

WEEKLY WEATHER AND CROP BULLETIN

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

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

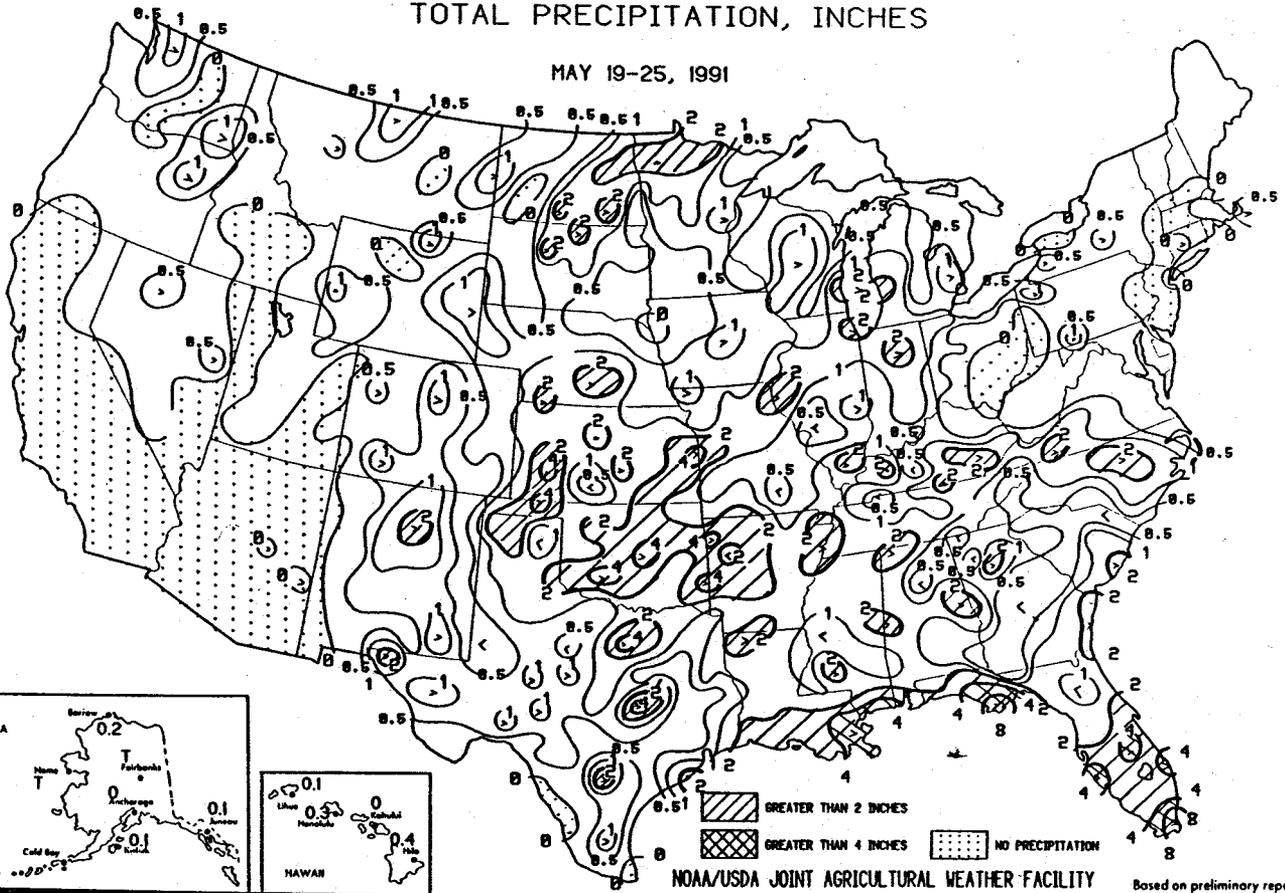
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May 29, 1991

TOTAL PRECIPITATION, INCHES

MAY 19-25, 1991



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

May 19 - 25, 1991

A moist, southerly air flow generated locally heavy rain from the **Rockies eastward**, except for the **Northeast**. Though a cool airmass blanketed the **Northeast** early in the week, summer-like heat regained control of the **East**, and 32 daily record highs were established from midweek onward. Warmer conditions and occasional rain contributed to snow-melt and runoff flooding in several **northern mountain States** from **Washington to Wyoming**. Rivers remained high in **northeastern Iowa** from last week's downpours. Isolated convection developed each afternoon along the **front range of the Rockies** and in the **Southeast**. Early-week thunderstorms dumped nearly 3 inches of rain on **Las Vegas, NM, and Dalhart, TX**. A disturbance in the **Gulf of Mexico** helped to focus rainfall along the **Gulf coast**. **Appalachicola, FL**, absorbed 6.63 inches of rain on Monday. **Homestead, FL**,

(Continued to p. 16)

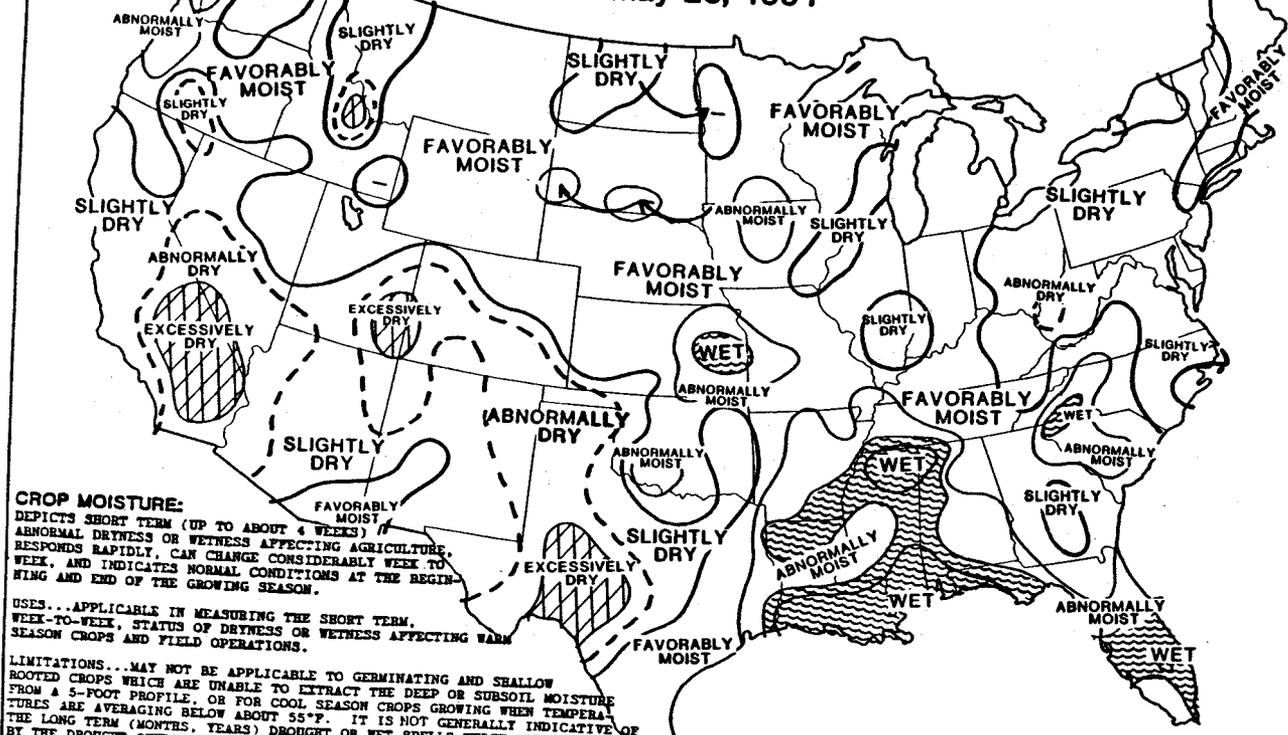
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CROP MOISTURE INDEX

(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

May 25, 1991



CROP MOISTURE:
 DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE. RESPONDS RAPIDLY. CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USES... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.

LIMITATIONS... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

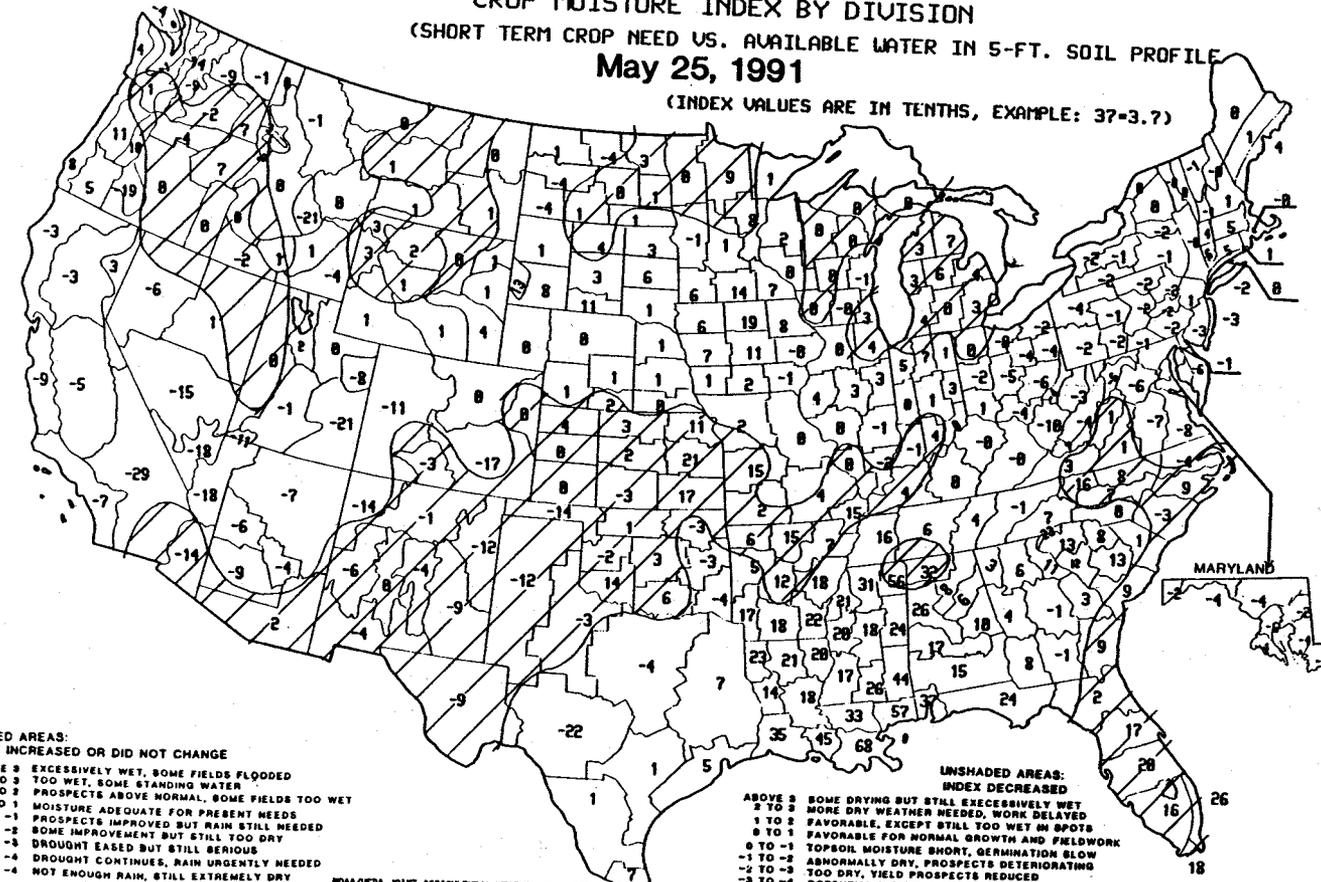
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

CROP MOISTURE INDEX BY DIVISION

(SHORT TERM CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

May 25, 1991

(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37=3.7)



SHADED AREAS:
 INDEX INCREASED OR DID NOT CHANGE

- ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
- 2 TO 3 TOO WET, SOME STANDING WATER
- 1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
- 0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
- 0 TO -1 PROSPECTS IMPROVED, BUT RAIN STILL NEEDED
- 1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
- 2 TO -3 DROUGHT EASED BUT STILL SERIOUS
- 3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
- BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY

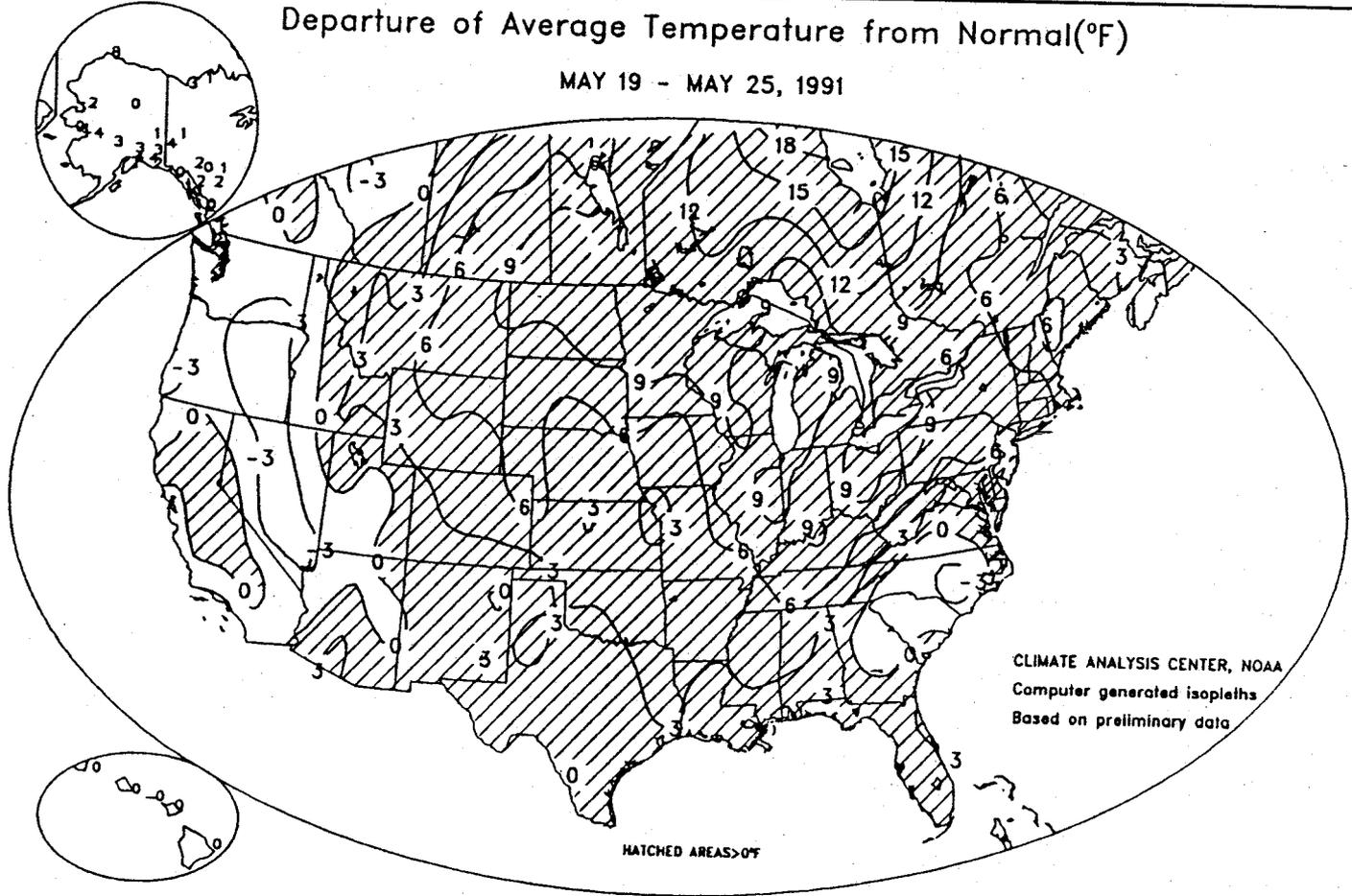
UNSHADED AREAS:
 INDEX DECREASED

- ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
- 2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
- 1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
- 0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
- 0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
- 1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
- 2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
- 3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
- BELOW -4 EXTREMELY DRY, MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

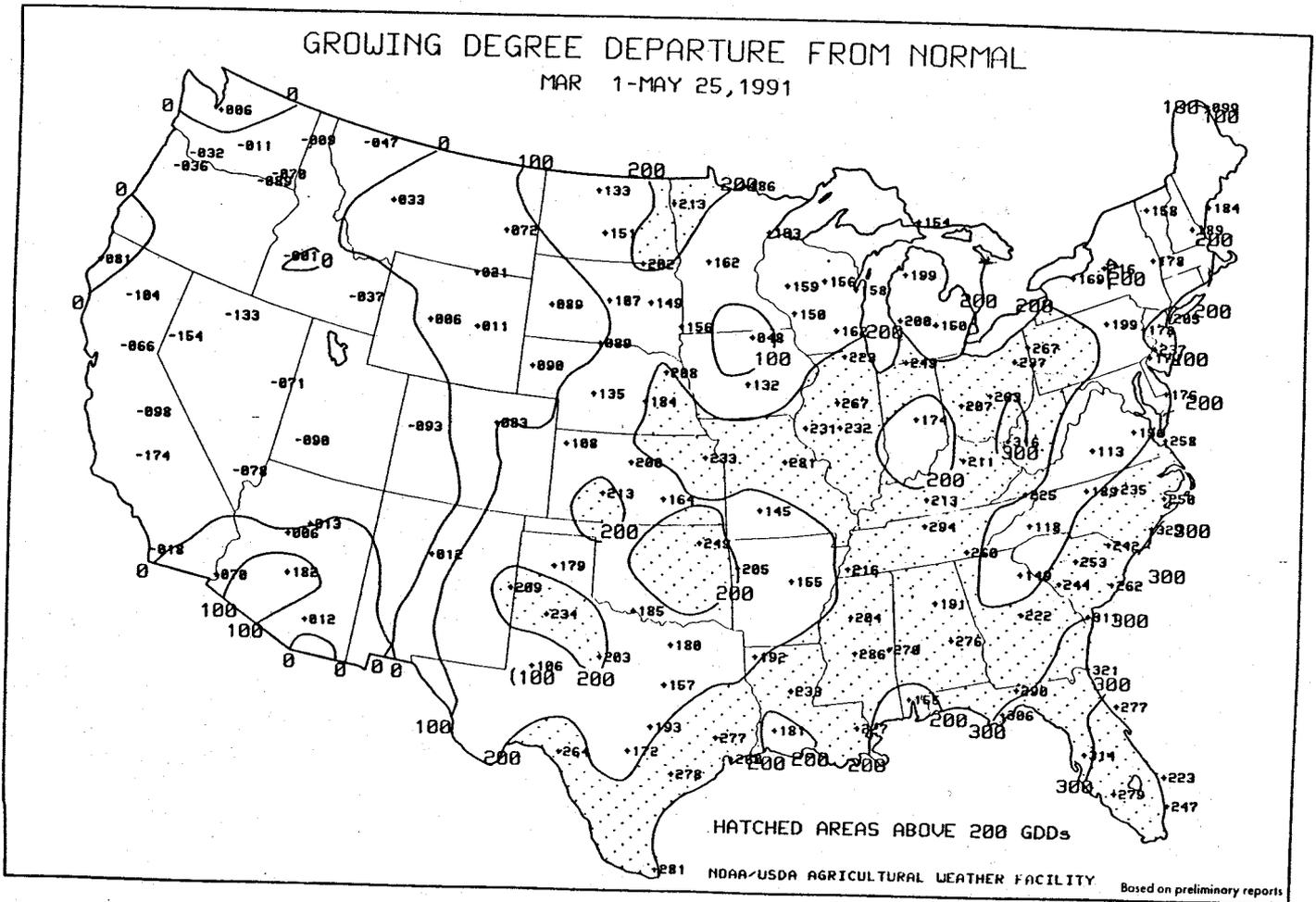
Departure of Average Temperature from Normal(°F)

MAY 19 - MAY 25, 1991



GROWING DEGREE DEPARTURE FROM NORMAL

MAR 1-MAY 25, 1991



National Weather Data for Selected Cities

Weather Data for the Week Ending **May 25, 1991**

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT			NUMBER OF DAYS							
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																				.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	81	69	86	64	75	4	.3	-.7	.2	15.1	98	22.6	90	90	67	0	0	0	0	0	0	0	
MOBILE	80	70	85	68	75	-1	2.8	1.6	1.0	26.1	161	45.5	177	98	77	0	0	0	0	2	7	3	
AK ANCHORAGE	65	41	69	32	53	5	1.0	1.0	1.0	24.2	179	35.3	159	92	70	0	0	0	0	0	0	0	
BARROW	35	28	39	22	32	5	.0	-.1	-.1	1.0	57	2.0	61	83	34	0	0	1	0	2	0	0	
FAIRBANKS	64	41	69	38	53	2	.0	-.1	-.1	.3	59	.4	51	94	73	0	0	6	6	2	2	0	
JUNEAU	59	42	66	39	50	1	.1	-.1	-.1	2.3	218	3.7	180	82	30	0	0	0	0	0	0	0	
KODIAK	64	44	71	37	54	1	.1	-.1	-.1	11.3	126	22.8	139	97	47	0	0	0	0	1	1	0	
NOME	43	34	53	30	38	9	.0	-.1	-.1	17.3	146	38.1	168	72	35	0	0	0	0	0	0	0	
AZ PHOENIX	96	69	103	65	82	4	.0	-.0	-.0	1.4	88	2.9	104	90	64	0	0	3	3	0	0	0	
PRESCOTT	76	44	84	39	60	1	.4	-.0	-.0	2.1	177	3.2	132	26	10	7	7	0	0	0	0	0	
TUCSON	95	59	101	55	77	2	.0	-.1	-.1	4.0	149	6.2	104	51	15	0	0	0	0	0	0	0	
YUMA	95	67	102	63	81	1	.0	-.0	-.0	1.4	125	3.5	136	36	9	7	7	0	0	0	0	0	
AR FORT SMITH	84	68	89	66	76	5	2	.0	-.0	.8	266	1.8	203	41	12	6	6	0	0	0	0	0	
LITTLE ROCK	83	70	88	67	76	4	1.7	1.7	1.3	14.7	123	17.7	109	96	65	0	0	0	0	6	6	1	
CA BAKERSFIELD	87	57	96	49	72	0	1.9	1.9	.9	17.1	119	25.4	115	91	72	0	0	0	0	7	7	1	
EUREKA	57	48	58	46	52	-1	.0	-.0	-.0	3.8	218	4.6	121	67	25	3	0	0	0	0	0	0	
FRESNO	87	56	96	47	72	2	.0	-.3	-.3	11.3	121	15.7	73	90	71	0	0	0	0	0	0	0	
LOS ANGELES	64	53	65	49	59	-5	.0	-.0	-.0	7.3	243	8.5	123	74	21	3	0	0	0	0	0	0	
REDDING	86	54	93	45	70	0	.0	-.2	-.2	4.0	142	7.9	95	92	66	0	0	0	0	0	0	0	
SACRAMENTO	87	50	96	40	68	2	.0	-.0	-.0	12.1	137	17.0	72	77	20	3	0	0	0	0	0	0	
SAN DIEGO	66	56	69	56	61	0	.0	-.0	-.0	6.7	186	10.2	97	91	26	2	2	0	0	0	0	0	
SAN FRANCISCO	68	49	75	46	59	-3	.0	-.0	-.0	7.3	269	10.4	163	84	59	0	0	0	0	0	0	0	
CO DENVER	77	53	87	46	65	6	1.0	.4	.6	6.9	155	10.9	89	87	46	0	0	0	0	0	0	0	
GRAND JUNCTION	79	52	87	48	66	2	.0	-.0	-.0	4.6	93	5.5	89	89	31	0	0	0	0	3	3	0	
PUEBLO	82	51	93	44	67	4	.0	-.1	-.1	1.8	89	2.8	89	63	20	0	0	0	0	2	2	1	
CT BRIDGEPORT	77	55	91	47	66	5	.3	-.0	-.2	2.3	81	2.4	72	87	25	1	1	0	0	0	0	0	
HARTFORD	83	53	90	40	68	7	.0	-.8	-.0	10.0	95	14.6	88	87	48	1	1	0	0	4	4	0	
DC WASHINGTON	81	62	93	53	72	4	.0	-.7	-.7	12.3	113	16.5	94	87	36	2	2	0	0	0	0	0	
FL APALACHICOLA	83	74	85	71	78	3	.0	-.8	-.8	7.2	79	11.0	76	87	50	2	2	0	0	0	0	0	
DAYTONA BEACH	85	75	86	71	80	4	8.7	8.0	6.8	31.7	331	55.9	333	96	76	0	0	0	0	1	2	0	
JACKSONVILLE	86	72	88	67	79	3	2.0	1.2	1.2	19.7	255	23.6	179	90	68	0	0	0	0	6	4	2	
KEY WEST	86	76	89	73	79	0	2.9	1.8	1.8	18.8	194	30.6	188	94	65	0	0	0	0	6	2	1	
MIAMI	85	77	87	73	81	2	6.6	5.8	3.3	11.7	225	14.2	160	93	72	0	0	0	0	7	2	1	
ORLANDO	85	74	88	72	80	1	2.3	.7	1.7	9.9	99	13.6	96	87	65	0	0	0	0	5	1	0	
TALLAHASSEE	86	73	90	67	79	4	3.3	2.4	1.3	20.9	251	24.2	178	96	64	0	0	0	0	5	3	0	
WEST PALM BEACH	89	73	92	71	81	2	1.6	.8	.7	22.2	161	42.0	180	93	63	1	0	0	0	4	0	0	
GA ATLANTA	74	63	83	55	70	1	5.4	3.9	2.7	20.6	124	12.4	96	97	57	4	0	0	0	6	1	0	
AUGUSTA	80	65	88	58	73	0	1.2	-.7	-.2	17.6	129	25.3	110	91	72	0	0	0	0	6	3	0	
MACON	81	67	89	58	74	0	.0	-.8	-.1	17.2	155	26.7	140	96	70	0	0	0	0	4	0	0	
SAVANNAH	81	69	85	62	75	1	2.5	1.4	1.9	16.3	139	28.9	141	98	70	0	0	0	0	4	0	0	
HI HILO	83	66	84	64	75	1	.4	-.5	-.2	52.3	151	65.4	114	86	73	0	0	0	0	6	1	0	
HONOLULU	86	68	88	65	77	-1	.3	-.1	.3	7.6	127	10.4	84	82	50	0	0	0	0	3	0	0	
KAHULUI	86	66	88	64	76	0	.0	-.1	-.0	2.8	67	7.7	69	86	48	0	0	0	0	1	0	0	
LIHUE	81	69	83	65	75	-1	.1	-.6	-.1	13.2	129	15.5	77	86	63	0	0	0	0	1	0	0	
ID BOISE	74	43	82	38	58	-1	.0	-.3	-.3	3.5	110	4.9	84	84	28	0	0	0	0	1	0	0	
LEWISTON	71	45	75	44	58	-2	1.2	.9	1.1	5.0	152	5.4	97	91	39	0	0	0	0	2	1	0	
POCATELLO	73	45	77	30	59	3	.0	-.3	-.0	7.7	255	8.7	176	77	25	0	1	0	0	0	0	0	
IL CHICAGO	80	62	86	51	71	8	2.2	1.5	1.0	12.6	139	14.6	124	90	60	0	0	0	0	4	2	0	
MOLINE	80	64	87	53	72	8	1.6	.7	1.0	12.0	128	14.5	112	96	62	0	0	0	0	3	0	0	
PEORIA	80	62	86	51	71	8	1.1	.1	1.5	12.9	128	14.5	112	96	62	0	0	0	0	4	2	0	
QUINCY	78	65	83	57	71	6	3.1	2.1	2.7	13.4	127	14.2	107	96	70	0	0	0	0	3	1	0	
ROCKFORD	79	61	84	48	70	9	.9	-.0	.5	9.3	95	10.8	88	92	58	0	0	0	0	4	1	0	
SPRINGFIELD	80	66	86	54	73	8	.4	-.3	.4	11.4	116	13.4	103	100	66	0	0	0	0	5	1	0	
IN EVANSVILLE	82	68	85	66	75	8	1.3	.3	.6	9.7	79	15.7	86	99	71	0	0	0	0	5	2	0	
FORT WAYNE	81	60	85	50	71	9	1.5	.8	1.5	10.8	116	13.9	105	92	54	0	0	0	0	4	1	0	
INDIANAPOLIS	80	64	84	54	72	8	1.9	1.0	1.2	15.0	148	18.5	121	95	66	0	0	0	0	3	1	0	
SOUTH BEND	80	62	86	50	71	10	1.9	1.2	.8	10.5	113	14.0	102	88	60	0	0	0	0	4	2	0	
IA DES MOINES	77	62	84	49	70	6	1.4	.5	.8	17.4	205	18.6	175	96	67	0	0	0	0	4	2	0	
ST LOUIS	77	60	83	49	69	5	.0	-.8	-.8	8.9	134	9.8	119	97	61	0	0	0	0	5	1	0	
KS CONCORDIA	76	61	83	47	68	7	.6	-.4	.5	17.4	192	18.5	172	98	71	0	0	0	0	3	0	0	
DODGE CITY	82	60	86	57	71	4	.9	-.2	.3	5.7	78	6.4	73	97	63	0	0	0	0	3	0	0	
GOODLAND	78	56	86	50	67	6	1.9	1.2	.6	3.7	63	4.0	59	96	46	0	0	0	0	3	1	0	
TOPEKA	77	64	86	58	70	4	1.7	.8	1.0	4.6	104	5.0	96	96	45	0	0	0	0	3	2	0	
WICHITA	79	65	83	61	72	4	1.9	1.0	1.3	11.5	137	12.3	119	97	71	0	0	0	0	4	2	0	
KY BOWLING GREEN	83	67	89	63	75	7	.2	-.8	.1	9.9	76	20.5	95	96	69	0	0	0	0	5	1	0	
LEXINGTON	80	66	87	63	73	7	.1	-.9	.0	11.5	94	17.9	94	94	68	0	0	0	0	3	0	0	
LOUISVILLE	84	69	89	66	77	9	.3	-.6	.2	11.0	90	18.0	96	93	64	0	0	0	0	4	0	0	
LA ALEXANDRIA	84	72	88	70	78	2	1.4	.3	.8	31.2	212	45.2	190	94	63	0	0	0	0	3	1	0	
BATON ROUGE	82	71	89	69	77	1	1.2	.1	.5	22.8	160	40.3	170	98	76	0	0	0	0	4	0	0	
LAKE CHARLES	82	72	88	69	77	1	2.6	1.3	2.1	20.6	179	37.5	193	98	73	0	0	0	0	4	1	0	
NEW ORLEANS	82	72	86	70	77	1	4.9	3.7	2.0	34.2	258	58.9	251	96	78	0	0	0	0	6	1	4	

Weather Data for the Week Ending May 25, 1991

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 Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	85	70	89	69	78	3	1.9	.9	1.1	35.3	286	48.1	243	96	60	0	0	6	1		
ME CARIBOU	74	43	83	28	58	5	.3	-.3	.3	9.5	131	12.7	108	72	25	0	2	2	0		
PORTLAND	75	47	91	35	61	6	.3	-.5	.3	16.1	153	20.9	117	90	39	1	1	1	0		
MD BALTIMORE	82	59	94	47	71	5	T	-.8	.5	8.5	87	12.8	82	89	44	1	1	1	0		
SALISBURY	79	53	88	43	66	1	.4	-.3	.3	9.9	100	16.8	101	99	47	0	0	2	0		
MA BOSTON	77	55	90	46	66	5	T	-.8	.5	10.1	94	14.9	81	81	42	1	1	1	0		
CHATHAM	65	49	76	40	57	3	.8	-.0	.8	10.0	91	15.3	78	84	65	0	0	0	1		
MI ALPENA	76	49	87	32	62	8	.3	-.4	.3	8.2	123	9.6	100	97	48	0	0	1	0		
DETROIT	81	58	88	47	70	9	1.0	.4	.6	8.0	102	10.4	91	86	46	0	0	1	0		
FLINT	81	54	87	43	68	9	.8	.2	.5	9.4	128	11.6	112	87	50	0	0	1	0		
GRAND RAPIDS	81	57	84	45	69	9	3.1	2.4	1.0	13.3	157	15.3	128	88	53	0	0	3	0		
HOUGHTON LAKE	78	53	83	36	66	10	.5	-.1	.4	10.1	154	11.9	128	89	49	0	0	2	0		
LANSING	81	55	87	41	68	9	.4	-.1	.4	9.8	138	11.8	117	95	53	0	0	4	0		
MARQUETTE	75	50	84	27	63	10	.3	-.6	.1	8.7	90	11.4	84	90	54	0	1	3	0		
MUSKOGON	80	57	84	46	68	10	2.0	1.4	1.9	11.1	144	13.2	113	88	52	0	0	2	0		
SAULT ST. MARIE	77	47	84	33	62	10	.1	-.6	.1	8.2	123	10.4	98	92	49	0	0	1	0		
MN ALEXANDRIA	78	60	88	46	69	11	.8	-.1	.8	6.9	122	8.3	116	87	50	0	0	2	0		
DULUTH	73	52	78	34	62	10	.7	.0	.6	7.6	120	8.7	103	85	52	0	0	2	1		
INT'L FALLS	80	52	88	30	66	12	2.8	2.2	2.7	7.3	161	9.0	148	90	43	0	1	2	1		
MINNEAPOLIS	75	60	85	49	68	7	.8	-.1	.4	10.1	163	11.6	148	94	64	0	1	2	0		
ROCHESTER	74	58	84	44	66	7	.1	-.7	.1	11.2	160	12.3	145	96	72	0	0	4	0		
MS GREENWOOD	84	70	89	68	77	3	1.7	.7	.8	23.8	151	36.8	145	95	66	0	0	2	0		
JACKSON	83	71	90	68	77	3	.7	-.4	.3	29.4	192	39.7	162	97	68	1	0	4	0		
MERIDIAN	84	70	91	66	77	4	1.8	.9	.7	25.5	164	38.7	154	93	69	1	0	5	0		
MO CAPE GIRARDEAU	79	70	83	69	74	—	1.8	.8	1.2	13.3	99	19.4	100	97	73	0	0	6	1		
COLUMBIA	80	65	85	61	73	6	1.1	.0	.8	10.4	96	12.1	83	96	68	0	0	5	1		
KANSAS CITY	75	62	81	55	69	1	.7	-.3	.4	9.9	104	11.4	86	100	74	0	0	3	0		
SAINT LOUIS	83	69	88	63	76	9	.5	-.3	.5	9.1	94	11.6	96	95	62	0	0	5	0		
SPRINGFIELD	78	65	83	62	71	5	.3	-.7	.3	11.7	107	15.7	107	99	71	0	0	1	0		
MT BILLINGS	76	52	79	49	64	7	.1	-.5	.1	6.3	130	7.6	117	90	41	0	0	4	0		
GLASGOW	77	52	84	50	65	8	.4	-.4	.3	3.2	143	3.7	129	86	37	0	0	2	0		
GREAT FALLS	69	42	73	38	56	0	.2	-.4	.0	4.3	98	5.1	85	87	36	0	0	2	0		
HAVRE	71	46	78	44	59	2	1.0	.0	1.0	3.6	120	4.1	102	90	39	0	0	1	0		
HELENA	74	44	78	36	59	5	.2	-.2	.2	3.3	109	3.6	87	78	29	0	0	2	0		
KALISPELL	67	40	72	35	53	0	.4	-.0	.3	3.6	112	5.8	99	95	35	0	0	2	0		
MILES CITY	79	56	82	54	68	9	.7	-.3	.3	6.0	160	7.0	142	88	48	0	0	5	0		
MISSOULA	69	41	75	39	55	2	.1	-.3	.3	3.5	113	4.3	82	88	33	0	0	2	0		
NE GRAND ISLAND	74	59	83	50	67	4	2.3	1.5	1.1	9.1	129	9.7	116	96	68	0	0	3	2		
LINCOLN	77	60	84	51	69	4	.8	-.1	.5	8.0	102	9.0	95	97	63	0	0	3	1		
NORFOLK	77	59	85	48	68	5	.3	-.6	.2	10.5	159	11.8	151	94	58	0	0	3	0		
NORTH PLATTE	74	56	84	52	65	5	1.1	.3	.7	8.1	146	8.6	134	97	60	0	0	5	1		
OMAHA	77	62	82	50	69	4	.2	-.8	.2	13.1	159	14.5	147	90	66	0	0	3	0		
SCOTTSBLUFF	77	54	87	49	65	6	1.4	.8	.7	5.6	126	6.5	122	94	41	0	0	2	0		
VALENTINE	76	55	88	48	65	6	.5	-.2	.3	6.0	122	6.7	118	93	52	0	0	3	0		
NV RLY	66	34	76	26	50	—	.9	-.6	.7	4.4	162	4.7	114	88	27	0	3	3	1		
LAS VEGAS	88	60	97	55	74	-1	T	.0	T	1.0	134	1.8	105	46	13	3	0	0	0		
RENO	73	44	82	34	58	2	.1	.0	.1	2.4	135	2.6	66	74	25	0	0	1	0		
WINNEMUCCA	70	37	81	28	54	-3	.7	.5	.5	3.2	157	3.9	110	89	30	0	1	2	0		
NH CONCORD	81	46	91	33	63	6	T	-.7	T	7.4	89	10.7	79	96	32	1	0	0	0		
NJ ATLANTIC CITY	80	50	94	31	65	3	.0	-.7	.0	9.4	97	15.8	96	97	45	1	1	0	0		
NM ALBUQUERQUE	80	54	91	49	67	0	1.1	1.0	1.0	1.3	104	2.0	98	65	25	1	0	3	1		
CLOVIS	83	58	87	55	70	3	.8	-.3	.6	1.2	42	1.9	49	91	35	0	0	2	1		
ROSWELL	87	61	95	56	74	3	1.0	.9	.6	1.1	82	1.6	76	78	26	2	0	2	1		
NY ALBANY	82	51	87	36	66	7	.0	-.8	.0	8.3	97	12.1	92	88	41	0	0	0	0		
BINGHAMTON	78	53	85	38	66	8	.3	-.4	.3	9.5	111	13.8	103	89	43	0	0	1	0		
BUFFALO	81	57	90	44	69	11	T	-.6	T	13.7	164	17.8	130	88	46	1	0	0	0		
NEW YORK	80	60	93	52	70	6	.0	-.8	.0	8.5	80	13.5	80	77	40	1	0	0	0		
ROCHESTER	80	53	89	38	67	8	.0	-.6	.0	10.1	140	12.9	109	93	47	0	0	0	0		
SYRACUSE	81	54	89	40	68	9	.3	-.4	.3	9.9	112	13.9	99	92	45	0	0	1	0		
NC ASHVILLE	71	56	80	50	64	-1	.3	-.6	.2	13.1	114	18.0	101	99	72	0	0	3	0		
CHARLOTTE	79	61	87	52	70	0	.2	-.6	.2	15.0	137	22.4	121	94	58	0	0	2	0		
GREENSBORO	75	58	85	50	67	-1	1.8	1.1	.9	18.0	186	23.7	143	96	66	0	0	3	0		
HATTERAS	80	64	86	60	72	3	.5	-.5	.5	9.0	87	22.5	117	95	56	0	0	1	2		
NEW BERN	78	62	87	60	70	-1	1.3	.3	.7	9.0	89	18.2	101	97	64	0	0	4	2		
RALEIGH	76	58	86	51	67	-2	2.5	1.6	1.9	8.4	88	13.2	80	99	62	0	0	3	2		
WILMINGTON	78	64	86	61	71	-1	.5	-.6	.2	11.6	112	23.4	135	97	66	0	0	4	0		
ND BISMARCK	77	55	83	47	66	9	1.0	.4	.9	4.7	120	5.1	105	95	49	0	0	4	0		
FARGO	80	57	88	46	69	11	.2	-.3	.2	6.0	134	7.5	140	89	45	0	0	2	1		
GRAND FORKS	80	57	85	44	68	11	2.1	1.7	1.3	7.2	199	8.3	170	85	48	0	0	2	0		
WILLISTON	79	55	89	47	67	10	.6	-.1	.2	3.8	119	4.4	105	92	42	0	0	2	0		
OH AKRON-CANTON	82	62	92	53	72	11	.2	-.6	.2	6.6	70	11.0	78	88	50	1	0	5	0		
CINCINNATI	83	65	86	58	74	9	.2	-.7	.1	11.7	111	18.5	113	94	60	0	0	3	0		
CLEVELAND	80	59	90	49	70	9	.6	-.2	.6	9.9	111	14.4	106	88	51	1	0	1	1		
COLUMBUS	86	62	92	55	74	11	T	-.9	T	8.8	92	13.1	90	90	48	1	0	0	0		

Based on 1951-80 normals

Weather Data for the Week Ending May 25, 1991

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 Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	81	63	86	51	72	8	T	- .8	T	13.3	141	18.4	131	94	61	0	0	1	0		
TOLEDO	83	58	90	51	71	10	1.7	1.0	1.7	8.8	112	11.7	100	94	46	1	0	1	1		
YOUNGSTOWN	82	56	89	45	69	10	.0	- .7	.0	6.8	72	10.4	73	93	47	0	0	0	0		
OK OKLAHOMA CITY	82	66	87	63	74	4	2.0	.7	.8	9.6	103	10.6	91	97	60	0	0	5	2		
TULSA	82	68	86	65	75	5	2.1	.9	1.0	8.4	74	10.3	71	94	65	0	0	5	2		
OR ASTORIA	56	47	57	39	51	-2	.3	- .3	.2	17.2	120	32.5	99	92	69	0	0	3	0		
BURNS	63	36	73	31	50	-4	.4	- .3	.4	2.4	109	3.5	73	83	35	0	1	2	0		
MEDFORD	72	45	80	40	59	0	T	- .3	T	5.2	136	8.5	91	86	36	0	0	0	0		
FENDLETON	65	45	70	41	55	-5	.7	- .5	.7	4.6	160	6.2	108	85	40	0	0	2	1		
PORTLAND	63	48	70	43	55	-3	.3	- .2	.2	11.9	157	18.1	103	83	54	0	0	2	0		
SALEM	64	46	72	41	55	-1	.1	- .4	.1	13.1	159	19.3	97	92	56	0	0	2	0		
PA ALLENTOWN	82	55	90	43	68	7	.0	- .8	.0	9.0	84	12.9	76	88	39	1	0	0	0		
ERIE	79	59	85	47	69	12	.1	- .6	.1	7.5	84	11.2	84	87	50	0	0	1	0		
HARRISBURG	82	57	92	44	70	6	T	- .8	T	8.2	85	12.2	79	90	45	1	0	1	0		
PHILADELPHIA	85	57	96	46	71	6	T	- .7	T	8.7	88	13.5	86	88	38	3	0	0	0		
PITTSBURGH	82	59	89	52	71	9	T	- .8	T	7.4	77	11.9	80	88	45	0	0	0	0		
SCRANTON	81	54	88	44	68	7	T	- .7	T	7.3	89	10.1	82	87	37	0	0	1	0		
RI PROVIDENCE	79	53	90	42	66	6	T	- .8	T	13.7	124	19.5	104	91	39	1	0	0	0		
SC CHARLESTON	82	68	86	62	75	1	2.1	1.0	1.4	13.8	134	22.5	133	99	69	0	0	6	1		
COLUMBIA	79	65	89	57	72	-1	T	- .9	T	18.7	158	26.0	129	94	66	0	0	3	0		
FLORENCE	79	65	90	57	72	-1	T	- .8	T	10.0	104	16.7	101	94	60	1	0	1	0		
GREENVILLE	75	60	85	52	68	-2	.8	- .1	.7	16.4	122	23.4	106	98	70	0	0	3	1		
SD ABERDEEN	78	58	85	46	68	9	.5	- .1	.5	9.5	193	10.3	171	94	54	0	0	2	1		
HURON	76	57	83	46	66	7	.5	- .2	.5	8.9	168	9.9	154	92	59	0	0	1	0		
RAPID CITY	74	54	80	47	64	6	.3	- .4	.3	6.6	131	7.6	128	96	55	0	0	2	0		
SIoux FALLS	75	59	83	46	67	7	.1	- .7	.1	7.7	119	8.2	105	95	62	0	0	2	0		
TN CHATTANOOGA	83	66	87	63	74	5	.1	- .7	.1	16.7	118	27.5	114	93	59	0	0	3	0		
KNOXVILLE	82	63	87	59	73	4	.5	- .4	.4	12.9	104	22.4	106	97	61	0	0	3	0		
MEMPHIS	83	70	89	69	77	4	3.0	1.9	1.7	27.9	182	37.3	154	93	65	0	0	2	2		
NASHVILLE	85	70	89	66	77	8	.6	- .4	.5	11.7	85	20.1	90	89	61	0	0	3	1		
TX ABILENE	87	65	90	62	76	2	.5	- .3	.4	3.2	53	6.1	76	90	43	1	0	3	0		
AMARILLO	81	58	85	55	70	2	2.0	1.3	1.1	3.2	79	4.1	80	96	43	0	0	3	2		
AUSTIN	87	71	91	67	79	3	.6	- .3	.5	9.7	119	21.9	179	94	56	1	0	4	1		
BEAUMONT	85	73	89	71	79	3	1.7	- .6	1.3	20.4	182	39.8	204	95	67	0	0	4	1		
BROWNSVILLE	90	73	91	71	81	1	T	- .5	T	13.4	362	16.4	254	96	59	4	0	0	0		
CORPUS CHRISTI	87	73	89	69	80	1	.3	- .6	.1	11.7	222	15.5	185	95	66	0	0	5	0		
DEL RIO	90	70	95	68	80	2	.5	- .1	.5	4.4	107	5.7	104	78	38	3	0	2	0		
EL PASO	90	59	95	52	74	0	.2	- .2	.2	.3	51	1.8	124	63	18	4	0	2	0		
FORT WORTH	87	69	91	64	78	3	1.7	- .8	1.4	11.9	119	17.3	127	96	58	1	0	3	1		
GALVESTON	82	72	85	58	77	0	.6	- .2	.3	14.1	190	31.1	244	91	72	0	0	5	0		
HOUSTON	86	72	91	70	79	3	.3	- .8	.1	13.5	132	29.1	171	99	65	1	0	3	0		
LUBBOCK	89	61	95	58	75	4	.7	- .1	.7	2.0	51	3.7	76	97	36	2	0	1	1		
MIDLAND	89	63	96	61	76	2	.3	- .2	.2	.6	19	2.6	66	88	35	1	0	3	0		
SAN ANGELO	88	63	93	59	76	1	.8	- .2	.7	2.3	50	4.6	77	94	39	2	0	2	1		
SAN ANTONIO	89	70	93	67	80	3	.2	- .6	.1	11.3	161	18.7	181	97	54	2	0	2	0		
VICTORIA	87	71	91	69	79	1	.4	- .6	.4	16.4	220	27.2	236	99	60	1	0	2	0		
WACO	89	68	94	64	78	3	.3	- .8	.2	9.5	98	14.1	105	99	59	2	0	2	0		
WICHITA FALLS	86	65	88	63	76	2	.9	- .1	.5	5.9	71	8.6	84	97	51	0	0	3	0		
UT CEDAR CITY	73	41	80	36	57	-1	T	- .2	T	1.4	51	2.5	59	51	15	0	0	0	0		
SALT LAKE CITY	74	48	81	37	61	1	.3	- .0	.2	6.1	120	7.9	101	77	30	0	0	3	0		
VT BURLINGTON	79	47	88	33	63	5	.3	- .4	.3	8.2	113	10.4	96	87	30	0	0	1	0		
VA NORFOLK	79	61	92	56	70	2	.2	- .7	.1	11.7	121	17.2	104	90	48	1	0	2	0		
RICHMOND	80	59	93	52	69	2	.3	- .6	.2	7.5	81	12.2	78	93	56	2	0	2	0		
ROANOKE	75	56	88	47	65	-1	1.2	- .4	.7	11.7	122	17.3	111	98	61	0	0	3	1		
WA QUILLAYUTE	56	45	59	38	50	-2	.4	- .7	.3	18.4	78	47.7	95	97	71	0	0	4	0		
SEATTLE-TACOMA	62	47	67	44	55	-2	.6	- .2	.5	12.5	172	21.7	124	92	55	0	0	2	0		
SPOKANE	65	42	71	37	54	-2	.3	- .1	.3	5.0	143	7.6	100	91	37	0	0	1	0		
YAKIMA	72	41	79	32	57	-2	T	- .1	T	2.0	134	2.5	71	83	30	0	1	0	0		
WV BECKLEY	75	55	85	47	65	4	.2	- .6	.1	10.4	102	17.1	101	96	58	0	0	2	0		
CHARLESTON	84	61	92	55	73	7	T	- .8	T	10.7	102	16.3	96	98	57	1	0	1	0		
HUNTINGTON	84	63	91	57	74	8	.0	- .9	.0	12.4	116	18.1	108	95	52	1	0	0	0		
PARKERSBURG	83	61	91	55	72	7	T	- .8	T	10.7	110	16.2	107	98	50	1	0	0	0		
WI GREEN BAY	76	56	84	41	66	9	T	- .7	T	7.1	101	8.1	87	93	61	0	0	1	0		
LACROSSE	77	62	85	49	69	8	.1	- .8	.1	11.2	144	12.5	131	93	61	0	0	1	0		
MADISON	79	58	84	44	68	9	.1	- .6	.1	11.1	141	12.7	128	91	57	0	0	4	0		
MILWAUKEE	74	56	83	46	65	9	2.8	2.2	2.2	11.7	146	13.7	125	88	60	0	0	4	2		
WAUSAU	75	57	79	43	66	8	1.3	- .5	.9	10.4	134	11.7	121	90	57	0	0	3	1		
WY CASPER	74	46	82	41	60	6	.6	- .1	.5	5.5	132	6.5	124	93	33	0	0	4	0		
CHEYENNE	70	47	81	40	58	4	.4	- .2	.3	4.4	107	4.9	100	92	42	0	0	4	0		
LANDER	73	46	80	43	60	5	.7	- .1	.7	6.5	117	7.6	115	74	25	0	0	1	1		
SHERIDAN	75	49	81	45	62	8	1.0	.5	1.0	6.8	136	8.3	127	88	40	0	0	2	1		

Based on 1951-80 normals

National Agricultural Summary

May 20 - 26, 1991

HIGHLIGHTS: Above-normal temperatures through the central and eastern United States promoted development of fall and spring seeded crops. Showers over much of the eastern half of the country limited fieldwork generally to 2 to 4 days, while open weather predominated in the West and the Northeast, permitting fieldwork through most of the week.

SMALL GRAINS: Winter wheat heading advanced rapidly across the central part of the Nation, reaching 76 percent (%) headed in the nineteen major producing States. Heading progress jumped 47 percentage points in Colorado during the week, 45 points in Ohio, and over 30 points in Indiana and Nebraska. Nearly all winter wheat had headed from Kansas southward, while heading had yet to begin in Idaho and Montana. Winter wheat condition rated mostly poor in Arkansas, fair in the lower half of the Great Plains and the Pacific Northwest, and mostly good across the rest of the Nation. Disease problems associated with persistent rains were responsible for deteriorating conditions in Arkansas and sprouting in Louisiana. Moderate damage was reported in areas of central and western Kansas due to wheat streak mosaic, and foliar diseases, such as leaf rust, were increasing due to recent wet, warm weather. Scab, glume blotch, and rust were showing up in Indiana wheat fields, and scab was a concern in Missouri. Rains delayed winter wheat harvest in Florida, but harvesting was underway in most southern States. Spring wheat was 85% emerged, compared with 87% last year and the 5-year average of 83%. Spring Barley planting was well along in the Pacific Northwest.

CORN: Corn planting continued in all seventeen major producing States, reaching 86% complete by the end of the week, compared with 82% last year and 91% average. Planting progress was ahead of normal from Illinois through the Ohio Valley, but remained behind normal in the western half of the Corn Belt. Seventy percent of the Iowa crop was planted, compared with 95% average, and 72% of Minnesota's crop was planted, compared with 91% normal.

SOYBEANS: Planting progress, at 42% complete, outpaced last year's progress to date of 26%, but fell short of the 5-year average of 51%. Ohio planting reached 85% complete, compared with 54% average, and Indiana planting was 76% complete, compared with 53% average. Less than 10% of the crop was planted in Tennessee, Louisiana, and Mississippi.

COTTON: Cotton planting remained well behind normal in Texas and the Southeast, while planting was virtually complete in the Southwest. Nationwide, planting was 59% complete, compared with 82% last year and 74% average. Progress gained over 20 points in Arkansas, Georgia, Missouri, Oklahoma, and Tennessee but only 3 points in Louisiana and 12 points in Mississippi. Arizona cotton was in good condition statewide. Cotton growth was slowed by cool temperatures in California while Lygus treatments were applied to some fields. Emerged fields progressed slowly in Texas, but recent hot weather improved growing conditions. Planting was very active in the Plains and Cross

Timbers regions following recent moisture. Some producers in the Trans Pecos region were replanting because of hail damage.

GRAIN SORGHUM: Planting progress remained behind normal in the Delta but was generally near normal elsewhere. Nationally, 44% of the crop was planted, compared with 40% last year.

RICE: The Nation's rice crop was 73% planted, lagging 9 points behind last year and 20 points behind the 5-year average. Fifty-six percent of the crop had emerged, compared with 63% last year and 80% average. Rice seeding gained momentum in California, with progress jumping 30 points during the week, while progress advanced only 1 point in Louisiana. Crop conditions rated good in California, mostly fair in Arkansas and Louisiana, and poor to very poor in Texas. Louisiana producers were aerially applying herbicides.

OTHER FIELD CROPS: Rains in the Southeast made hay harvesting difficult, resulting in much overmature growth. Alfalfa cutting was getting underway in the northernmost States. Oats were being harvested in South Carolina and Texas, while planting was well along in the northern producing States. Planting of fall potatoes was nearly complete in Washington and well along elsewhere. Dry bean planting got underway in Michigan and advanced in Colorado and the Northwest. Dry pea and lentil planting was nearly complete in the Pacific Northwest. Peanut planting neared completion in the Carolina's and was well along in Georgia and Alabama. Red clover was being cut in Illinois.

FRUIT AND NUTS: Grapefruit harvest continued in western and central Arizona. California harvests of cherries, desert table grapes, and early varieties of stonefruit continued. Southern San Joaquin Valley apricot harvest began. Freeze damaged avocado orchards showed spotty regrowth. Grape vineyards were treated for mildew and grapeleaf skeletonizer. Central Valley Thompson seedless grape vineyards started to bloom. Florida fruit trees were in near excellent condition and new crop fruit showed good growth. Heavy grapefruit and Valencia drop continued. Valencia harvest slowed and grapefruit harvest was almost complete. Early apple set was reportedly good in New York.

VEGETABLES: Onion, spring lettuce, and mixed vegetable harvests continued in Arizona. Asparagus harvest remained active in California. California broccoli, cauliflower, and lettuce were in moderate supply, while celery supplies were light. Artichokes were seasonally decreasing in supply. Frequent shower activity over Florida's major vegetable producing areas

(Continued to p. 16)

Crop Progress

FOR WEEK ENDING MAY 26, 1991

COTTON
% PLANTED

	1991	1990	AVG.
AL	75	92	94
AZ	98	100	100
AR	71	86	93
CA	100	100	100
GA	70	92	88
LA	62	99	91
MS	45	95	92
MO	72	73	94
NM	96	93	94
NC	99	98	86
OK	57	41	36
SC	87	92	92
TN	41	73	93
TX	46	72	54

14 STATES 59 82 74

THESE 14 STATES PRODUCED 99%
OF THE 1990 COTTON CROP.CORN
% PLANTED

	1991	1990	AVG.
CO	92	92	94
GA	100	100	100
IL	96	70	93
IN	95	71	86
IA	70	87	95
KS	98	95	95
KY	85	55	82
MI	90	80	90
MN	72	97	91
MO	80	49	96
NE	98	91	96
NC	100	100	95
OH	98	85	84
PA	84	63	62
SD	83	80	74
TX	99	100	100
WI	81	72	87

17 STATES 86 82 91

THESE 17 STATES PRODUCED 95%
OF THE 1990 CORN CROP.RICE
% PLANTED

	1991	1990	AVG.
AR	68	65	89
CA	80	95	97
LA	81	95	95
MS	40	89	96
TX	96	99	100

5 STATES 73 82 93

THESE 5 STATES PRODUCED 98%
OF THE 1990 RICE CROP.RICE
% EMERGED

	1991	1990	AVG.
AR	49	43	74
CA	50	65	67
LA	73	90	90
MS	28	74	88
TX	84	84	96

5 STATES 56 63 80

THESE 5 STATES PRODUCED 98%
OF THE 1990 RICE CROP.SOYBEANS
% PLANTED

	1991	1990	AVG.
AL	15	35	38
AR	12	8	28
GA	20	42	41
IL	70	16	68
IN	76	28	53
IA	28	26	64
KS	35	30	30
KY	19	8	29
LA	6	50	41
MI	50	30	45
MN	38	48	67
MS	7	26	29
MO	17	5	39
NE	57	30	57
NC	39	38	29
OH	85	38	54
SC	17	38	29
SD	45	28	40
TN	4	8	32

19 STATES 42 26 51

THESE 19 STATES PRODUCED 95%
OF THE 1990 SOYBEANS CROP.GRAIN SORGHUM
% PLANTED

	1991	1990	AVG.
AR	55	57	83
CO	29	19	26
IL	46	4	51
KS	25	25	30
LA	59	89	86
MS	42	78	82
MO	23	12	55
NE	50	21	51
NM	35	62	NA
OK	19	25	26
SD	12	17	22
TX	74	77	73

12 STATES 44 40 NA

EXCL. STATES WITH NA 44 40 50

THESE 12 STATES PRODUCED 98%
OF THE 1990 GRAIN SORGHUM CROP.

	WINTER WHEAT % HEADED		
	1991	1990	AVG.
AR	99	100	100
CA	99	99	99
CO	55	39	53
GA	100	100	100
ID	0	0	0
IL	83	87	91
IN	88	64	65
KS	100	95	95
MI	15	5	5
MO	98	83	94
MT	0	0	3
NE	51	38	56
NC	100	100	96
OH	70	50	50
OK	100	97	99
OR	25	48	35
SD	8	4	16
TX	94	96	95
WA	13	26	20

19 STATES 76 72 74

THESE 19 STATES PRODUCED 91%
OF THE 1990 WINTER WHEAT CROP.

	SPRING WHEAT % EMERGED		
	1991	1990	AVG.
ID	75	94	94
MN	97	91	90
MT	65	80	77
ND	84	85	79
SD	100	100	94

5 STATES 85 87 83

THESE 5 STATES PRODUCED 97%
OF THE 1990 SPRING WHEAT CROP.

Crop Condition

PERCENT

FOR WEEK ENDING MAY 26, 1991

STATE	WINTER WHEAT				
	VP	P	F	G	EX
AR	10	42	35	13	0
CA	0	0	10	85	5
CO	4	7	26	53	10
GA	1	22	46	31	0
ID	4	7	33	44	12
IL	2	14	29	47	8
IN	6	8	25	56	5
KS	1	5	48	36	10
MI	2	5	18	55	20
MO	3	17	40	39	1
MT	9	15	33	36	7
NE	0	7	29	60	4
NC	0	0	21	73	6
OH	0	6	25	52	17
OK	3	9	70	18	0
OR	6	9	47	21	17
SD	2	5	9	56	28
TX	8	22	45	22	3
WA	0	22	50	26	2
19 STATE	3	12	42	36	7
PREV WEEK	2	15	40	37	6
PREV YEAR	1	4	27	52	16

STATE	RICE				
	VP	P	F	G	EX
AR	0	9	53	38	0
CA	0	0	10	85	5
LA	0	6	76	18	0
MS	NA				
TX	27	51	22	0	0
5 STATE	4	13	46	36	1
PREV WEEK	NA				
PREV YEAR	3	7	36	48	6

STATE	SPRING WHEAT				
	VP	P	F	G	EX
ID	0	3	15	63	19
MN	0	1	20	63	16
MT	0	2	23	60	15
ND	0	0	8	87	5
SD	0	0	2	73	25
5 STATE	0	1	12	75	12
PREV WEEK	0	1	13	73	13
PREV YEAR	1	2	24	64	9

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 2.00 to 7.00 in. northwest; 3.00 to 5.00 in. Mobile, Baldwin Counties; 1.00 to 2.00 in. elsewhere, 0.50 to 2.50 in. isolated areas. Temperatures 2 to 5° above normal most areas; near normal coast, Florida border.

Days suitable for fieldwork 2.7. Wet conditions limited fieldwork progress. Soil moisture 25% adequate, 75% surplus. Acreage intended for spring planting 85% prepared, 98% 1990, 98% avg. Fieldwork progress 100% behind. Corn 91% planted, 100% 1990, 99% avg.; 9% silked, 28% 1990, 20% avg.; 3% very poor, 10% poor, 25% fair, 45% good, 17% excellent. Sorghum 37% planted, 70% 1990, 55% avg.; 4% poor, 29% fair, 67% good. Cotton 75% planted, 92% 1990, 94% avg.; 8% very poor, 17% poor, 67% fair, 8% good. Peanuts 76% planted, 94% 1990, 86% avg.; 42% fair, 58% good. Soybeans 15% planted, 35% 1990, 38% avg. Winter wheat 87% turning color, 89% 1990, 84% avg.; 6% harvested, 22% 1990, 26% avg.; 6% very poor, 42% poor, 32% fair, 20% good. First hay 20% harvested, 52% 1990, 46% avg. Pastures 10% fair, 54% good, 36% excellent. Livestock 5% fair, 76% good, 19% excellent. Primary activities: Planting row crops; harvesting hay; applying herbicides, pesticides; harvesting peaches; general care of livestock, poultry, catfish.

ALASKA: Railbelt wide, warm, dry with little precipitation. High temperatures 1° above normal to 9° above normal. Lows 4° below normal to 3° above normal. Seasonal precipitation drier than normal at all stations except Homer.

Days suitable for fieldwork 7.0. Topsoil 31% short, 63% adequate, 6% surplus. Subsoil 11% short, 78% adequate, 11% surplus. Farm work progress on schedule up to one week behind. Barley, oat seeding over 95% complete. Emergence barley 30%; oats 50%. Commercial potato planting 70% complete. Hay fields, pastures; 6% poor, 35% fair, 54% good, 5% excellent.

ARIZONA: Sunny, warmer throughout the period; average. Temperatures 3° below to 3° above normal. Extremes 25°; 95° higher elevations, 50°; 103° deserts. No rain except northwest, trace.

Cotton 98% planted, 100% 1990, 100% avg. Activities: Irrigating, fertilizer applications, last minute planting, replanting; cotton good statewide. Small grains turning color 95%, 93% 1990, 94% avg.; harvest beginning; good statewide. Alfalfa good; weed, harvest moderate to active statewide. Dry onion harvest continued west; potatoes, dry onion, mixed vegetable harvest continued central; spring lettuce harvest continued east; grapefruit harvest continued west, central.

ARKANSAS: Temperatures above normal with numerous showers. Extremes 62°; 91°. Rainfall 0.57 to 4.26 in.

Days suitable for fieldwork 4. Soil moisture 38% adequate, 62% surplus. Farming activities: Planting cotton, rice, soybeans; controlling weeds; cutting hay; working livestock. Oats heading 100%, 100% 1990, 99% avg. Corn planted 94%, 91% 1990, 96% avg. Pasture 1% fair, 93% good, 6% excellent. Livestock good.

CALIFORNIA: A cold low pressure trough brought rain over the weekend with low snow levels to parts of northern areas. Temperatures warmed, above normal. Offshore winds, drying conditions prevailed throughout most of the State late in the week.

Field activities progressed, open weather. Dryland grains cut silage, hay; moisture stress many fields. Green chopping winter forage mixes continued. Cotton growth slowed cool temperatures. Lygus treatments some fields. Rice seeding gained momentum. Field corn planting continued. Emerged fields cultivated, irrigated. Dry edible beans good growth. Over wintered sugarbeets harvested; seeding new crop fields active. Alfalfa harvest normal; some fields received insecticide treatments. Harvest continued, cherries, desert table grapes, early variety stonefruit. Apple orchards, sprayed, codling moth. Southern San Joaquin Valley apricot harvest began. Freeze damaged avocado orchards showed spotty regrowth. Some central valley citrus groves, sprayed, thrips. Central valley Thompson Seedless grape vineyards, olive orchards started to bloom. Thinning, later variety tree fruit, ongoing. Artichokes seasonally decreasing supply. Asparagus harvest active, good quality. Broccoli moderate supply, generally good quality. Iceberg lettuce supply moderate, variable quality. Desert melon, dehydrating onion harvest active. Potato harvest continued Hemet San Jacinto area. Strawberries, good supply, central coast, variable quality. Sweet corn, sweet potato, tomato planting continued. Pasture excellent northwest, northeast, poor to fair south, fair to good north. Light supplemental feeding. Water supplies adequate.

COLORADO: Scattered rain, mostly in east, throughout week. Traces to 0.10 in. west, 0.10 to 0.30 in. east on 20th, 21st. Localized heavy rain, hail east on 22nd with tornado activity continuing on 23rd. Mostly dry west over weekend while widely scattered showers affected east. Temperatures near to slightly above normal west, San Luis Valley, 5 to 7° above normal east.

Days suitable for fieldwork 5.4. Soil moisture 9% very short, 43% short, 46% adequate, 2% surplus. Barley emerged 88%, 95% 1990, 94% avg.; oats emerged 84%, 87% 1990, 87% avg. Corn planting 92% complete, 92% 1990, 94% avg.; summer potato planting 90%, 95% 1990, 96% avg.; fall potato planting 88%, 90% 1990, 93% avg.; dry beans planting 10%, 8% 1990, 16% avg. Winter wheat 55% headed, 39% 1990, 53% avg. Winter wheat 4% very poor, 7% poor, 26% fair, 53% good, 10% excellent; corn 2% poor, 13% fair, 69% good, 16% excellent. Livestock mostly good. Pasture, range feed mostly fair.

FLORIDA: Temperatures 1 to 3° above normal. Extreme highs, mid 90s interior Peninsula; lows, upper 60s most areas. Rainfall 1.00 to 3.00 in. north; 2.00 to 4.00 in. central; 3.00 to 5.00 in. south.

Soil moisture adequate to surplus throughout State. Rains delayed wheat harvest, planting cotton, peanut, soybeans. Wet weather increased disease problems both wheat, tobacco. Cotton,

peanuts, corn, sugarcane making good progress. Pastures mostly good to excellent. Pasture ratings, 60% good, 40% excellent. Cattle herd mostly good to excellent. Rain all areas, moisture adequate. Heavy grapefruit, valencia droppage continues. Valencia harvest slowing limited supplies. Grapefruit harvest almost complete. Caretakers cutting cover crops, spraying, herbiciding. Frequent shower activity over major vegetable producing areas slowed harvest, other field activities. Harvest near complete south, active most crops central areas, increasing northern areas. Volume leaders: Potatoes, watermelons, tomatoes, sweet corn, cucumbers, peppers. Also good volume snap beans, celery, eggplant, radishes, squash, cherry tomatoes. Harvest northern area sweet corn underway.

GEORGIA: Rainfall under 0.50 in. north, isolated higher amounts mountains, to 1.00 in. central, 1.00 to 3.00 in. south, southeast. Temperatures several degrees above normal northwest, elsewhere temperatures near normal. Extremes 52°; 91°.

Days suitable for fieldwork 3.3. Soil moisture 51% adequate, 49% surplus. Corn 11% fair, 48% good, 41% excellent; 24% silked, 20% 1990, 11% avg. Development ahead of normal, good crop prospects. Cotton 24% fair, 63% good, 13% excellent; planting between showers. Sorghum 11% fair, 82% good, 7% excellent; 53% planted, 64% 1990, 58% avg. Peanuts 34% fair, 62% good, 4% excellent; 75% planted, 96% 1990, 93% avg.; 12% blooming, 10% 1990, 5% avg.; plantings latest in recent years. Soybeans 27% fair, 71% good, 2% excellent. Tobacco 60% fair, 30% good, 10% excellent; diseases widespread. Watermelons 3% poor, 44% fair, 39% good, 14% excellent; 100% planted, 100% 1990, 100% avg. Wheat 15% harvested for grain, 25% 1990, 21% avg.; harvest delayed by rain, quality declining rapidly. Rye 3% very poor, 15% poor, 47% fair, 35% good. Apples 5% fair, 95% good. Peaches 13% poor, 3% fair, 84% good; 22% harvested, 36% 1990, 16% avg. Onions 1% very poor, 99% poor; 100% harvested, 100% 1990. Hay 2% poor, 22% fair, 63% good, 13% excellent; harvest very difficult, much over mature. Pasture 2% fair, 75% good, 23% excellent. Cattle, hogs mostly good.

HAWAII: Favorable weather for agriculture. Mostly sunny, cloudy afternoons. Rainfall light to heavy isolated areas. Irrigation, regular spraying ensured normal crop growth. Winds light to moderate at 5 to 20 mph. Temperatures low 60s to high 80s. Rainfall none to 2.00 in. Days suitable for farm work 7.0. Papaya production forecast to increase. Cucumber harvesting to increase. Tomato production declining. Watermelon harvesting heavy with fair early season quality.

IDAHO: Temperatures 4° below average in north to 3° above average in south central. State received some precipitation.

Days suitable for fieldwork 6. Soil moisture 9% short, 84% adequate, 7% surplus. Winter wheat 44% not yet jointed, 50% jointed, 6% boot stage. Spring wheat 96% planted, 100% 1990, 98% avg.; 85% not yet jointed, 15% jointed. Spring barley 95% planted, 100% 1990, 96% avg.; 77% emerged, 93% 1990, 89% avg. Oats 88% planted, 95% 1990, 93% avg.; 63% emerged, 85% 1990, 82% avg. Potatoes 74% planted, 94% 1990, 83% avg.; 13% emerged, 24% 1990, 26% avg. Sugarbeets 98% emerged, 98% 1990, 97% avg.; thinned 20%, 36% 1990, 39% avg. Dry peas 93% planted, 100% 1990,

99% avg.; 77% emerged, 97% 1990, 94% avg. Lentils 95% planted, 100% 1990, 100% avg.; 76% emerged, 97% 1990, 94% avg. Field corn 72% planted, 84% 1990, 92% avg.; 29% emerged, 53% 1990, 68% avg. Dry beans 12% planted, 19% 1990, 27% avg. Irrigation water supplies were fair to good. Bloom period completed for fruit trees, fruit beginning to develop in southwest. Activities: Thinning sugarbeets, spraying fruit trees, seeding, cultivating, fertilizing, weed control. Livestock good to excellent. Pasture, range 90% of normal. Hay, roughage supplies adequate.

ILLINOIS: Temperatures above normal by 6 to 8° over the north, central sections of the State; southern normal. Precipitation across State 0.50 to 1.50 in.

Days suitable for fieldwork 3.25. Soil moisture 2% short, 63% adequate, 35% surplus. Corn 7% fair, 73% good, 20% excellent. Corn avg. height 7.00 in., most advanced 13.0 in. Emerged corn 90% of full stand, 77% 1990. Corn replant 3%. Winter wheat filled 39%, 26% 1990, 43% avg. Oats 13% fair, 81% good, 6% excellent. Pasture condition as a % of normal, where 100% = normal, was 98%. Alfalfa first cutting 32%, 9% 1990, 36% avg. Alfalfa 5% fair, 78% good, 17% excellent. Red clover cut 14%, 4% 1990, 28% avg. Red clover 8% fair, 70% good, 22% excellent.

INDIANA: Temperatures 4 to 8° above normal. Lows mid to upper 60s, highs upper 70s to low 80s. Precipitation 0.50 to 1.00 in.

Days suitable for fieldwork 4.0. Topsoil 9% short, 65% adequate, 26% surplus. Subsoil 1% short, 76% adequate, 23% surplus. Corn 86% emerged, 60% 1990, 73% avg.; 11% excellent, 74% good, 15% fair. Oats 12 in. high, 9 in. 1990, 10 in. avg. Alfalfa hay 1st cutting 26%, 12% 1990, 29% avg. Pasture 96% of normal. Tobacco plants 37% set, 14% 1990, 18% avg. Scattered showers, high humidity. Scab, glume blotch, rust some wheat fields.

IOWA: Temperatures 7 to 10° above normal. Extremes 57°; 86°. Precipitation none to 2.51 in.; average 0.73 in.

Days suitable for fieldwork 1.8. Topsoil 23% adequate, 77% surplus. Subsoil 2% short, 35% adequate, 63% surplus. Winter wheat 2% poor, 12% fair, 74% good, 12% excellent. Hay 3% poor, 10% fair, 62% good, 25% excellent. Pasture 2% poor, 13% fair, 71% good, 14% excellent. Oat 3% poor, 18% fair, 63% good, 16% excellent. Corn 57% emerged, 62% 1990, 83% avg. Soybeans 13% emerged, 7% 1990, 33% avg. Seedbed preparation 95% completed, 100% 1990, 98% avg. Fertilizer application 95% completed, 100% 1990, 99% avg. First cutting alfalfa 3% harvested, 1% 1990, 6% avg. Feedlots extremely muddy.

KANSAS: Temperatures 3 to 5° above normal over State. Rainfall widespread; district 0.46 to 2.02 in.

Days suitable for fieldwork 3.5. Surface 17% short, 59% adequate, 24% surplus. Subsurface 54% short, 40% adequate, 6% surplus. Wheat progress continues ahead schedule; condition improved due to rains. Corn planting virtually complete; warmer weather promoting growth. Planting of sorghum, soybeans slowed because of rains. Approximately 50% alfalfa cut 1st time. Range, pastures adequate.

KENTUCKY: High temperature 83°, 3.4° above normal; average lows 65°, 11.2° above seasonal mean. Precipitation 0.90 in., 0.18 in. below seasonal mean.

Days suitable for fieldwork 3.6, considerably less west. Soil moisture 10% short, 59% adequate, 31% surplus. Many fields West too wet to work, most soil moisture shortages east. Corn planting well advanced most areas. Early corn knee high. Emerged corn 1% poor, 22% fair, 69% good, 8% excellent. Tobacco transplanting very active. Burley 48% set, 26% 1990, 32% avg. Dark tobacco about 1/3 set, delayed by wet soils. Tobacco plants are getting too big many beds. Early set tobacco mostly good. Soybean planting active where weather allowed. Early wheat turning, harvest expected to start in about 10 days. Barley harvest beginning. Pastures outstanding.

LOUISIANA: Temperatures 0.2 to 3.8° above normal. Extremes 67°; 90°. Rainfall 0.63 in. northeast to 5.28 in. southeast.

Days suitable for fieldwork 1.1. Soil moisture 6% adequate, 94% surplus. Spring plowing 79%, 94% 1990, 98% avg. Corn 35% very poor, 28% poor, 32% fair, 5% good; 100% planted, 100% 1990, 100% avg.; 99% emerged, 100% 1990, 100% avg.; 5% silked, 12% 1990, 8% avg. Cotton 43% emerged, 98% 1990, 84% avg. Flying on nitrogen. Hay 10% first cutting, 45% 1990, 46% avg. Peaches 23% poor, 12% fair, 65% good; 4% harvested, 7% 1990, 5% avg. Rice water management active, aerially applying herbicides. Sorghum 16% very poor, 48% poor, 36% fair; 56% emerged, 86% 1990, 76% avg. Soybeans 5% emerged, 38% 1990, 28% avg. Sweet potatoes 17% planted; 32% 1990, 36% avg. Sugarcane 4% poor, 72% fair, 24% good. Continued delays in fertilizing, layby. Wheat 55% very poor, 28% poor, 17% fair; 100% headed, 100% 1990, 100% avg.; 100% turning color, 96% 1990, 96% avg.; 19% harvested, 50% 1990, 36% avg. Vegetables 24% very poor, 44% poor, 27% fair, 5% good. Pastures 24% poor, 32% fair, 43% good, 1% excellent. Livestock 4% poor, 50% fair, 42% good, 4% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.17 in. Temperature 68.1°, normal 65°. Extremes 41°; 91°.

Days suitable for fieldwork 6.6. Topsoil 19% very short, 57% short, 24% adequate. Subsoil 10% very short, 24% short, 66% adequate. Small grains good. Winter wheat 35% turning, 4% 1990, N/A avg. Barley 85% turning, 45% 1990, 46% avg. Rye 35% turning, 18% 1990, 21% avg. Oats 30% headed, 18% 1990, 18% avg. Corn 94% planted, 85% 1990, 81% avg. Soybeans 38% planted, 18% 1990, 19% avg. Sorghum 53% planted, N/A 1990, N/A avg. Tobacco 45% transplanted, 53% 1990, 30% avg. Sweet corn 82% planted, 75% 1990, 72% avg. Watermelons 85% planted, 84% 1990, 86% avg. Cantaloupes 78% planted, 84% 1990, 80% avg. Cucumbers 80% planted, 60% 1990, 80% avg. Lima beans 73% planted, 47% 1990, 47% avg. Snap beans 68% planted, 61% 1990, 58% avg. Tomatoes 93% planted, 92% 1990, 84% avg. Other hay first cut 36% complete, 25% 1990, 22% avg. Alfalfa hay first cut 70% complete, 33% 1990, 45% avg. Hay supplies adequate. Pasture good. Strawberries 23% harvested, 18% 1990, N/A avg. Activities: Soil preparation; planting corn, soybeans, sorghum, vegetables, oats, tobacco; harvesting hay, strawberries; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

DELAWARE: Precipitation 0.04 in. Temperature 66.7°, normal 65.4°. Extremes 38°; 91°.

Days suitable for fieldwork 7. Topsoil 29% very short, 71% short. Subsoil moisture 14% very short, 57% short, 29% adequate. Small grains good. Winter wheat 25% turning, 16% 1990, N/A

avg. Rye 31% turning, 65% 1990, N/A avg. Oats 75% heading, 93% 1990, N/A avg. Soybeans 27% planted, 23% 1990, 21% avg. Sorghum 47% planted, N/A 1990, N/A avg. Sweet corn 65% planted, 72% 1990, 81% avg. Watermelons 93% planted, 88% 1990, 73% avg. Cantaloupes 90% planted, 83% 1990, 69% avg. Cucumbers 40% planted, 72% 1990, 64% avg. Lima beans 20% planted, 16% 1990, 41% avg. Snap beans 45% planted, 63% 1990, 54% avg. Tomatoes 67% planted, 77% 1990, 76% avg. Other hay first cut 60% complete, 58% 1990, 52% avg. Alfalfa hay first cut 67% complete, 49% 1990, 62% avg. Hay supplies adequate. Pasture good. Activities: Soil preparation; planting corn, soybeans, sorghum, vegetables; harvesting hay, strawberries; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

MICHIGAN: Temperatures 5 to 16° above normal. Extremes 36°; 89°. Precipitation 0.44 to 3.15 in. across the State.

Days suitable for fieldwork 6. Soil moisture 15% short, 70% adequate, 15% surplus. Corn 90% planted, 80% 1990, 90% avg.; 50% emerged, 50% 1990, 60% avg.; 5% poor, 15% fair, 50% good, 30% excellent. Dry beans 5% planted, 0% 1990, 2% avg. Soybeans 50% planted, 30% 1990, 45% avg. Winter wheat 15% headed, 5% 1990, 5% avg.; 2% very poor, 5% poor, 18% fair, 55% good, 20% excellent. Pasture 95% of normal. Major activities: Planting corn, soybeans, potatoes, dry beans.

MINNESOTA: Temperatures 8 to 13° above normal. Extremes 36°; 89°. Precipitation 0.29 to 1.80 in. Greatest weekly total 2.76 in.

Days suitable for fieldwork 3.9. Topsoil 2% very short, 13% short, 56% adequate, 29% surplus. Subsoil 4% very short, 27% short, 51% adequate, 18% surplus. Spring wheat 88% not jointing, 91% 1990, 90% avg.; 12% jointing, 9% 1990, 10% avg. Oats 85% not jointing, 86% 1990, 87% avg.; 15% jointing, 14% 1990, 13% avg. Barley 88% not jointing, 91% 1990, 93% avg.; 12% jointing, 9% 1990, 7% avg. Field corn 72% acreage planted, 91% 1990, 91% avg.; 42% emerged 47% 1990, 66% avg. Soybeans 38% acreage planted, 48% 1990, 67% avg.; 14% emerged, 11% 1990, 26% avg. Potatoes 77% planted, 84% 1990, 78% avg. Dry beans 59% planted, 74% 1990, 67% avg. Flax 89% planted, 81% 1990, 63% avg. Sunflowers 78% planted, 75% 1990, 60% avg. Sweet corn 36% planted, 62% 1990, 66% avg. Green peas 66% planted, 82% 1990, 89% avg. Field corn 2% very poor, 2% poor, 33% fair, 59% good, 4% excellent. Spring wheat 1% poor, 20% fair, 63% good, 16% excellent. Barley 1% very poor, 19% fair, 65% good, 15% excellent.

MISSISSIPPI: Temperature 76°, 3° above normal. Extreme 64°; 91°. Mostly wet statewide. Statewide avg. 2.54 in., 1.48 in. above normal. Soil temperature 78°.

Days suitable for fieldwork 2.7, 2.7 1990, 4.0 avg. Soil moisture 27% adequate, 44% surplus, 29% excessive. Corn 66% planted, 93% 1990, 96% avg.; 64% emerged, 86% 1990, 92% avg.; 8% very poor, 18% poor, 43% fair, 26% good, 5% excellent. Cotton 45% planted, 95% 1990, 92% avg.; 34% emerged, 85% 1990, 82% avg.; 1% very poor, 12% poor, 55% fair, 24% good, 8% excellent. Peanuts 52% planted, 44% 1990, 66% avg. Rice 40% planted, 89% 1990, 96% avg.; 28% emerged, 74% 1990, 88% avg. Sorghum 42% planted, 78% 1990, 82% avg.; 40% emerged, 76% 1990, 74% avg.; 39% poor, 25% fair, 30% good, 6% excellent. Soybeans 7% planted, 26% 1990, 29% avg.; 5% emerged, 18% 1990, 20% avg. Sweet potatoes 23% planted, 30% 1990, 52% avg. Watermelons 82% planted, 94% 1990, 90% avg. Wheat 65% mature, 44% 1990, 42% avg.; harvested

4%, 2% 1990, 3% avg.; 12% very poor, 56% poor, 21% fair, 9% good, 2% excellent. Hay harvested 8%, 23% 1990, 24% avg. Peaches harvested 3%; 13% poor, 48% fair, 38% good, 1% excellent. Livestock 13% fair, 64% good, 23% excellent. Pasture 86% of normal. Activities: Planting row crops.

MISSOURI: Temperatures 3 to 9° above normal, warmest east central. Rainfall 1.50 in., 0.50 in. east central to over 2.00 in. northeast, west central.

Days suitable for fieldwork 2.1. Topsoil 1% short, 32% adequate, 67% surplus. Corn planted by district 54% south central, 68% normal central to 92% west central, 96% southwest; 5% poor, 49% fair, 45% good, 1% excellent. Single crop soybean planting as low as 8% southeast to 35% or more central, east central, southeast. Sorghum planting less than 10% north central, northeast, 21% to 45% rest of State. Cotton 10% poor, 60% fair, 30% good. Wheat headed 88% to 96% northern third of State, virtually complete elsewhere; turning color ranges 4% or less all northern districts to 72% southeast. Alfalfa hay first cutting 27%, 8% 1990, 45% avg. Other hay 11%, 3% 1990, 19% avg. Pasture 5% fair, 58% good, 37% excellent.

MONTANA: Weather Data Not Available.

Days suitable fieldwork 4.8. Topsoil 10% short, 79% adequate, 11% surplus. Subsoil 34% short, 59% adequate, 7% surplus. Winter wheat in boot 5%, 12% 1990, 22% avg. Spring wheat planted 93%, 97% 1990, 95% avg. Barley planted 87%, 94% 1990, 94% avg.; emerged 60%, 67% 1990, 72% avg.; 1% poor, 22% fair, 57% good, 20% excellent. Oats planted 85%, 97% 1990, 91% avg.; emerged 50%, 65% 1990, 71% avg.; 3% poor, 17% fair, 66% good, 14% excellent. Sugarbeets planted 100%; emerged 72%; 2% very poor, 4% poor, 12% fair, 69% good, 13% excellent. Corn planted 76%, emerged 27%. Dry beans planted 71%, 83% 1990, 83% avg. Potatoes planted 48%, 79% 1990, 65% avg.; emerged 5%. Pasture, range feed 84%. Cattle, calves moved to summer ranges 52%, 62% 1990, 65% avg. Sheep, lambs moved 53%, 51% 1990, 61% avg.

NEBRASKA: Temperatures 4 to 8° above normals. Scattered precipitation, varying 0.05 to 2.33 in.

Days suitable for fieldwork 3.6. Topsoil 24% short, 73% adequate, 23% surplus. Subsoil 31% short, 67% adequate, 2% surplus. Wheat 7% poor, 29% fair, 60% good, 4% excellent; 98% jointed, 99% 1990, 97% avg.; 51% headed, 38% 1990, 56% avg. Corn 98% planted, 91% 1990, 96% avg.; 79% emerged, 66% 1990, 75% avg.; good to excellent. Sorghum 50% planted, 21% 1990, 51% avg.; 23% emerged, 6% 1990, 25% avg. Soybeans 57% planted, 30% 1990, 57% avg.; 24% emerged, 9% 1990, 28% avg. Alfalfa 4% first cutting harvested, 4% 1990, 17% avg.; 1% poor, 21% fair, 60% good, 18% excellent. Pasture, range 88% of normal.

NEVADA: Temperatures below normal Extremes 20°; 106°. Precipitation none to 0.86. Precipitation included snow across northern areas, extreme south receiving some moisture.

Pastures improving with moisture. Livestock good; calving, lambing complete most areas. Movement continues to spring, summer ranges.

NEW ENGLAND: Precipitation none to 0.42 in. Temperatures high 50s to low 60s northern Maine, high 50s to mid 60s elsewhere north, low to high 60s south; 5 to 8° above normal across the

region. Maximum temperatures low 80s north to low 90s south; minimum temperatures low 30s north to high 40s south.

Days suitable for fieldwork 6.6. Soil moisture 3% very short, 36% short, 51% adequate, 10% surplus. Grazing availability 1% very short, 10% short, 60% adequate, 29% surplus. Fieldwork 5 days ahead of schedule. Maine potatoes 87% planted, 67% 1990, 72% avg.; good. Rhode Island potatoes 83% planted, 65% 1990, 89% avg.; 48% emerged, 17% 1990, 34% avg.; good. Connecticut River Valley potatoes 83% planted, 80% 1990, 90% avg.; 58% emerged, 41% 1990, 64% avg.; good. Maine oats 90% planted, 85% 1990, 77% avg.; good to excellent. Field corn 70% planted, 56% 1990, 59% avg.; 44% emerged, 20% 1990, 27% avg.; good. Sweet corn 69% planted, 57% 1990, 61% avg.; 52% emerged, 30% 1990, 37% avg.; good. Started first cut of hay; good. Connecticut tobacco 70% transplanted, good. Major activities: Application of spray materials, planting corn, fertilizer application, soil preparation.

NEW JERSEY: Temperatures much above normal. Extremes 34°; 96°. Rainfall 0.07 in. north, none central, south. Heaviest 24 hour 0.18 in. on 25th, 26th. Estimated soil moisture percent field capacity 68% north, 50% central, 35% south. Four inch soil temperature 65° north, central, 66° south.

Record heat, high humidity hurting spring vegetables. Scattered weekend showers beneficial, most areas could use a good rain. Irrigation in full use many areas. Summer vegetable planting well advanced. Strawberry harvest active. Field corn up 8 in. Early soybeans up 2 to 3 in. Fall sown grain maturing. Hay making active; yields very good. Pasture growth good, rain would be beneficial.

NEW MEXICO: Northern two thirds of State received much needed rain during the week. Showers, thunderstorms numerous 21st to 23rd as an upper level disturbance held stationary over northern mountains. Temperatures across the north, near normal or slightly below normal. Southern desert, south eastern plains areas remained 2 to 5° warmer than normal. Precipitation light across the southwest districts.

Days suitable for fieldwork 5.1. Soil moisture 52% short, 40% adequate, 8% surplus. Alfalfa 9% poor, 38% fair, 53% good. Cotton 30% fair, 70% good. Corn 21% fair, 69% good, 10% excellent. Irrigated wheat 59% fair, 36% good, 5% excellent. Dryland wheat 22% very poor, 56% poor, 11% fair, 11% good. Chile 16% poor, 33% fair, 35% good, 16% excellent. Onions 25% fair, 75% good. Onion harvest began in late week. Lettuce good, harvest winding down. Cattle, sheep poor to good. Range, pasture 59% of normal, 25% to 105%.

NEW YORK: Cool weather dominated early. Highs mid 60s to mid 70s. Lows mid 30s to mid 40s. Below freezing temperatures some areas. Weather warmed by midweek, highs 80s, low 90s, lows 50s. Rainfall was well below normal. Many areas no rainfall. Scattered thunderstorms, light rainfall at weekend brought 0.25 to 0.50 in. of rain to some regions.

Days suitable for fieldwork 6.7. Soil moisture short to adequate. Excellent weather for outside activities prevailed. Many areas need rain. Pastures 95% of normal. Hay good, first cutting underway. Wheat good to excellent. Oats 96% seeded, 84% 1990, 87% avg. Corn 74% planted, 39% 1990, 53% avg. Early planted fields emerging. Chemical thinning of apple crop underway. Lake Ontario region apple crop generally good.

Localized freeze damage in Champlain Valley region. Weather has been very good for pollination. Early fruit set good. Vegetable planting continued active. Early strawberries in Hudson Valley being picked. Muckland soil becoming dry. Irrigation active in some areas. Orange County onions good.

NORTH CAROLINA: Temperatures about normal across the State. Extremes 44°; 95°. Precipitation none to 3.14 in.

Days suitable for fieldwork 4.0. Soil moisture 2% very short, 9% short, 64% adequate, 25% surplus. Crop condition: Wheat 21% fair, 73% good, 6% excellent; oats 19% fair, 77% good, 4% excellent; pasture 1% poor, 8% fair, 73% good, 18% excellent; tobacco 10% fair, 77% good, 13% excellent; corn 1% poor, 14% fair, 74% good, 11% excellent; cotton 18% fair, 77% good, 5% excellent; peanuts 13% fair, 76% good, 11% excellent; soybeans 1% poor, 17% fair, 77% good, 5% excellent; hay 1% poor, 13% fair, 79% good, 7% excellent; Irish potatoes 22% fair, 58% good, 20% excellent. Peanuts planted 94%; soybeans planted 39%; burley tobacco transplanted 50%; sweet potatoes transplanted 36%. Hay first cutting 53%. Major activities: Planting corn, cotton, soybeans, peanuts, sorghum, truck crops; land preparation; hay harvest; transplanting tobacco. Other activities included: Harvesting truck crops; harvesting small grains, peaches; transplanting sweet potatoes; cultivating, spraying field crops; tending livestock.

NORTH DAKOTA: Warm, scattered showers across State. Temperatures 10° above normal south central to 13° above normal northwest, northeast, east central. Extremes 41° north central, northeast; 91° southeast. Precipitation 0.25 in. southwest to 1.63 in. northeast.

Days suitable for fieldwork 5.5. Soil moisture supply greatly improved over 1990. Topsoil 18% short, 78% adequate, 4% surplus. Subsoil 11% very short, 65% short, 24% adequate. Small grain planting nearly complete, development near 5 year average. Spring wheat 8% fair, 87% good, 5% excellent; 84% emerged and beyond, 85% 1990, 79% avg. Durum wheat 7% fair, 92% good, 1% excellent; 72% emerged and beyond, 74% 1990, 68% avg. Oats 14% fair, 82% good, 4% excellent; 79% emerged and beyond, 82% 1990, 78% avg. Barley 4% fair, 93% good, 3% excellent; 88% emerged and beyond, 87% 1990, 82% avg. Winter wheat 17% fair, 80% good, 3% excellent; 73% jointing and beyond, 44% 1990, 67% avg. Late season crop planting ahead of average. Corn 88% planted, 80% 1990, 72% avg.; flax 78%, 71% 1990, 62% avg.; potatoes 92%, 79% 1990, 83% avg.; soybeans 86%, 69% 1990, 59% avg.; dry beans 75%, 58% 1990, 51% avg.; sunflowers 56%, 54% 1990, 44% avg. Post emerged herbicide applications for broadleaf control 19% complete, wild oats 37%. Cutworms, grasshopper damage some areas. Pasture conditions improved over last week to 74% of normal, furnished 85% roughage requirements. Stockwater supplies 11% very short, 40% short, 48% adequate, 1% surplus.

OHIO: High temperatures in low to mid 80s; up to 12° above normal. Lows in low to mid 60s; 10 to 14° above normal. Precipitation widely over 2.00 in. at Toledo to almost none in much of the south, east. Relative humidity was high with minimum values averaging over 50%. Base 50 growing degree day accumulations 160 to 180; 60 to 80 above normal for the period.

Days suitable for fieldwork 6.4. Soil moisture 48% short, 47% adequate, 5% surplus. Activities: Planting spring crops, rotary hoeing to break crusts, incorporate herbicides, applying sprays, fertilizer, harvesting hay.

Corn good; emergence 82%, 69% 1990, 66% avg. Few cutworms detected. Soybeans good; germination some varied from of the best to waiting for rain. Emergence 54%, 21% 1990, 34% avg. Winter wheat good; no significant insect or disease problems. Hay stands, pasture good to excellent. Curing periods long because of morning dew, fog. Alfalfa weevils in a few areas. Strawberry picking moving northward; overall harvest 10% complete. Transplanting tomatoes for processing 76% complete, 24% 1990, 58% avg. Tobacco setting continued.

OKLAHOMA: Temperatures 2° above normal south central to 6° above normal northeast. Precipitation 0.29 in. southeast to 3.24 in. southwest.

Days suitable for fieldwork 4.3. Topsoil 11% short, 42% adequate, 47% surplus. Subsoil 20% short, 80% adequate. Wheat 3% very poor, 9% poor, 70% fair, 18% good; 100% heading, 97% 1990, 99% avg.; 67% soft dough, 34% 1990, 62% avg.; 1% harvested, 0% 1990, 2% avg. Cotton 57% planted, 41% 1990, 36% avg.; 20% up to stand, 22% 1990, 21% avg. Sorghum 19% planted, 25% 1990, 26% avg.; 11% up to stand, 8% 1990, 13% avg. Corn 92% planted, 87% 1990, 99% avg. Soybeans 46% planted, 15% 1990, 38% avg. Peanuts 20% planted, 39% 1990, 48% avg. Pasture 93%. Cattle good, marketings average, prices down slightly.

OREGON: Temperatures below normal east, west areas; precipitation 0.10 to 0.20 in. west, 0.40 to 0.70 in. east; 1.25 to 2.30 in. fell, northeast.

Soil moisture 19% short, 67% adequate, 14% surplus. Barley 90% planted, 93% 1990, 96% avg. Wet weather delayed field work east, west. Early vegetable crops growing fairly well, Willamette Valley; snap beans, sweet corn delayed by weather; crops good in Umatilla Co. Seed potato planting start expected weather permitting, Wallowa Co.; 80% complete, Klamath Co. Wet, cool weather delayed strawberries 7 to 10 days, Willamette Valley. Raspberries one week late; other caneberries behind normal. Very light tree fruit sets sweet, tart cherries, peaches. Severe freeze damage older sweet cherry trees, The Dalles area. Possible winter injury to younger pear, apple trees, upper Hood River Valley.

PENNSYLVANIA: Hot, dry weather continued across the Commonwealth. Temperature 68°, 9° above normal. Extremes 37°; 96°. Precipitation 0.17 in., 0.65 in. below normal.

Days suitable for fieldwork 6. Soil moisture 61% short, 39% adequate. Plowing 95% complete, 89% 1990, 90% avg. Corn 84% planted, 63% 1990, 62% avg. Soybeans 46% planted, 21% 1990, 26% avg. Oats 99% planted, 95% 1990, 96% avg. Potatoes 91% planted, 73% 1990, 78% avg. Barley 16% pre boot, 18% 1990, 17% avg.; 11% boot, 19% 1990, 20% avg.; 73% heading or headed, 63% 1990, 63% avg. Wheat 15% pre boot, 25% 1990, 27% avg.; 28% boot, 40% 1990, 39% avg.; 57% heading or headed, 35% 1990, 34% avg. Wheat 3% poor, 20% fair, 53% good, 24% excellent. Oats 2% poor, 22% fair, 53% good, 22% excellent. Hay stands mostly good. Alfalfa first cutting 39% complete, 12% 1990, 12% avg. Feed from pastures 4% poor, 42% fair, 54% good. Peaches 1% pink, 1% 1990, 2% avg.; 99% full bloom or past, 99% 1990, 98% avg. Cherries 0% pre pink, 0% 1990, 1% avg.; 1% pink, 0% 1990, 2% avg.; 99% full bloom or past, 100% 1990, 97% avg. Apples 0% pre pink, 1% 1990, 1% avg.; 1% pink, 4% 1990, 5% avg.; 99% full bloom or past, 95% 1990, 94% avg. Activities: Spring plowing, planting; caring for livestock.

PUERTO RICO: Data Not Available.

SOUTH CAROLINA: Temperatures 1 to 2° above normal. Rainfall 0.80 in. northeast to 1.80 in. mountains.

Days suitable for fieldwork 4.2. Soil moisture 93% adequate, 7% surplus. Cotton 1% poor, 18% fair, 81% good; 87% planted, 92% 1990, 92% avg. Peanuts fair to good; 94% planted, 91% 1990, 81% avg. Watermelons fair to good; 89% planted, 90% 1990, 93% avg. Cantaloupes fair to good; 85% planted, 87% 1990, 89% avg. Peaches good; 2% harvested, 9% 1990, 6% avg. Cucumbers fair to good; 92% planted, 93% 1990, 93% avg. Snap beans fair to good; 74% planted, 79% 1990, 86% avg. Soybeans 17% planted, 38% 1990, 29% avg. Sorghum 37% planted, 48% 1990, 40% avg. Barley fair to good; 72% turning color, 79% 1990, 69% avg.; 34% ripe, 27% 1990, 21% avg.; 5% harvested, 2% 1990, 3% avg. Oats fair to good; 90% turning color, 92% 1990, 78% avg.; 52% ripe, 51% 1990, 37% avg.; 5% harvested, 16% 1990, 8% avg. Rye fair to good; 83% turning color, 81% 1990, 78% avg.; 51% ripe, 46% 1990, 33% avg.; 8% harvested, 10% 1990, 5% avg. Wheat fair to good; 90% turning color, 95% 1990, 80% avg.; 56% ripe, 55% 1990, 35% avg.; 6% harvested, 10% 1990, 7% avg. Grain hay fair to good; 62% harvested, 82% 1990, 74% avg. Pastures fair to good.

SOUTH DAKOTA: Scattered thunderstorms brought varied amounts of rain to State. Much of central, Black Hills received over 2.00 in., highest 2.56 in. Most locations above normal precipitation for the year. Rainfall 1.47 in. below to 6.02 in. above normal. Temperatures near normal. Extremes 38°; 87°.

Days suitable for fieldwork 3.2. Topsoil 2% short, 77% adequate, 21% surplus. Subsoil 2% very short, 24% short, 70% adequate, 4% surplus. Rye 4% fair, 45% good, 51% excellent. Oats 2% poor, 5% fair, 69% good, 24% excellent. Barley 4% fair, 73% good, 23% excellent. Livestock 1% poor, 3% fair, 66% good, 30% excellent. Pasture 96% of normal.

TENNESSEE: Heavy rainfall statewide. Problems getting hay harvested, planting, especially cotton. Above normal temperatures statewide; highs 80s, lows 60s. Rainfall above normal.

Days suitable for fieldwork 3.5. Soil moisture 63% adequate, 37% surplus. Corn 62% planted, 77% 1990, 92% avg.; very poor, 11% poor, 34% fair, 53% good, 2% excellent. Cotton 32% planted, 73% 1990, 93% avg.; 20% very poor, 18% poor, 36% fair, 26% good. Sorghum 14% planted, 37% 1990, 70% avg.; 2% poor, 14% fair, 66% good, 18% excellent. Soybeans 4% planted, 8% 1990, 32% avg. Tobacco 43% transplanted, 50% 1990, 50% avg.; 1% poor, 24% fair, 71% good, 4% excellent. Wheat 53% turning color, 48% 1990, 50% avg.; 12% very poor, 25% fair, 32% good, 31% excellent. Alfalfa 43% 1st cutting, 63% 1990, 83% avg. Hay 2% poor, 14% fair, 66% good, 18% excellent. Pastures 5% fair, 77% good, 18% excellent.

TEXAS: Showery weather occurred over much of State. Weather maker for eastern areas was a gulf disturbance while several upper air disturbances triggered thunderstorms over western areas. Temperatures ran slightly below normal in far southern areas, near to slightly above normal elsewhere. Rainfall amounts below normal except for Trans Pecos, High Plains, northern Low Plains areas.

Crops: Small grain fields continued to mature. Wheat 4% harvested, 5% 1990, 5% avg. Statewide wheat 56% of normal compared with 69% 1990. Corn fields had another week of excellent growth as planting, cultivating, side dressing continued on Plains. Excessive moisture continued to slow growth of some fields East

Texas, warmer drier weather should help. Corn 27% silked, 13% 1990, 21% avg.; 1% doughing, 0% 1990, 3% avg.; 86% of normal compared with 87% 1990. Sorghum fields remained good shape across State. Wet fields beginning to dry out. Heading common as far north as Blacklands. Planting, cultivating operations continued on Plains. Sorghum 22% headed, 15% 1990, 18% avg.; 2% turning color, 0% 1990, 1% avg.; 85% of normal compared with 83% 1990. Cotton fields made slow progress across State, recent hot weather improved growing conditions. Planting very active on Plains, Cross Timbers following recent moisture. Cotton 1% squaring, 9% 1990, 8% avg.; 3% setting bolls, 1% 1990, 2% avg.; 86% of normal compared with 82% 1990. Most early rice fields entering panicle development stage with some fields showing heads. Fields in Blacklands making good growth, planting operations also weather delayed. Peanut planting on Low Plains made another full week of progress despite on and off showers. Other Field Crops: Oats 13% harvested, 12% 1990, 13% avg. Peanuts 13% planted, 12% 1990, 21% avg. Soybeans 40% planted, 51% 1990, 41% avg. Sunflowers 20% planted, 29% 1990, 18% avg.

Commercial Vegetables: Rio Grande Valley, melon, pepper harvest continued on limited basis, yields remained good. Sweet potato whitefly populations increasing in melon fields. San Antonio Winter Garden grasshoppers problems. Onion, cabbage harvest continued. Pepper plants progressing well. Watermelons continued fruit setting. Plains, potatoes, onions, early carrot crops continued well. Chile plants good progress. Watermelon planting underway. Peach harvest made another full week of steady progress. Pecan spraying for nut case bearers.

Range and Livestock: Recent rains on Plains, Trans Pecos stimulated forage production, reduced some supplemental feeding. Moisture needed. Hay harvesting activities continued increasing across State, weather continued interrupting progress. Range, pasture 1% very poor, 15% poor, 33% fair, 39% good, 12% excellent.

UTAH: Temperature maximums, minimums 1° below normal. No precipitation in south, light to moderate elsewhere.

Days suitable for fieldwork 5.9. Soil moisture 29% short, 44% adequate, 27% surplus. Winter wheat 23% booted, 63% 1990, 58% avg. Spring wheat 43% jointed; 10% booted. Barley 50% jointed, 49% avg. Oats 79% emerged, 88% avg.; 20% jointed. Corn 84% planted, 25% emerged, 67% 1990, 58% avg. Potatoes 75% planted. First cutting alfalfa continued south. Cattle moved to summer range 33%, 67% 1990, 48% avg. Sheep moved to summer range 24%, 79% 1990, 40% avg. Range, pasture good to excellent.

VIRGINIA: Temperatures, precipitation near normal. Extremes 45°; 91°.

Days suitable for fieldwork 4.5. Topsoil 4% very short, 24% short, 60% adequate, 12% surplus. Corn 88% planted, 88% 1990, 79% avg.; 4% poor, 30% fair, 59% good, 7% excellent. Soybeans 32% planted, 33% 1990, 22% avg. Peanuts 98% planted, 100% 1990, 94% avg. Dry weather resulting in poor, erratic germination. Cotton planting completed. Flue tobacco 95% transplanted, 97% 1990, 63% avg. Fire tobacco 75% transplanted, 71% 1990, 46% avg. Burley tobacco 40% transplanted, 24% 1990, 17% avg. Sun tobacco 90% transplanted, 100% 1990, 53% avg. Wheat 6% poor, 37% fair, 51% good, 6% excellent. Barley harvest has begun. Apples, potatoes mostly good. Alfalfa 7% fair, 63% good, 30% excellent. Other hay 19% fair, 46% good, 35% excellent. Pasture 3% poor, 20% fair, 46% good, 31% excellent. Harvesting hay, barley silage, shearing sheep, staking tomatoes, planting, irrigating

vegetables, picking strawberries, cultivating, irrigating tobacco, spraying for potato beetles.

WASHINGTON: Temperatures 2° above normal to 7° below normal east; normal to 7° below normal west. Precipitation none to 2.32 in. east; 0.08 to 1.19 in. west.

Days suitable for fieldwork 5.9. Soil moisture 65% very short, 35% short. Hay, other roughage 4% short, 96% adequate. Range, pasture 34% poor, 66% fair. Wheat 22% poor, 50% fair, 26% good, 2% excellent. Barley 4% poor, 71% fair, 25% good. Potato 40% fair, 60% good. Dry bean 100% good. Corn 65% fair, 35% good. Spring wheat planted 99%; emerged 96%; headed 5%. Spring barley planted 100%; emerged 94%; headed 6%. Potatoes planted 99%; emerged 79%. Dry beans planted 50%. Corn planted 79%. Alfalfa hay, 1st cutting 25%. Planting of spring crops completed in Whitman County. Strawberries, raspberries, green peas in bloom. Early areas of strawberries beginning to ripen.

WEST VIRGINIA: Temperature 72°. Extremes 44°; 95°. Precipitation 0.08 in.

Days suitable for fieldwork 5.8. Soil moisture 7% very short, 63% short, 30% adequate. Wheat, good. Barley, excellent. Corn 89% planted, 70% emerged. Oats good, 100% planted, 93% emerged. Gardens, 20% fair, 75% good, 5% excellent; 75% planted, 56% emerged. Tobacco good, 97% emerged, 24% set. Hay 11% fair, 66% good, 23% excellent, 21% first cutting. Apples, peaches good. Pastures 12% fair, 82% good, 6%

excellent; 101% of normal. Cattle, sheep good. Hay supplies 68% adequate, 32% surplus. Other feed adequate. Farm activities: General maintenance, fencing, cutting hay, planting corn.

WISCONSIN: Temperature 69°, 9° above normal. Extremes 33°; 90°. Precipitation 0.30 to 1.90 in. Rainfall since April 1 is 134% of normal as of 26th.

Days suitable for fieldwork 5.0. Soil moisture 4% short, 74% adequate, 22% surplus. Pasture 88% of normal, 84% 1990, 78% avg. Winter wheat 2% poor, 12% fair, 64% good, 22% excellent. Corn 1% poor, 9% fair, 68% good, 22% excellent; 81% planted, 72% 1990, 87% avg. Soybeans 54% planted, 27% 1990, 51% avg. First crop hay 3% harvested, 1% 1990, 3% avg.

WYOMING: Temperatures mostly above normal. Precipitation mostly well above normal.

Days suitable for fieldwork 4.0. Topsoil 76% adequate, 24% surplus. Spring wheat 85% planted, 100% 1990, 95% avg.; 65% emerged, 75% 1990, 80% avg. Oats 85% planted, 95% 1990, 90% avg.; 70% emerged, 65% 1990, 65% avg. Barley 90% planted, 100% 1990, 95% avg.; 85% emerged, 85% 1990, 80% avg. Sugarbeets 65% emerged, 75% 1990, 80% avg. Corn 75% planted, 80% 1990, 75% avg.; 30% emerged, 25% 1990, 25% avg. Potatoes 65% planted, 55% 1990, 60% avg.; 35% emerged, 35% 1990, 30% avg. Dry beans 15% planted, 25% 1990, 20% avg.; 0% emerged, 5% 1990. Winter wheat fair to good. Livestock mostly good. Calf, lamb losses light to normal. Ranges, pastures good to excellent. Stockwater 5% short, 95% adequate.

(Continued from front cover)

endured 6.08 inches of rain in 6 hours on Thursday. Weekly rainfall in the **New Orleans, LA**, area totaled 7.7 inches. Major river flooding continued along the middle Red River and its tributaries in **Louisiana** and parts of **Texas, Tennessee, and Mississippi**. Another batch of showers and thunderstorms slowly expanded from the **southern Plains** to the **upper Great Lakes**. Locally heavy rainfall was noted in parts of the **Dakotas and Minnesota**, as well as in the **central and southern Plains**. Midweek, rainfall totaled 4.47 inches at **Fort Sill, OK**, and 2.76 inches at **International Falls, MN**, over 2 days. The **East** continued to swelter in summer-like heat through Memorial Day weekend as temperatures soared into the nineties as far north as **southern New England**. The 96° F reading in **Philadelphia** on Saturday equaled the record for May and was the sixth 90-degree day this month, another record. Mainly afternoon and evening thunderstorms continued to fire **east of the Rockies** late in the week, with severe weather reported across the **Midwest**.

(Continued from p. 7)

decreasing in supply. Frequent shower activity over Florida's major vegetable producing areas slowed harvest and other field activities. Harvests were nearly complete in the south, active for most crops in central areas, and increasing in the north. Florida volume leaders were watermelons, tomatoes, sweet corn, cucumbers, and peppers. Record heat and high humidity was hurting spring vegetables in New Jersey. Onion harvest began in New Mexico. Texas' Rio Grande Valley melon and pepper harvests continued on limited basis. Grasshoppers continued to be a problem to many crops in the San Antonio-Winter Garden region, where onion and cabbage harvests continued. Trans Pecos onion harvest continued in full swing.

PASTURES AND LIVESTOCK: Movement of cattle and calves, as well as sheep and lambs, to summer ranges continued in the Rocky Mountains. Recent rains on the Texas Plains and Trans-Pecos regions stimulated forage production and reduced some supplemental feeding, but more moisture is still needed. Most States reported good pasture and range conditions.

International Weather and Crop Summary

HIGHLIGHTS

May 19 - 25, 1991

USSR ... In Western USSR, unseasonably cool, damp weather favors winter grains but slows summer crop planting and emergence. In the New Lands, topsoil moisture is short for newly planted spring grains.

EUROPE ... Dry and milder weather than last week promotes crop growth in the west, while wet and cool weather maintains adequate moisture in the east.

EASTERN ASIA ... Beneficial rains aid winter wheat, and scattered showers favor southern crops.

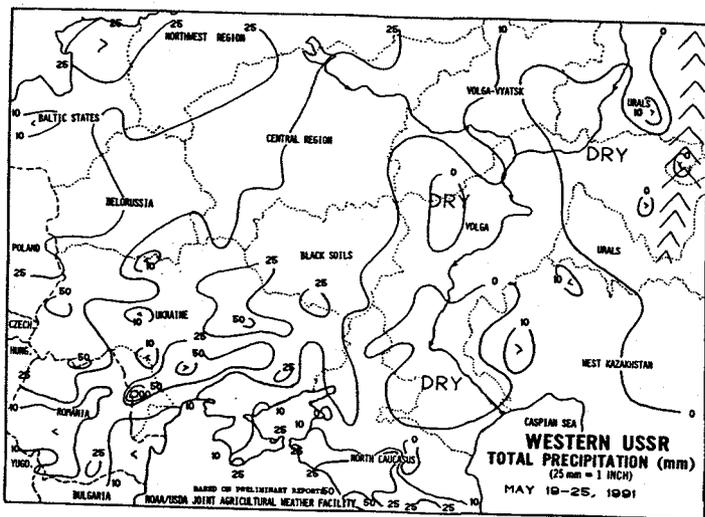
SOUTHEAST ASIA ... Showers bring relief to emerging grains over most of Thailand, but temperatures are still unseasonably hot.

SOUTH AMERICA ... Rains continue to cause intermittent harvest delays in Argentina, with only minor delays in Brazil.

AUSTRALIA ... Significant rains boost topsoil moisture in northern portions of the eastern wheat areas, with only light rains elsewhere.

CANADA ... Scattered showers and near- to above-normal temperatures favor spring wheat planting and establishment.

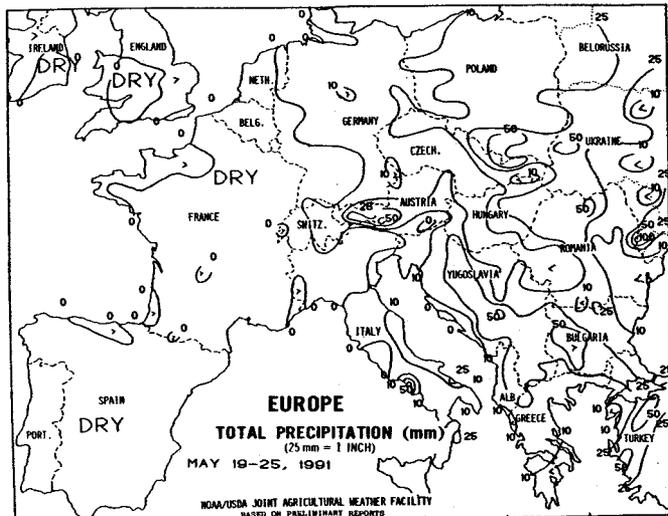
MEXICO ... Only light rains fall across eastern crop areas.



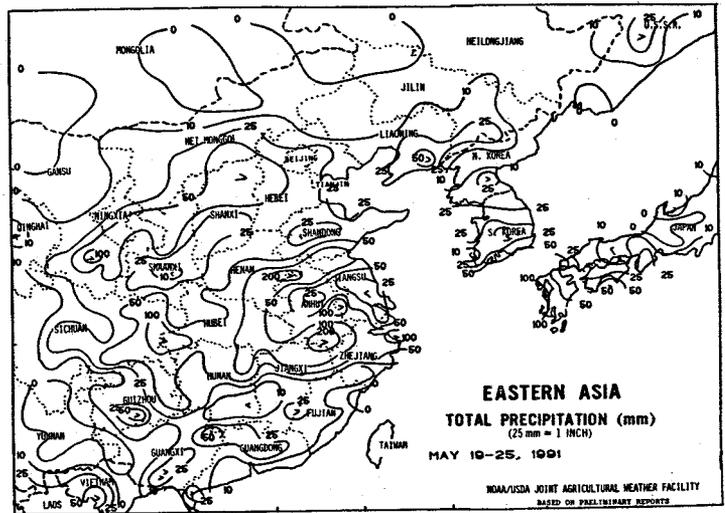
WESTERN USSR ... In Western USSR, winter grains were entering reproduction in the southern Ukraine and the North Caucasus and tillering further north. Crop progress for spring grains ranged from tillering to jointing. Summer crops including corn, sunflowers, and sugarbeets were just emerging over the region as planting was still taking place. Unseasonably cool, wet weather covered the Baltic States, Northwest Region, Central Region, Belorussia, the Black Soils Region, Ukraine, and the western portion of the North Caucasus most days during the week. Rainfall generally ranged from 20 to 40mm, with local amounts in excess of 50mm. Although the cool, wet weather favored winter and spring grains, it slowed emergence and planting of summer crops. Unseasonably warm, dry weather persisted over the Volga and Volga Vyatsk Regions, allowing rapid spring fieldwork. Weekly average temperatures were 3-4 degrees Celsius (C) below normal in the west and 2-4 degrees above normal in the east.



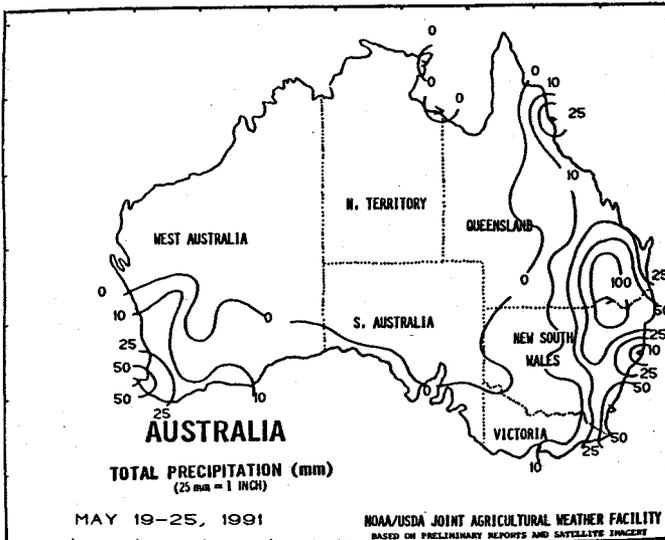
In the New Lands, spring grain planting was well underway. Reports as of May 13 indicated planting was ahead of schedule in the Urals and Kazakhstan. Little, if any, precipitation since early April along with periodic heat has reduced soil moisture. As a result, topsoil moisture for newly planted grain crops is short, and widespread rain is needed for uniform crop emergence and early plant establishment. Weekly average temperatures were 3-7 degrees C above normal in the west and 4-6 degrees C below normal in the east. In major cotton growing areas of south-central USSR, periodic showers and thunderstorms produced varying amounts of precipitation (16-67mm). Some thunderstorms were locally severe, accompanied by gusty winds, heavy downpours, and hail. The greatest damage to newly emerged cotton reportedly occurred in eastern Uzbekistan.



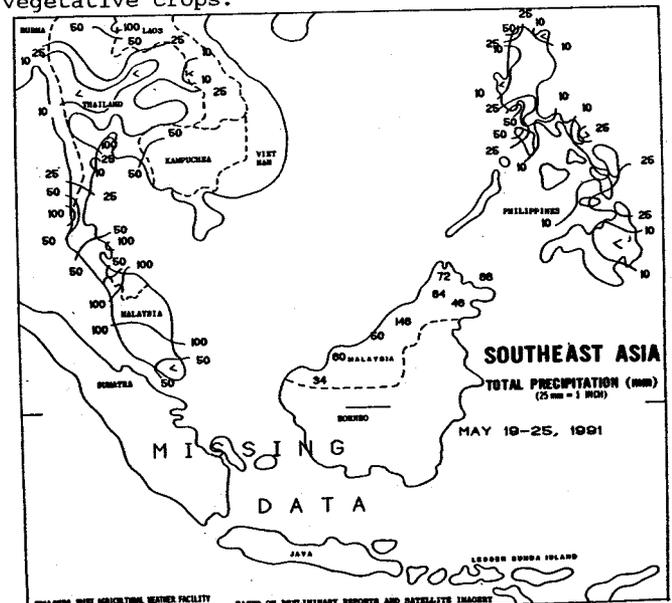
EUROPE ... Dry weather covered western Europe, favoring corn planting in France and promoting development of winter grains across the region. Winter wheat ranged from ripening in the Iberian peninsula to booting in northern growing areas. Milder weather, with weekly average temperatures ranging from 1 to 3 degrees C above normal in England, western France, and most of Spain, helped crop growth, following unseasonable cold weather. Weekly temperatures reached 6-8 degrees C above normal in Portugal, reducing soil moisture supplies. In contrast, cool, showery weather prevailed throughout eastern Europe. The heaviest weekly rainfall (25-58mm) from southern Poland to the Balkan countries maintained ample moisture for crop development. Weekly temperatures averaged 2-6 degrees C below normal in central and eastern Europe, slowing the rate of crop growth especially in the northeast where scattered frost occurred.



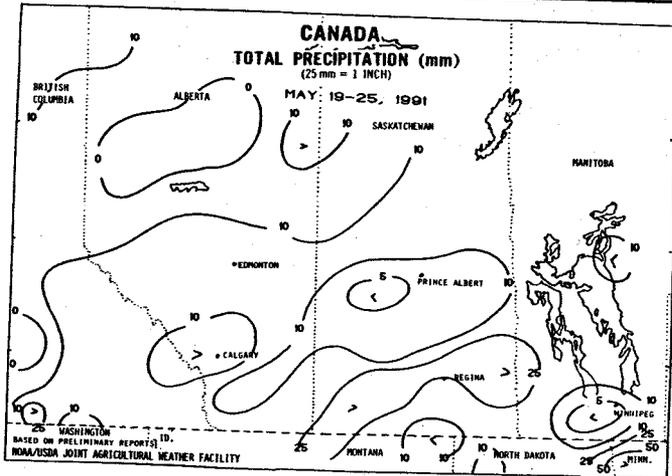
EASTERN ASIA ... Light to moderate rains (11-51mm) fell across southern Manchuria, while drier weather prevailed in the northern spring wheat areas. The North China Plain received beneficial showers (15-43mm), with heavier amounts (122-241mm) in Jiangsu, northern Anhui, and southeastern Henan, which may cause local flooding. There was some concern about a brief dry spell, but conditions are favorable for most of the winter wheat crop which should be entering the grain filling stage. Heavy showers (105-216mm) fell along portions of the Yangtze Valley in Hubei, Henan, and southern Anhui. However, most of southern China received scattered showers (10-35mm), keeping conditions favorable for vegetative crops.



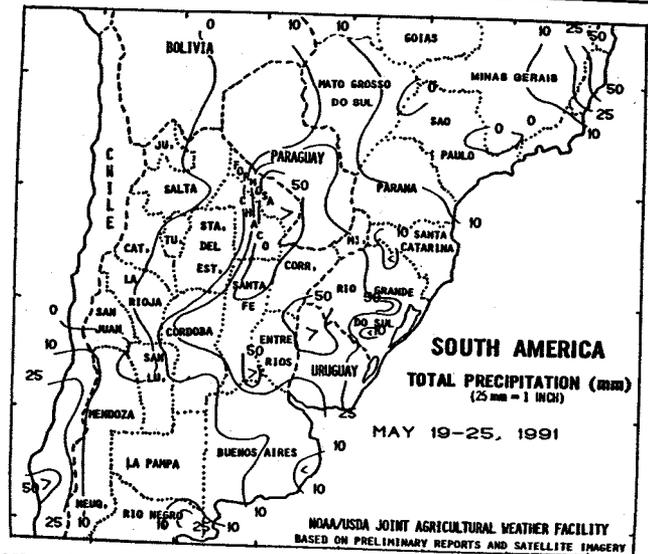
AUSTRALIA ... Beneficial moderate to heavy rains (50-161mm) fell across the wheat areas of Queensland and northern New South Wales, significantly boosting topsoil moisture and enabling planting to start. Substantial moisture should have percolated into the soil, since the rains were spread over a couple of days. However, southern New South Wales, Victoria, South Australia, and Western Australia received only light rains (less than 10mm). Temperature departures ranged 2-4 degrees C above normal throughout eastern Australia.



SOUTHEAST ASIA ... Scattered showers continued over Thailand's main rice and corn areas, with moderate to heavy amounts (25-137mm) concentrated over the Northern Hills, south-central regions near Bangkok, and local areas of the Khorat Plateau. However, pockets of light rain (15mm or less) over northern portions of the corn belt and most northeastern rice areas brought little relief from the continuing heat. More rain and milder temperatures are needed to prevent further stress on emerging grains. In the Philippines, rainfall exceeded 25mm over local areas of the central islands and parts of southern and western Luzon. Main season rice and corn planting, usually well underway by late May, is likely delayed in many areas due to the late start of the summer rainy season.

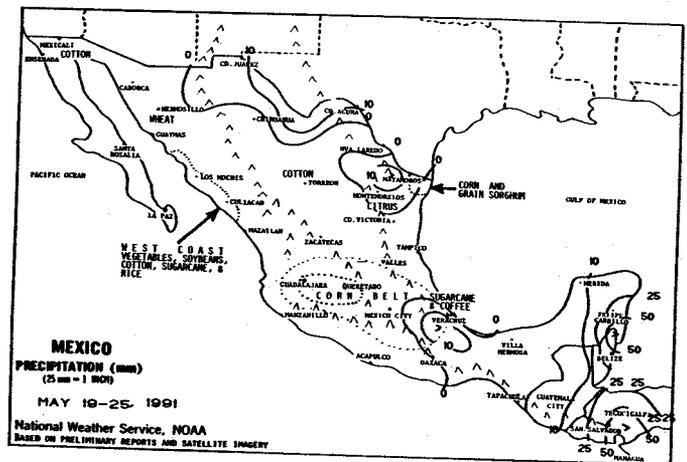


CANADA ... Moderate showers (10-45mm) continued across many spring wheat areas of the Canadian Prairies, the exceptions being north-central and southeastern Saskatchewan and southern Manitoba, all of which received less than 10mm. Unseasonably warm weather (2-6 degrees C above normal) continued over crop regions of Saskatchewan and Manitoba. Rainfall in recent weeks, intermixed with periods of warm, dry weather, has favored rapid planting progress and crop germination.



SOUTH AMERICA ... A midweek frontal system produced moderate showers (20-92mm) across the summer crop regions of Argentina, Uruguay, and extreme southern Brazil, which again delayed harvesting. However, a few dry days during the week probably enabled some harvesting to resume. Winter wheat planting started in Parana and the northern provinces of Argentina, where conditions are favorable.

MEXICO ... Only light rains fell across portions of the eastern corn belt and northeastern crop areas. The remainder of the country received little or no rain.



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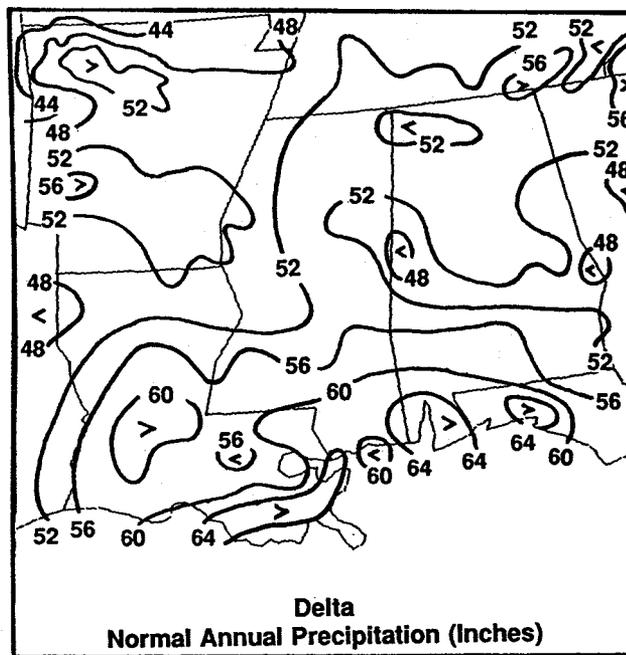
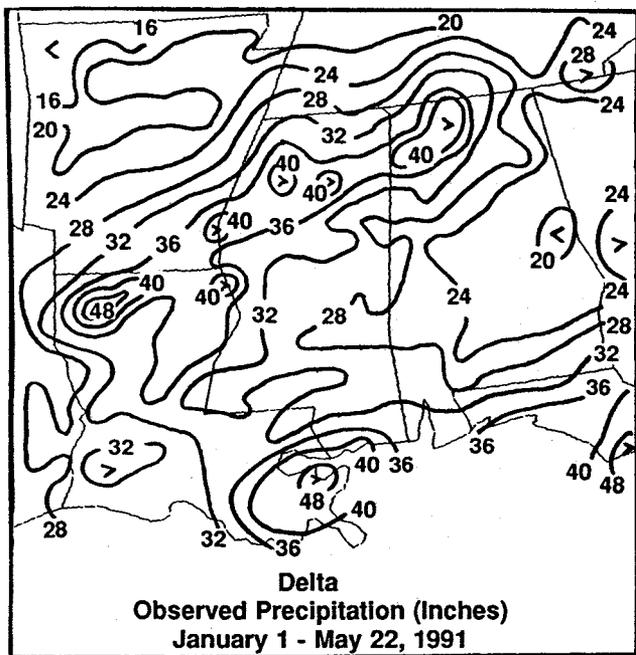
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Long-term Wetness in the Delta

Above-normal rainfall has been registered at most lower Mississippi Valley locations since mid-December 1990. Two areas have been particularly wet, with 1991 year-to-date precipitation running two to three times normal. One area extends from southeastern Louisiana to the Florida Panhandle coast. The other stretches from northern Louisiana to northern Alabama. Portions of northern Louisiana have matched or exceeded yearly normal rainfall.



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