

National Weather Data for Selected Cities

Weather Data for the Week Ending JUNE 9, 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		
AL BIRMINGHAM	88	64	94	54	76	1	.4	-.5	.4	.4	34	26.9	99	93	49	4	0	1	0		
MOBILE	90	72	92	70	81	2	1.1	-.1	1.0	1.7	122	40.4	144	96	52	4	0	2	1		
MONTGOMERY	91	68	95	62	79	2	.4	-.4	.4	.5	49	38.6	162	96	48	4	0	2	0		
AK ANCHORAGE	68	52	74	50	60	8	.7	-.2	.7	.1	25	4.4	120	84	53	0	0	1	0		
BARROW	34	27	38	23	31	1	.1	.0	.1	.0	29	.5	50	100	86	0	7	1	0		
FAIRBANKS	72	50	81	43	61	4	.4	.5	.9	.9	272	2.7	106	88	35	0	0	4	1		
JUNEAU	58	49	65	47	53	2	.2	.6	.6	.3	29	19.9	111	94	63	0	0	2	0		
KODIAK	65	46	71	41	55	8	.1	-.1	.0	.2	13	26.5	106	94	58	0	0	0	0		
NOME	56	39	59	33	47	4	.1	-.1	.1	.1	38	5.3	165	93	54	0	0	1	0		
AZ PHOENIX	108	79	113	74	93	4	.4	.0	.0	.0	200	2.2	89	28	11	7	0	1	0		
PRESCOTT	90	54	95	48	72	9	.8	.0	.0	.0	50	4.7	77	38	11	5	0	1	0		
TUCSON	106	70	112	63	88	7	.6	.6	.4	.6	2.7	108	36	14	7	0	2	0			
YUMA	107	78	114	72	93	8	.0	.0	.0	.0	.5	57	32	13	7	0	0	0	0		
AR FORT SMITH	91	66	96	53	79	3	.3	-.9	.3	.3	21	37.9	206	93	43	5	0	0	0		
LITTLE ROCK	88	68	95	59	78	1	.1	-.9	.1	.1	8	35.4	146	88	54	4	0	0	0		
CA BAKERSFIELD	91	63	96	58	77	1	.1	.0	.1	.1	0	2.6	69	71	27	6	0	0	0		
BUREKA	65	53	67	49	59	5	.3	.1	.2	.3	128	20.5	94	93	63	0	0	2	0		
FRESNO	92	63	97	59	77	4	.4	.0	.0	.0	7.4	106	73	25	5	0	0	0	0		
LOS ANGELES	75	62	81	59	68	4	.0	.0	.0	.0	5.1	61	87	59	0	0	0	0	0		
REDDING	90	57	97	52	74	-1	.4	-.2	.0	.0	10	19.0	79	80	21	3	0	1	0		
SACRAMENTO	91	57	100	53	74	4	.4	.0	.4	.4	0	11.5	109	86	23	4	0	0	0		
SAN DIEGO	76	63	82	61	70	5	.4	.4	.4	.4	0	5.5	85	91	59	0	0	1	0		
SAN FRANCISCO	73	54	87	52	64	4	.4	.0	.0	.0	7.9	64	91	49	0	0	0	0	0		
CO DENVER	86	54	93	46	70	6	.0	-.4	.0	.0	6.9	98	72	24	1	0	0	0	0		
GRAND JUNCTION	93	57	97	47	75	6	.0	-.1	.0	.0	13	3.0	86	32	10	6	0	0	0		
PUEBLO	90	54	97	45	72	4	.1	-.2	.1	.1	15	6.4	162	79	25	6	0	1	0		
CT BRIDGEPORT	74	57	83	48	65	0	.4	-.2	.3	.4	51	20.1	111	89	47	0	0	5	0		
HARTFORD	77	53	82	43	65	-1	1.9	1.1	1.8	1.9	181	22.7	118	94	49	0	0	3	1		
DC WASHINGTON	83	63	93	50	73	3	2.3	1.5	2.2	2.3	229	18.4	114	92	51	1	0	2	1		
FL APALACHICOLA	90	73	92	70	82	3	.5	-.5	.5	.5	39	13.7	74	95	56	5	0	1	0		
DAYTONA BEACH	92	71	95	70	81	3	1.0	-.4	.8	1.0	58	12.9	81	96	57	6	0	4	1		
JACKSONVILLE	92	70	96	67	81	2	.9	-.4	.5	.9	57	9.9	52	95	49	7	0	6	0		
KEY WEST	88	79	90	75	84	2	.6	-.6	.6	.6	42	9.4	83	83	64	1	0	3	1		
MIAMI	90	77	92	75	83	3	.6	-.6	.3	.6	23	19.1	104	86	54	4	0	3	0		
ORLANDO	93	72	95	71	82	2	2.7	1.3	1.4	3.4	187	12.0	73	94	49	7	0	5	2		
TALLAHASSEE	92	70	96	67	81	3	.7	-.7	.5	1.2	68	20.3	78	99	52	5	0	2	1		
TAMPA	92	73	94	69	82	2	1.1	-.1	1.1	2.0	150	12.1	80	93	51	7	0	1	1		
WEST PALM BEACH	90	76	94	74	83	3	1.0	-.9	1.0	1.0	43	15.1	77	91	61	3	0	2	1		
GA ATLANTA	90	68	94	57	79	4	.7	-.8	.7	.3	3	34.6	141	92	45	4	0	0	0		
AUGUSTA	93	66	98	60	80	4	.3	-.6	.2	.3	25	10.7	51	94	41	6	0	2	0		
MACON	93	68	97	60	81	3	.2	-.6	.2	.7	65	17.7	79	93	41	5	0	3	0		
SAVANNAH	92	71	96	69	82	4	.4	-.9	.3	.5	34	15.1	78	92	45	5	0	2	0		
HI HILO	83	68	84	67	76	1	.9	-.6	.4	.9	49	68.3	112	93	60	0	0	6	0		
HONOLULU	87	73	89	71	80	2	.7	-.1	.7	.0	0	9.9	77	74	45	0	0	0	0		
KAHULUI	86	71	88	71	78	2	.1	.0	.1	.1	143	14.1	124	91	56	0	0	2	0		
LIHUE	82	73	83	72	78	1	.1	-.4	.1	.1	2	18.8	89	82	66	0	0	0	0		
ID BOISE	79	52	90	43	65	3	.1	-.2	.1	.1	33	8.7	137	77	24	1	0	1	0		
LEWISTON	72	54	78	50	63	0	.3	.0	.2	.5	98	6.7	106	76	41	0	0	4	0		
POCATELLO	77	44	91	38	60	1	.7	-.3	.7	.8	6	5.9	106	83	26	1	0	0	0		
IL CHICAGO	73	53	81	42	63	-3	.7	-.3	.3	.8	66	16.8	123	86	40	0	0	3	0		
MOLINE	75	53	82	48	64	-5	1.2	-.2	.8	1.3	105	22.8	153	91	40	0	0	3	1		
PEORIA	74	55	79	48	65	-4	.7	-.2	.7	.7	61	18.5	126	94	62	0	0	2	1		
QUINCY	74	57	84	48	66	-4	3.0	2.0	2.1	3.0	247	20.0	130	95	65	0	0	3	2		
ROCKFORD	73	52	80	44	62	-4	.5	-.5	.3	.6	44	14.1	98	90	44	0	0	3	0		
SPRINGFIELD	76	56	86	49	67	-4	1.5	.7	.5	1.7	161	21.6	146	90	56	0	0	5	0		
IN EVANSVILLE	81	59	92	45	70	-3	1.2	.4	1.0	1.6	150	28.7	143	91	54	2	0	3	1		
FORT WAYNE	76	54	84	42	65	-3	.7	-.1	.4	.8	77	20.9	138	93	48	0	0	2	0		
INDIANAPOLIS	76	56	87	44	66	-3	.4	-.5	.2	.8	66	19.6	115	92	52	0	0	4	0		
IA DES MOINES	74	51	80	36	62	-4	1.0	-.1	.8	1.0	93	19.4	126	91	42	0	0	3	1		
SIOUX CITY	74	54	83	46	64	-5	.4	-.6	.4	.5	36	16.4	129	91	49	0	0	2	0		
WATERLOO	77	53	88	40	65	-4	.3	-.7	.3	.4	32	12.3	121	85	34	0	0	4	1		
KS CONCORDIA	72	49	83	40	61	-6	1.2	-.2	.9	1.5	117	14.7	114	97	49	0	0	2	0		
DODGE CITY	81	59	88	44	70	-1	.8	-.2	.5	.8	63	13.1	120	89	51	0	0	2	1		
GOODLAND	84	61	90	51	73	1	.7	-.7	.7	.0	0	13.0	155	90	51	1	0	0	0		
TOPEKA	84	57	92	47	70	4	.3	-.4	.2	.4	42	8.0	121	87	36	2	0	3	0		
WICHITA	85	62	91	44	73	2	.9	-.3	.5	.9	58	13.6	107	88	47	1	0	3	0		
KY BOWLING GREEN	93	65	99	52	79	5	.6	-.3	.3	.6	53	9.4	85	85	40	4	0	3	1		
LEXINGTON	85	62	94	55	74	1	.4	-.6	.4	.4	32	21.6	91	93	52	3	0	2	0		
LOUISVILLE	78	59	87	42	69	-1	1.9	.9	.9	2.6	210	19.9	94	94	57	0	0	1	2		
LA ALEXANDRIA	80	60	91	45	70	-2	2.8	2.0	2.2	4.4	407	32.9	160	93	55	1	0	4	2		
BATON ROUGE	94	74	95	72	84	5	.1	-.8	.1	.1	8	34.1	131	77	47	6	0	3	0		
LAKE CHARLES	94	74	95	71	84	5	.4	-.3	.2	.4	43	31.8	125	95	48	6	0	3	0		
NEW ORLEANS	90	72	92	70	81	2	.1	-.9	.1	.1	9	26.8	123	97	57	2	0	2	0		
	91	73	93	71	82	3	.4	-.6	.4	.4	31	39.3	153	96	56	6	0	1	0		

Based on 1951-80 normals

Weather Data for the Week Ending JUNE 9, 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		PRECIP.
													90 AND ABOVE				32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	91	71	94	64	81														
ME CARIBOU	70	48	86	37	59	3	.4	-1.5	.4	.4	37	37.1	170	96	53	5	0	1	0
PORTLAND	71	49	81	38	60	1	1.1	.4	.6	1.1	121	13.3	101	90	52	0	0	5	0
MD BALTIMORE	82	60	92	49	71	1	.5	-1.3	.2	.5	51	18.0	93	95	49	0	0	6	0
SALISBURY	83	61	92	51	72	1	.6	-1.2	.4	.6	55	17.5	100	90	47	0	0	5	0
MA BOSTON	75	56	83	49	65	2	1.1	-1.3	.7	1.1	110	20.8	113	97	51	1	1	2	1
CHATHAM	66	54	70	47	60	0	.2	-1.5	.1	.2	22	21.8	109	90	43	0	0	3	0
MI ALPENA	71	43	80	30	57	1	.9	-2	.5	.9	99	23.4	111	86	67	0	0	5	0
DETROIT	75	53	81	44	64	-2	1.1	-1.6	.1	.2	18	11.8	106	94	40	0	0	3	0
FLINT	74	50	79	38	62	-1	1.1	-1.3	.9	2.2	226	17.5	135	87	42	1	1	2	1
GRAND RAPIDS	72	49	80	38	60	-5	.6	-1.2	.5	1.1	119	12.4	105	90	41	0	0	2	1
HOUGHTON LAKE	70	49	80	38	60	-5	.6	-1.2	.6	.8	74	13.9	102	88	42	0	0	1	1
LANSING	73	48	79	37	61	-1	1.1	-1.6	.1	.2	20	10.2	95	83	43	0	0	3	1
MARQUETTE	66	42	79	31	54	-3	.5	-1.4	.5	.7	62	12.1	103	93	41	0	0	2	0
MUSKOGON	67	47	79	36	57	-6	.9	-1.1	.5	.9	78	13.1	84	92	47	0	1	1	0
SAULT ST. MARIE	65	41	78	33	53	-3	.6	-1.2	.8	1.6	219	16.6	129	88	47	0	0	4	1
MN ALEXANDRIA	70	50	81	40	60	0	.7	-1.3	.5	.9	91	12.9	107	96	53	0	0	4	0
DULUTH	69	45	81	32	57	1	1.4	-1.5	.7	.8	67	10.3	114	91	41	0	0	2	1
INT'L FALLS	70	47	79	35	58	0	1.1	-1.3	.8	2.8	279	7.7	101	94	39	1	1	5	1
MINNEAPOLIS	72	51	81	38	62	-4	.4	-1.5	.3	1.8	149	13.5	139	87	40	0	0	3	1
ROCHESTER	69	47	79	35	58	-6	1.1	-1.8	.1	.1	60	16.5	160	91	50	0	0	2	0
MS GREENWOOD	89	69	93	58	79	1	1.6	-1.9	1.6	1.7	160	28.4	104	94	52	4	0	2	0
JACKSON	91	68	95	58	80	2	.3	-1.5	.3	.3	30	34.3	130	98	51	5	0	1	0
MERIDIAN	92	66	97	59	79	2	.1	-1.7	.1	.4	41	42.9	160	97	47	5	0	2	0
MO CAPR GIRARDEAU	83	63	93	52	73	-1	.4	-1.5	.4	.9	80	30.5	143	93	49	2	0	1	0
COLUMBIA	79	57	84	43	68	-4	4.5	-3.6	2.0	4.5	375	31.1	187	95	58	2	0	0	0
KANSAS CITY	81	59	87	42	70	-3	2.4	-1.3	1.2	2.5	173	19.5	137	92	49	0	0	4	3
SAINT LOUIS	79	62	90	51	71	-2	2.2	-1.3	1.3	2.3	206	22.6	148	85	51	1	0	2	2
SPRINGFIELD	84	62	89	48	73	2	.8	-1.3	.7	.8	56	35.5	210	85	52	0	0	3	2
MT BILLINGS	76	48	86	41	62	1	1.1	-1.5	.1	.1	10	7.4	97	75	29	0	0	2	1
GLASGOW	74	46	85	38	60	-2	.3	-1.3	.2	.3	47	2.7	68	73	23	0	0	1	0
GREAT FALLS	69	42	81	37	55	-4	.7	-1.7	.1	.1	5	7.0	94	76	29	0	0	2	0
HAVRE	71	45	80	38	58	-3	.3	-1.5	.1	.1	0	3.1	61	74	30	0	0	0	0
HELENA	72	43	88	37	58	0	.1	-1.4	.1	.1	17	3.6	70	78	25	0	0	2	0
KALISPELL	64	41	78	35	53	-3	.1	-1.4	.1	.3	46	10.4	148	93	43	0	0	3	0
MILES CITY	76	50	89	45	63	0	.3	-1.3	.3	.4	47	4.6	72	75	26	0	0	2	0
MISSOULA	68	40	86	34	54	-3	.2	-1.3	.1	.3	43	7.1	115	93	40	0	0	1	0
NH GRAND ISLAND	81	53	90	42	67	-2	.2	-1.9	.1	.5	39	8.9	86	85	36	1	0	2	0
LINCOLN	81	55	88	43	68	-2	.7	-1.3	.5	.7	57	9.9	86	90	42	0	0	3	0
NORFOLK	79	51	89	38	65	-3	.1	-1.0	.1	.5	41	8.0	80	90	35	0	0	2	1
NORTH PLATTE	81	52	91	43	67	1	.1	-1.8	.1	1.2	107	8.6	103	89	36	0	0	1	0
OMAHA	76	56	84	43	66	-4	1.3	-1.3	.9	1.4	107	10.1	83	81	40	1	0	1	0
SCOTTSBLUFF	82	51	93	45	67	2	.2	-1.5	.2	.5	59	9.2	135	82	40	0	0	3	1
VALENTINE	79	51	90	44	65	0	.5	-1.3	.2	1.5	160	9.0	124	80	33	1	0	2	0
NV ELY	83	41	86	39	62	6	.7	-1.2	.2	.2	62	5.6	123	65	16	0	0	3	0
LAS VEGAS	103	72	109	62	87	7	1.1	-1.1	.1	.1	1.9	110	23	9	7	0	0	0	0
RENO	83	48	89	43	65	6	0	-1.1	0	.8	3.2	76	65	15	0	0	1	0	
WINNEMUCCA	83	44	90	38	64	3	0	-1.2	0	0	0	4.1	100	66	15	1	0	0	0
NH CONCORD	75	49	82	35	62	0	.3	-1.4	.1	.3	33	15.5	103	94	41	0	0	6	0
NJ ATLANTIC CITY	79	56	89	46	68	1	.2	-1.4	.1	.2	26	15.7	88	96	49	0	0	3	0
NM ALBUQUERQUE	94	61	96	50	78	5	.7	-1.1	.1	.1	27	3.3	149	27	7	0	0	0	0
CLOVIS	96	61	102	56	79	7	0	-1.6	0	0	0	3.7	73	61	17	6	0	1	0
ROSWELL	100	68	106	56	84	8	0	-2	0	0	0	2.4	94	46	13	7	0	0	0
NY ALBANY	75	51	81	39	63	-1	.3	-1.4	.1	.3	34	21.8	147	91	45	0	0	4	0
BINGHAMTON	69	50	79	39	60	-2	.3	-1.6	.2	.3	25	16.7	111	93	53	0	0	4	0
BUFFALO	70	53	77	43	61	-2	1.8	-1.2	1.2	1.8	226	23.2	154	99	53	0	0	3	1
NEW YORK	78	60	82	52	69	0	.5	-1.2	.3	.5	55	21.9	119	85	41	0	0	4	0
ROCHESTER	72	51	82	42	62	-2	1.0	-1.3	.3	1.0	112	17.4	132	92	50	0	0	3	0
SYRACUSE	74	51	85	41	63	-1	.8	-1.1	.6	.8	77	20.3	128	92	48	0	0	4	0
NC ASHEVILLE	82	58	87	50	70	2	.8	-1.1	.6	.8	73	25.2	127	99	54	0	0	3	1
CHARLOTTE	87	66	94	59	77	3	.8	-1.1	.6	.8	73	25.2	127	99	54	0	0	3	1
GREENSBORO	85	62	93	52	73	2	.7	-1.1	.6	.8	73	25.2	127	99	54	0	0	3	1
HATTERAS	81	67	87	53	74	2	.5	-1.1	.6	.8	73	25.2	127	99	54	0	0	3	1
NEW BERN	87	66	95	56	77	2	.5	-1.1	.6	.8	73	25.2	127	99	54	0	0	3	1
RALEIGH	81	67	87	53	74	2	.5	-1.1	.6	.8	73	25.2	127	99	54	0	0	3	1
WILMINGTON	87	63	94	53	75	3	.5	-1.1	.6	.8	73	25.2	127	99	54	0	0	3	1
ND BISMARCK	88	67	94	59	78	2	.2	-1.0	.2	.2	1	21.1	116	92	53	3	0	1	0
FARGO	73	48	88	41	60	-1	.2	-1.5	.1	.3	13	20.2	102	95	51	3	0	1	0
GRAND FORKS	72	48	84	40	60	-3	.6	-1.1	.3	1.0	116	4.1	66	89	37	0	0	2	0
WILLISTON	70	47	81	40	59	-3	.6	-1.1	.3	2.5	302	7.9	119	91	36	0	0	3	0
OH AKRON-CANTON	74	45	85	36	60	-2	.1	-1.5	.1	1.4	174	6.7	109	92	44	0	0	3	0
CINCINNATI	73	52	81	33	62	-3	2.4	-1.7	1.5	4	49	3.9	73	80	32	0	0	1	0
CLEVELAND	77	57	89	43	67	-2	1.2	-1.2	.7	2.5	259	23.3	148	98	54	0	0	4	2
COLUMBUS	74	54	83	38	64	-2	.7	-1.2	.4	2.8	237	26.6	145	90	54	0	0	3	1
	76	55	86	39	66	-2	2.5	-1.6	1.7	2.7	69	19.3	127	98	48	0	0	3	0
											229	21.5	131	97	57	0	0	4	2

Based on 1951-80 normals

Weather Data for the Week Ending JUNE 9, 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	
														90 AND ABOVE			32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	75	54	86	40	65	-4	1.0	.1	.4	1.4	121	24.5	154	92	56	0	0	4	0	
TOLEDO	76	54	82	41	65	-1	.7	-.1	.5	1.2	122	19.0	143	94	45	0	0	3	0	
YOUNGSTOWN	73	51	81	36	62	-2	1.5	.8	.8	1.6	157	17.1	108	98	51	0	0	4	0	
OK OKLAHOMA CITY	90	69	93	58	79	5	T	-1.0	T	1.0	73	22.8	163	79	44	0	0	4	2	
TULSA	90	69	93	57	79	4	T	-1.1	.1	1.3	22	24.4	144	81	46	5	5	0	0	
OR ASTORIA	61	51	66	46	56	0	2.2	1.6	.8	2.5	293	44.0	129	94	76	0	0	1	1	
BURNS	72	42	83	39	57	-1	.1	-.1	.1	.1	38	2.8	54	81	25	0	0	7	0	
MEDFORD	77	49	85	40	63	0	.1	-.1	.1	.2	65	8.3	85	88	35	0	0	1	0	
PENDLETON	70	50	80	44	60	-3	.4	.3	.3	.4	169	6.0	97	77	39	0	0	3	0	
PORTLAND	67	53	70	49	60	-1	1.5	1.1	.6	1.6	289	20.2	109	92	54	0	0	2	0	
SALEM	67	51	71	43	59	0	1.0	.6	.4	1.0	224	20.8	101	92	54	0	0	2	0	
PA ALLENTOWN	77	55	82	46	66	-1	1.4	.6	1.0	1.4	138	18.8	126	95	53	0	0	4	1	
ERIE	72	53	82	39	63	0	.5	-.4	.3	.5	42	19.0	101	94	53	0	0	4	0	
HARRISBURG	78	57	83	46	68	-1	1.3	.5	.7	3.1	277	21.3	124	88	47	0	0	3	2	
PHILADELPHIA	80	58	85	48	69	0	.6	-.2	.3	.6	57	18.0	103	95	52	0	0	4	0	
PITTSBURGH	74	53	82	36	64	-2	1.6	.8	.7	1.7	160	19.4	117	98	54	0	0	4	1	
SCRANTON	73	52	83	43	63	-2	1.1	.3	.8	1.1	110	17.3	123	92	53	0	0	5	1	
RI PROVIDENCE	77	54	81	46	66	1	.7	-.1	.5	.7	84	16.1	81	91	49	5	5	4	1	
SC CHARLESTON	91	71	96	65	81	5	.2	-1.2	.2	.2	13	16.1	108	94	44	0	0	4	0	
COLUMBIA	92	68	98	61	80	4	.9	-.1	.5	.9	73	13.5	61	91	49	5	5	2	0	
FLORENCE	91	67	97	60	79	3	T	-1.0	T	T	2	9.6	52	94	44	6	0	3	1	
GREENVILLE	88	63	96	54	76	2	.2	-.8	.2	.3	20	22.2	92	95	42	4	0	2	0	
SD ABERDEEN	72	46	82	38	59	-4	.7	0	.3	1.8	184	6.4	85	96	44	0	0	4	0	
HURON	74	48	85	39	61	-4	.1	-.7	.1	1.1	109	11.3	140	90	40	0	0	2	0	
RAPID CITY	75	49	82	44	62	0	.4	-.4	.3	.4	44	7.9	104	85	45	0	0	4	0	
SIOUX FALLS	73	48	85	37	61	-5	.1	-.7	.1	.7	58	8.6	89	88	39	0	0	4	0	
TN CHATTANOOGA	86	64	92	54	75	2	1.5	.7	1.5	1.5	151	37.5	146	95	50	3	1	1	0	
KNOXVILLE	84	62	91	51	73	0	.6	-.3	.4	.6	55	26.4	115	93	52	1	0	2	1	
MEMPHIS	87	68	95	55	78	1	.2	-.7	.1	.3	27	30.3	116	86	47	4	0	2	0	
NASHVILLE	87	64	95	53	76	2	.4	-.5	.3	.4	31	15.5	64	84	46	4	0	2	0	
TX ABILENE	95	72	100	64	84	5	T	-.6	T	T	43	16.7	176	79	34	7	0	1	0	
AMARILLO	96	65	106	50	80	8	T	-.8	T	T	0	7.4	109	66	19	6	0	0	0	
AUSTIN	94	73	98	67	84	4	1.5	.7	1.5	1.5	143	15.3	108	98	43	7	0	1	1	
BEAUMONT	90	74	92	71	82	3	.8	-.3	.8	.8	59	36.3	166	94	59	6	0	2	1	
BROWNSVILLE	94	78	94	75	86	4	T	-.7	T	T	0	6.2	80	89	52	7	0	0	0	
CORPUS CHRISTI	94	76	97	72	85	4	0	-1.0	0	0	0	12.0	116	95	52	7	0	0	0	
DEL RIO	98	77	100	73	87	5	0	-.4	0	0	0	12.0	187	67	27	7	0	0	0	
EL PASO	101	73	104	55	87	8	0	-.1	0	0	0	1.2	75	31	15	7	0	0	0	
FORT WORTH	93	73	95	68	83	4	T	-.7	T	T	0	1.2	75	31	15	7	0	0	0	
GALVESTON	89	79	90	77	84	4	0	-.8	0	0	1.6	191	30.8	203	91	46	7	0	0	
HOUSTON	95	75	96	72	85	5	0	-1.1	0	0	0	18.7	129	83	63	2	0	0	0	
LUBBOCK	101	67	107	58	84	8	T	-.7	T	T	0	22.1	114	90	41	7	0	0	0	
MIDLAND	102	72	107	64	87	8	T	-.4	T	T	0	6.0	95	64	18	7	0	0	0	
SAN ANGELO	96	71	98	64	83	4	T	-.5	T	T	0	4.6	96	71	20	7	0	0	0	
SAN ANTONIO	98	75	100	67	87	6	.1	-.7	.1	.1	8	12.3	173	79	30	7	0	0	0	
VICTORIA	95	75	99	71	85	4	T	-1.2	T	T	0	14	17.0	141	87	35	7	0	1	
WACO	96	73	99	66	84	4	.7	-.1	.7	.8	0	11.6	83	94	45	7	0	0	0	
WICHITA FALLS	94	71	98	61	82	4	0	-.8	0	0	2.7	268	26.9	224	87	42	6	0	1	
UT CEDAR CITY	88	53	91	44	71	7	T	-.1	T	T	.1	62	5.5	125	36	11	2	1	0	
SALT LAKE CITY	85	54	95	48	70	5	T	-.3	T	T	.3	85	6.2	74	70	19	2	0	0	
VT BURLINGTON	71	49	82	41	60	-2	1.1	-.3	.8	1.1	108	14.5	117	90	49	0	0	4	1	
VA NORFOLK	85	65	94	55	75	3	1.8	1.1	1.8	1.8	186	18.9	103	90	51	3	0	2	1	
RICHMOND	86	61	95	51	74	2	T	-.7	T	T	4	17.5	101	90	48	2	0	1	0	
ROANOKE	83	60	93	51	71	1	.1	-.7	.1	.1	11	18.1	105	92	51	1	0	1	0	
WA QUILLAYUTE	59	48	61	44	54	-1	2.8	2.1	1.7	3.7	370	55.4	107	99	71	0	0	7	1	
SEATTLE-TACOMA	63	50	67	46	57	-2	2.4	2.1	1.1	2.5	543	22.8	125	98	62	0	0	5	3	
SPOKANE	66	46	78	40	56	-3	.7	.4	.4	1.3	302	10.0	121	93	43	0	0	5	0	
YAKIMA	71	46	81	39	59	-4	.2	0	.1	.2	100	3.3	86	86	37	0	0	3	0	
WV BECKLEY	75	57	83	47	66	2	.8	-.1	.4	.9	79	17.7	94	94	59	0	0	4	0	
CHARLESTON	81	60	90	51	70	1	1.9	1.2	1.2	1.9	218	18.2	98	96	51	1	0	5	1	
HUNTINGTON	80	60	90	51	70	0	1.7	.9	.9	2.2	227	22.7	123	93	52	1	0	5	1	
PARKERSBURG	78	57	88	47	68	-1	1.5	.6	.8	1.5	135	20.2	119	97	56	0	0	3	2	
WI GREEN BAY	70	47	79	36	59	-4	.1	-.6	.1	1.3	136	11.1	102	91	47	0	0	2	0	
LACROSSE	71	50	82	40	61	-5	.2	-.8	.1	1.0	80	12.0	104	95	45	0	0	2	0	
MADISON	71	48	79	36	60	-5	.3	-.6	.2	.6	50	14.6	124	90	44	0	0	3	0	
MILWAUKEE	71	52	81	43	61	-1	.3	-.5	.2	.4	41	17.9	143	84	42	0	0	2	0	
WAUSAU	67	46	77	36	57	-5	.5	-.4	.5	1.3	112	11.4	98	95	46	0	0	1	1	
WY CASPER	82	43	88	34	63	3	T	-.3	T	T	.2	48	4.8	79	81	18	0	0	1	0
CHEYENNE	77	48	85	39	62	3	.2	-.3	.2	.8	122	10.5	175	81	33	0	0	2	0	
LANDER	80	48	88	39	64	5	T	-.4	T	T	7	4.0	52	52	16	0	0	1	0	
SHERIDAN	73	42	84	38	58	-1	T	-.6	T	.3	33	6.9	89	91	39	0	0	0	0	

Based on 1951-80 normals

May Weather and Crop Summary

HIGHLIGHTS: Extensive storm systems raked much of the eastern two-thirds of the Nation with severe weather and heavy rains throughout the month. The drenching rains caused widespread flooding and soggy fields which delayed planting in the Corn Belt and South Central States. During the first part of the month, continuing torrential rains produced some of the worst flooding in a century in Oklahoma, Texas, and Arkansas. Unusual late-season Pacific storms caused generally beneficial showers in the West, relieving long-term drought. Dry weather again prevailed over portions of the northern Plains and southern Atlantic Coast States. Heavy rains, however, due in part to the Atlantic Ocean's first tropical depression, did ease long-term drought conditions in southeastern Florida.

MAY 1-5: An extensive storm system brought severe weather and heavy rain to the southern Plains and the Ozark plateau. The drenching rains caused widespread flooding in Texas, Oklahoma, and Arkansas. The system rolled northeastward and brought soaking rains from the central Plains to the northern and middle Atlantic coast.

MAY 6-12: At the start of the week, dry and tranquil weather dominated much of the Nation as severe flooding from torrential rains of the previous week continued in the South Central States. The flooding in the Dallas-Fort Worth area was the worst in at least 30 years. At midweek, a storm system brought beneficially moderate to heavy rains across the middle Missouri Valley, while an upper level trough caused more drenching rain along the Central Gulf Coast States. The frontal system subsequently spread soaking rain across the Corn Belt and eastern third of the country. At week's end, another frontal system brought severe weather and more soaking rains to the central Plains, Corn Belt, and South Central States. Major flooding continued in Texas, Oklahoma, and Arkansas, while many rivers in the middle Mississippi Valley overflowed their banks.

MAY 13-19: Heavy rain, floods, and severe weather prevailed over much of the Great Plains, the Mississippi and Ohio Valleys, and the Northeast throughout the week as a series of frontal systems trekked across the eastern half of the Nation. The week started with a frontal system causing soaking rains from the central Gulf coast to the Northeast. At midweek, an extensive storm system generated tornadoes and torrential rain, which resulted in severe flooding across the lower Missouri Valley and into the Ohio Valley. At week's end, yet another storm system soaked the central and southern Plains, western Corn Belt, and middle Mississippi Valley with additional rain. Torrents of rain deluged Arkansas as Hot Springs reported on Sunday morning over 12 inches in 24 hours.

MAY 20-26: Recurrent thunderstorms battered much of the eastern two-thirds of the Nation, as one storm system traversed the country and a second system moved through the Rockies and Central United States. Heavy rains again soaked much of the Central United States from South Dakota and Iowa to the lower Mississippi Valley, the Rio Grande Valley of Texas, and the central Appalachians. Southeastern Florida also received heavy but beneficial rains that were due in part to the Atlantic Ocean's first tropical depression. The system drenched Cuba before its fringes swept across southern Florida.

MAY 27-31: Relatively dry weather allowed crop planting to progress and fields to begin drying out in the Midwest. However, the rain-soaked southern Plains and Gulf coast experienced no relief as over 8 inches fell on Texas and Louisiana. Storms spread beneficial precipitation over the Pacific Northwest, the northern Plains, and southern Florida. Unseasonable rains relieved long-term dryness but damaged crops in California.

FIELDWORK

Rain slowed fieldwork in the Corn Belt and portions of the Delta during May. The number of days suitable for fieldwork averaged 1 day or less in Missouri, Illinois, Wisconsin, Indiana, and Ohio during the third week of the month. Soil moisture was mostly surplus to adequate in the Corn Belt at the end of May. In the central and southern Great Plains, soil moisture was mostly adequate, but the northern Great Plains was dry. Near the end of May, some beneficial rains fell in the northern Great Plains but additional moisture was needed, especially in North Dakota. The Pacific Northwest received some rain at the end of May, but additional moisture was needed. Soil moisture was short to adequate in most of the West. Most of the East had adequate soil moisture, but rain was needed in Georgia, Florida, and South Carolina.

At the beginning of May, corn planting was 50 percent (%) complete, 3 percentage points behind the 5-year average. Rain and wet field conditions slowed planting progress in most of the Corn Belt and portions of the Delta during the month. During the third week of May, planting came to a near standstill in Illinois, Indiana, Missouri, and Ohio. Cool temperatures slowed emergence and growth in Nebraska and South Dakota. By May 27, corn planting was 81% complete, 13 points behind normal. Planting lagged 20 or more points behind normal in Illinois, Indiana, Kentucky, and Missouri. Planting lagged 47 points behind normal in Missouri.

As May began, cotton planting was 39% complete, 5 points behind normal. Planting lagged behind normal in portions of the Delta but was nearly complete in Arizona and California. Rain continued to slow fieldwork in the Delta, Missouri, and Tennessee. By midmonth, fields were setting bolls in the Rio Grande Valley of Texas. Cool weather slowed growth in the Plains area. By the end of May, planting was 83% complete, 7 points ahead of normal, in the major producing States. Planting still lagged behind normal in Arkansas, Missouri, and Tennessee but was near or ahead of normal elsewhere. Fields were beginning to square in Alabama and Georgia.

Early in May, soybean planting was underway in all 19 major producing States except Arkansas. Rain and wet field conditions slowed planting in the Corn Belt and portions of the Delta during the month. By May 27, planting was 26% complete, 34 points behind normal. Planting lagged 45 or more points behind normal in Illinois, Iowa, and Missouri. Planting lagged 38 points behind normal in Indiana and Nebraska.

Early in May, rain slowed sorghum planting in the central Great Plains and portions of the Delta and Corn Belt. About midmonth, fields were heading in the Rio Grande Valley, Texas. At the end of May, planting was 42% complete, 11 points behind normal in the 12 major producing States. Planting continued to lag behind normal, especially in Illinois, Missouri, and Nebraska but was near or ahead of normal in Kansas and Texas.

(Continue to p. 23)

May Weather in Historical Perspective

Temperatures for May 1990 averaged over the Nation were below the long-term mean and ranked as the 10th coldest on record (fig. 1). The national precipitation index makes this May the sixth wettest on record (fig. 2).

Regional rankings (table 1) for the nine climatically homogeneous regions show the wetness across much of the country (see the Weekly Weather and Crop Bulletin, Vol. 77, No. 18, May 8, 1990, page 10 for a map of the regions). The Central region had the wettest May on record in 1990, and the Northeast had the third wettest. The Southwest, which was the 19th driest, was the only region not ranking in or near the upper third of the distribution. Except for the cool conditions in the Northeastern States, the temperature rankings were near the middle of the historical distribution.

The year so far has been unusually warm for much of the United States. January-May mean temperatures rank 1990 as the fourth warmest such period on record (fig. 3). The January-May total of 565 tornadoes is a record and contrasts with the unusually low number of just 2 and 3 years ago (fig. 4).

Figure 1

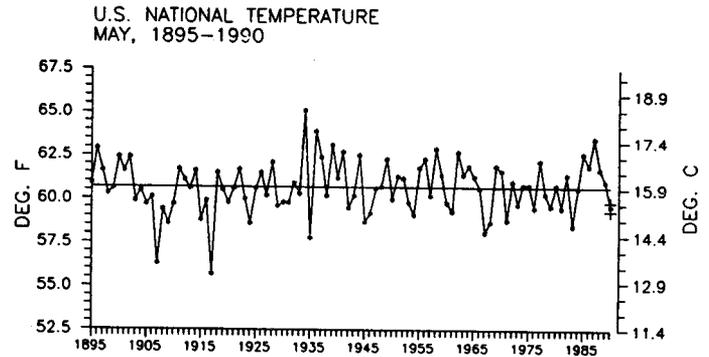


Figure 2

U.S. NATIONAL MEAN PRECIP INDEX
MAY, 1895-1990

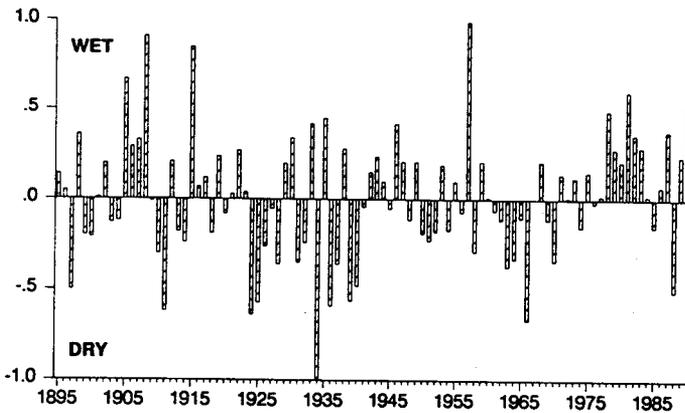


TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR MAY 1990, BASED ON THE PERIOD 1895-1990.
1 = DRIEST/COLDEST, 96 = WETTEST/HOTTEST.

REGION	PRECIPITATION	TEMPERATURE
NORTHEAST	94	16
EAST NORTH CENTRAL	70	26
CENTRAL	96	20
SOUTHEAST	63	45
WEST NORTH CENTRAL	71	34
SOUTH	77	35
SOUTHWEST	19	51
NORTHWEST	87	29
WEST	89	47

Figure 3

U.S. NATIONAL TEMPERATURE
JANUARY-MAY, 1895-1990

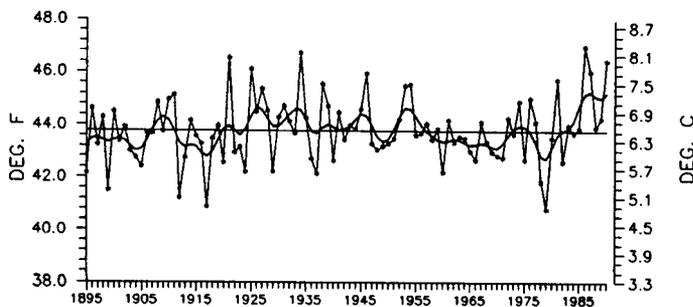
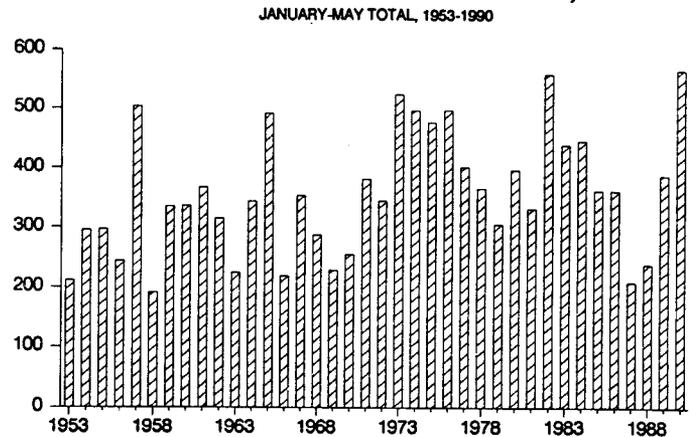
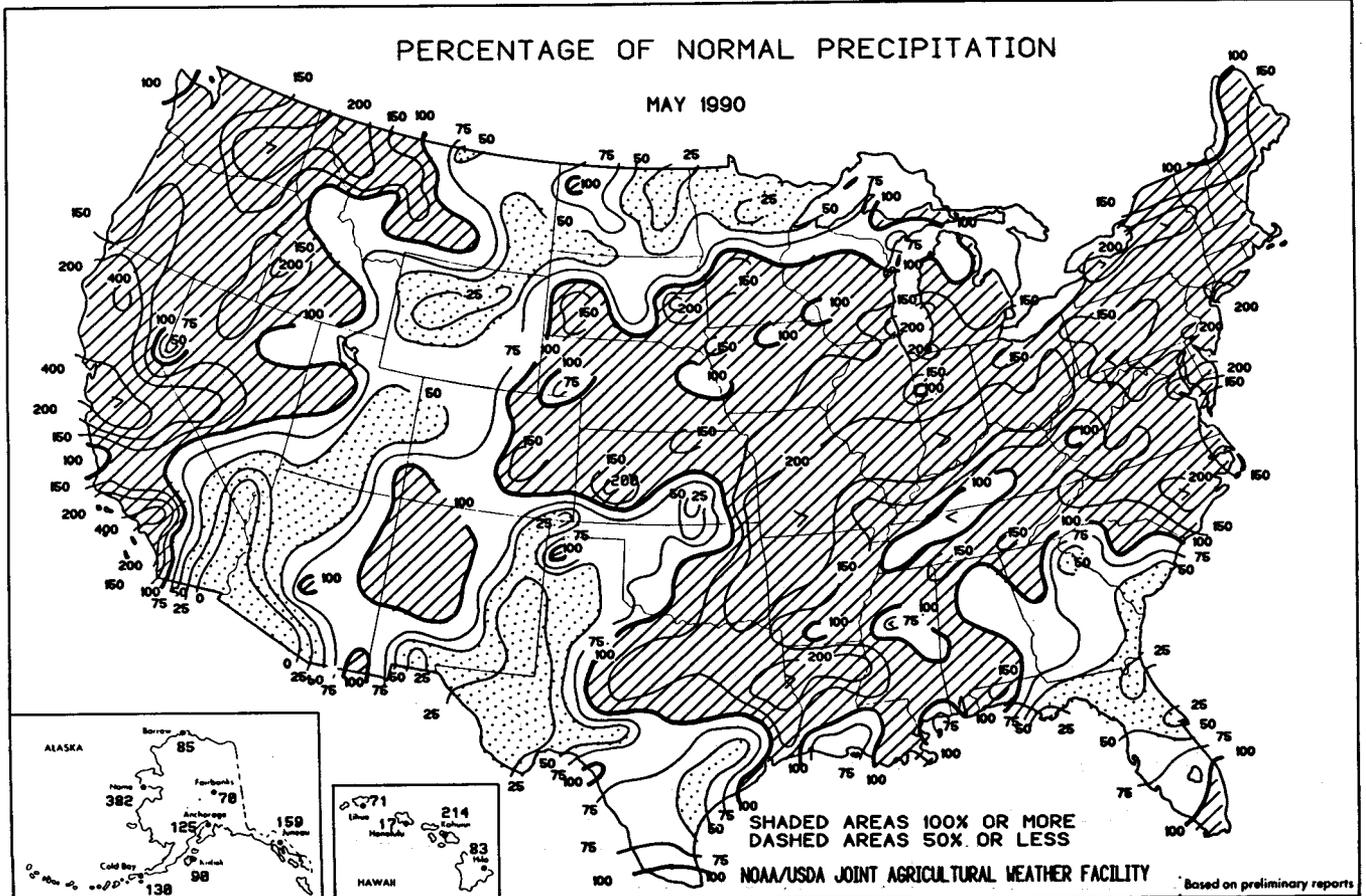
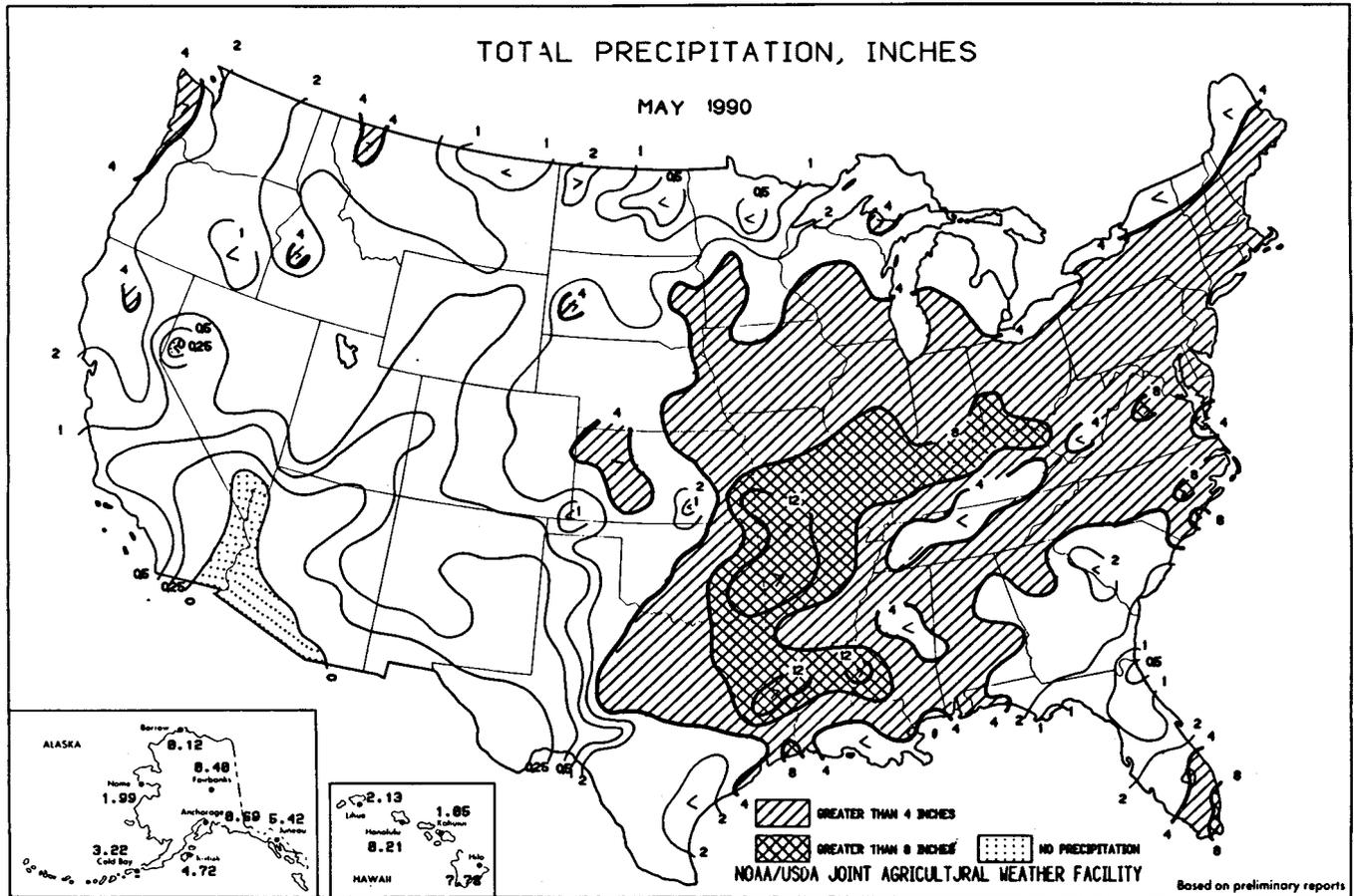
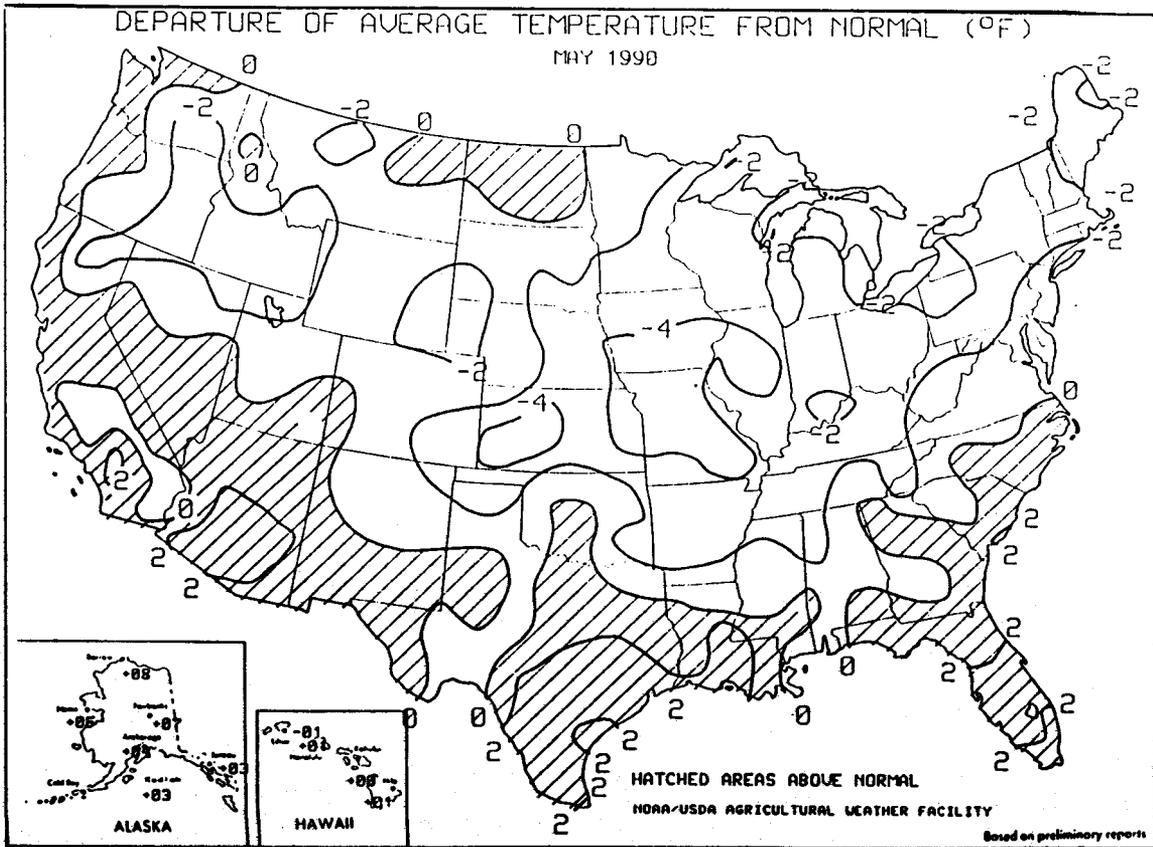
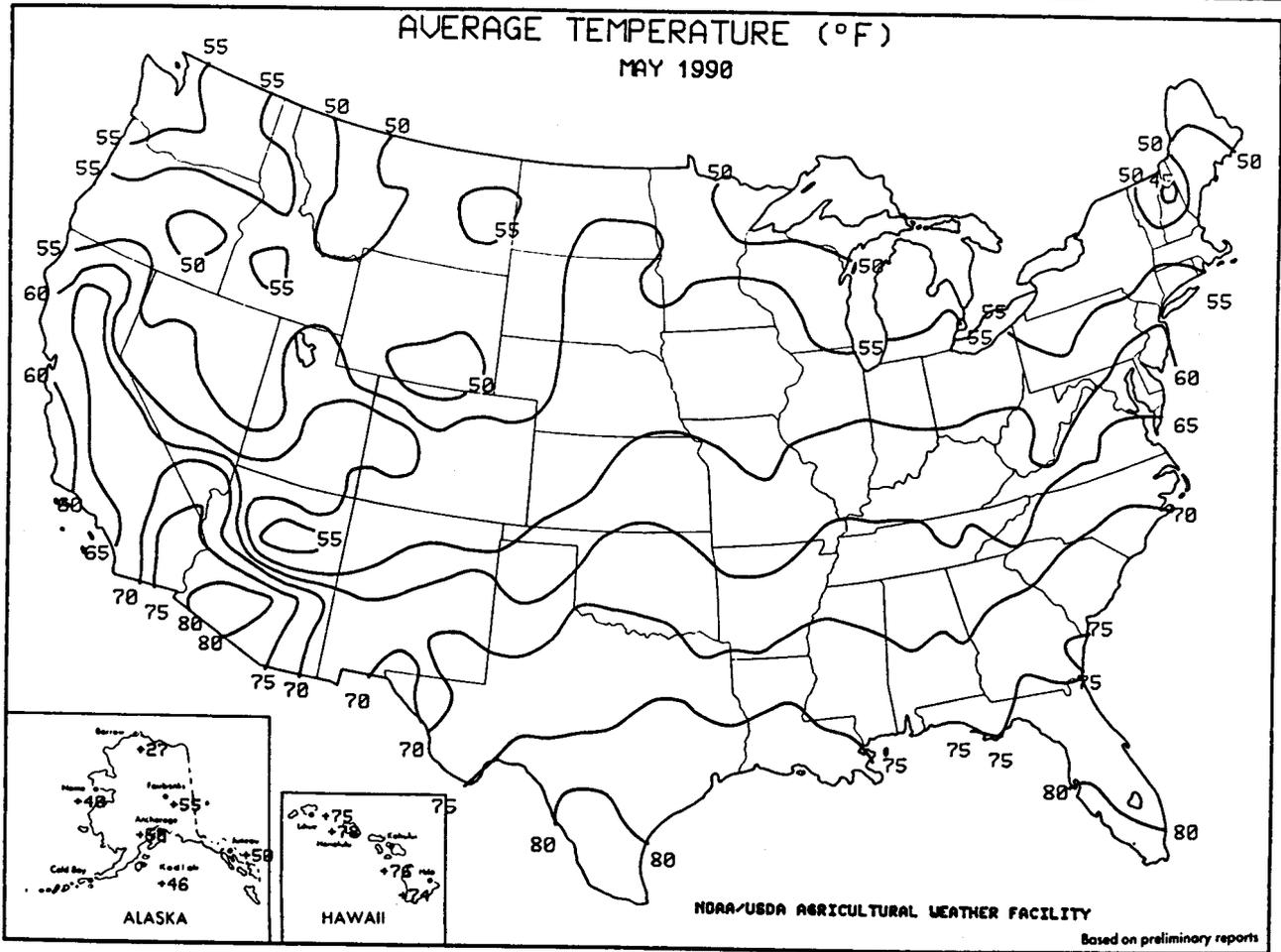


Figure 4

TOTAL NUMBER OF TORNADES, U.S.







TEMPERATURE AND PRECIPITATION SUMMARY MAY 1990

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	69	-1	4.1	-0.4	ME CARIBOU	49	-1	3.5	0.7	TOLEDO	57	-2	4.6	1.8
MOBILE	73	-1.1	6.5	1.0	PORTLAND	52	-1	5.2	2.0	YOUNGSTOWN	55	-2	4.6	1.3
MONTGOMERY	71	-1.1	4.3	0.3	MD BALTIMORE	62	-1	4.9	1.5	OK OKLAHOMA CITY	69	0	5.8	0.4
AK ANCHORAGE	50	4	0.7	0.2	SALISBURY	62	-1	6.8	3.4	TULSA	67	-2	5.2	0.1
BARROW	27	8	0.1	0.0	MA BOSTON	55	-4	6.5	3.0	OR ASTORIA	53	1	4.0	1.1
FAIRBANKS	55	7	0.4	-0.2	MI ALPENA	50	-2	2.9	0.1	BURNS	49	-3	0.8	0.0
JUNEAU	50	3	5.4	2.0	DETROIT	56	-2	3.7	1.0	MEDFORD	57	0	1.9	0.7
KODIAK	46	3	4.7	-0.5	FLINT	55	-1	3.0	0.5	FENDLETON	56	-2	1.8	0.8
NOME	40	4	2.0	1.5	GRAND RAPIDS	55	-3	4.4	1.6	PORTLAND	57	0	2.4	0.3
AZ PHOENIX	81	4	0.2	0.0	Houghton Lake	52	-2	4.2	1.6	SALEM	56	1	1.9	0.0
FRESNCO	59	2	0.3	-0.2	LANING	54	-3	3.4	1.1	PA ALLENTOWN	59	-1	6.7	3.1
TUCSON	75	2	T	-0.1	MARQUETTE	47	-3	4.3	0.3	ERIE	55	0	5.7	2.6
AR FORT SMITH	68	-2	13.5	8.7	MUSKOGON	54	-2	6.5	4.0	PHILADELPHIA	61	-2	6.1	2.9
LITTLE ROCK	67	-4	9.7	4.4	SAULT ST. MARIE	49	-1	3.3	0.4	PITTSBURGH	58	-2	6.2	2.7
CA BAKERSFIELD	69	-1	0.3	0.1	MN ALEXANDRIA	54	-1	4.7	1.8	SCRANTON	56	-3	5.3	2.2
EUREKA	54	2	3.7	2.2	DULUTH	48	-2	1.5	-1.7	RI PROVIDENCE	56	-2	5.7	2.2
FRESNO	68	0	1.7	1.4	INT'L FALLS	50	-1	1.0	-1.4	SC CHARLESTON	74	2	1.9	-2.5
LOS ANGELES	63	0	0.8	0.7	MINNEAPOLIS	56	-2	3.4	0.2	COLUMBIA	72	0	4.0	0.2
REDDING	66	-3	6.6	5.3	ROCHESTER	54	-3	4.5	1.1	FLORENCE	72	1	2.9	-0.4
SACRAMENTO	66	1	2.1	1.8	MS GREENWOOD	71	-2	3.6	-1.2	GREENVILLE	67	-2	2.7	-1.2
SAN DIEGO	64	1	0.5	0.4	JACKSON	72	-1	6.4	1.4	SD HURON	57	0	6.3	3.6
SAN FRANCISCO	59	1	1.6	1.3	MERIDIAN	72	0	3.8	-0.4	RAPID CITY	53	-2	4.9	2.3
CO DENVER	57	-1	1.5	-0.9	MO CAPE GIRARDEAU	65	-1	8.7	4.0	SIOUX FALLS	56	-2	4.1	0.9
GRAND JUNCTION	61	0	0.1	-0.7	COLUMBIA	60	-5	10.6	6.1	TN CHATTANOOGA	67	0	6.5	2.5
CT BRIDGEPORT	57	-1	6.9	3.5	KANSAS CITY	60	-6	7.4	3.0	KNOXVILLE	66	-2	4.7	1.0
HARTFORD	57	-3	6.4	3.0	SAINT LOUIS	64	-2	9.6	6.1	MEMPHIS	68	-2	4.5	-0.6
DC WASHINGTON	64	-2	5.2	1.7	SPRINGFIELD	62	-3	13.4	9.1	NASHVILLE	66	-2	2.8	-1.7
FL APALACHICOLA	75	0	0.5	-2.4	MT BILLINGS	54	-1	2.8	0.4	TX ABILENE	72	2	5.1	1.8
DAYTONA BEACH	77	2	1.5	-1.9	GLASGOW	56	1	0.9	-0.6	AMARILLO	64	-2	0.9	-1.9
JACKSONVILLE	75	0	0.2	-4.0	GREAT FALLS	50	-3	4.0	1.5	AUSTIN	78	3	3.7	-0.5
KEY WEST	82	1	5.5	2.2	HAVRE	53	-2	1.7	0.0	BEAUMONT	77	2	8.6	3.7
MIAMI	80	2	7.8	1.3	HELENA	51	-1	1.5	-0.2	BROWNSVILLE	81	2	2.7	0.6
ORLANDO	79	2	0.6	-3.2	KALISPELL	50	-1	4.8	3.0	CORPUS CHRISTI	79	1	1.3	-2.1
TALLAHASSEE	75	1	1.9	-3.2	MILES CITY	56	-1	1.1	-1.3	DEL RIO	77	0	2.1	0.1
TAMPA	80	3	1.8	-1.6	MISSOULA	51	-2	3.6	2.0	EL PASO	73	1	0.1	-0.1
WEST PALM BEACH	80	2	6.7	0.7	NE GRAND ISLAND	58	-3	4.2	0.5	FORT WORTH	73	0	7.2	2.8
GA ATLANTA	70	1	5.3	1.3	LINCOLN	60	-3	5.0	1.2	GALVESTON	78	2	4.3	0.9
AUGUSTA	71	0	1.8	-1.9	NORFOLK	57	-3	3.3	-0.4	HOUSTON	78	3	2.2	-2.6
MACON	72	-1	2.3	-1.5	NORTH PLATTE	57	-2	3.7	0.3	LUBBOCK	70	1	1.2	-1.4
SAVANNAH	74	1	2.1	-2.6	OMAHA	59	-4	4.0	-0.3	MIDLAND	73	1	0.4	-1.7
HI HILO	74	1	8.2	-1.2	SCOTTSBLUFF	55	-3	2.9	0.3	SAN ANGELO	73	-1	4.0	1.5
HONOLULU	78	1	0.3	-0.9	VALENTINE	56	-2	4.4	1.6	SAN ANTONIO	79	4	3.3	-0.4
KAHULUI	76	0	1.5	1.0	NV ELY	51	0	1.6	0.5	VICTORIA	79	2	1.2	-3.3
LIHUE	75	-1	2.3	-0.7	LAS VEGAS	75	1	0.0	-0.2	WACO	76	1	6.1	1.4
ID BOISE	56	-2	4.1	2.9	RENO	57	2	0.2	-0.5	WICHITA FALLS	72	0	5.0	0.7
LEWISTON	59	1	2.4	1.0	WINNEMUCCA	53	-2	1.2	0.4	UT CEDAR CITY	56	0	0.1	-0.7
POCATELLO	52	-2	1.4	0.2	NH CONCORD	53	-3	5.1	2.2	SALT LAKE CITY	58	-1	1.7	0.2
IL CHICAGO	56	-3	6.9	3.7	NJ ATLANTIC CITY	59	-1	5.7	2.7	VT BURLINGTON	53	-3	3.7	0.7
MOLINE	57	-4	7.7	3.5	NM ALBUQUERQUE	64	-1	0.5	0.0	VA NORFOLK	66	0	3.8	0.1
PEORIA	58	-4	6.2	2.3	CLOVIS	65	-1	0.1	-2.0	RICHMOND	66	0	6.9	3.3
QUINCY	58	-5	7.7	3.3	ROSWELL	71	2	0.1	-0.6	ROANOKE	64	-1	7.5	4.0
ROCKFORD	56	-3	5.1	1.4	NY ALBANY	55	-2	6.1	2.8	WA QUILLAYUTE	52	1	4.6	-0.6
SPRINGFIELD	60	-4	8.8	5.4	BINGHAMTON	53	-3	5.0	1.8	SEATTLE-TACOMA	55	0	2.0	0.4
IN EVANSVILLE	63	-3	11.3	7.0	BUFFALO	55	-1	6.1	3.2	SPOKANE	53	-1	3.1	1.7
FORT WAYNE	58	-2	5.6	2.1	NEW YORK	60	-2	7.6	4.2	YAKIMA	55	-2	1.1	0.7
INDIANAPOLIS	60	-3	7.6	4.0	ROCHESTER	54	-3	5.8	3.2	WV BECKLEY	59	0	3.5	0.0
SOUTH BEND	57	-2	6.9	4.1	SYRACUSE	54	-3	5.6	2.5	CHARLESTON	63	-1	4.9	1.2
IA DES MOINES	58	-4	4.4	0.4	NC ASHEVILLE	63	0	5.1	1.0	HUNTINGTON	63	-2	8.3	4.4
SIOUX CITY	58	-3	7.5	4.1	CHARLOTTE	69	1	5.0	1.4	PARKERSBURG	60	-4	7.5	4.0
WATERLOO	56	-3	5.1	0.9	GREENSBORO	66	-1	6.5	3.2	WI GREEN BAY	52	-3	4.0	0.9
KS CONCORDIA	60	-3	6.4	2.4	HATTERAS	68	1	5.8	1.7	LACROSSE	57	-3	3.7	0.1
DODGE CITY	60	-4	4.9	1.7	NEW BERN	70	0	7.3	2.9	MADISON	54	-4	5.4	2.0
GOODLAND	57	-2	4.1	1.2	RALEIGH	67	0	7.0	3.3	MILWAUKEE	53	-2	7.6	4.9
TOPEKA	60	-4	4.5	0.5	WILMINGTON	71	0	8.0	3.8	WAUSAU	53	-2	4.1	0.4
WICHITA	64	-2	1.3	-2.5	ND BISMARCK	55	0	1.7	-0.6	WY CASPER	51	-2	1.1	-1.0
KY BOWLING GREEN	64	-3	3.6	-0.5	FARGO	55	-1	1.5	-0.7	CHAYENNE	49	-3	3.4	1.0
LEXINGTON	62	-3	5.4	1.2	GRAND FORKS	54	-1	0.9	-1.1	LANDER	53	0	0.4	-2.3
LOUISVILLE	64	-2	11.6	7.4	WILLISTON	55	0	2.1	0.3	SHERIDAN	51	-2	1.9	-0.5
LA ALEXANDRIA	76	1	7.4	2.2	OH AKRON-CANTON	56	-3	7.3	3.8	PR SAN JUAN	83	3	0.1	-5.8
BATON ROUGE	77	2	3.6	-1.2	CINCINNATI	62	-2	9.4	5.6					
LAKE CHARLES	75	0	3.8	-1.8	CLEVELAND	56	-3	6.1	2.8					
NEW ORLEANS	76	1	5.9	0.8	COLUMBUS	59	-3	7.0	3.3					
SHREVEPORT	73	0	10.5	5.8	DAYTON	58	-4	8.4	4.7					

Based on 1951-80 normals

National Agricultural Summary

June 4-10, 1990

HIGHLIGHTS: Rain and wet field conditions continued to slow row crop plantings in portions of the Corn Belt and Delta. In the Corn Belt, the number of days suitable for fieldwork averaged 3-4. Soil moisture was surplus to adequate in Illinois, Missouri, Indiana, and Ohio and adequate to surplus in Minnesota, Iowa, and Nebraska. Rain was needed in Georgia and South Carolina where soil moisture was mostly short to adequate. Soil moisture was mostly adequate in the Great Plains except in North Dakota and portions of Texas which needed additional moisture. In the Pacific Northwest, soil moisture was adequate to short except in the western areas of Oregon and Washington, where drying weather was needed. Florida's citrus and vegetable producing areas received some rain but more was needed.

SMALL GRAINS: Winter wheat was mostly good to fair with 90 percent (%) of the acreage headed, 1 percentage point behind the 5-year average. Harvest was 5% complete, 3 points behind normal. Harvest was underway in 6 of the 19 major producing States. Harvest advanced 25 points in Georgia and was 78% complete, 1 point ahead of normal. In Kansas, winter wheat was good to excellent. Insect and disease problems varied across the State but were mostly light. A few fields were nearly ripe in western Kansas, but harvest had not started. Harvest continued in Oklahoma and Texas. In Texas, harvest was 16% complete, 13 points behind normal. Harvest advanced rapidly in the Blacklands and Cross Timbers and was just beginning in the High Plains. Nebraska's winter wheat was fair to good. Rain and high winds caused some lodging in eastern Nebraska. Continued wet weather was causing some disease and lodging problems in Missouri. Arkansas' winter wheat was mostly fair to poor. Winter wheat was in good to excellent condition in Montana and Idaho.

Spring wheat was good to fair with 1% of the acreage headed, 4 points behind normal. Crop condition was good in Idaho, Minnesota, and South Dakota and good to fair in North Dakota and Montana.

CORN: Corn planting was 94% complete, 5 points behind normal. Crop condition was good to fair. Planting continued to lag behind normal in Illinois, Indiana, Kentucky, and Missouri. Planting was complete in Nebraska and nearly complete in Iowa. Crop condition was good to fair in Illinois and Nebraska and fair to good in Iowa. In southeastern Nebraska, high winds caused some leaf damage.

SOYBEANS: Soybean planting was 66% complete, 16 points behind normal. Planting lagged more than 20 points behind normal in Illinois, Indiana, and Tennessee and more than 30 points behind in Arkansas, Kentucky, and Missouri. In Iowa, planting advanced 25 points and was 90% complete, 7 points behind normal. Planting lagged 14 points behind the 80% average in Ohio.

COTTON: Cotton planting was 96% complete, 6 points ahead of normal. Crop condition was good to fair with 13% of the acreage squaring, 3 points behind normal. Planting was complete or nearly complete except in Oklahoma and Texas. In Texas, planting was 94% complete, 14 points ahead of

normal. Crop condition was mostly good to fair with 12% of the acreage squaring, equal to the average. High winds caused some damage in the High Plains. Crop condition was good in California and Arizona. In Arkansas, Louisiana, and Mississippi, crop condition was fair to good. Excessive moisture and seedling disease forced some spot replanting in Arkansas.

SORGHUM: Sorghum planting was 73% complete, 2 points behind normal. Planting lagged more than 50 points behind normal in Illinois and Missouri. In Texas, dry soil conditions delayed planting in portions of the High Plains. Fields were heading in the Blacklands and central areas and turning color in the Rio Grande Valley.

OTHER FIELD CROPS: Rice seeding was 97% complete, 2 points behind normal. Crop condition was good to fair with 86% of the crop emerged, 10 points behind normal. In Arkansas, rice was fair to good with 80% of the crop emerged, 15 points behind normal. Peanuts were good to fair in Georgia and North Carolina and good to excellent in Alabama. In Texas, peanut planting was 42% complete, 3 points behind normal. Dry soil conditions slowed planting in the Cross Timbers area. Tobacco transplanting continued in Kentucky and Tennessee. North Carolina's tobacco was in good to fair condition.

FRUIT AND NUTS: Rain fell in most of Florida's citrus producing areas but more was needed. New growth was abundant and the new crop was progressing well. Peach harvest was active in the Delta and Southeast. Georgia's peach harvest was 59% complete, 22 points ahead of normal. Peach harvest continued in Texas. Valencia orange and grapefruit harvests were nearly complete in central and western Arizona. Apricot and cherry harvests continued in California. Losses were as high as 60% in some cherry orchards from last week's storms. Some apricots were sold for processing instead of for fresh produce. Continued wet, cool weather was causing some problems for fruit producers in western Oregon and Washington.

VEGETABLES: Thunderstorms and frequent rain showers prevailed over Florida's vegetable producing areas. Harvest was active in the northern areas and nearly complete in the central areas. Irish potatoes were in good condition in North Carolina. Sweetpotato planting continued in Louisiana and Mississippi. Louisiana's vegetables were in good to fair condition. Cantaloupe and honeydew melon harvests continued in the Rio Grande Valley, Texas. Watermelon harvest continued in the San Antonio-Winter Garden area. Mixed vegetable harvests were active in east Texas. In western Arizona, artichoke harvest was complete and watermelon harvest began in the central area. Artichoke supplies decreased seasonally in California. Tomato harvest began in Fresno County. Cool, wet weather caused some problems for vegetable producers in western Oregon and Washington.

PASTURES AND LIVESTOCK: Pasture condition was mostly good except in North Dakota and portions of the West, where additional moisture was needed. Pasture condition was fair to poor in North Dakota.

Crop Progress

FOR WEEK ENDING JUNE 10, 1990

	RICE % PLANTED		
	1990	1989	AVG.
AR	93	98	99
CA	99	99	99
LA	100	99	100
MS	97	97	99
TX	100	100	100
5 STATES	97	99	99
THESE 5 STATES PRODUCED 97% OF THE 1989 RICE CROP.			

	CORN % PLANTED		
	1990	1989	AVG.
CO	100	99	99
GA	100	100	100
IL	88	100	100
IN	89	89	98
IA	99	100	100
KS	100	99	99
KY	70	99	99
MI	99	100	99
MN	98	99	98
MO	77	100	99
NE	100	100	100
NC	100	100	100
OH	93	62	92
PA	88	68	89
SD	94	100	95
TX	100	100	100
WI	95	99	99
17 STATES	94	96	99
THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.			

	GRAIN SORGHUM % PLANTED		
	1990	1989	AVG.
AR	86	96	96
CO	57	58	68
IL	10	78	82
KS	60	60	60
LA	95	90	96
MS	94	87	93
MO	35	87	86
NE	90	93	93
NM	70	NA	NA
OK	55	30	55
SD	48	79	67
TX	92	83	82
12 STATES	73	NA	NA
EXCL. STATES WITH NA			
	73	75	75
THESE 12 STATES PRODUCED 98% OF THE 1989 GRAIN SORGHUM CROP.			
NA - NOT AVAILABLE.			

	RICE % EMERGED		
	1990	1989	AVG.
AR	80	94	95
CA	85	90	91
LA	97	96	98
MS	82	93	97
TX	96	100	100
5 STATES	86	94	96
THESE 5 STATES PRODUCED 97% OF THE 1989 RICE CROP.			

	SPRING WHEAT % HEADED		
	1990	1989	AVG.
ID	8	1	3
MN	0	1	8
MT	0	0	3
ND	0	0	3
SD	7	7	14
5 STATES	1	1	5
THESE 5 STATES PRODUCED 89% OF THE 1989 SPRING WHEAT CROP.			

	WINTER WHEAT % HEADED		
	1990	1989	AVG.
AR	100	100	100
CA	99	99	100
CO	90	82	90
GA	100	100	100
ID	36	23	21
IL	99	99	100
IN	100	97	99
KS	100	100	99
MI	50	75	85
MD	100	100	100
MT	9	1	21
NE	96	98	96
NC	100	100	NA
OH	96	89	95
OK	100	100	100
OR	93	76	86
SD	57	65	70
TX	100	99	100
WA	67	76	70
19 STATES	90	89	NA
EXCL. STATES WITH NA			
	90	89	91
THESE 19 STATES PRODUCED 88% OF THE 1989 WINTER WHEAT CROP.			
NA - NOT AVAILABLE.			

	WINTER WHEAT % HARVESTED		
	1990	1989	AVG.
AR	12	0	28
CA	15	15	24
CO	0	0	0
GA	78	68	77
ID	0	0	0
IL	0	0	0
IN	0	0	0
KS	0	0	0
MI	0	0	0
MD	0	0	5
MT	0	0	0
NE	0	0	0
NC	24	6	23
OH	0	0	0
OK	10	15	15
OR	0	0	0
SD	0	0	0
TX	16	24	29
WA	0	0	0
19 STATES	5	6	8
THESE 19 STATES PRODUCED 88% OF THE 1989 WINTER WHEAT CROP.			

	SOYBEANS % PLANTED		
	1990	1989	AVG.
AL	67	66	67
AR	30	52	61
GA	72	66	70
IL	66	92	95
IN	64	57	85
IA	90	100	97
KS	65	55	65
KY	20	62	58
LA	75	60	73
MI	85	80	90
MN	90	99	96
MS	41	43	59
MO	28	73	73
NE	93	96	95
NC	62	42	58
OH	66	26	80
SC	67	49	56
SD	82	97	84
TN	38	60	62
19 STATES	66	74	82
THESE 19 STATES PRODUCED 95% OF THE 1989 SOYBEANS CROP.			

**COTTON
% PLANTED**

	1990	1989	AVG.
AL	100	100	100
AZ	100	100	100
AR	99	100	100
CA	100	100	100
GA	98	95	97
LA	100	98	99
MS	99	99	100
MO	99	100	100
NM	100	100	100
NC	100	97	100
OK	70	75	60
SC	100	97	99
TN	100	100	100
TX	94	85	80

14 STATES 96 92 90

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

**COTTON
% SQUARING**

	1990	1989	AVG.
AL	14	10	16
AZ	42	91	69
AR	0	0	11
CA	10	8	13
GA	25	7	30
LA	20	12	24
MS	20	14	22
MO	0	0	0
NM	6	20	10
NC	0	0	5
OK	0	0	1
SC	7	3	14
TN	1	2	6
TX	12	10	12

14 STATES 13 12 16

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

Crop Condition

PERCENT

FOR WEEK ENDING JUNE 10, 1990

WINTER WHEAT

STATE	VP	P	F	G	EX
AR	1	33	59	7	0
CA	0	0	15	75	10
CO	1	4	21	55	19
GA	1	4	32	62	1
ID	0	2	12	52	34
IL	6	23	33	37	1
IN	5	7	23	58	7
KS	0	1	15	43	41
MI	0	5	15	45	35
MO	5	19	45	30	1
MT	1	2	15	54	28
NE	0	0	54	37	9
NC	1	1	27	66	5
OH	1	5	25	56	13
OK	0	0	4	95	1
OR	0	0	37	62	1
SD	0	3	24	64	9
TX	2	14	37	41	6
WA	0	5	32	40	23
19 STATE	1	6	24	52	17
PREV WEEK	1	4	25	53	17
PREV YEAR	18	22	34	22	4

RICE

STATE	VP	P	F	G	EX
AR	0	8	62	24	6
CA	0	0	15	75	10
LA	0	0	13	80	7
MS	0	1	72	22	5
TX	0	0	9	78	13
5 STATE	0	4	39	49	8
PREV WEEK	0	5	44	45	6
PREV YEAR	0	2	34	59	5

SPRING WHEAT

STATE	VP	P	F	G	EX
ID	0	3	20	54	23
MN	0	0	23	59	18
MT	2	5	25	53	15
ND	1	7	13	71	8
SD	0	0	20	62	18
5 STATE	1	4	18	64	13
PREV WEEK	1	2	23	61	13
PREV YEAR	0	2	21	69	8

CORN

STATE	VP	P	F	G	EX
CO	0	2	24	57	17
GA	0	9	39	41	11
IL	4	5	37	54	0
IN	2	15	61	22	0
IA	0	7	46	41	6
KS	0	1	19	62	18
KY	4	13	42	39	2
MI	2	8	30	50	10
MN	0	10	61	27	2
MO	2	23	50	25	0
NE	0	0	21	68	11
NC	0	0	8	83	9
OH	3	11	38	44	4
PA	0	7	27	49	17
SD	0	2	31	57	10
TX	1	4	22	57	16
WI	2	10	51	36	1
17 STATE	1	7	40	47	5
PREV WEEK	1	6	42	45	6
PREV YEAR	1	4	31	56	8

COTTON

STATE	VP	P	F	G	EX
AL	0	0	43	55	2
AZ	0	0	0	100	0
AR	4	5	62	25	4
CA	0	0	10	85	5
GA	0	0	38	57	5
LA	0	0	62	38	0
MS	6	6	41	38	9
MO	18	37	27	18	0
NM	0	0	35	55	10
NC	0	0	15	85	0
OK	0	0	65	30	5
SC	0	1	39	60	0
TN	5	23	44	28	0
TX	0	2	42	51	5
14 STATE	1	4	39	52	4
PREV WEEK	0	9	37	50	4
PREV YEAR	1	11	47	36	5

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 0.20 in.; 1.00 to 2.00 in. extreme southeast. Temperatures 1 to 3° above normal.

Days suitable for fieldwork 5.8. Soil moisture 26% short, 74% adequate. Hot, humid weather provided excellent conditions for small grain, hay harvest. Corn 64% silked, 61% 1989, 42% avg.; 10% fair, 56% good, 34% excellent. Sorghum 81% planted, 77% 1989, 73% avg.; 6% fair, 80% good, 14% excellent. Cotton 14% squaring, 10% 1989, 16% avg.; 43% fair, 55% good, 2% excellent. Peanuts 13% pegging, 9% 1989, 7% avg.; 81% good, 19% excellent. Soybeans 67% planted, 66% 1989, 67% avg. Winter wheat 99% turning color, 100% 1989, 99% avg.; 54% harvested, 65% 1989, 53% avg.; 1% very poor, 5% poor, 45% fair, 49% good. First hay 82% harvested, 76% 1989, 70% avg. Pastures 3% poor, 11% fair, 77% good, 9% excellent. Livestock 1% poor, 8% fair, 82% good, 9% excellent. Primary activities: Controlling weeds, insects in row crops; cutting, baling hay; planting soybeans, sorghum; combining small grains; harvesting fruit crops, early vegetables; mowing pastures; applying fungicides to control leaf spot on peanuts; monitoring fish ponds; general care of livestock, poultry.

ALASKA: Warmer than normal temperatures. Little rainfall, drying winds were depleting soil moisture. Temperatures 5 to 13° above normal; lows 5 to 14° above normal. Seasonal precipitation 1.04 in. below normal at Clearwater to 0.79 in. above normal at Palmer.

Days suitable for fieldwork 7.0. Topsoil 48% short, 51% adequate, 1% surplus. Subsoil 11% short, 80% adequate, 9% surplus. Small grain seeding wrapping up. Emergence 90% oats; 40% barley. Commercial potato 70% done. Hardy vegetable seeding, transplanting continues. Progress of fieldwork on schedule. Rate of crop growth slow to rapid depending on rainfall. Pasture grass short in northern areas due to dryness.

ARIZONA: Warming trend 3rd to 6th, record breaking highs; increased cloudiness 6th, scattered rain southwest, precipitation statewide 7th, 8th; early monsoon weather 9th; temperatures 2 to 10° above normal.

Cotton squaring 42%, 91% 1989, 69% avg.; bolls setting 7%, crop 100% good. Small grains harvested 55%, 80% 1989, 75% avg.; turning color 100%, same 1989, avg.; good. Alfalfa hay harvest mostly active; 73% good, 27% excellent. Artichoke harvest completed west; honeydew, cantaloupe, potato, grape, watermelon, mixed melon harvests continued. Grape, watermelon harvest started central; potato, dry onion harvest continued; mixed winter squash harvested; summer squash shipping continued; sweet corn harvest continued. Lettuce harvest continued east; cabbage harvested. Valencia orange, grapefruit harvest nearly complete west, central.

ARKANSAS: Warm week. Temperatures slightly above normal. Scattered thunderstorms south first of week. Extremes 48°; 98°. Rainfall none to 3.44 in.

Days suitable for fieldwork 5.0. Soil moisture 2% short, 67% adequate, 31% surplus. Main activities: Cotton, rice, soybeans, sorghum, planting; wheat harvesting; fertilizer, herbicide,

insecticide applications; cultivating row crops, cutting hay; fertilizing pastures; working cattle. Corn 98% planted, 100% 1989, 100% avg.; 2% poor, 43% fair, 50% good, 5% excellent. Oats 8% harvested, none 1989, 29% avg.; 62% fair, 38% good. Cotton 96% emerged, 97% 1989, 98% avg.; 4% very poor, 5% poor, 62% fair, 25% good, 4% excellent. Soybeans 18% emerged, 41% 1989, 48% avg.; 13% poor, 47% fair, 40% good. Sorghum 76% emerged, 90% 1989, 90% avg.; 1% very poor, 6% poor, 76% fair, 17% good. Spot replanting of cotton continued due to seedling diseases, excessive moisture. Some rice fields being fertilized, flooded. Tight soybean seed supplies for certain varieties. Test weights extremely low some wheat acreage. Hay yields slightly lower than normal. Pasture 6% poor, 74% fair, 20% good. Livestock good.

CALIFORNIA: Strong high pressure returned temperatures to above normal. Light rains were recorded along the north coast on 4th, 6th, by the weekend the southern most part of the State received rains from Hurricane Boris. Most of the State remained dry.

Open weather dried fields, normal progress field activities. Some late rice seeded. Water allotments increased by recent storms. Small grain harvest increased. Many cotton fields showing squares. Safflower blooming. Sugarbeet harvest ongoing. Seed alfalfa blooming, heavy bee activity. Seeding second crop corn, dry beans progressed. Green chopping grains, forage mixes active. Harvest alfalfa, other hay crops normal. Irrigation, fertilization, pest control activities normal. Apples treated fire blight. Apricot harvest continued, some sent processed instead of fresh market. Cherries harvested selected orchards; up to 60% loss. Grapes treated for pests; desert valley table grape harvest continued. Large set kiwifruit. Twenty two percent peaches, 12% nectarines, 9% plums packed. Pears treated codling moth. Navel orange harvest winding down. Grapefruit, Valencia orange harvests advanced; some damage valencias from last February's freeze. Almonds irrigated; heavy crop stressed branches. Artichoke supplies seasonally decreasing, variable quality. Broccoli continued heavy supply central coast, generally good quality. Cauliflower moderate supply, variable quality. Iceberg head lettuce heavy supply central coast, variable quality. Spring potato harvest continued, excellent quality. Early planted potato fields Tulalake area emerging. Harvest market tomato fields began Fresno County. Strawberry picking increasing Watsonville area. Fair to good quality indicated. Livestock good, statewide. Feed, water supplies northern counties good due to recent rains. Range, pasture conditions rest of State fair to poor, marginally sufficient water supplies slower than normal grass grow

COLORADO: Improved weather accompanied by cooler temperatures, scattered thunderstorms. Damage from severe weather was mostly limited to property with no significant crop damage. Temperatures 2 to 4° above normal.

Days suitable for fieldwork 6.3. Soil moisture 8% very short, 23% short, 69% adequate. Winter wheat 90% headed; 14% turning color with the overall condition mostly good. First cutting alfalfa 36% cut. Barley 34% headed; 4% turning

color. Oats, 28% headed; spring wheat 27% emerged. Corn, 94% emerged; sugarbeets, 51% thinned. Summer potatoes, 78% emerged; fall potatoes 16% emerged. Dry onion mostly good. Range; pasture condition was unchanged, while livestock condition was mostly good to excellent.

FLORIDA: Rainfall varied; thunderstorms scattered each day. Most of State received some rain; several 1.00 to 2.00 in. Heaviest rain 5.50 in. at Lake City. Temperatures 2 to 4° above normal; hottest readings mostly low, mid 90s, few upper 90s. Coolest temperatures mid, upper 60s north, mostly upper 60s to mid 70s elsewhere.

Soil moisture Panhandle short to adequate; Peninsula mostly short. Planting cotton complete; soybean planting slowing; tobacco harvest progressing slowly; hay harvest active. Farmers applying normal growing practices to corn, cotton, peanuts, sugarcane. Rains aided grass growth, recovery many areas. Rains variable, spotty, however; more needed to promote grass growth, raise pond, stream levels, particularly over much of Peninsula. Pastures fair to excellent central, western Peninsula; good or better. Lower southern Peninsula pastures generally good to excellent; elsewhere only poor to fair. Cattle mostly good except fair to good parts of central, northern Peninsula. Several rains most citrus areas; more needed. Abundant new growth, good progress new crop fruit. Valencia harvest slow, almost complete. Most processing plants closed. Caretakers mowing, disking cover crops, spraying, fertilizing. Summer weather prevailed over major vegetable producing areas. Thunderstorms, showers frequent. Harvest continued active northern areas; neared completion central areas. Volume loaders: Watermelons, potatoes, sweet corn, tomatoes, peppers, cucumbers, celery, eggplant. Limited supplies, carrots, radishes, snap beans available. Season complete Hastings cabbage.

GEORGIA: Hot, humid week, scattered showers, thunderstorms. Temperatures 1 to 6° above normal. Warmest highs upper 80s northeast mountains, low 90s northwest, mid to upper 90s elsewhere. Coolest lows upper 40s in the northeast mountains, mid 50s northwest, low 60s central, upper 60s south. Rain amounts varied. Many locations 0.25 in. or less local areas, mostly central, south, 1.00 to 3.00 in.

Days suitable for fieldwork 6.2. Soil moisture 15% very short, 55% short, 30% adequate. Corn 64% silked, 47% 1989, 54% avg.; 21% dough, 8% 1989, 18% avg.; condition off. Cotton condition off, some insect problems. Sorghum 3% poor, 18% fair, 77% good, 2% excellent; 85% planted, 75% 1989, 79% avg. Peanuts 26% fair, 66% good, 8% excellent; 100% planted, 99% 1989, 99% avg.; 47% blooming, 26% 1989, 34% avg.; 12% pegging, 3% 1989, 8% avg. Soybeans 7% poor, 34% fair, 56% good, 3% excellent; 72% planted, 66% 1989, 70% avg. Tobacco 2% poor, 28% fair, 67% good, 3% excellent; 2% harvested, 1% 1989, 1% avg.; Producers irrigating, insect control. Watermelons 4% poor, 43% fair, 52% good, 1% excellent; Watermelon harvest starts week to two weeks. Wheat harvest active. Apples 7% poor, 55% fair, 38% good. Peaches 13% very poor, 9% poor, 78% good; 59% harvested, 38% 1989, 37% avg. Hay fair to good. Pasture 2% poor, 31% fair, 62% good, 5% excellent. Livestock good. Main activities: Hay, wheat harvest very active. Planting soybeans, sorghum, cotton. Spraying cotton, tobacco for insects, peanuts for leaf spot.

HAWAII: Warm, dry weather continued over islands. Scattered, light showers made heavy irrigation necessary. Winds variable 5 to 30 mph with temperatures upper 60s to high 80s. Rainfall none to 0.95 in.

Days suitable for farm work 7.0. Papaya production continues seasonal decline. Sugar, pineapple harvesting continuous.

IDAHO: Temperatures below normal north, above normal elsewhere. Precipitation generally above normal north, near to slightly below normal elsewhere.

Days suitable for fieldwork 5.0. Soil moisture 2% very short, 20% short, 60% adequate, 18% surplus. Winter wheat good to excellent; headed 36%, 23% 1989 21% avg. Spring wheat good to excellent; headed 8%, 1% 1989 3% avg. Spring barley headed 8%, 1% 1989 5% avg. Potatoes planted 100%, 99% 1989 96% avg.; emerged 64%, 59% 1989 63% avg.; except some seed potatoes, east; 3% over 12 in. Oats emerged 96%, 95% 1989 94% avg. Sugarbeets thinned 78%, 69% 1989 68% avg. Alfalfa hay 1st cutting 20%, 27% 1989 29% avg. Field corn planted 94%, 100% 1989 100% avg.; emerged 85%, 90% 1989 91% avg. Dry beans planted 74%, 72% 1989 74% avg.; emerged 16%, 27% 1989 46% avg. Irrigation water supplies good to fair. Splitting cherries, cherry fruit flies, southwest. Fruit trees north set. Range, pasture 2% very poor, 8% poor, 25% fair, 51% good, 14% excellent.

ILLINOIS: Temperatures 1 to 4° below normal across State. Precipitation 0.50 to 1.75 in. across State, isolated areas 3.00 to 4.00 in.

Days suitable for fieldwork 4.00. Soil moisture 1% short, 41% adequate, 58% surplus. Corn 8 in. average height, 12 in. 1989, 19 in. avg. Corn 12 in. height most advanced, 21 in. 1989, 30 in. avg. Wheat filled 87%, 90% 1989, 95% avg.; turning yellow 40%, 54% 1989, 68% avg.; ripe 1%, 2% 1989, 17% avg. Oats 13% fair, 80% good, 7% excellent; headed 19%, 38% 1989, 64% avg.; filled 8%, 11% 1989, 31% avg. Alfalfa 4% poor, 21% fair, 66% good, 9% excellent; cutting 41%, 83% 1989, 86% avg. Red clover 38% fair, 55% good, 7% excellent. Clover hay cut 25%, 64% 1989, 68% avg. Pasture 3% fair, 66% good, 31% excellent.

INDIANA: Temperatures 2 to 5° below normal. Lows mid 50s, highs mid 70s. Precipitation 1.00 to 5.00 in.

Days suitable for fieldwork 3.4. Topsoil 1% short, 42% adequate, 57% surplus. Subsoil 49% adequate, 51% surplus. Corn 83% emerged, 83% 1989, 95% avg.; 7 in. high, 9 in. 1989, 14 in. avg. Soybeans 49% emerged, 47% 1989, 78% avg.; 3% very poor, 9% poor, 57% fair, 30% good, 1% excellent. Oats 14 in. high, 14 in. 1989, 16 in. avg. Alfalfa hay 34% cut, 60% 1989, 75% avg. Pasture 22% fair, 60% good, 18% excellent. Wheat 7% turning color, 14% 1989, 35% avg. Tobacco 41% set, 36% 1989, 59% avg. Freeze, flooding, wet conditions have caused damage to the wheat crop in southwestern areas of the State.

IOWA: Temperatures 2 to 4° below normal. Extremes 43°; 89°. Precipitation none to 2.60 in.; average 0.68 in.

Days suitable for fieldwork 3.4. Topsoil 56% adequate, 44% surplus. Subsoil 4% short, 81% adequate, 15% surplus. Winter wheat mostly good to excellent. Hay 2% poor, 11% fair, 56% good, 31% excellent. Pasture 11% fair, 49% good, 40% excellent. Oats 12% headed, 36% 1989, 49% avg.; 2% poor, 11% fair, 64% good, 23% excellent. First crop alfalfa hay 20% harvested, 64% 1989, 65% avg. Corn 90% emerged, 100% 1989, 98% avg.; 15% cultivated first time, 55% 1989, 30% avg.; replanted 3%; 7% poor, 46% fair, 41% good, 6% excellent. Soybeans 50% emerged, 96% 1989, 87% avg. Livestock mostly good to excellent.

KANSAS: Temperature slightly below normal north central, northeast districts; 4 to 5° above normal south central, northwest districts; near normal

elsewhere. Rainfall all areas except southwest; 0.26 in. northwest to 1.44 in. northeast.

Days suitable for fieldwork 4.5. Topsoil 15% short, 73% adequate, 12% surplus. Subsoil 11% short, 85% adequate, 4% surplus. Wheat mostly good to excellent; turning color 65%, 55% 1989, 65% avg. A few fields were beginning to turn ripe in western districts. Insect, disease problems light to severe across State. No major corn disease or insect problems evident. Sorghum, soybean planting good progress. Emerged stands are making good growth, adequate moisture in most areas of State to sustain growth rate for several weeks. Ranges, pastures good growth. First cutting alfalfa hay 85% complete.

KENTUCKY: Temperatures near normal. Cool early, low temperatures in 40s. Lowest temperature 41° at Williamstown on 5th. Highest recorded temperature 94° Bowling Green on 7th. Rainfall 0.25 to 0.50 in. Southwest 1.00 to 2.00 in. north, east. Excesses of 2.00 in. along Ohio River with 2.80 in. at Louisville.

Days suitable for fieldwork 3.0. Soil moisture 37% adequate, 63% surplus. Muddy fields further delayed planting. Burley 71% set, 81% 1989, 83% avg. Plants in beds becoming too large. Condition mostly good to fair. Dark tobacco 63% set. Wheat condition declined due to lodging, disease. Barley 8% harvested. Hay becoming mature due to lateness of cutting. Pasture 2% poor, 8% fair, 51% good, 39% excellent.

LOUISIANA: Temperatures 1 to 4° above normal. Extremes 59°; 98°. Rainfall none to 1.49 in.

Days suitable for fieldwork 5.1. Soil moisture 26% short, 52% adequate, 22% surplus. Spring plowing 96%, 98% 1989, 100% avg. Corn silked 63%, 38% 1989, 50% avg.; dough stage 4%, 8% 1989, 13% avg.; 14% fair, 57% good, 29% excellent. Cotton squaring 20%, 12% 1989, 24% avg.; 62% fair, 38% good. Hay first cutting 66%, 58% 1989, 72% avg. Peaches harvested 25%, 9% 1989, 18% avg.; 44% fair, 56% good. Rice planted 100%, 99% 1989, 100% avg.; water weevil infestation was a problem in southwest; emerged 97%, 96% 1989, 98% avg.; headed 0%, 1% 1989, 2% avg.; 13% fair, 80% good, 7% excellent. Sorghum planted 95%, 90% 1989, 96% avg.; emerged 92%, 88% 1989, 93% avg.; 40% fair, 60% good. Soybeans planted 75%, 60% 1989, 73% avg.; emerged 70%, 51% 1989, 60% avg.; 25% fair, 70% good, 5% excellent. Sweet potatoes planted 68%, 49% 1989, 67% avg. Sugarcane 13% very poor, 13% poor, 40% fair, 27% good, 7% excellent. Wheat harvested 89%, 69% 1989, 81% avg. Livestock 13% fair, 77% good, 10% excellent. Pasture 22% fair, 68% good, 10% excellent. Vegetable 31% fair, 63% good, 6% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.53 in. Temperature 70°, normal 69°. Extremes 42°; 88°.

Days suitable for fieldwork 5.0. Topsoil 82% adequate, 18% surplus. Subsoil 73% adequate, 27% surplus. Field corn 96% planted, 94% 1989, 97% avg. Soybeans 53% planted, 42% 1989, 53% avg. Sweet corn 89% planted, 92% 1989, 90% avg. Snap beans 69% planted, 76% 1989, 85% avg. Small grains good condition. Wheat 100% headed, 100% 1989, 100% avg.; 37% turning, 36% 1989, 50% avg. Oats 42% headed, 26% 1989, 60% avg.; 4% turning, 4% 1989, 19% avg. Barley 86% turning, 88% 1989, 93% avg. Rye 65% turning, 60% 1989, 74% avg. Alfalfa hay first cut 81% complete, 80% 1989, 19% avg. Other hay first cut 62% complete, 48% 1989, 68% avg. Strawberries 70% harvested, 67% 1989, 67% avg.

DELAWARE: Precipitation 0.19 in. Temperature 70°. Extremes 46°; 86°.

Days suitable for fieldwork 6.7. Topsoil 100% adequate. Subsoil 50% adequate, 50% surplus. Field corn 100% planted, 99% 1989, 98% avg. Soybeans 59% planted, 51% 1989, 55% avg. Sweet

corn 100% planted, 85% 1989, 94% avg. Small grains good condition. Wheat 66% turning, 64% 1989, 53% avg. Barley 99% turning, 85% 1989, 94% avg. Lima beans 40% planted, 29% 1989. Alfalfa hay first cut 76% complete, 92% 1989, 98% avg. Other hay first cut 71% complete, 63% 1989, 98% avg.

MICHIGAN: Temperatures 3 to 7° below normal. Extremes 30°; 82°. Precipitation 0.05 to 1.24 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 15% short, 80% adequate, 5% surplus. Corn 99% planted, 100% 1989, 99% avg.; 80% emerged, 95% 1989, 95% avg.; 2% very poor, 8% poor, 30% fair, 50% good, 10% excellent. Soybeans 85% planted, 80% 1989, 90% avg. Wheat 50% headed, 75% 1989, 85% avg.; 5% poor, 15% fair, 45% good, 35% excellent. Dry beans 35% planted, 15% 1989, 35% avg. Pastures 5% poor, 20% fair, 50% good, 25% excellent. Major activities: Row crop planting, harvesting hay, equipment maintenance, weed spraying, surveying pest damage in fields, wind damage to both crops, trees. Strawberry harvest beginning, asparagus picking nearing completion.

MINNESOTA: Temperatures 1 to 3° below normal. Extremes 32°; 92°. Precipitation 0.10 to 0.50 in., greatest weekly total 1.17 in.

Days suitable for fieldwork 3.8. Topsoil 6% short, 81% adequate, 13% surplus. Spring wheat 40% jointing, 47% 1989, 50% avg. Oats 47% jointing, 50% 1989, 60% avg. Barley 44% jointing, 38% 1989, 45% avg. Corn 88% emerged, 94% 1989, 94% avg.; 49% cultivated once, 54% 1989, 49% avg.; 5 in. average unextended height, 6 in. 1989, 8 in. avg. Soybeans 57% emerged, 82% 1989, 82% avg.; 12% cultivated once, 17% 1989, 22% avg.; 3 in. average unextended height, 2 in. 1989, 3 in. avg. Sweet corn 76% planted, 91% 1989, 89% avg. Alfalfa 12% first crop cut, 32% 1989, 47% avg. Field corn 10% poor, 61% fair, 27% good, 2% excellent. Soybeans 10% poor, 56% fair, 34% good. Spring wheat 23% fair, 59% good, 18% excellent.

MISSISSIPPI: Temperatures 1° above normal. Extremes 51°; 97°. Wet central, dry north, south. Rainfall 0.54 in., 0.32 in. below normal. Soil temperature 81°.

Days suitable for fieldwork 4.0, 0.6 1989, 3.9 avg. Soil moisture 71% adequate, 29% surplus. Wheat 90% mature, 85% 1989, 89% avg.; 23% harvested, 22% 1989, 43% avg.; 3% very poor, 37% poor, 38% fair, 19% good, 3% excellent. Cotton 99% planted, 99% 1989; 93% emerged, 95% 1989, 97% avg.; 20% squaring, 14% 1989; 22% avg.; 6% very poor, 6% poor, 41% fair, 38% good, 9% excellent. Corn 99% planted, 99% 1989, 100% avg.; 97% emerged, 95% 1989, 98% avg.; 13% silking, 7% 1989, 18% avg.; 1% poor, 14% fair, 74% good, 11% excellent. Rice 97% planted, 97% 1989, 99% avg.; 82% emerged, 93% 1989, 97% avg.; 1% poor, 72% fair, 22% good, 5% excellent. Soybeans 41% planted, 43% 1989, 59% avg.; 30% emerged, 30% 1989, 45% avg. Sorghum 94% planted, 87% 1989, 93% avg.; 91% emerged, 84% 1989, 89% avg.; 3% poor, 38% fair, 36% good, 23% excellent. Peanuts 72% planted, 92% 1989, 90% avg. Sweet potatoes 83% planted, 81% 1989, 81% avg. Watermelons 97% planted, 97% 1989, 96% avg. Peaches 27% harvested, 21% 1989, 17% avg.; 30% very poor, 20% poor, 46% fair, 4% good. Hay 29% harvested, 25% 1989, 33% avg. Pasture, livestock fair to good. Activities: Planting soybeans, cultivating row crops, cutting hay.

MISSOURI: Temperatures cooler than normal. Rainfall 2.00 to 3.00 in. northern two thirds with 5.00 in. or more localized areas central, north. Southern third 0.25 to 1.00 in., least amount southeast

Days suitable for fieldwork 3.1 least north central, most southeast. Topsoil 1% short, 29% adequate, 70% surplus. Corn planting 5 weeks behind 1989 and average, latest since 1978. Corn planting by district ranges 56% or less central, east central, south central, 95% northwest. Soybean planting ranges 13% central to 56% northwest. Sorghum planting 57% northwest, 52% southeast, 27% or less other districts. Rice 92% planted. Alfalfa first cutting 36%, 84% 1989, 85% avg. Other hay 16% cut, 46% 1989, 50% avg. Wet weather promoting disease in wheat, some heavier stands lodging. Pasture 12% fair, 60% good, 28% excellent.

MONTANA: Temperatures near normal most of week. Temperatures below normal west to 20° above normal southeast. Scattered showers statewide with amounts below normal. Most areas less than 0.10 in. except in west where amounts near 0.50 in.

Days suitable for fieldwork 5.5. Topsoil 31% short, 64% adequate, 5% surplus. Subsoil 42% short, 54% adequate, 4% surplus. Dryness worsens in eastern third of State. Barley 1% very poor, 4% poor, 20% fair, 54% good, 21% excellent; boot 10%, 4% 1989, 10% avg.; headed none. Oats 3% very poor, 6% poor, 26% fair, 54% good, 11% excellent; boot 9%; none headed. Spring wheat in boot 12%, 1% 1989, 9% avg. Sugarbeets 4% very poor, 6% poor, 28% fair, 56% good, 6% excellent. Pasture, range feed 5% very poor, 7% poor, 22% fair, 51% good, 15% excellent. Alfalfa hay harvested 1%. Cattle, calves moved to summer ranges 86%, 85% 1989, 88% avg. Sheep, lambs moved 86%, 86% 1989, 93% avg.

NEBRASKA: Temperatures normal east to 4° above normal west. Extremes 38°; 95°. Precipitation occurred mid week 0.20 in. west to over 1.00 in. east.

Days suitable for fieldwork 5.0. Topsoil 8% short, 74% adequate, 18% surplus. Subsoil 44% short, 56% adequate. Winter wheat 10% turning color, 23% 1989, 25% avg. Hail caused moderate heavy damage in several western, southwestern counties. Rain, high winds caused some lodging, east. Russian wheat aphid populations still high many Western counties. Heavy chinch bug populations, southeast. Corn 98% emerged, 98% 1989, 99% avg. Most yellowing fields recovering as temperatures returned to normal, development has been slowed. Hail, high winds caused damage southwest. High winds caused leaf damage, eastern third of State. Sorghum 43% fair, 54% good, 3% excellent; 55% emerged, 74% 1989, 79% avg. Soybeans 31% fair, 65% good, 4% excellent; 65% emerged, 86% 1989, 82% avg. Crusting causing concern, northern part of State. Alfalfa hay 30% fair, 58% good, 12% excellent; 40% first cutting, 68% 1989, 72% avg. Quality good, yields average, northeast. Wild hay 4% poor, 55% fair, 41% good. Stands thinner than normal, north result of last years drought. Rain fell most areas of State, thunderstorms, west, southwest produced high winds, heavy rains, hail causing moderate to heavy damage to wheat, corn, replanting of some crops: millet, sunflowers, forage grasses. Crusting caused problems for emerging crops north, northeast. Rain, cloudy weather continued to slow crop development, especially southeast. Pasture, range feed supplies 2% poor, 39% fair, 55% good, 4% excellent. Central sandhill cattle shipped to other areas, to allow pastures to recover. Livestock good condition on summer pastures. Main activities: Planting soybeans, sorghum; cutting alfalfa; cultivating corn; applying chemicals.

NEVADA: High pressure system brought above normal temperatures, gusty winds early. Weak low pressure system produced trace of rain mid week. Dry, cool remainder.

Alfalfa hay harvest slowed by scattered showers, mostly by gusty winds. After slow start, setback by early frosts, bulk of 1990 potato crop emerged. Ranges continue to improve slightly from added moisture. Cattle, sheep practically all on summer ranges.

NEW ENGLAND: Precipitation 0.50 to 1.00 in. northern Maine, 0.25 to 2.00 in. elsewhere. Temperatures upper 50s to low 60s north, low to mid 60s south.

Days suitable for fieldwork 5.0. Soil moisture north 56% adequate, 44% surplus; south 63% adequate, 37% surplus. Grazing availability 89% adequate, 11% surplus. Pasture 8% fair, 59% good, 33% excellent. Maine potatoes 98% planted, 90% 1989, 96% avg.; 15% emerged, 40% 1989, 27% avg.; good. Rhode Island potatoes 98% planted, 100% 1989, 100% avg.; 75% emerged, 90% 1989, 90% avg.; good. Connecticut River Valley potatoes 90% planted, 99% 1989, 99% avg.; 68% emerged, 87% 1989, 90% avg.; good. Maine oats 100% sown, 75% 1989, 99% avg.; good. Field corn 86% planted, 85% 1989, 92% avg.; 61% emerged, 70% 1989, 76% avg.; fair to good. Sweet corn 81% planted, 80% 1989, 84% avg.; 67% emerged, 70% 1989, 73% avg.; fair to good. Hay good. Apples average fruit set. Cranberries bud stage. Major farm activities: Corn planting, hay cutting, fertilizer application, vegetable planting.

NEW JERSEY: Temperatures slightly below normal. Extremes 40°; 90°. Rainfall 1.04 in. north, 0.94 in. central, 0.25 in. south. Heaviest 24 hour total 1.75 in. on 8th, 9th. Estimated soil moisture percent field capacity averaged 87% north, 79% central, 71% south. Four inch soil temperatures averaged 64° north, 66° central; 68° south.

Fieldwork active as soil moisture conditions permitted. Temperatures varied. High humidity over weekend poor for vegetable quality. June fruit drop continued. Hay, straw cutting advanced; weather not ideal for drying. Soybean planting active as conditions permitted. Fall sown grains coloring. Irish potatoes in bloom. Pasture growth excellent.

NEW MEXICO: Precipitation fell across State except for southeast. Temperatures above 100° many locations.

Days suitable for fieldwork 6.9. Soil moisture 92% short, 8% adequate. Cotton planted 100%, 6% squaring; 35% fair, 55% good, 10% excellent. Milo planted 70%; still too dry for planting. Wheat harvest just starting. Cattle poor to good; sheep poor to good. Pasture, range 27% very poor, 46% poor, 27% fair.

NEW YORK: Temperatures near normal. Extremes 31° Newcomb; 86° Battenville. Precipitation was below normal in the Hudson, Mohawk, St. Lawrence Valleys, across the southern tier with mainly 0.50 in. or less of rainfall. Elsewhere precipitation 0.05 to 1.50 in. near to above normal.

Days suitable for fieldwork 5.5. Soil moisture mostly adequate. Pastures 14% fair, 79% good, 7% excellent. Hay, wheat good. Corn planting 79% complete, 74% 1989, 88% avg. Oat seeding virtually finished. Dry bean planting underway. Hay harvest gaining momentum. Extreme variations in fruit set is evident in the Hudson Valley apple crop. Apples in Lake Ontario region exhibit variable fruit set. Vegetable planting continued active. Orange County strawberries being marketed. Onion crop good. First lettuce planting complete.

NORTH CAROLINA: Temperatures normal to 10° below normal across State. Precipitation none to 1.61 in.

Days suitable for fieldwork 5.8. Soil moisture 22% short, 76% adequate, 2% surplus. Pasture 15% fair, 75% good, 10% excellent. Livestock feed from pasture 82%. Hay first cutting 70%; second cutting 22%. Sorghum planted 63%; soybeans planted 62%. Sweet potatoes transplanted 86%. Burley tobacco transplanted 95%. Irish potatoes harvested 15%; wheat harvested 24%; oats harvested 28%; barley harvested 33%; peaches harvested 22%. Crop condition: Wheat 1% very poor, 1% poor, 27% fair, 66% good, 5% excellent; oats 24% fair, 71% good, 5% excellent; corn 8% fair, 83% good, 9% excellent; cotton 15% fair, 85% good; soybeans 20% fair, 76% good, 4% excellent; peanuts 17% fair, 80% good, 3% excellent; flue cured tobacco 18% fair, 74% good, 8% excellent; irish potatoes 13% fair, 77% good, 10% excellent; sweet potatoes 9% fair, 82% good, 9% excellent; peaches 12% very poor, 27% poor, 27% fair, 31% good, 3% excellent; apples 4% very poor, 19% poor, 31% fair, 42% good, 4% excellent; truck crops 17% fair, 77% good, 6% excellent; hay 16% fair, 80% good, 4% excellent. Major activities: Planting soybeans, cultivating, spraying flue cured tobacco, hay harvesting, transplanting burley tobacco, harvesting small grains, cultivating, spraying field crops, harvesting cucumbers. Other activities included: Land preparation, planting truck crops, harvesting blueberries, tending livestock, harvesting sorghum, transplanting sweet potatoes, harvesting peaches, general farm maintenance.

NORTH DAKOTA: Temperatures 1 to 3° below normal. Extremes 32° west central, 6th; 90° south central, 9th. Precipitation 0.28 in. southwest to 1.50 in. northeast.

Days suitable for fieldwork 6.0. Topsoil 15% very short, 26% short, 59% adequate. Subsoil 35% very short, 56% short, 9% adequate. Spring wheat 1% very poor, 7% poor, 13% fair, 71% good, 8% excellent; 29% jointing and beyond, 22% 1989, 48% avg. Durum wheat 2% very poor, 2% poor, 10% fair, 79% good, 7% excellent; 19% jointing and beyond, 12% 1989, 32% avg. Oats 3% very poor, 10% poor, 22% fair, 60% good, 5% excellent; 30% jointing and beyond, 19% 1989, 49% avg. Barley 1% very poor, 4% poor, 8% fair, 79% good, 8% excellent; 35% jointing and beyond, 26% 1989, 52% avg. Winter wheat 21% poor, 50% fair, 24% good, 5% excellent; 40% boot and beyond, 48% 1989, 79% avg. Late season crop development near average. Flax 81% emerged, 65% 1989, 76% avg.; corn 79%, 84% 1989, 84% avg.; soybeans 79%, 75% 1989, 83% avg.; potatoes 65%, 65% 1989, 80% avg.; sunflower 70%, 59% 1989, 64% avg.; dry edible beans 78%, 65% 1989, 82% avg. Pastures 18% very poor, 30% poor, 43% fair, 9% good; furnished 87% roughage requirements. Stockwater 9% very short, 42% short, 49% adequate.

OHIO: High temperatures low 70s to 80°; 3 to 7° subnormal. Lows mid to upper 50s; near normal. Rainfall 0.75 to 2.75 in.; 0.30 to 1.50 in. above normal.

Days suitable for fieldwork 3.2. Soil moisture 28% adequate, 72% surplus. Corn fair to good; replanting statewide due to drown outs, erosion. Slugs numerous especially in no till stands. Soybeans fair to good; some stands rotary hoed to break crust, kill weeds. Winter wheat good; some lodging, powdery mildew less of problem. Oats mostly good. Pastures 5% poor, 30% fair, 55% good, 10% excellent. Hay past prime for harvest. Farmers looking for alternatives for hay; some harvesting haylage. Strawberry harvest 20% complete.

OKLAHOMA: Temperatures 3° above normal southeast to 8° above normal northeast.

Precipitation none most districts to 0.14 in. Panhandle.

Days suitable for fieldwork 5.1. Topsoil 2% short, 85% adequate, 13% surplus. Subsoil 3% short, 97% adequate. Wheat 4% fair, 95% good, 1% excellent; 100% heading, 100% 1989, 100% avg.; 90% soft dough, 100% 1989, 95% avg.; 10% harvested, 15% 1989, 15% avg. Disease problems growing. Early reports show below normal test weights. Cotton 65% fair, 30% good, 5% excellent; 70% planted, 75% 1989, 60% avg.; 40% up to stand, 50% 1989, 35% avg.; none squaring, none 1989, 1% avg. Hail, high winds caused replantings. Sorghum 55% planted, 30% 1989, 55% avg. Soybeans 30% planted, 55% 1989, 60% avg. Peanuts 60% planted, 65% 1989, 75% avg. Corn 3% tasselling, 2% 1989, 5% avg. Alfalfa 10% second cutting, 10% 1989, 20% avg. Pastures 15% fair, 70% good, 15% excellent. No short forage supplies. Cattle good; marketings stable, prices mixed.

OREGON: Western areas temperatures near normal, above normal precipitation. Eastern sections temperatures generally below normal. Precipitation well above normal most locations. Several spots western areas received nearly entire monthly normal rainfall this week. Astoria 2.14 in. normal only 1.43 in. Portland total of 1.22 in. with June normal 1.47 in. Eugene 1.41 in. for week, normal 1.24.

Soil moisture 16% surplus, 76% adequate, 8% short. Winter wheat 37% fair, 62% good, 1% excellent; headed 93%, 90% last week, 76% 1989, 86% avg. Barley 97% planted, 98% 1989, 100% avg. Cool, wet weather a problem to most fruit, vegetable growers. Harvesting of strawberries in full swing with some fruit rot. Caneberries not pollinating well, wet weather. Several areas of western areas received nearly entire month rainfall during the week. Wet weather hampering hay harvest, moisture good for range, pastures.

PENNSYLVANIA: Wet week across state with normal temperatures. Temperature 64° at normal. Extremes 30°; 87°. Precipitation 1.10 in., 0.23 in. above normal.

Days suitable for fieldwork 5.0. Soil moisture 2% short, 89% adequate, 9% surplus. Corn height 4 in., 3 in. 1989, 7 in. avg.; 7% poor, 27% fair, 49% good, 17% excellent. Tobacco 33% transplanted, 7% 1989, 51% avg. Soybeans 53% planted, 32% 1989, 65% avg.; 2% very poor, 4% poor, 33% fair, 47% good, 14% excellent. Barley 10% boot, 1% 1989; 65% heading or headed, 74% 1989; 25% turning yellow, 25% 1989. Wheat 10% boot, 8% 1989; 86% heading or headed, 87% 1989; 4% turning yellow, 2% 1989; 2% very poor, 2% poor, 18% fair, 61% good, 17% excellent. Oats 10% boot, 13% 1989; 90% heading or headed, 87% 1989; 3% poor, 22% fair, 56% good, 19% excellent. First cutting alfalfa 40% complete, 33% 1989. First cutting clover timothy 24% complete, 13% 1989. Hay stands mostly fair to good. Feed from pastures mostly average. Peaches 50% below average, 50% average. Apples 14% below average, 86% average. Activities: Spring plowing; planting corn, soybeans, potatoes, vegetables; harvesting hay, haylage, strawberries; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

SOUTH CAROLINA: Temperatures 2 to 5° above normal. Rainfall 4.34 in. at Myrtle Beach Air Force Base to 0.33 in. at Johnston in Edgefield County.

Days suitable for fieldwork 6.0. Soil moisture 9% very short, 68% short, 23% adequate. Cotton 1% poor, 39% fair, 60% good; 7% squaring, 3% 1989, 14% avg. Soybeans 3% poor, 48% fair, 49% good; 67% planted, 49% 1989, 56% avg. Corn fair to good; 13% silked, 3% 1989, 12% avg. Sorghum fair to

good; 72% planted, 37% 1989, 58% avg. Tobacco fair to good; 13% topped, 1% 1989, 4% avg. Watermelons fair to good; 96% planted, 95% 1989, 98% avg. Cantaloupes fair to good; 89% planted, 94% 1989, 95% avg. Peaches fair; 23% harvested, 12% 1989, 11% avg. Oats fair to good; 94% ripe, 82% 1989, 83% avg.; 66% harvested, 28% 1989, 42% avg. Wheat fair to good; 97% ripe, 87% 1989, 86% avg.; 64% harvested, 47% 1989, 43% avg.

SOUTH DAKOTA: Temperatures 4° above to 7° below normal. Extremes 33°; 91°. Precipitation widespread, mostly below normal. Maximum 0.97 in. Growing season precipitation below normal north, above normal south. Range 1.73 in. below to 4.18 in. above normal. Growing degree days 100 units below to 110 units above normal.

Days suitable for fieldwork 4.2. Subsoil 4% critically short, 47% short, 49% adequate. Topsoil 11% short, 78% adequate, 11% surplus. Row crop planting progressed. Some cutworm damage. Corn condition mostly good. Spring grains less than 50% boot, less than 10% headed. Spring grains mostly good. Winter wheat, rye over 50% headed. Winter seeded grains mostly good. Range, pasture mostly good, livestock mostly good to excellent. Major activities: Spraying, row crop planting, summer fallow work, working cattle, fencing.

TENNESSEE: High pressure brought mild, dry weather to State early week. Hot, humid air returned by mid week. Scattered thunderstorms weekend, mostly west half. Temperatures slightly above normal west half, slightly below normal east half. Precipitation 0.50 in. below normal statewide.

Days suitable for fieldwork 4.8. Soil moisture 4% short, 86% adequate, 10% surplus. Corn 100% planted, 100% 1989, 100% avg.; 4% tasseling, 2% 1989, 5% avg.; 7% poor, 28% fair, 60% good, 5% excellent. Cotton 100% planted, 100% 1989, 100% avg.; 5% very poor, 23% poor, 44% fair, 28% good. Sorghum 68% planted, 90% 1989, 87% avg.; 1% very poor, 3% poor, 35% fair, 61% good. Soybeans 38% planted, 60% 1989, 62% avg. Tobacco 88% transplanted, 78% 1989, 84% avg.; 30% fair, 70% good. Wheat 94% turning color, 94% 1989, 99% avg.; 28% ripe, 18% 1989, 55% avg., 4% harvested, 2% 1989, 10% avg.; 17% poor, 59% fair, 23% good, 1% excellent. Alfalfa 98% 1st cutting, 100% 1989, 98% avg.; 12% 2nd cutting, 10% 1989, 17% avg. Wind damage to fruit trees middle. Pastures, cattle good.

TEXAS: Strong upper level area high pressure dominated State weather last week. System capped significant rainfall, allowing afternoon temperatures soar west at mid week. Reading above 110°. Hurricane Boris pushed some clouds, moisture into far western areas, helped few thunderstorms develop mountains westward. Weak tropical system Gulf of Mexico spark isolated showers extreme east, along coast. Temperatures well above normal High, Low Plains, little above normal elsewhere. Precipitation below normal all parts.

Crops: Small grain harvest progressed rapidly Blacklands, Cross Timbers, weather remained mostly open. Yields average to good. Harvest virtually over central, south; just beginning High Plains. Fields rapidly maturing under hot temperatures. Harvest should increase next couple of weeks, weather permitting. Corn fields central, south need good rain, since fields dough stage. Fields Valley entering dent stage. Some wilting Blacklands. Irrigation remained steady High Plains, fields good progress. Corn 28% silked, 52% 1989, 52% avg.; doughing 7%, 14% 1989, 22% avg. Grain sorghum planting continued Plains; some dryland planting delayed by dry soil

conditions. Irrigation necessary. Fields heading Blacklands, central. Rain benefit crop these areas. Fields Coastal Bend turning color, stressed for moisture. Fields turning color Valley. Sorghum 31% headed, 31% 1989, 37% avg. Cotton planting continued Plains. Some replanting occurred because high winds, blowing sand, hail damage. Irrigation steady. Crop progress good. Growth good Blacklands, central. Some spraying occurred. Irrigation steady Trans Pecos. Fields continued set bolls Coastal Bend, Valley. Soybean progress good Upper Coast last week. Planting continued later varieties. Rain beneficial. Early varieties setting pods. Fields blooming Blacklands, rain would help. Planting continued High Plains. Rice fields good emergence Upper Coast. Flooding fields continued. Early planted fields beginning to head. Rice none headed, 1% 1989, 3% avg. Peanut fields most areas off to good start. South fields stressed for moisture. Some planting delays occurred Cross Timbers because dry soil conditions. Irrigated fields good condition. Sugarbeets making good progress High Plains; rain would help. Other Field Crops: Peanuts planted 42%, 39% 1989, 45% avg. Soybeans planted 75%, 61% 1989, 56% avg. Sunflowers 59% planted, 41% 1989, 39% avg. Oats harvested 34%, 44% 1989, 44% avg.

Commercial Vegetables: Rio Grande Valley, light harvest cantaloupes, honeydew melons continued. Some land preparation underway. San Antonio Winter Garden, watermelon harvest continued. Onion harvest winding down in some fields. Eastern areas, harvest peas, beans, squash, onions, tomatoes continued. Producers spraying insects, diseases. High Plains, onion, potatoes, carrots good progress under steady irrigation. Trans Pecos, onion harvest increasing. Cantaloupes look good. Peaches continued yield good crop all areas. Some insect, disease damage east. Pecan spraying, irrigation continued. Crop looks good all areas.

Range and Livestock: Ranges, pastures continued decline many areas, hot, drying conditions persisted. Haying operations more active east. Producers fertilizing. Livestock good.

UTAH: Temperatures about normal in northern half, 3° above normal in southern half. Precipitation light throughout State except zero for southwest.

Days suitable for fieldwork 6.4. Soil moisture 56% short, 44% adequate. Small grains continued to progress ahead of normal. Spraying of Russian wheat aphids ongoing. Untimely rains damaged cut hay in some areas. Winter wheat 81% headed, 66% 1989, 68% avg.; turning color early areas. Spring wheat 42% headed, 22% 1989, 31% avg. Barley 40% headed, 27% 1989, 37% avg. Average corn height 8 in.; range 2 to 11 in. First cutting alfalfa hay 50% completed, 53% 1989, 46% avg. Sweet cherry crop harvest completed Washington county apricot harvest underway; crop yield light size, quality good. Range, pasture 10% very poor, 61% poor, 29% fair. Movement of cattle, sheep to summer ranges mostly completed.

VIRGINIA: Mild, generally dry. Temperatures near normal. Highs low 70s to mid 80s, warmed to upper 80s, low 90s by weekend. Rainfall light, scattered.

Days suitable for fieldwork 5.0. Topsoil 3% short, 91% adequate, 6% surplus. Corn planting nearly completed, 89% 1989, 94% avg.; 1% poor, 29% fair, 55% good, 15% excellent. Soybeans 55% planted, 46% 1989, 47% avg.; 30% fair, 70% good. Burley tobacco 71% set, 78% 1989, 61% avg. Fire tobacco 95% planted, 71% 1989, 76% avg. All tobacco 3% poor, 28% fair, 59% good, 10% excellent. Side dressing, cultivating very active. Pasture 12% fair, 49% good, 39% excellent.

Wheat harvested 10%, 0% 1989, 5% avg. Oats 6% harvested, 0% 1989, 7% avg. Barley 15% harvested, 3% 1989, 13% avg. Apple 26% very poor, 17% poor, 44% fair and 13% good. Potatoes mostly good. Peanuts 17% fair, 83% good. Alfalfa, other hay mostly good to excellent. Some cereal leaf beetle damage to wheat. Second cutting of hay, side dressing corn. Some lodging in wheat, barley due to heavy rain. Cultivating cucumbers, snap beans, spraying tomatoes, some potatoes irrigated.

WASHINGTON: Temperatures 2 to 10° below normal, east; normal to 3° below normal, west. Precipitation 0.01 to 1.72, east; 1.04 to 3.33, west.

Days suitable for fieldwork 2.7. Soil moisture 38% short, 57% adequate, 5% surplus. Range, pasture 36% short, 62% adequate, 2% surplus. Hay, other roughage 5% very short, 30% short, 64% adequate, 1% surplus. Winter wheat headed, 67%, 76% 1989, 70% avg. Spring wheat headed 42%, 24% 1989, 35% avg. Barley headed 50%, 34% 1989, 35% avg. Potatoes emerged 97%, 98% 1989, 98% avg. Alfalfa hay, 1st cutting, 45%, 54% 1989, 56% avg. Recent rain, cool weather continued. Field activity was limited, plant development slowed. Concern about disease in small grains was increasing. Damage from hail, wind, rain, frost and disease has already been reported in limited areas. Cherries harvested, loss has been reported in the forms of cracking, softening. Strawberries in western areas have been damaged by mold, mildew. Dry, sunny weather would be welcome in western areas.

WEST VIRGINIA: Temperature 66°, 1° above normal. Extremes 36°; 92°. Precipitation 0.96 in. Days suitable for fieldwork 3.5. Soil moisture 48% adequate, 52% surplus. Pasture 2% fair, 27% good, 71% excellent. Cattle, sheep good to excellent, mostly good. Feed supplies adequate to

surplus. Wheat, barley mostly good to excellent; heading virtually complete, 29 and 36% ripe. Oats good, 85% emerged. Corn mostly good; 94% planted, 89% emerged. Hay good to excellent; first cutting 10% complete. Apples, peaches poor. Tobacco good to fair; 61% set. Farm activities: Corn planting, hay harvest, tobacco setting, livestock care.

WISCONSIN: Temperature 60°, 5° below normal. Extremes 25°; 88°. Precipitation 0.20 to 0.50 in.

Days suitable for fieldwork 5.4. Soil moisture 5% short, 79% adequate, 16% surplus. Pasture 83% of normal, 78% 1989, 74% avg. General condition of crops 3% poor, 19% fair, 73% good, 5% excellent. Winter wheat 17% fair, 69% good, 14% excellent. Corn 2% very poor, 10% poor, 51% fair, 36% good, 1% excellent; planted 95%, 99% 1989, 99% avg.; height 4 in., 6 in. 1989, 8 in. avg. Soybeans planted 75%, 93% 1989, 92% avg. First cut hay 23% completed, 25% 1989, 49% avg.

WYOMING: Temperatures above normal. Precipitation below normal.

Days suitable for fieldwork 7.0. Topsoil 33% short, 67% adequate. Spring wheat emerged 100%, 100% 1989, 95% avg. Oats emerged 95%, 95% 1989, 90% avg. Barley emerged 95%, 95% 1989, 95% avg. Sugarbeets emerged 100%; thinned 35%, 40% 1989, 40% avg. Corn planted 100%, 95% 1989, 95% avg.; emerged 80%, 75% 1989, 75% avg. Potatoes planted 100%, 100% 1989; emerged 75%, 65% 1989, 65% avg. Dry beans planted 75%, 80% 1989, 70% avg.; emerged 30%, 40% 1989, 30% avg. Small grains, row crops, alfalfa mostly good. Winter wheat not jointed 25%, 40% 1989; jointed 35%, 40% 1989; boot 30%, 10% 1989; headed 10%, 10% 1989. Livestock mostly good. Livestock moved to summer ranges: Cattle, calves 70%, 70% 1989; Sheep, lambs 65%, 65% 1989. Ranges, pastures mostly good. Stockwater adequate 80% State.

(Continued from p. 9)

On May 6, rice seeding was 34% complete, 33 points behind normal. Rain slowed seeding in portions of the Delta. By May 27, seeding was 83% complete, 13 points behind normal. Crop condition was mostly good to fair with 65% of the crop emerged, 19 points behind normal. In Arkansas, seeding was 67% complete, 27 points behind normal. Arkansas' crop was in mostly fair condition.

Spring wheat seeding was 75% complete, 10 points ahead of normal on May 6. Seeding was complete in South Dakota and nearly complete in Idaho. By the third week of May, seeding was nearly complete in the five major producing States. By the end of May, crop condition was good to fair with 89% of the acreage emerged, 5 points ahead of normal. North Dakota's crop was good to fair.

Winter wheat was good to fair during May. Harvest was underway in Texas and California as the month began. Cool temperatures slowed crop development in the central Great Plains and portions of the Corn Belt during the month. Kansas' winter wheat was good to excellent. Near the end of May, rain improved winter wheat in eastern Oregon and Washington but more rain was needed. Excess moisture was causing some disease problems in Arkansas and Missouri.

International Weather and Crop Summary

HIGHLIGHTS

June 3-9, 1990

USSR ... In Western USSR, weather conditions continue mostly favorable for crop growth. In the New Lands, a brief episode of hot, dry weather in the southern Urals and Kazakhstan stresses spring grains in the early vegetative stage.

EUROPE ... Rain favors winter and summer crops in northern and central growing areas. Warm, dry weather speeds winter grain harvest in the south.

SOUTH ASIA ... Showers maintain favorable planting conditions in the east and local areas of central India.

EASTERN ASIA ... Heavy rain continues in the south. Rain favors spring planted crops in the northeast.

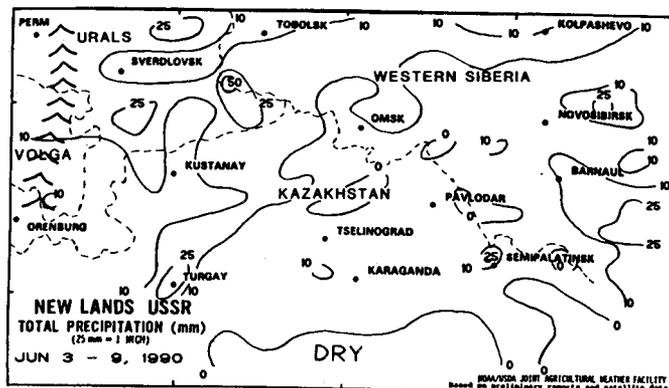
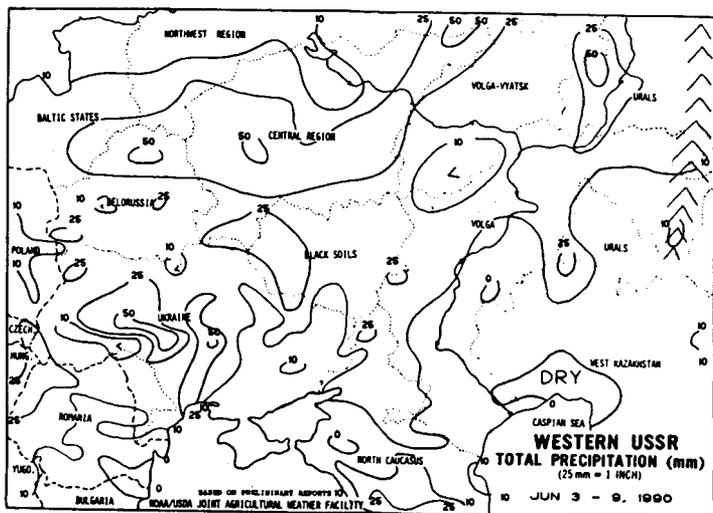
SOUTHEAST ASIA ... Rain returns to central and southeastern Thailand, benefiting vegetative grains.

SOUTH AMERICA ... Soaking rain inundates southern Brazil. Dry weather promotes fieldwork in Argentina.

AUSTRALIA ... Drier-than-normal weather and winter grain planting delays continue in sections of the south. Heavy rain returns to sections of the northeast.

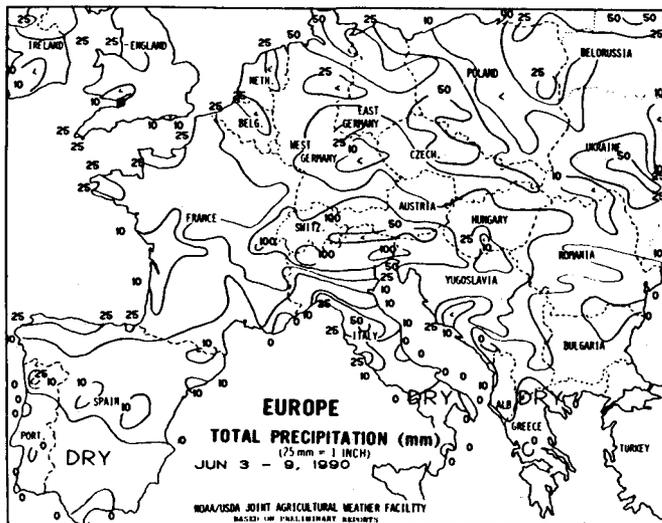
MEXICO ... Oppressive heat prevails over northern Mexico. Showers benefit corn growth in the Southern Plateau.

CANADA ... Unfavorable wet weather necessitates local replanting in Manitoba. Beneficial rain covers emerging crops across the north.

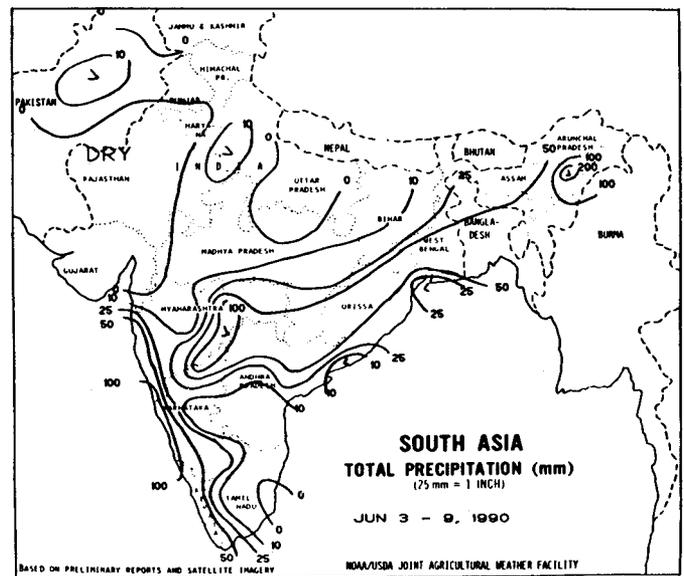


In the New Lands, a cold front progressed eastward across the region during the week. Ahead of the front, hot, dry weather from southern desert regions was advected northward stressing spring grains in the early vegetative stage. Spring grain areas in the southern Urals and Kazakhstan experienced maximum temperatures ranging from 30-39 degrees C which lasted for 2-4 days. Crop areas in the northern Urals and Western Siberia experienced these high temperatures for 2 days or less. As the cold front passed, it brought cooler weather accompanied by showers and local thunderstorms. Greatest amounts of precipitation (10-25mm with local amounts in excess of 25mm) covered the northern Urals and Western Siberia. Although cooler weather (maximum temperatures ranging from 16 to 27 degrees C) by week's end in the southern Urals and Kazakhstan relieved heat stress, most crops in these areas received only spotty, light showers.

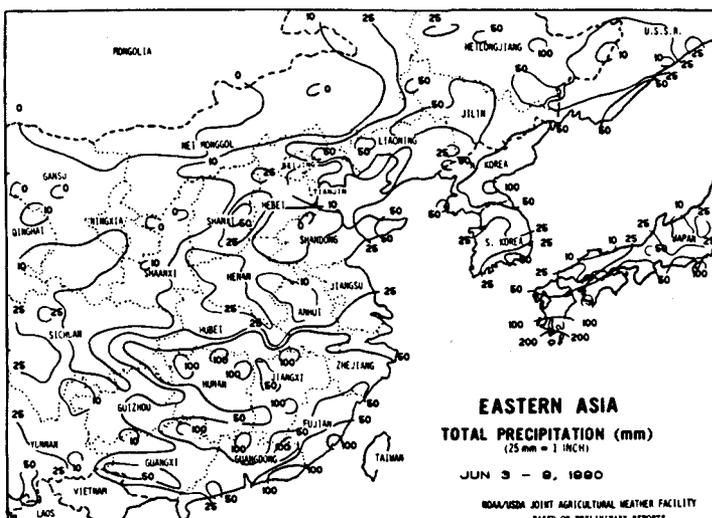
USSR ... In Western USSR, weather conditions continued mostly favorable for crop growth. Unseasonably cool weather continued over the region, with weekly average temperatures ranging from 1 to 3 degrees Celsius (C) below normal. Highest weekly temperatures ranged from 22 to 25 degrees C. Winter grain crop progress ranged from filling in the south to in or nearing reproduction in the north. Spring grains were beginning to enter the reproductive phase of development in the extreme south. Widespread rain (15-25mm) with local amounts in excess of 50mm covered the northwestern half of the region, maintaining favorably moist conditions for crop growth. Light, widespread precipitation (around 10mm) covered crop areas over the remainder of the region.



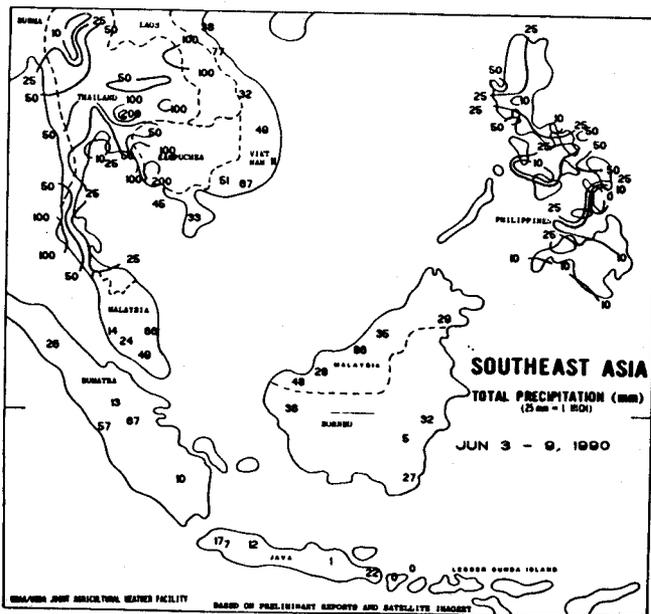
EUROPE ... Heavy rain (25-60mm, with scattered amounts in excess of 60mm) fell over central sections from Denmark southward to northern Italy and Yugoslavia. The rain maintained favorable conditions for winter and summer crops in the north and summer crops in the south. Very heavy rain (100-190mm) in sections of extreme northern Italy and southern Switzerland reportedly caused localized flooding. In the northwest, much needed rain (10-20mm, with isolated rain greater than 20mm) provided temporary relief to summer and winter crops from long-term dryness. Cooler-than-normal temperatures (1-5 degrees C below normal) in most of the north continued to slow growth and development of most crops. In the extreme south, mostly dry and warm weather favored rapid maturation, drydown, and harvest of winter grains.



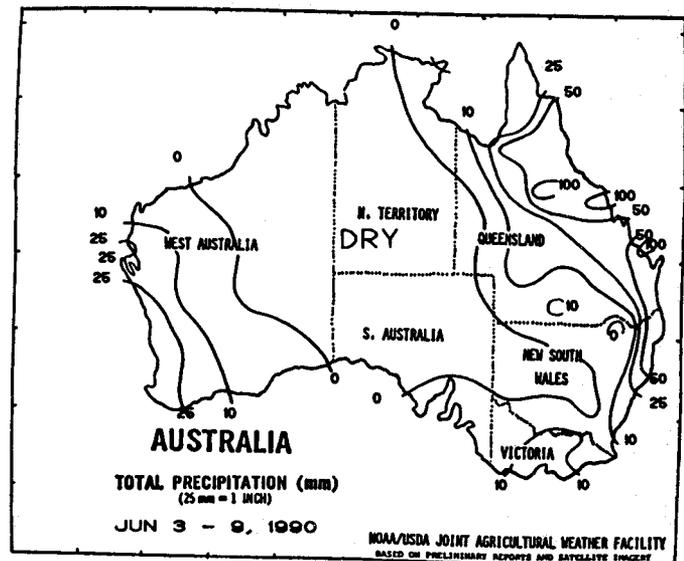
SOUTH ASIA ... Moderate to heavy showers (50-100mm or more) covered the southwest coast and a large area of central India, including Maharashtra, northern Andhra Pradesh, and Madhya Pradesh, boosting moisture reserves for planting. Rainfall elsewhere in central and southern India was sparse, with only local areas reporting over 10mm. Temperatures averaged near to below normal for the week but periods of hot weather (daily high temperatures in the upper 30's C) maintained high evaporative losses. In the east, moderate to heavy showers (25-50mm or more) continued over primary rice areas from southern Bihar and Orissa eastward, maintaining favorable conditions for newly planted crops. Excessive rain (146-287mm), however, in eastern Assam caused flooding. Hot, mostly dry weather again dominated the north, but the southwest monsoon usually isn't established in that area until July.



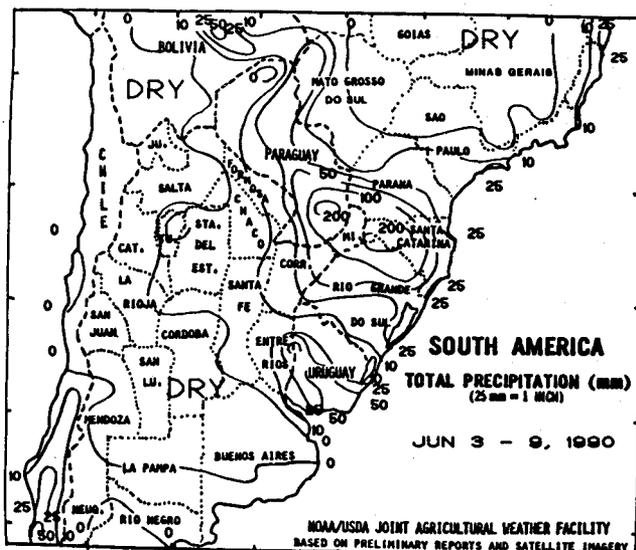
EASTERN ASIA ... Heavy seasonal rain (25-80mm, with scattered amounts greater than 80mm) continued from the Yangtze Valley southward, favoring spring and summer crops but delaying harvest of winter grains. Unseasonably heavy rain (25-60mm, with isolated amounts greater than 60mm) also fell over much of Manchuria and the Korean Peninsula, benefiting spring wheat, corn, and single season rice crops. The rain brought soil moisture back up to normal levels in sections of Heilongjiang after earlier dryness. In the North China Plain, light to moderate rain (5-20mm, with scattered rainfall greater than 20mm) maintained above-normal soil moisture levels for vegetative corn, cotton, rice, and soybean crops. Mean weekly temperatures were below normal in the north and near normal in the south.



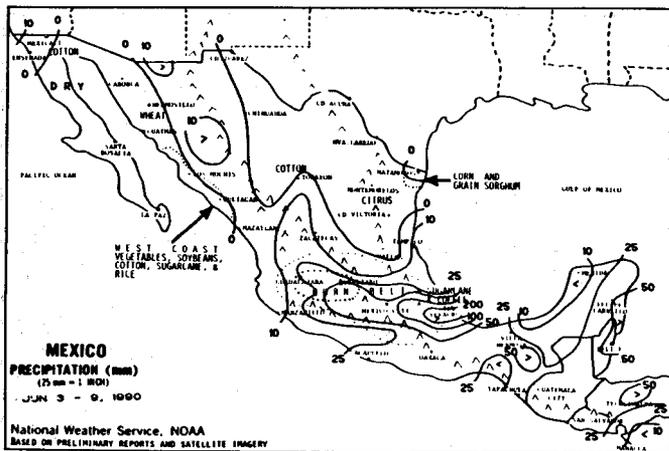
SOUTHEAST ASIA ... Moderate to heavy showers (35-100mm or more) covered Thailand's primary grain regions, including southern areas from the central corn belt to the eastern Khorat Plateau that had been trending dry in recent weeks. Local, excessive amounts (100-200mm or more), however, caused flooding, especially in parts of northeastern and peninsular Thailand that have been wetter than normal in recent weeks. Temperatures averaged above normal in southern Thailand and near normal elsewhere, with highs generally in the middle 30's C. In the Philippines, rainfall tapered off over western Luzon, bringing relief to flooded areas following last week's inundating rain. Rainfall, which occurred early in the week, exceeded 50mm in only local areas. Lighter-than-normal rainfall (35mm or less) continued for the second week over much of the central and southern Philippines.



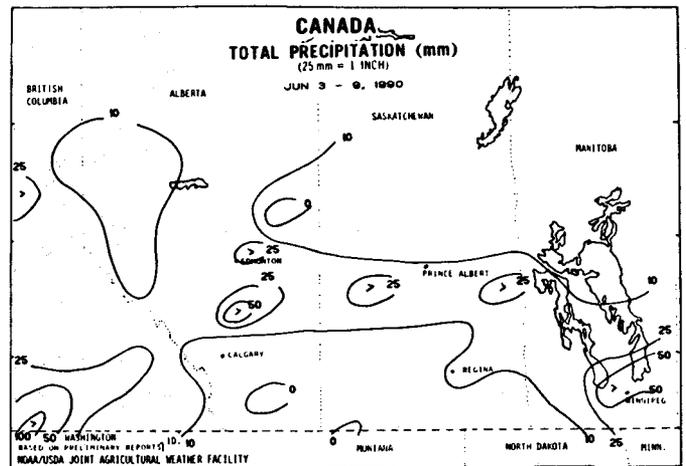
AUSTRALIA ... Unseasonably heavy rain (25-85mm, with isolated amounts greater than 85mm) returned to eastern coastal Queensland, causing early sugarcane harvest delays in northern growing areas. Rain (5-30mm) also returned to interior crop areas of Queensland, maintaining near optimal soil moisture levels for establishment of winter grains. Crop areas of New South Wales turned mostly dry following 3 consecutive weeks of above-normal rainfall. In the south, widespread rain (5-40mm) favored growth of winter grains in growing areas of Western Australia. Scattered, light rain (less than 10mm) brought only minor relief to dryness across crop areas of South Australia and Victoria. Soils in some sections of the region remain too dry for winter grains planting.



SOUTH AMERICA ... In south-central Brazil, inundating rain (100-211mm) fell again early in the week over northern Rio Grande do Sul, Santa Catarina and extreme southern Parana, extending into southeastern Paraguay. Drier weather late in the week eased flood conditions. The stagnant rainfall pattern over southern Brazil resulted in mostly dry weather to the north and to the south. Dry weather favored citrus and coffee harvesting in Sao Paulo and Minas Gerais. Similarly, dry weather in Argentina helped late summer crop harvesting and early wheat planting. Soybean harvesting in Santa Fe, the largest soybean producing province, is about 90 percent complete. Topsoil moisture is adequate for early wheat planting.



MEXICO ... Widespread showers covered much of the Southern Plateau corn belt. Locally, heavy rain (100-223mm) soaked eastern portions closer to the sugarcane areas near Veracruz. Weekly rainfall averaged 25-100mm over southern and central portions, moistening soils for vegetative growth of corn. Lighter rain (5-10mm) fell over western and northern Plateau corn areas, bringing minimal soil moisture for crop use. Scattered, mostly light showers (1-12mm) fell in the northwest, providing a little relief from oppressive heat which persisted during the week across northern Mexico. Daytime high temperatures reached 36 to 41 degrees C for most of the week, creating severe stress conditions. Dry weather prevailed in the northeast. Tropical showers covered southern Mexico.



CANADA ... Moderate to heavy rain (20-50mm or more) fell across the northern crop areas of Alberta and Saskatchewan, benefiting emerging crops. However, the continuing rainfall in Manitoba maintained unfavorably wet conditions near Winnipeg, which received an additional 45-55mm following last week's heavy rain. Drier weather is needed for local replanting due to washout. Rainfall elsewhere ranged from 1-11mm, causing minor delays in late plantings. Weekly temperatures averaged near to below normal, with early week freezing temperatures (0 to -2 degrees C) in northeastern Saskatchewan likely causing minimal, if any, damage to emerged grains and oilseeds.

CORRECTION

The dates on last week's weekly precipitation maps were incorrect. They should have read "May 27 - Jun 2" (not "Jun 4").

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

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

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor Douglas Le Comte
Meteorologists Tom Heddinghaus (202) 382-1444
Vilhelm Bjerknes, Bob Stefanski, Wes Byrd, and Jeff Savadel

Subscriptions (202) 447-7917 . . . Joyce Houston

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
Editor Sharon Lee
National Agricultural Statistics Service
Agricultural Statistician . . . Tom Kurtz (202) 447-2157
World Agricultural Outlook Board
Agricultural Weather Analysts. . Ray Motha (202) 447-5716
Tom Puterbaugh, Mark Brusberg, and Jeff Andresen

(Continued from front cover)
Remnants of Pacific Hurricane Boris also brought unusual rainfall to **southern California** for this time of year. **San Diego, CA**, received 0.87 inches on June 9 and 10, which is a June record for total rainfall. Hot weather prevailed across the **southwestern and South Central States** as temperatures climbed daily into triple digits.

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

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

WEEKLY NEWS BULLETIN
SECOND CLASS

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