing pastures; general care of livestock, poultry. Livestock mostly good. Heat, flies causing stress. Short soil moisture levels becoming a concern middle, east. Wheat, tobacco diseases prevalent.

TEXAS: Dry weather, much above normal temperatures prevailed most States during week, upper level high pressure remained dominant weather feature. High temperatures near or above the 100° mark common place, except along coast. Several daily high records broken west, south weekend. Early week, weak front triggered few showers Panhandle, another front triggered thunderstorms mid week. Fairly strong front brought very welcomed cooling north central, north

eastern counties late weekend along with scattered thunderstorms. For week, temperatures well above normal over High Plains, Trans Pecos, Edwards Plateau, near to slightly above normal elsewhere. Only exception slightly below normal readings Cross Timbers. Rainfall below normal all areas.

Crops: Small grain harvest advanced rapidly Plains, dryland yields average. Producers not harvested too many irrigated fields, some fields very good yields. Harvest nearly completed Cross Timbers, northern Blacklands. Corn crop many parts south, south central very stressed by hot, dry conditions. Producers expect reduced yields. Yields reductions expected Blacklands, dry weather taken toll. Irrigation steady Plains. Because excessive heat, many producers finding hard to keep up with water demands even with irrigation. Corn 54% silked, 63% 1989, 62% avg.; 38% doughing 47% 1989, 47% avg.; 7% dented, 14% 1989, 20% avg. Grain sorghum planting continued slow pace Plains because dry weather. Most irrigated fields planted. Irrigation steady. Fields heading Blacklands, some early fields beginning turn color under hot temperatures. Green bug activity increasing. Harvest moved into south central. Coastal Bend, some fields lodging because dry conditions. Harvest increasing Valley, crop heat, drought stressed. Sorghum 43% headed, 47% 1989, 50% avg.; 25% turning color, 34% 1989, 29% avg.; 0% mature; 2% 1989, 7% avg. Cotton planting Plains nearly complete; some dry land fields not planted. Fields varied condition. Most earlier planted fields squaring. Fields Blacklands squaring, some beginning to set bolls. Light to moderate insect activity. Fields setting bolls central. Rain would help. Some boll shedding Coastal Bend, Valley. Rain could still help these areas. Cotton 99% planted, 97% 1989, 96% avg. Soybeans were making good growth under steady irrigation Plains. Fields Blacklands beginning to stress from dry conditions. Early stands Upper Coast good; later fields need rain. Some fields shedding pods. Planting continued. Rice fields were nearly all emerged, permanent flood continued. Rice 100% emerged, 100% 1989, 100% avg. Peanut fields Cross Timbers varied strands. Late planted dryland fields need rain. Producers dusting in fields parts central. Irrigation steady Hill Country. Other fields crops: Peanuts 65% planted, 77% 1989, 75% avg. Soybeans 94% planted, 84% 1989, 79% avg. Sunflowers 80% planted, 63% 1989, 67% avg. Oats 76% harvested, 71% 1989, 69% avg.

Commercial Vegetables: Rio Grande Valley, few watermelons still being harvested. Land preparation continued. San Antonio Winter Garden, onion harvest winding down. Eastern State harvest continued without delay. Hot temperatures affect quality. High plants, hot temperatures stressing many fields. Irrigation steady. Trans Pecos, cantaloupe yields, quality good. Onion, cabbage harvest continued. Harvest late variety peaches continued with good quality. Pecans showing some moisture stress parts of State. Above normal drop some groves. Spraying continued. Casebearer damage moderate untreated groves.

Range and Livestock: Hot, dry conditions stressing pastures, ranges much State. Haying operations continued. Regrowth slow. Some producers being forced to reduce herds because lack of forage. Supplemental feeding necessary many areas. Range, pasture 3% very poor, 17% poor, 41% fair, 34% good, 5% excellent.

UTAH: Temperatures 1° below normal. Precipitation light in northern third, almost zero in rest of State.

Days suitable for fieldwork 6.8. Soil moisture 83% short, 17% adequate. Irrigation underway, water supplies short some areas. Hot dry weather resulted in rapid corn growth. Alfalfa hay

harvest also progressed well. Small grain development progressed according to schedule. Winter wheat 100% headed, 100% 1989, 100% avg.; turning color 36%. Spring wheat 74% headed, 61% 1989, 72% avg. Barley 79% headed, 69% 1989, 77% avg. Corn average height 15 in. First cutting alfalfa hay 85% completed, 89% 1989, 83% avg.; second cutting underway early areas. Sweet cherry harvest completed Grand County, underway Box Elder, Weber counties. Fruit quality good most areas. Range, pasture 3% very poor, 39% poor, 53% fair, 5% good.

VIRGINIA: Near normal temperatures first of week, above normal rest of week. Moderate rainfall about 0.25 to 0.75 in. Extremes 45°; 93°.

Days suitable for fieldwork 5.5. Topsoil 38% short, 58% adequate, 4% surplus. Corn 6% poor, 28% fair, 59% good, 7% excellent. Soybeans 80% planted, 59% 1989, 66% avg.; 40% fair, 60% good. Pasture 37% fair, 48% good 15% excellent. Tobacco 41% fair, 43% good, 16% excellent. Growers sprayed for insects, cultivated, layed by, irrigated. Potato 50% fair, 49% good, 1% excellent. Producers were preparing for harvest, some were still irrigating. Alfalfa 18% fair, 67% good, 15% excellent. Other hay 21% fair, 60% good, 19% excellent. Peanut 67% fair, 33% good. Spraying for weeds continued. Livestock mostly good. Some lamb sales. Wheat harvest 40% completed, 16% 1989, 24% avg. Barley 81% harvested, 61% 1989, 67% avg. Apples mostly fair. Side dressing, cultivating row crops, spraying fruit, picking snap beans, berries.

WASHINGTON: Temperatures 2° below normal to 2° above normal, east; normal to 4° below normal, west. Precipitation none to 0.06, east; none to 0.02, west.

Days suitable for fieldwork 6.8. Soil moisture 31% short, 65% adequate, 4% surplus. Range, pasture 35% short, 63% adequate, 2% surplus. Hay, other roughage 20% short, 78% adequate, 2% surplus. Winter wheat headed, 99%, 98% 1989, 95% avg. Spring wheat headed 85%, 79% 1989, 72% avg. Barley headed 90%, 89% 1989, 77% avg. Alfalfa hay, 1st cutting, 83%, 96% 1989, 90% avg. Warm, dry weather improved crop conditions. Small grains continued in good condition, although some foot rot, rust, stem maggot, Russian wheat aphid damage. Haying activity increased with the

favorable weather. Cherry, strawberry harvests continued. Pastures continued good in west. Livestock was mostly on summer ranges, some lambs marketed.

WEST VIRGINIA: Temperature 69°. Extremes 48°, 93°. Precipitation avg. 0.77 in.

Days suitable for fieldwork 4.1. Soil moisture 4% short, 78% adequate, 18% surplus. Pasture 7% fair, 76% good, 17% excellent. Cattle, sheep good to excellent. Wheat, barley mostly fair to good. Wheat 37% ripe, 28% harvested. Barley 44% ripe, 29% harvested. Oats good, 93% emerged, 36% jointed. Corn good to fair. Hay good to excellent; first cutting 48% complete. Apples, peaches poor. Tobacco good, 92% set. Farm activities: Hay harvesting, setting tobacco, livestock care.

WISCONSIN: Temperature 66°, 2° below normal. Extremes 36°; 88°. Precipitation 0.40 to 3.50 in.

Days suitable for fieldwork 4.2. Soil moisture 4% short, 58% adequate, 38% surplus. Pasture 5% fair, 58% good, 37% excellent. General condition of crops 1% poor, 17% fair, 79% good, 3% excellent. Corn 1% very poor, 5% poor, 32% fair, 61% good, 1% excellent. Soybean 79% of normal. Corn height 10 in., 15 in. 1989, 19 in. avg. First cut hay 53% completed, 68% 1989, 80% avg. Oats 30% headed, 36% 1989, 59% avg.

WYOMING: Cooler, drier than normal.

Days suitable for fieldwork 7.0. Topsoil 51% short, 49% adequate. Small grains row crops, alfalfa fair to good. Winter wheat 5% not jointed, 5% 1989, none avg.; 20% jointed, 10% 1989, 10% avg.; 25% boot, 30% 1989, 20% avg.; 50% headed, 55% 1989, 70% avg. Barley 10% not jointed 10% 1989, 20% avg.; 15% jointed, 20% 1989, 20% avg.; 25% boot, 30% 1989, 30% avg.; 50% headed, 40% 1989, 30% avg. Spring wheat 20% not jointed, 5% 1989, 15% avg.; 35% jointed, 40% 1989, 35% avg.; 25% boot, 40% 1989, 35% avg.; 20% headed, 15% 1989, 15% avg. Oats 30% not jointed, 10% 1989, 25% avg.; 40% jointed, 40% 1989, 30% avg.; 20% boot, 40% 1989, 35% avg.; 10% headed, 10% 1989, 10% avg. Sugarbeets 85% thinned, 85% 1989, 80% avg. Alfalfa first cutting 20% complete, 25% 1989, 25% avg. Other hay 5% complete, 5% 1989, 5% avg. Livestock, ranges, pastures mostly good. Stockwater 20% short, 80% adequate.

International Weather and Crop Summary

HIGHLIGHTS

June 17-23, 1990

USSR ... In Western USSR, a warming trend in the west and south favors winter grain maturation and promotes summer crop growth. In the New Lands, hot dry weather in major spring grain producing areas of the southern Urals and Kazakhstan increases heat stress on crops in the vegetative stage.

EUROPE ... Beneficial rain covers England, France, and most of northern Europe, improving crop conditions.

SOUTH ASIA ... Widespread, locally heavy rains benefit main season crop planting and establishment but cause some flooding.

EASTERN ASIA ... Widespread, locally heavy showers benefit spring crops in southern and central areas but cause some flooding. Typhoon Ofelia brushes the southeast late in the week.

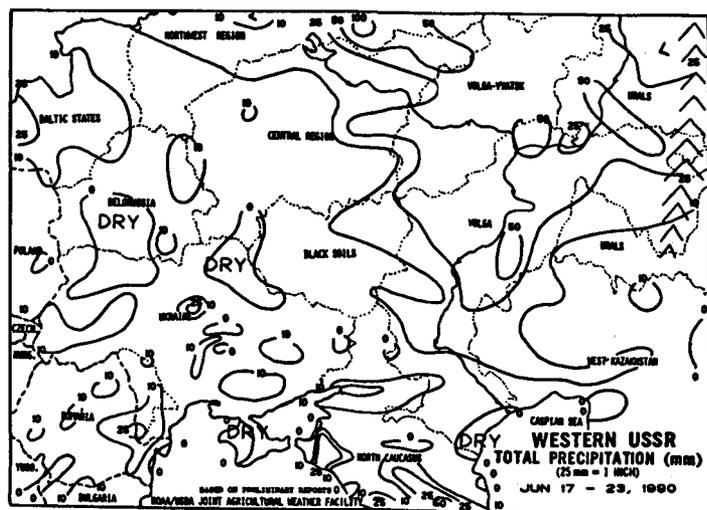
SOUTHEAST ASIA ... Typhoon Ofelia brings inundating rain to the northern Philippines, causing some flooding and crop damage.

SOUTH AMERICA ... In Brazil, dry weather in the north favors citrus and coffee harvests, while wet weather in the south maintains saturated field conditions. In Argentina, dry weather helps late summer crop harvesting and wheat planting.

AUSTRALIA ... Mostly dry, cool weather allows late winter grain planting but slows germination.

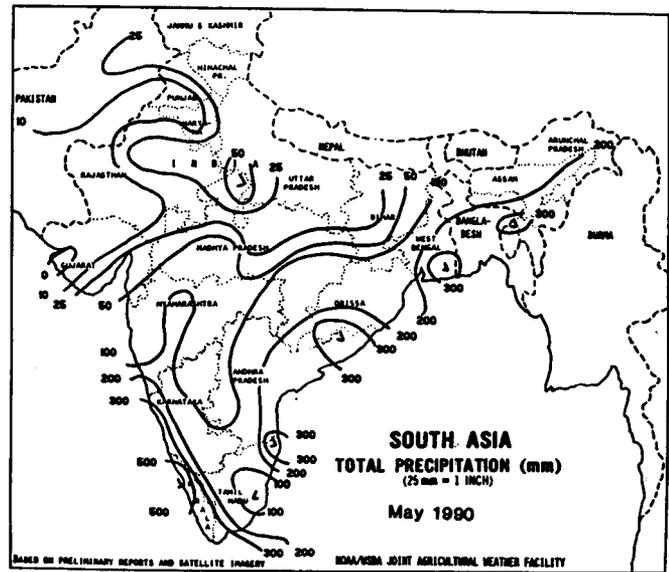
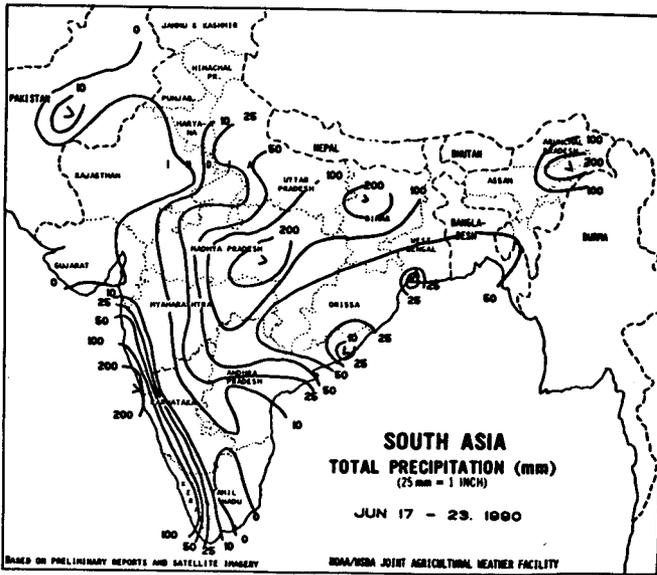
MEXICO ... Tropical Storm Douglas produces heavy rain along the southwestern coast, but dissipates before reaching northwest farming areas where oppressive heat continues.

CANADA ... Wet weather continues in the eastern Prairies, improving soil moisture but preventing replanting.



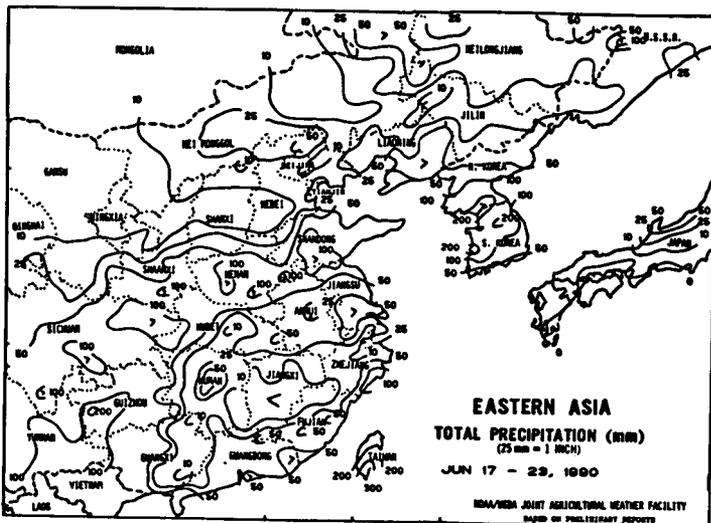
USSR ... In Western USSR, winter grains were maturing in the extreme south and advancing through reproduction in the north. Crop progress for spring barley ranged from early grain filling in the south to jointing in the north. Corn, sugarbeets, and sunflowers were in the vegetative stage. Unseasonably cold weather continued over the Central Region, eastern Belorussia, Black Soils Region, the northern Ukraine, the Volga Valley, and the Volga Vyatsk Region, where weekly average temperatures ranged from 2 to 4 degrees Celsius (C) below normal. A warming trend over the western and southern Ukraine and the western North Caucasus favored winter grain maturation and promoted summer crop growth. Soaking rain (25-60mm) benefited crops in the Volga Vyatsk Region and the upper Volga Valley. Variable amounts of precipitation (1-10mm, with local amounts in excess of 20mm) covered crop areas over the remainder of the region.

In the New Lands, spring grains were in the vegetative stage. Early-week hot, dry weather over the southern Urals and western Kazakhstan spread eastward during the week. In major spring grain producing areas of the southern Urals and Kazakhstan, maximum temperatures (ranging from 35 to 38 degrees C) were accompanied by extremely low relative humidities, increasing crop-moisture usage and placing moderate heat stress on spring grains. Although cooler weather by week's end in these areas relieved heat stress, it was accompanied by little, if any rain. Spring grain areas in the southern Urals and Kazakhstan have experienced mostly dry weather for the past 6 weeks, and moisture reserves are becoming depleted. Timely rain is needed in upcoming weeks to prevent rapid crop deterioration as spring grains advance through the highly weather sensitive reproductive phase of development. Widespread rain in the northern Urals maintained favorable moisture conditions for crops.

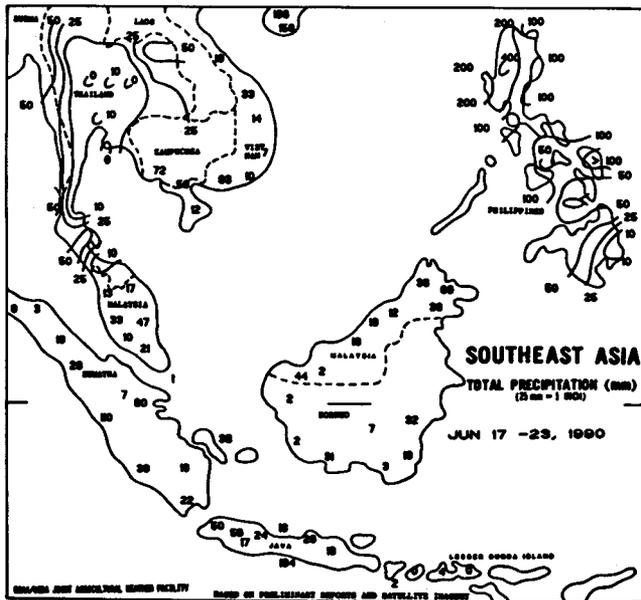


SOUTH ASIA ... Moderate to heavy showers (25-50mm or more) maintained favorable conditions over most southern and eastern crop regions for planting and establishment, although excessive rainfall (100-200mm or more) caused some flooding in the far east and along the southwest coast. However, dry pockets continued over the southern interior from Karnataka and southern Andhra Pradesh southward, with hot weather along the southeast coast maintaining high moisture demands on emerging crops. Further north, moderate to heavy rain (50-100mm or more, with local accumulations exceeding 200mm) improved planting conditions from western Madhya Pradesh to northern Bihar, where the first substantial rain of the season fell. Hot weather, with only a few scattered showers, continued in northwestern India and Pakistan. The southwest monsoon, which is progressing at about the usual pace across the region, does not usually reach the northwest until late June or early July.

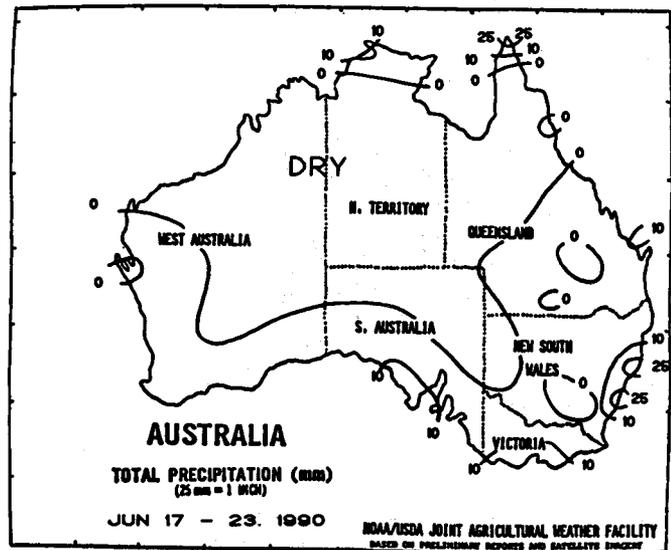
Correction In last week's issue, the May total precipitation map for South Asia was inadvertently left out. The map labeled "Total Precipitation" was actually the May percent of normal map. The map above is the correct monthly precipitation map for South Asia.



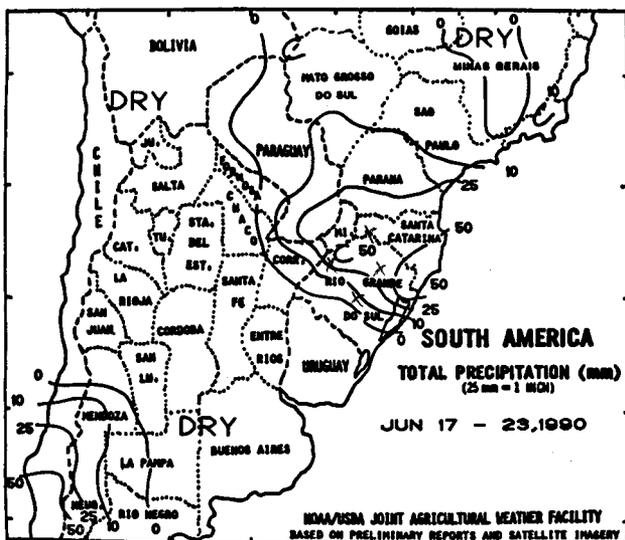
EASTERN ASIA ... Moderate to heavy rain (50-100mm or more) covered large areas of western and central China, greatly increasing moisture reserves for spring planted crops but causing some flooding. Heavy rain (100-187mm) in the western Yangtze Valley from south-central Sichuan to western Hubei caused some flooding in the immediate area and maintained flood conditions in the middle Yangtze Valley, despite generally drier weather over Hunan and Jiangxi. Further north, the unseasonably heavy rain (50-123mm) from southern Shaangxi to Shangdong halted late winter wheat harvests and possibly caused some local lodging. Rainfall elsewhere over the south averaged less than 50mm until week's end, when Typhoon Ofelia brought inundating rains (100-300mm or more) to Taiwan and coastal areas of Zhejiang. Sustained winds were 90 knots when the storm hit Taiwan. Moderate to heavy rain (25-50mm or more) continued to improve moisture reserves for spring crops in Manchuria, but excessive rains (100-200mm or more) caused local flooding over the Korean Peninsula.



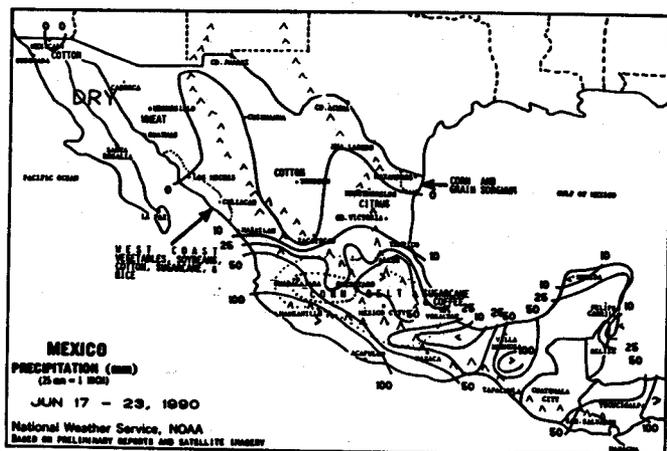
SOUTHEAST ASIA ... Typhoon Ofelia, tracking northward along the eastern coast of the Philippines, brought widespread, locally inundating rains (100-200mm or more, with local accumulations along the western coast of Luzon exceeding 300mm) to the northern and central islands. Although the rainfall continued to rebuild moisture reserves, flooding likely caused local damage or washout of newly planted main season grains. Sustained winds from the storm as it passed Luzon reached 70kts, likely causing some coastal wind damage. In Thailand, rainfall continued to be below normal over all but easternmost rainfed corn and rice areas. Daily high temperatures ranged from 32 to 38 degrees C, maintaining seasonably high moisture demands on vegetative grains. A return to seasonable rainfall is critical in upcoming weeks as main season corn and rice enters the reproductive phase.



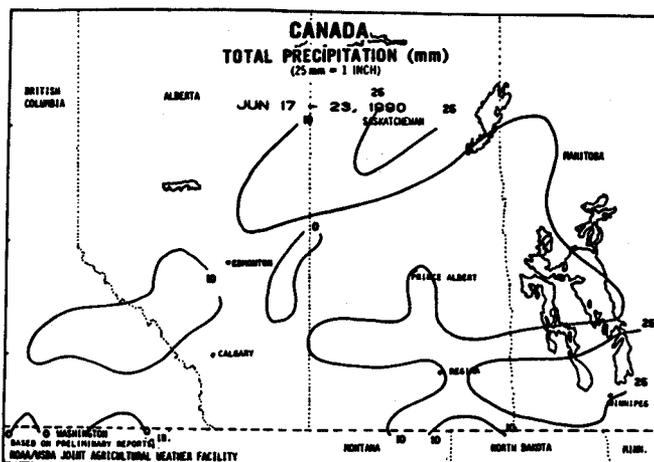
AUSTRALIA ... Scattered, light rain (5mm or less) lingered early in the week over western and southeastern winter wheat areas. Mostly dry and cooler weather dominated the remainder of the week with local freezing temperatures reported in fringe crop areas of Victoria and New South Wales. While the dry weather allowed planting to progress following last week's beneficial showers, the cooler-than-normal weather slowed germination. Mostly dry weather continued over northeastern Queensland, favoring upcoming sugarcane harvests.



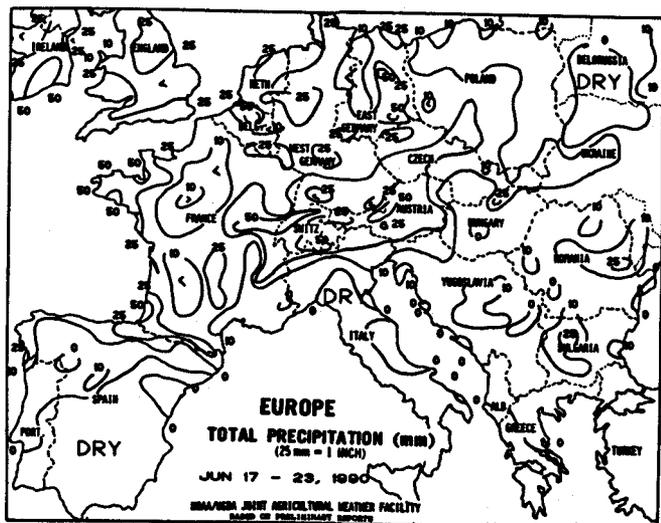
SOUTH AMERICA ... In Brazil, dry weather covered primary citrus and coffee areas in Sao Paulo and Minas Gerais, helping harvests. Early-week dry weather in wheat areas of Rio Grande do Sul, Santa Catarina, and southern Parana was followed by wet weather that began in the south on June 20 before spreading northward during the week. Precipitation, ranging from 25 to 78mm in these areas, continued to maintain wet field conditions. Drier weather would be more beneficial for wheat development. In Argentina, dry weather in southern Cordoba, southern Santa Fe, eastern La Pampa and Buenos Aires helped late summer crop harvesting and wheat planting. Rain, however, is needed for wheat establishment.



MEXICO ... Tropical Storm Douglas tracked along the southwest coast around Acapulco before moving gradually toward the northwest during the week. Douglas produced heavy rain (100-186mm) and local flooding in a narrow band that stretched northwestward along the coast from Acapulco to just south of Guadalajara. Beneficial rainfall from the storm spread eastward covering much of Mexico's corn belt, where total amounts ranged from 24 to 84mm. Douglas dissipated before reaching the west coast vegetable areas further north. As a result, the heat wave continued over northwestern Mexico, with maximum temperatures ranging from 36-43 degrees C on several days. Satellite imagery indicated the potential for local showers in the northwestern mountain watersheds, but no precipitation was reported at the surface reporting stations.



CANADA ... Widespread, light to moderate rain (5-25mm or more) over most of Saskatchewan maintained favorable conditions for emerging and established grains and oilseeds. However, heavier rain (25-42mm) prevented replanting in Manitoba, where recent excessive rain and flooding caused some washout. Rainfall over Alberta's crop regions was minimal. Temperatures across the Prairies were near to above normal, favoring vegetative growth.



EUROPE ... Highly beneficial precipitation (10-25mm with local amounts in excess of 25mm) covered crop areas in England and France, bringing temporary relief from dryness. Since early March, precipitation in England and France has been about 50 percent of normal. This week's rain improved moisture conditions for spring grains, immature wheat, and summer crops (such as corn, sugarbeets, and sunflowers). Wet weather continued to benefit crops in West Germany, East Germany, Austria, and Czechoslovakia. In Romania, minimal rain continued May's below-normal precipitation pattern, and crops had to rely on limited moisture reserves to meet increasing moisture requirements. Timely rain will be needed in upcoming weeks as summer crops advance through reproduction. In southern Europe, dry weather helped wheat harvesting.

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(Continued from front cover)
end, the system spread rain over the **eastern third of the country** as torrential rains caused flooding in parts of the **upper Great Lakes, northern Florida, and New England**. Excessive heat prevailed across the **southern tier of States** throughout the week as temperatures soared into the hundreds. On Sunday, June 25, **Lubbock, TX**, recorded their alltime high temperature of 110° F.

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