WEEKLY WEATHER AND CROP BULLETIN

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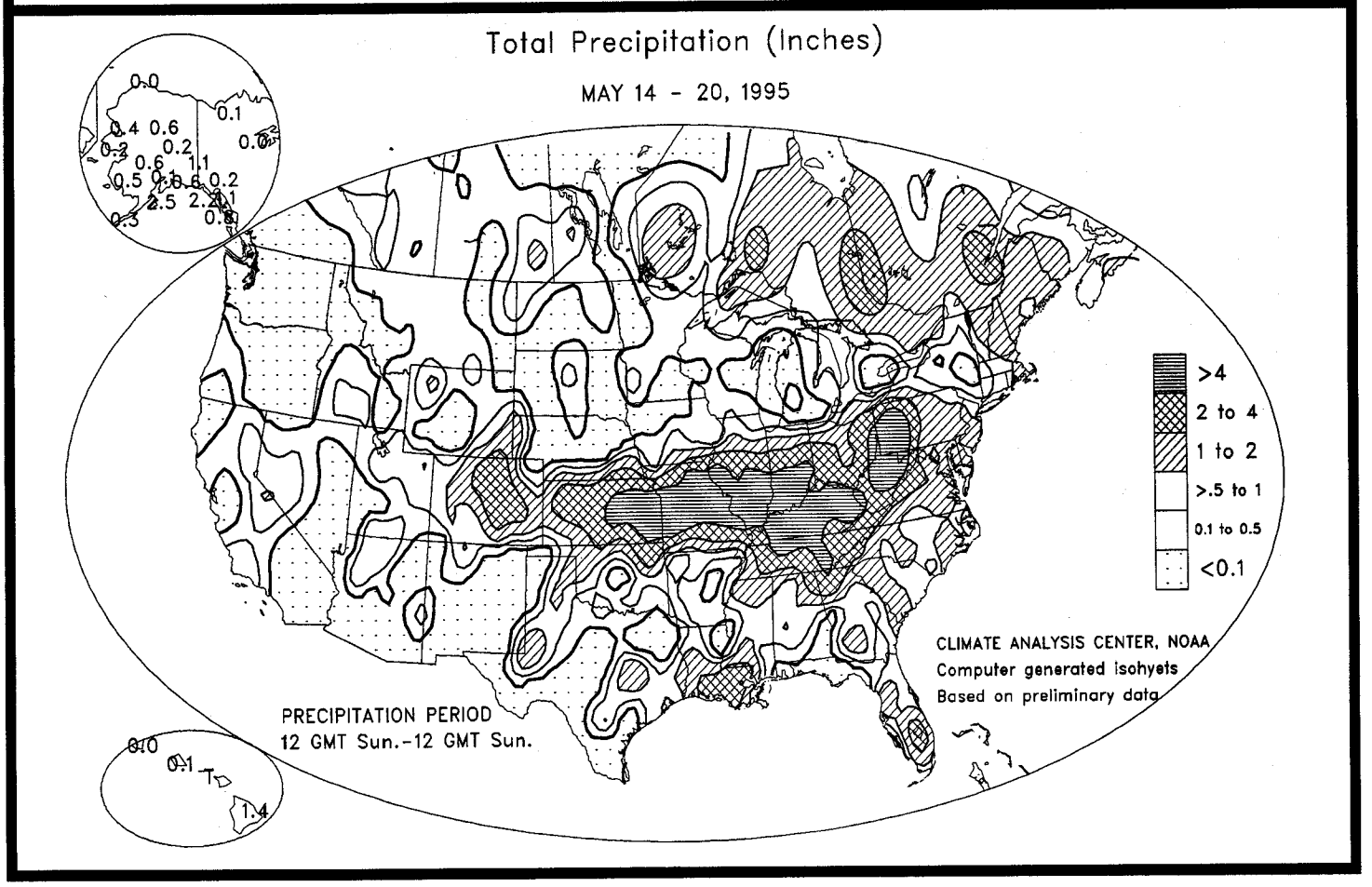

HIGHLIGHTS

May 14 - 20, 1995

Heavy rain fell into already saturated river basins from the **central Plains** to the **Ohio Valley,** turning nuisance wetness into a major spring flood. Generally dry weather prevailed north of a **southern Nebraska-to-northern Indiana** line, allowing **Corn Belt** fieldwork to slowly resume in the wake of last week's rains. In the **northern Plains,** cool weather and residual wetness caused further delays in planting progress and crop development. Farther south, hot, dry weather gripped the **Gulf Coast region** and the **southern Atlantic States** until cooler, showery conditions arrived toward week's end. Scattered showers failed to dent moisture deficits in **Hawaii,** the **southern Rockies, southern Texas,** and parts of the **Southeast.**

On the night of May 13-14, a rash of severe weather, including 42 tornadoes, swept the **Midwest.** Straight-line (non-tornadic) winds gusted to 136 mph at

(Continued to p. 11)

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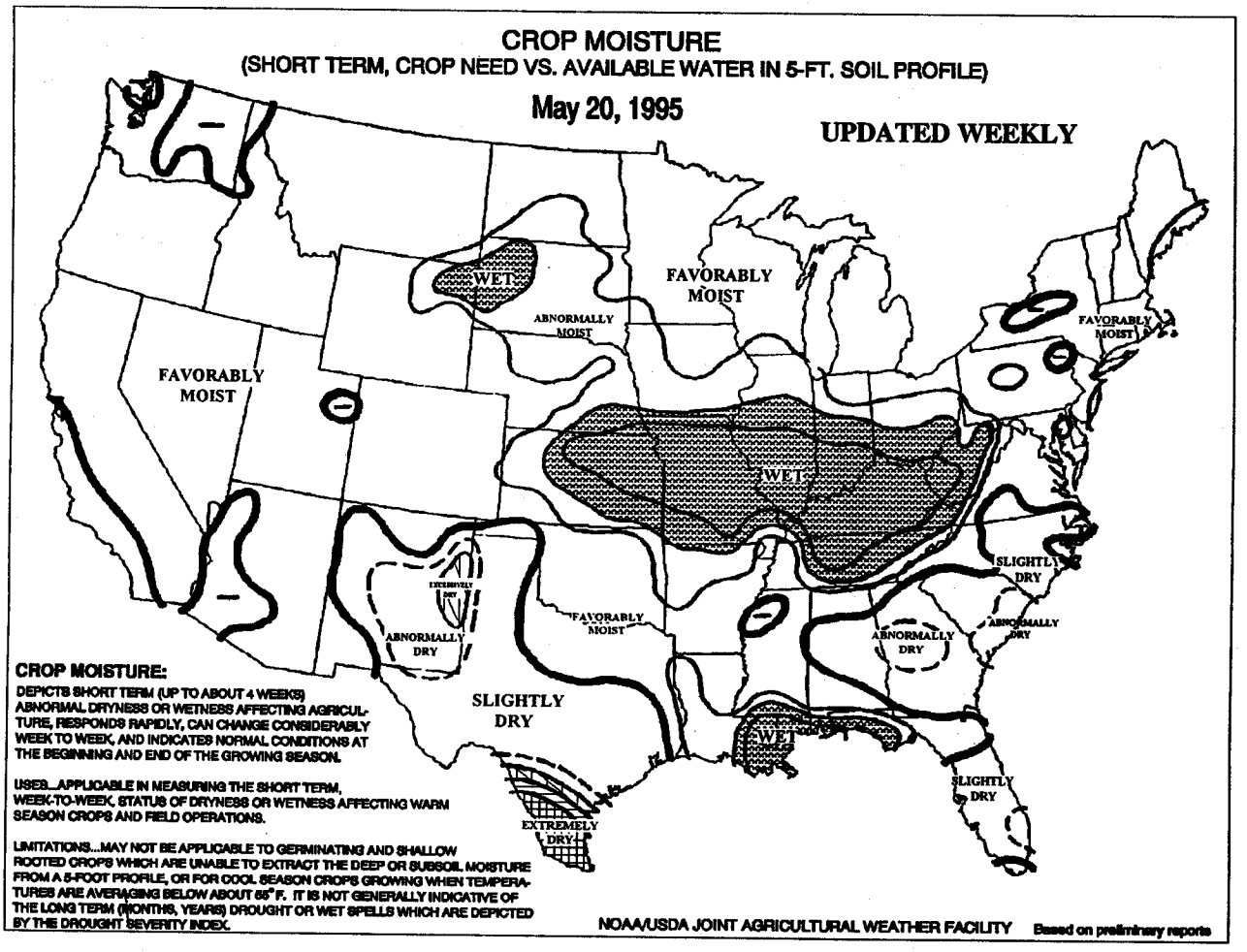
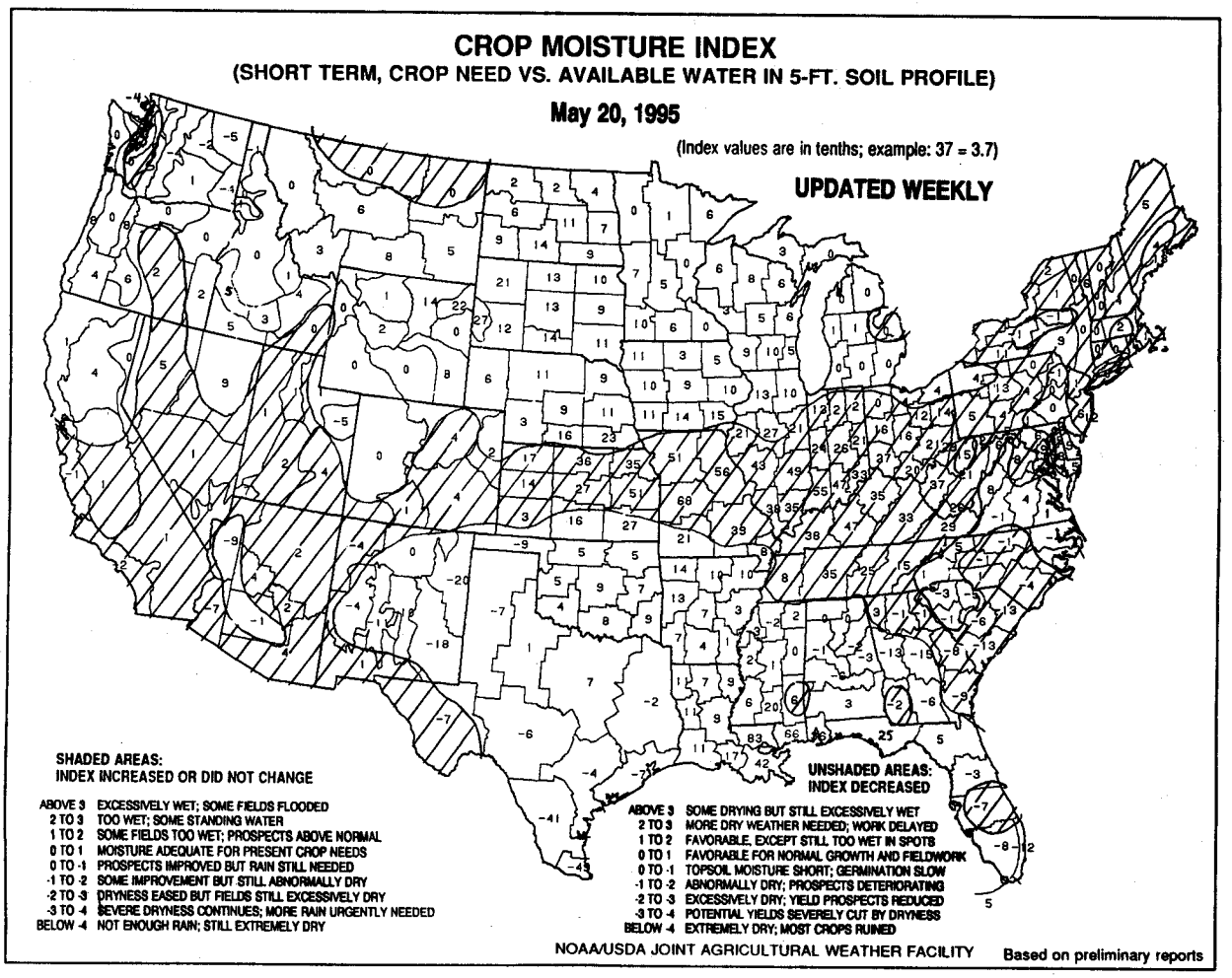
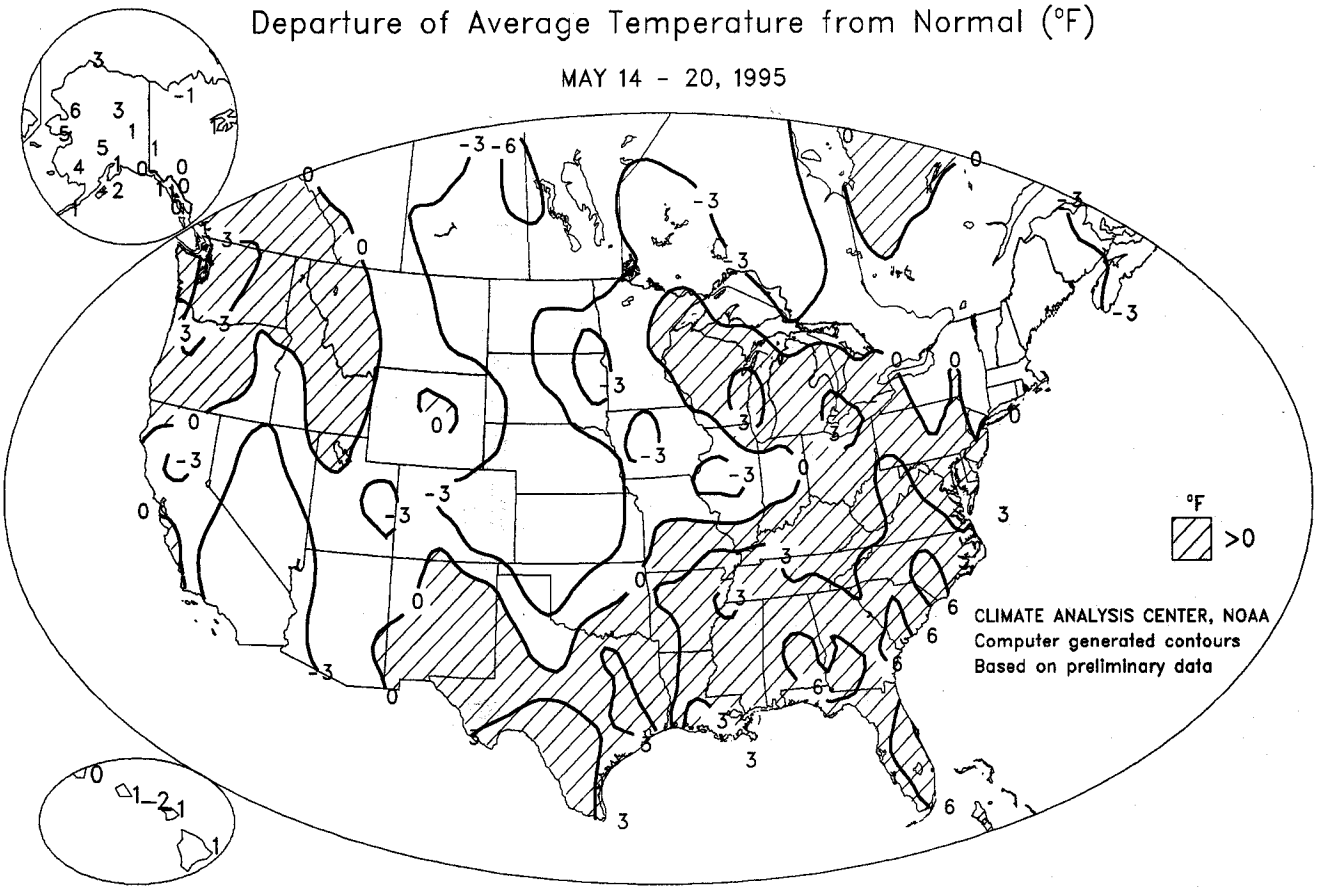
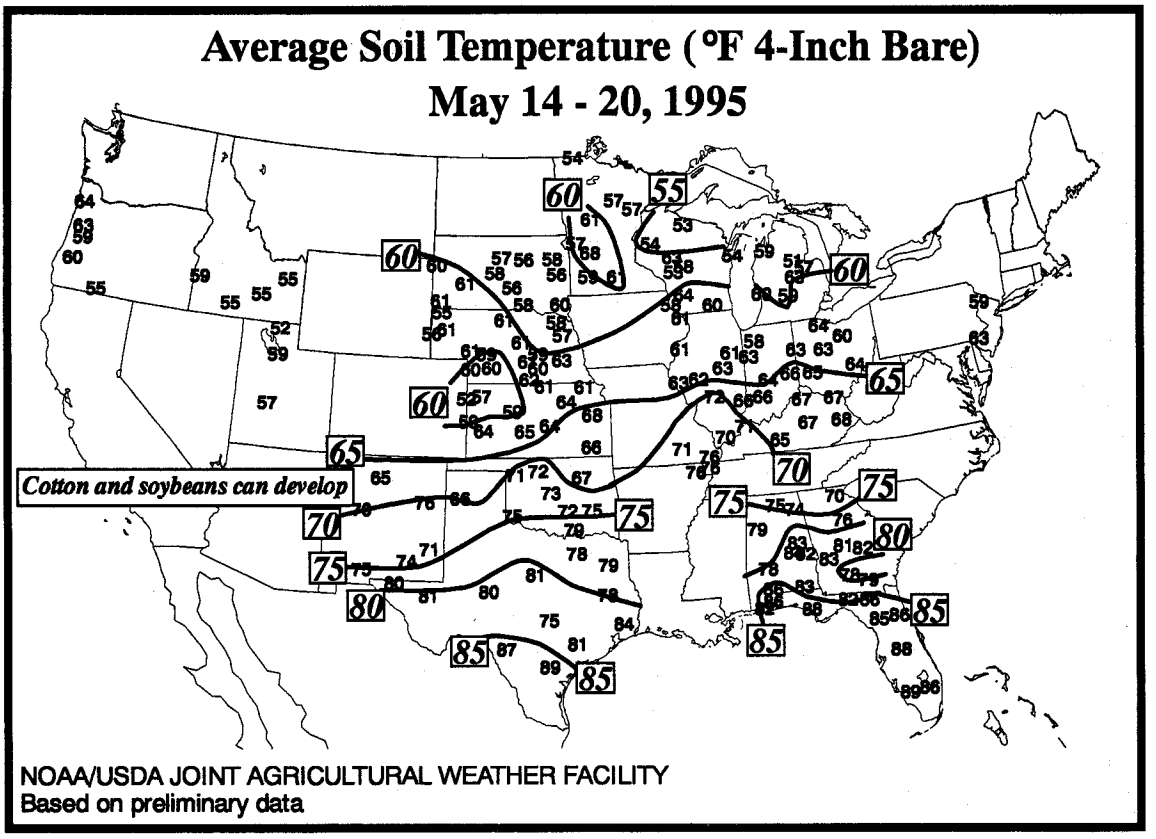
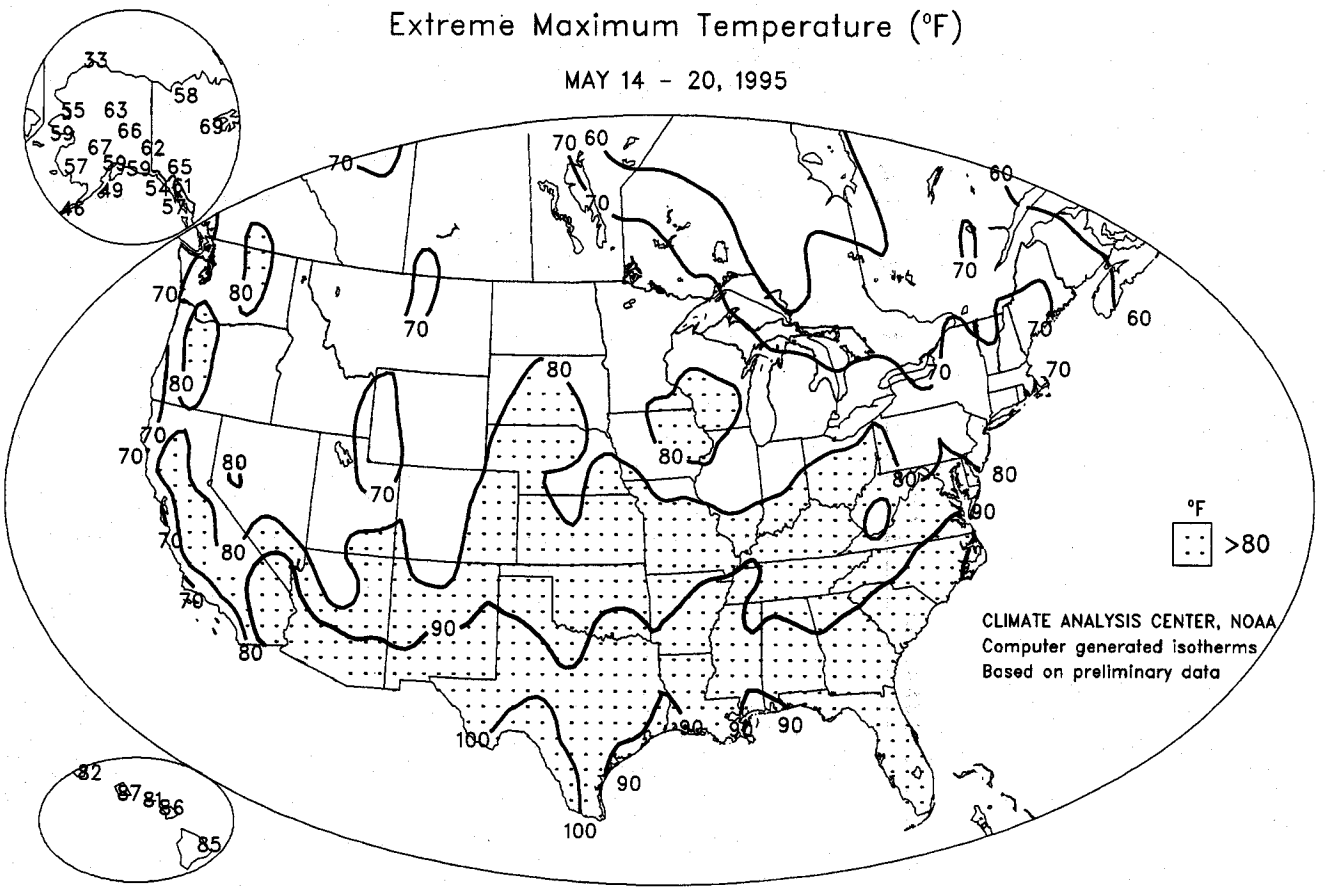
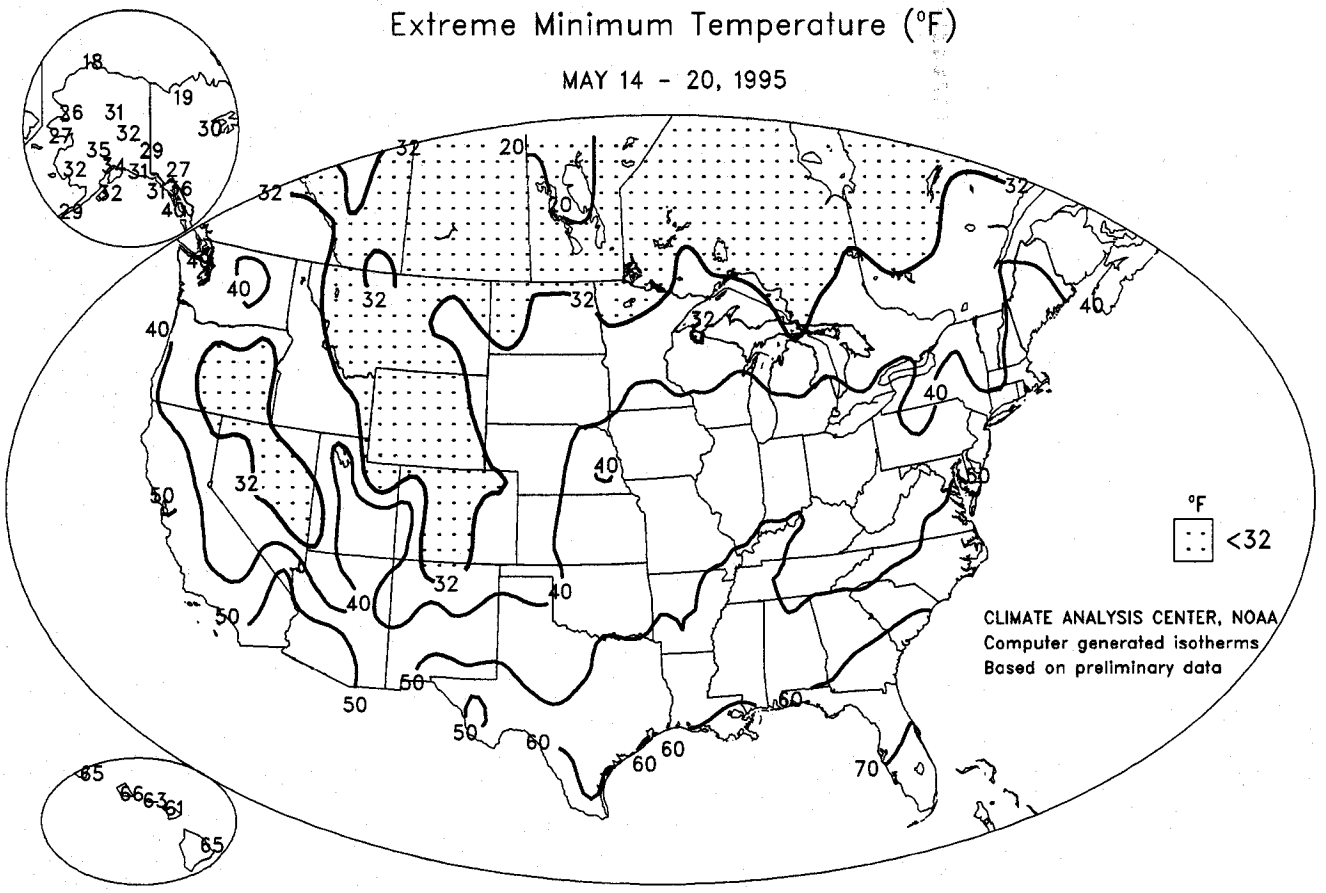

CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
May 20, 1995
UPDATED WEEKLY
WET
FAVORABLY MOIST
ABNORMALLY MOIST
FAVORABLY MOIST
FAVORABLY MOIST
WET
SLIGHTLY DRY
EXCESSIVELY WET
ABNORMALLY DRY
FAVORABLY MOIST
ABNORMALLY DRY
ABNORMALLY DRY
SLIGHTLY DRY
WET
SLIGHTLY DRY
EXTREMELY DRY
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
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
May 20, 1995
(Index values are in tenths; example: 37 = 3.7)
UPDATED WEEKLY
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 SOME FIELDS TOO WET; PROSPECTS ABOVE NORMAL
0 TO 1 MOISTURE ADEQUATE FOR PRESENT CROP NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL ABNORMALLY DRY
-2 TO -3 DRYNESS EASED BUT FIELDS STILL EXCESSIVELY DRY
-3 TO -4 SEVERE DRYNESS CONTINUES; MORE 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 EXCESSIVELY DRY; YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DRYNESS
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 14 - 20, 1995
°F
>0
CLIMATE ANALYSIS CENTER, NOAA
Computer generated contours
Based on preliminary data


Average Soil Temperature (°F 4-Inch Bare)
May 14 - 20, 1995
Cotton and soybeans can develop
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data


Extreme Maximum Temperature (°F)
MAY 14 - 20, 1995
°F
>80
CLIMATE ANALYSIS CENTER, NOAA
Computer generated isotherms
Based on preliminary data


Extreme Minimum Temperature (°F)
MAY 14 - 20, 1995
°F
<32
CLIMATE ANALYSIS CENTER, NOAA
Computer generated isotherms
Based on preliminary data

National Weather Data for Selected Cities

Weather Data for the Week Ending May 20, 1995

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	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	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	86	64	90	50	75	5	.9	-.2	.6	9.9	69	17.4	72	93	55	2	0	2	1
MOBILE	87	69	91	58	78	3	T	-1.3	T	26.9	185	36.7	148	96	47	2	0	1	0
MONTGOMERY	90	68	94	58	79	8	.2	-.7	.2	8.4	64	20.4	87	90	47	5	0	2	0
AK ANCHORAGE	56	40	59	34	48	1	.1	-.1	.1	1.2	65	2.7	80	82	45	0	0	2	0
BARROW	28	20	33	18	24	3	T	.0	T	.4	82	.9	125	92	81	0	7	0	0
FAIRBANKS	61	39	66	32	50	1	.2	.1	.2	.8	76	1.3	69	85	37	0	1	3	0
JUNEAU	53	42	61	36	47	0	1.1	.4	.4	4.5	54	--	--	100	64	0	0	6	0
KODIAK	46	38	49	32	42	-2	2.5	1.2	1.9	17.4	141	31.6	126	97	79	0	1	5	1
NOME	50	33	59	27	42	5	.2	.0	.2	2.4	150	5.4	180	90	61	0	4	1	0
AZ PHOENIX	89	64	96	59	77	-3	.0	.0	.0	1.4	118	3.1	122	42	14	3	0	0	0
PRESCOTT	71	44	79	38	58	0	.4	.3	.4	1.8	59	4.8	78	62	23	0	0	1	0
TUCSON	90	56	96	51	73	-2	.0	.0	.0	1.0	83	3.7	137	47	12	4	0	0	0
YUMA	87	62	97	55	75	-5	.0	.0	.0	.2	54	1.9	192	47	18	3	0	0	0
AR FORT SMITH	82	62	89	50	72	3	.6	-.7	.4	11.3	99	15.3	96	94	57	0	0	2	0
LITTLE ROCK	81	65	91	54	73	3	T	-1.2	T	10.7	84	16.5	85	82	52	1	0	0	0
CA BAKERSFIELD	80	53	91	47	67	-5	.1	.0	.1	4.6	260	7.7	210	64	29	1	0	1	0
EUREKA	59	49	62	46	54	1	T	-.3	T	19.7	213	33.9	170	89	64	0	0	0	0
FRESNO	81	52	91	44	66	-3	.1	.0	.1	8.1	265	14.5	212	87	27	2	0	2	0
LOS ANGELES	66	54	69	51	60	-3	.6	.5	.6	7.0	247	20.3	263	89	57	0	0	1	1
REDDING	76	53	84	44	64	-2	T	-.2	T	20.4	277	45.0	252	92	42	0	0	1	0
SACRAMENTO	77	52	86	50	64	-1	.1	.0	.1	12.1	306	23.3	221	97	45	0	0	1	0
SAN DIEGO	68	57	70	54	62	-2	T	.0	T	5.3	197	15.3	253	83	57	0	0	1	0
SAN FRANCISCO	64	50	68	48	57	-1	.5	.5	.5	11.2	242	20.5	168	94	62	0	0	1	0
CO DENVER	66	42	83	33	54	-4	2.7	2.1	2.1	5.6	123	6.7	119	92	49	0	0	4	1
GRAND JUNCTION	73	49	81	45	61	-2	.5	.3	.4	4.4	163	5.6	146	82	28	0	0	3	0
PUEBLO	72	41	90	33	56	-5	2.8	2.5	2.7	6.2	253	6.3	207	88	37	1	0	3	1
CT BRIDGEPORT	65	50	74	46	58	-1	.7	-.2	.4	7.2	71	13.0	79	94	60	0	0	4	0
HARTFORD	67	46	77	40	57	-3	.6	-.3	.2	6.0	59	13.1	78	98	52	0	0	4	0
DC WASHINGTON	77	58	81	53	68	1	1.3	.5	.5	7.0	85	11.9	87	92	52	0	0	4	1
FL PANAMA CITY	85	74	88	64	80	6	T	-.8	T	10.3	89	14.5	66	93	67	0	0	1	0
DAYTONA BEACH	93	72	97	70	82	7	.2	-.6	.2	4.4	63	7.4	57	95	45	6	0	1	0
JACKSONVILLE	92	66	96	62	80	5	.8	.0	.8	6.8	83	10.8	71	97	48	5	0	1	1
KEY WEST	89	79	91	74	84	4	.0	-.8	.0	4.7	86	9.0	97	81	62	2	0	0	0
MIAMI	93	77	96	73	85	6	1.0	-.5	.5	10.1	115	14.7	114	85	45	7	0	2	1
ORLANDO	93	73	95	70	83	6	1.2	.4	1.2	6.9	100	9.6	78	92	45	6	0	2	1
TALLAHASSEE	91	68	95	60	79	5	T	-1.0	T	11.7	92	17.7	76	92	47	5	0	1	0
TAMPA	93	74	97	68	84	6	.8	.1	.5	4.5	77	10.0	92	90	46	6	0	2	1
WEST PALM BEACH	92	73	94	69	83	5	.7	-.9	.7	6.0	61	9.3	61	87	48	6	0	1	1
GA ATLANTA	86	65	90	56	76	7	1.1	.1	1.0	7.3	56	17.3	77	90	45	2	0	3	1
AUGUSTA	89	63	95	57	76	5	1.7	.9	1.3	4.8	47	15.1	81	93	43	3	0	2	1
MACON	91	64	96	57	77	5	.1	-.7	.1	3.9	37	15.2	77	92	38	4	0	2	0
SAVANNAH	90	69	98	64	80	6	1.9	1.0	1.1	3.4	37	10.3	64	95	51	4	0	2	2
HI HILO	82	67	85	65	75	1	1.4	-.8	.6	17.4	48	23.5	42	91	63	0	0	5	1
HONOLULU	86	71	87	66	78	1	.1	-.2	.1	2.9	65	9.7	94	81	52	0	0	1	0
KAHULUI	84	67	86	61	75	-1	T	-.1	T	4.2	82	7.9	65	76	53	0	0	1	0
LIHUE	80	70	82	65	75	0	T	-.7	T	5.4	55	12.7	67	76	65	0	0	0	0
ID BOISE	72	44	80	38	58	0	.2	.0	.2	4.9	150	7.5	130	83	29	0	0	3	0
LEWISTON	71	48	77	41	59	1	.0	-.3	.0	3.0	99	5.0	95	69	31	0	0	0	0
POCATELLO	70	39	73	33	55	1	T	-.3	T	5.5	164	7.4	139	84	30	0	0	1	0
IL CHICAGO	71	51	78	46	61	2	.5	-.3	.3	9.5	112	13.1	115	80	39	0	0	2	0
MOLINE	72	48	82	42	60	-2	.3	-.7	.3	10.6	110	14.4	116	89	39	0	0	2	0
PEORIA	69	47	77	39	58	-4	1.5	.7	.9	12.6	139	16.0	133	96	50	0	0	3	1
QUINCY	69	50	78	43	60	-4	2.5	1.5	1.5	9.0	90	12.1	95	85	54	0	0	3	2
ROCKFORD	71	47	79	42	59	0	.4	-.4	.4	9.7	115	11.6	107	95	45	0	0	2	0
SPRINGFIELD	72	51	79	46	62	-2	3.3	2.5	1.6	11.3	122	15.8	126	90	55	0	0	3	3
IN EVANSVILLE	79	58	89	52	68	1	7.7	6.7	4.9	19.3	159	25.0	135	91	49	0	0	4	4
FORT WAYNE	71	49	77	45	60	0	1.2	.4	.6	9.7	114	12.9	105	92	45	0	0	3	1
INDIANAPOLIS	72	52	78	45	62	-1	3.4	2.5	1.8	11.2	111	14.5	98	91	56	0	0	4	2
SOUTH BEND	70	49	79	41	59	0	.5	-.3	.3	8.1	90	12.2	93	88	41	0	0	2	0
IA DES MOINES	71	49	79	43	60	-2	.7	-.3	.6	13.8	165	15.5	150	78	32	0	0	2	1
SIOUX CITY	72	46	80	40	59	-3	T	-.9	T	9.0	138	9.5	122	78	30	0	0	0	0
WATERLOO	73	46	84	40	59	-1	T	-.9	T	8.5	104	9.4	94	80	30	0	0	1	0
KS CONCORDIA	69	49	81	45	59	-4	1.6	.6	1.2	10.4	146	11.2	132	90	53	0	0	5	1
DODGE CITY	71	47	83	41	59	-5	1.6	.9	1.0	8.6	156	9.4	142	94	59	0	0	3	2
GOODLAND	67	41	84	33	54	-5	1.7	.8	1.1	6.1	133	6.6	122	97	60	0	0	3	2
TOPEKA	72	51	84	41	62	-3	3.6	2.5	2.0	12.0	145	14.0	137	97	61	0	0	5	2
WICHITA	73	52	79	43	63	-4	1.5	.5	1.4	9.1	113	9.8	98	91	55	0	0	2	1
KY BOWLING GREEN	79	60	86	49	70	3	4.4	3.2	2.8	11.8	94	17.0	82	97	59	0	0	4	2
LEXINGTON	74	56	83	47	65	1	4.6	3.5	2.4	14.8	133	22.1	128	91	60	0	0	4	3
LOUISVILLE	76	58	85	51	67	1	5.3	4.2	2.7	13.2	111	18.0	100	92	60	0	0	4	3
LA BATON ROUGE	87	69	91	59	78	3	4.6	3.5	4.6	29.6	220	38.6	162	100	63	5	0	1	1
LAKE CHARLES	87	71	90	59	79	3	.1	-1.2	.1	12.8	125	20.5	112	94	61	1	0	1	0
NEW ORLEANS	87	71	92	64	79	4	1.4	.4	1.3	29.6	242	38.3	164	89	56	2	0	2	1
SHREVEPORT	86	65	91	51	76	3	.4	-1.0	.3	14.7	126	23.9	119	93	54	3	0	2	0

Based on 1961-90 normals.

Weather Data for the Week Ending May 20, 1995

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	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	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	57	44	69	39	51	-1	.8	.1	.5	5.5	80	13.9	124	86	60	0	0	5	0
PORTLAND	58	43	68	41	51	-3	1.4	.6	.8	6.9	68	15.4	91	99	76	0	0	3	2
MD BALTIMORE	75	56	81	49	66	2	1.3	.4	.4	6.9	78	11.1	74	90	52	0	0	4	0
SALISBURY	78	55	86	48	66	3	.3	-.6	.2	6.8	70	10.6	63	98	50	0	0	4	0
MA BOSTON	64	49	77	47	57	-2	.5	-.2	.2	4.9	52	11.8	71	93	61	0	0	4	0
CHATHAM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
MI ALPENA	69	41	72	34	55	3	.5	-.2	.4	4.7	78	7.3	81	86	43	0	0	3	0
DETROIT	73	51	79	47	62	3	.2	-.5	.1	6.0	82	9.4	87	82	37	0	0	3	0
FLINT	72	47	77	44	59	2	.2	-.3	.2	4.9	73	7.7	82	79	36	0	0	2	0
GRAND RAPIDS	69	48	79	45	59	1	.8	.1	.8	7.3	92	11.0	98	78	39	0	0	2	1
HOUGHTON LAKE	69	45	77	34	57	2	.1	-.5	.1	5.2	89	7.9	93	74	39	0	0	2	0
LANSING	69	46	76	38	57	0	.4	-.3	.4	6.0	86	9.5	99	90	45	0	0	1	0
MARQUETTE	63	40	72	37	51	0	.2	-.5	.2	7.3	100	11.7	104	81	36	0	0	1	0
MUSKEGON	67	46	76	39	56	0	.1	-.5	.1	6.4	90	10.6	96	86	43	0	0	1	0
SAULT ST. MARIE	56	36	61	31	46	-5	.5	-.1	.4	7.3	115	11.0	104	97	60	0	1	3	0
MN ALEXANDRIA	68	43	75	36	55	-2	--	--	--	--	--	--	--	89	37	0	0	-	-
DULUTH	67	42	74	36	55	3	.4	-.3	.3	7.8	130	10.2	127	76	25	0	0	2	0
INT'L FALLS	61	38	73	31	50	-3	.6	.0	.5	4.1	100	5.8	103	87	34	0	1	3	1
MINNEAPOLIS	71	46	78	41	59	0	T	-.8	T	4.9	76	5.5	67	73	30	0	0	0	0
ROCHESTER	68	44	79	40	56	-1	T	-.8	T	7.3	110	7.9	97	77	35	0	0	1	0
MS GREENWOOD	86	66	93	50	76	4	T	-1.2	T	13.7	96	19.5	82	89	50	4	0	0	0
JACKSON	84	68	90	54	76	4	1.1	-.2	1.1	17.4	115	23.1	91	93	55	2	0	1	1
MERIDIAN	87	67	92	57	77	6	1.8	.9	1.8	16.4	108	23.8	92	92	48	4	0	2	1
MO CAPE GIRARDEAU	80	61	89	51	70	3	3.3	2.1	1.7	12.4	96	19.4	101	92	54	0	0	3	3
COLUMBIA	73	53	83	44	63	0	6.3	5.2	3.9	17.8	180	24.3	185	94	67	0	0	3	2
KANSAS CITY	72	52	85	42	62	-2	3.9	2.7	2.8	10.9	124	13.7	124	91	55	0	0	3	2
SAINT LOUIS	75	58	82	50	66	0	9.8	8.9	5.6	18.4	191	24.2	178	90	52	0	0	3	2
SPRINGFIELD	77	55	86	45	66	2	.7	-.4	.5	13.2	122	18.7	129	91	59	0	0	4	0
MT BILLINGS	64	43	71	33	54	-2	.1	-.5	.1	6.8	149	7.6	124	81	32	0	0	4	0
GLASGOW	67	38	74	33	53	-3	T	-.4	T	--	--	3.1	109	80	27	0	0	0	0
GREAT FALLS	65	41	72	34	53	0	.2	-.4	.1	5.2	129	5.4	96	86	33	0	0	3	0
HAVRE	67	40	73	31	53	-2	.5	.1	.3	3.7	140	3.9	111	88	34	0	1	3	0
HELENA	68	38	73	25	53	0	.3	-.1	.3	4.7	170	4.8	125	84	28	0	1	1	0
KALISPELL	68	38	72	28	53	1	.2	-.3	.1	3.8	119	5.4	93	88	28	0	3	2	0
MILES CITY	66	39	73	32	52	-5	.1	-.5	.1	3.3	97	3.6	83	91	36	0	1	1	0
MISSOULA	70	37	76	29	53	1	.1	-.4	.1	2.3	75	3.5	69	82	22	0	1	2	0
NE GRAND ISLAND	70	46	78	42	58	-4	T	-.9	T	7.0	104	7.7	97	82	35	0	0	0	0
LINCOLN	72	46	81	38	59	-3	.8	-.1	.6	10.9	149	12.1	141	92	40	0	0	2	1
NORFOLK	72	45	79	41	58	-3	.0	-.9	.0	10.6	166	11.5	150	81	28	0	0	0	0
NORTH PLATTE	68	42	79	33	55	-4	.2	-.7	.1	5.3	98	5.5	89	90	44	0	0	2	0
OMAHA	73	48	78	42	61	-2	.4	-.6	.4	10.8	143	12.1	133	81	29	0	0	1	0
SCOTTSBLUFF	66	41	82	33	53	-3	2.0	1.4	1.5	6.5	149	8.2	153	94	51	0	0	5	1
VALENTINE	68	41	86	33	55	-5	.1	-.7	.1	6.1	109	6.7	101	79	34	0	0	1	0
NV ELY	63	33	74	28	48	-3	.3	.1	.1	4.3	159	5.9	143	92	34	0	2	3	0
LAS VEGAS	85	58	94	51	71	-3	.0	-.1	.0	.4	50	3.5	197	39	15	2	0	0	0
RENO	69	44	78	37	56	0	.3	.1	.3	4.3	280	7.8	216	73	23	0	0	2	0
WINNEMUCCA	68	37	77	31	52	-3	.3	.1	.2	4.3	200	6.0	168	90	33	0	1	2	0
NH CONCORD	63	44	72	41	54	-2	1.3	.5	.6	6.4	84	11.9	93	99	51	0	0	5	1
NJ ATLANTIC CITY	72	49	77	41	61	0	1.8	1.0	1.3	6.8	73	11.5	72	98	51	0	0	5	1
NM ALBUQUERQUE	80	52	89	45	66	2	T	-.1	T	.9	69	1.8	81	47	19	0	0	1	0
CLOVIS	83	53	92	45	68	3	T	-.4	T	.8	34	1.4	41	71	20	1	0	1	0
ROSWELL	89	57	95	47	73	3	T	-.2	T	.4	29	--	--	50	15	4	0	0	0
NY ALBANY	67	45	74	37	56	-2	.2	-.6	.2	4.6	57	8.7	68	98	48	0	0	1	0
BINGHAMTON	63	48	72	46	56	0	.2	-.5	.1	4.9	61	9.9	77	87	48	0	0	5	0
BUFFALO	67	48	79	42	58	0	.4	-.3	.2	4.1	55	11.6	92	81	43	0	0	4	0
NEW YORK	70	54	79	52	62	0	.8	-.1	.6	4.5	46	11.2	71	90	49	0	0	3	1
ROCHESTER	68	48	74	42	58	1	.3	-.3	.2	3.5	52	7.5	70	88	41	0	0	2	0
SYRACUSE	67	47	72	41	57	-1	T	-.7	T	3.9	47	7.9	62	85	41	0	0	1	0
NC ASHEVILLE	79	56	84	47	68	4	1.2	.0	.5	8.0	63	18.0	85	96	54	0	0	3	1
CHARLOTTE	82	62	88	53	72	5	.5	-.4	.5	6.0	63	14.9	87	84	48	0	0	1	1
GREENSBORO	83	60	88	50	71	5	.2	-.7	.2	4.4	49	10.9	70	84	45	0	0	2	0
HATTERAS	80	64	82	55	72	5	.8	-.2	.6	4.0	39	18.7	95	93	42	0	0	2	1
NEW BERN	84	65	91	59	74	5	2.3	1.2	1.5	5.4	55	9.1	49	94	55	2	0	2	2
RALEIGH	84	62	91	51	73	6	1.2	.3	.7	6.4	73	15.4	96	95	33	2	0	2	2
WILMINGTON	83	66	93	56	74	5	1.2	.3	.5	7.5	75	16.9	88	93	57	1	0	3	0
ND BISMARCK	69	37	79	32	53	-3	T	-.5	T	5.8	154	6.5	140	88	32	0	1	0	0
FARGO	69	40	76	32	54	-2	T	-.6	T	4.9	112	6.3	114	85	36	0	1	0	0
GRAND FORKS	67	40	73	33	53	-2	.2	-.3	.2	3.9	112	4.7	99	90	38	0	0	3	0
WILLISTON	66	35	75	31	51	-5	.5	.0	.4	3.5	109	4.6	110	84	30	0	2	2	0
OH AKRON-CANTON	71	50	80	46	60	1	2.5	1.6	1.3	8.3	94	14.6	110	85	45	0	0	3	2
CINCINNATI	74	54	83	48	64	1	2.7	1.7	1.4	12.5	116	17.8	111	93	57	0	0	4	2
CLEVELAND	73	51	82	47	62	4	1.2	.4	.5	8.0	97	15.6	125	89	46	0	0	5	1
COLUMBUS	75	52	83	46	64	3	2.5	1.6	1.0	8.9	96	15.0	112	95	49	0	0	4	3
DAYTON	73	53	82	46	63	1	4.2	3.3	2.0	15.3	163	19.2	140	92	55	0	0	5	4

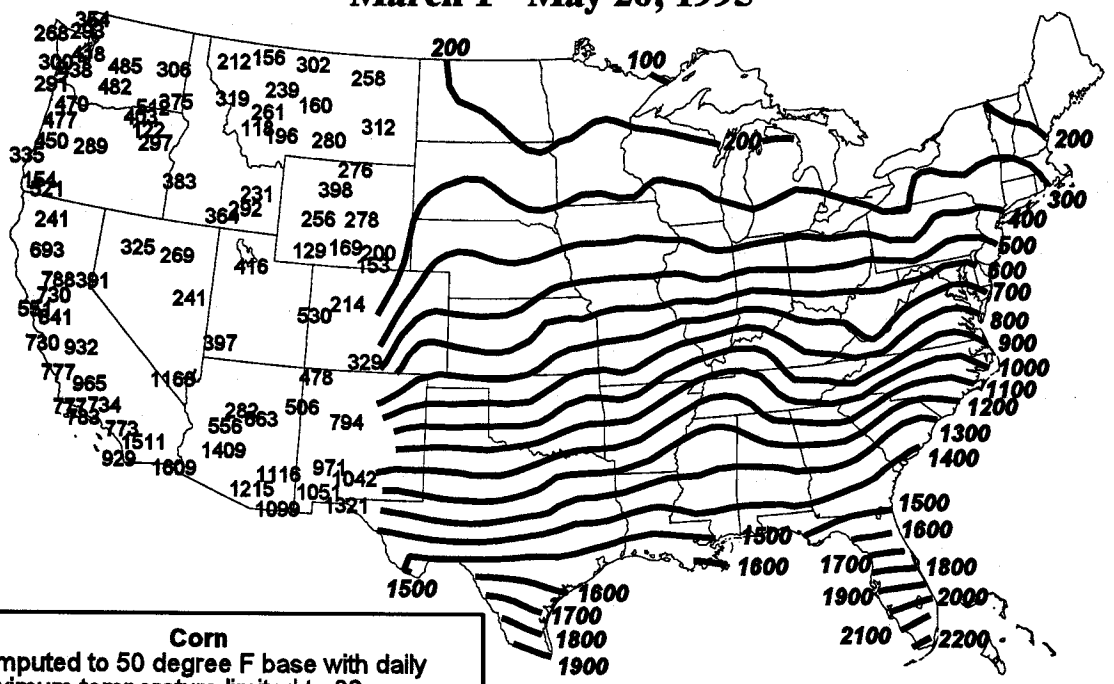
Based on 1961-90 normals.

Weather Data for the Week Ending May 20, 1995

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTRME 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	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	75	51	80	47	63	4	.3	-.4	.2	7.3	98	10.9	100	86	40	0	0	2	0
YOUNGSTOWN	71	49	83	45	60	2	1.5	.7	.6	6.4	76	10.4	82	90	47	0	0	4	2
OK OKLAHOMA CITY	79	57	88	45	68	-1	.0	-1.2	.0	9.0	103	10.4	90	90	48	0	0	0	0
TULSA	79	59	88	48	69	-1	.5	-.8	.5	13.9	130	15.5	109	89	49	0	0	1	1
OR ASTORIA	62	46	68	37	54	1	.1	-.6	.1	16.7	122	32.8	105	94	55	0	0	2	0
BURNS	67	37	74	32	52	1	.1	-.1	.1	4.1	179	7.4	184	77	27	0	3	1	0
MEDFORD	77	44	85	38	60	2	.0	-.2	.0	5.7	154	11.6	139	88	30	0	0	0	0
PENDLETON	71	44	77	37	58	0	.0	-.2	.0	5.2	179	8.8	158	77	37	0	0	0	0
PORTLAND	73	49	83	44	61	3	T	-.5	T	9.0	122	17.7	107	81	41	0	0	0	0
SALEM	73	44	83	37	59	4	.0	-.4	.0	10.2	129	23.1	126	88	42	0	0	0	0
PA ALLENTOWN	71	50	77	45	60	0	.8	-.2	.4	7.5	79	13.6	87	93	44	0	0	4	0
ERIE	69	51	81	45	60	3	.4	-.4	.2	6.7	79	11.7	91	83	44	0	0	4	0
HARRISBURG	73	54	80	45	63	1	.9	-.1	.6	4.9	53	9.9	66	95	47	0	0	5	1
PHILADELPHIA	74	56	81	51	65	3	.7	-.3	.3	5.3	52	10.8	65	94	51	0	0	4	0
PITTSBURGH	73	51	82	43	62	2	1.4	.5	.8	5.7	65	9.7	71	86	45	0	0	4	1
SCRANTON	69	50	78	43	59	0	.4	-.5	.1	4.3	55	8.5	70	92	46	0	0	4	0
RI PROVIDENCE	64	49	75	45	56	-1	1.0	.1	.3	7.6	71	14.4	80	95	60	0	0	5	0
SC CHARLESTON	88	69	97	61	79	6	.6	-.3	.4	3.2	34	10.8	68	93	53	3	0	2	0
COLUMBIA	88	67	96	58	78	6	.9	.0	.7	3.8	37	15.0	79	85	38	4	0	3	1
FLORENCE	88	66	95	57	77	6	.7	-.1	.7	3.0	33	13.8	87	95	46	3	0	1	1
GREENVILLE	83	60	90	51	72	3	1.6	.6	1.0	6.7	56	18.2	89	91	46	1	0	3	1
SD ABERDEEN	67	40	75	35	54	-4	T	-.7	T	9.0	191	10.1	171	87	37	0	0	0	0
HURON	69	43	80	39	56	-2	.1	-.6	.1	12.0	217	12.7	193	90	42	0	0	1	0
RAPID CITY	66	42	81	38	54	-2	.1	-.6	.0	6.9	152	7.6	138	84	42	0	0	2	0
SIOUX FALLS	71	43	79	41	57	-2	T	-.7	T	12.5	206	12.8	178	83	32	0	0	1	0
TN CHATTANOOGA	81	61	87	53	71	4	1.2	.2	.6	8.4	64	20.2	88	92	56	0	0	3	1
KNOXVILLE	80	57	84	49	68	3	3.5	2.5	2.1	11.5	100	21.1	107	95	54	0	0	4	2
MEMPHIS	81	65	89	52	73	2	1.7	.5	1.7	7.8	55	17.1	77	92	58	0	0	1	1
NASHVILLE	79	61	86	51	70	3	3.9	2.8	2.3	13.4	108	20.9	105	95	60	0	0	4	3
TX ABILENE	84	62	89	47	73	0	.2	-.5	.1	6.0	118	7.7	106	79	34	0	0	3	0
AMARILLO	81	48	87	40	64	-1	.6	.1	.6	3.4	103	3.7	84	85	31	0	0	1	1
AUSTIN	87	69	91	58	78	2	.4	-.7	.4	7.8	105	10.1	89	88	45	2	0	1	0
BEAUMONT	86	69	88	58	78	2	.3	-1.1	.3	9.8	95	17.2	93	99	65	0	0	1	0
BROWNSVILLE	91	74	96	62	82	2	.1	-.6	.1	.7	18	1.4	22	94	56	4	0	1	0
CORPUS CHRISTI	88	73	91	60	80	2	.1	-.7	.1	5.8	122	8.7	104	86	51	2	0	1	0
DEL RIO	95	71	99	60	83	7	T	-.7	T	3.1	56	3.4	43	78	43	7	0	0	0
EL PASO	89	60	98	55	74	2	.0	-.1	.0	.5	72	1.6	108	32	11	5	0	0	0
FORT WORTH	84	67	93	55	76	4	.0	-1.2	.0	20.4	200	23.0	159	86	53	2	0	0	0
GALVESTON	83	75	86	65	79	3	T	-.8	T	6.7	98	7.9	64	82	61	0	0	0	0
HOUSTON	88	70	93	56	79	4	.4	-.9	.4	8.9	90	17.4	101	88	52	4	0	1	0
LUBBOCK	86	55	93	46	71	1	T	-.5	T	2.3	72	2.9	68	77	18	3	0	1	0
MIDLAND	87	60	97	51	73	0	.5	-.1	.5	1.5	57	2.9	80	74	25	3	0	1	0
SAN ANGELO	91	61	101	48	76	2	.0	-.7	.0	4.6	103	7.7	122	76	24	4	0	0	0
SAN ANTONIO	93	70	97	58	81	6	T	-1.0	T	2.9	44	4.4	43	86	38	6	0	1	0
VICTORIA	88	69	93	56	79	3	T	-1.0	T	5.4	69	6.6	47	91	44	1	0	1	0
WACO	84	65	90	50	75	0	1.4	.3	1.4	17.2	202	19.1	157	96	56	2	0	1	1
WICHITA FALLS	82	60	87	49	71	0	.1	-.9	.1	5.8	72	6.8	59	86	42	0	0	2	0
UT CEDAR CITY	70	41	77	35	56	-1	.1	-.1	.1	4.0	133	5.4	118	80	25	0	0	1	0
SALT LAKE CITY	71	48	75	43	59	0	.2	-.3	.1	6.6	124	9.4	124	81	36	0	0	4	0
VT BURLINGTON	66	44	74	38	55	-2	.6	-.1	.4	4.6	67	7.8	75	91	45	0	0	3	0
VA NORFOLK	80	61	94	52	71	4	.6	-.3	.5	7.8	85	13.1	80	85	45	1	0	2	0
RICHMOND	81	58	89	50	69	3	1.0	.1	.7	8.0	88	12.3	79	90	26	0	0	2	1
ROANOKE	80	56	84	46	68	4	.5	-.4	.2	5.6	60	14.8	99	85	44	0	0	4	0
WA QUILLAYUTE	63	45	68	37	54	2	.1	-1.1	.1	17.1	75	42.2	85	92	46	0	0	1	0
SEATTLE-TACOMA	70	50	80	47	60	5	T	-.4	T	7.0	99	16.4	100	88	42	0	0	0	0
SPOKANE	70	44	74	38	57	3	T	-.3	T	6.1	169	10.4	148	78	28	0	0	1	0
YAKIMA	77	43	81	37	60	2	.0	-.1	.0	2.2	148	4.5	131	58	26	0	0	0	0
WV BECKLEY	71	52	76	41	62	2	2.5	1.6	1.1	9.1	98	17.0	112	92	51	0	0	6	2
CHARLESTON	75	54	82	45	65	1	3.4	2.5	2.0	10.7	112	19.7	127	99	57	0	0	4	3
HUNTINGTON	77	55	84	46	66	4	3.2	2.2	1.6	12.1	122	19.6	122	95	47	0	0	5	3
PARKERSBURG	76	54	82	48	65	2	2.9	2.0	2.1	--	--	--	--	98	46	0	0	3	2
WI GREEN BAY	73	46	80	40	59	3	T	-.6	T	5.8	94	6.9	82	79	34	0	0	1	0
LACROSSE	72	49	85	44	61	1	T	-.7	T	--	--	9.7	110	76	32	0	0	1	0
MADISON	72	48	81	44	60	2	T	-.7	T	8.5	115	10.7	111	77	33	0	0	1	0
MILWAUKEE	74	53	80	47	63	9	.2	-.4	.2	7.6	95	10.0	90	75	34	0	0	1	0
WAUSAU	70	45	80	38	57	1	.2	-.7	.1	5.2	74	5.9	67	75	28	0	0	2	0
WY CASPER	66	39	76	29	53	0	.3	-.2	.1	6.7	172	8.5	168	91	42	0	1	5	0
CHEYENNE	60	39	75	28	49	-3	2.2	1.6	1.3	6.5	167	7.7	164	90	46	0	1	6	1
LANDER	67	40	76	28	53	0	.1	-.5	.1	6.4	134	7.9	136	83	31	0	1	1	0
SHERIDAN	66	39	73	32	52	-1	.4	-.2	.3	5.8	138	7.7	137	84	42	0	1	2	0
PR SAN JUAN	87	73	88	71	80	-1	7.5	6.1	3.0	13.0	130	20.1	134	94	69	0	0	6	5

Based on 1961-90 normals.

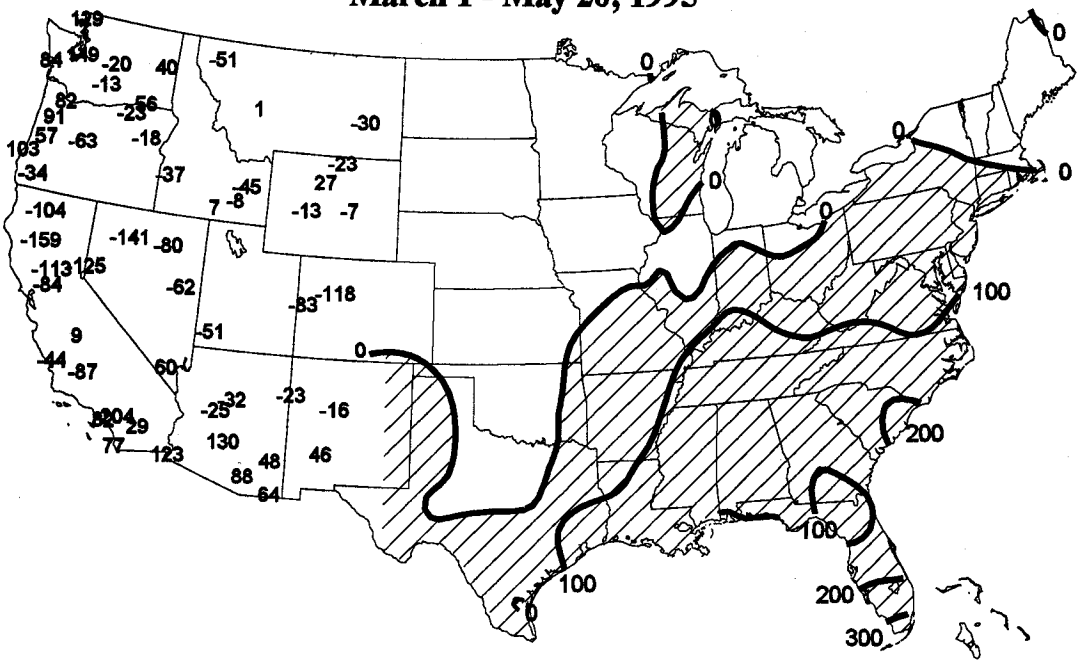
Total Growing Degree Days
March 1 - May 20, 1995



Corn
Computed to 50 degree F base with daily maximum temperature limited to 86 degrees F or less and daily minimum to 50 degrees F or more.

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

Growing Degree Days Departure from Normal
March 1 - May 20, 1995



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

National Agricultural Summary

May 15 - 21, 1995

HIGHLIGHTS: Thunderstorms across the Midwest saturated fields, limiting fieldwork and spring planting progress. Cool weather and the heavy rains slowed germination and hampered emergence of crops already in the ground. For the second week in a row, fewer than 2 days were suitable for fieldwork in many Midwestern States as a result of the relentless rains. The storm system caused flash flooding and left standing water in fields, requiring replanting. Small grain planting in the Northern States made significant progress but remained at least 3 weeks behind schedule, forcing some producers to change their planting intentions. Many small grain producers in South Dakota were switching to alternative crops after declaring that small grain planting was complete. Continued dry soil conditions in the Southeastern States caused some producers to delay planting.

The Nation's **winter wheat** crop was in mostly good to fair condition with 60 percent (%) of the acreage heading, 2 percentage points behind the 5-year average. Heading was behind normal in Nebraska by 22 points, while heading in Illinois was ahead of normal by the same amount. Winter wheat condition in Texas was mostly fair to poor. Rain in the Texas High Plains helped fill wheat heads, but many fields were cut for hay. In Kansas, wheat progress was slowed by the cool, wet weather with 71% of the acreage headed, 10 points below the average. The wet conditions in Kansas increased wheat disease problems. The storm system caused wheat lodging and wind damage in Iowa and Kentucky. Excessive moisture in Missouri and South Dakota was yellowing leaves and causing leaf disease. Continued dry conditions in the Southeastern States lowered wheat condition.

Spring wheat seeding was again delayed by saturated fields at 48% complete, up 20 points from last week but 45 points below the average. Small grain planting in the Dakotas was 3 weeks behind normal due to waterlogged fields. Surplus topsoil moisture was reported in South Dakota, where many small grain producers revised their planting intentions and declared small grain planting complete as they shifted to other crops. Spring wheat planting in North Dakota was 30% complete, 61 points behind the average, while in South Dakota, 64% of the acreage was actually seeded or considered finished, 34 points behind the average.

Corn planted was 56% complete for the 17 major producing States, 34 points behind last year and 25 points below the average. Cold, wet storm systems hampered corn emergence in the Corn Belt States, where saturated fields limited spring planting. Corn emergence was slowed by cool weather and early-emerged plants were yellowing. Some corn fields along the Mississippi River were flooded. Some flooded corn fields in Illinois will require replanting. Wet fields limited Illinois's increase in corn planted from last week to 1 point, and progress remained 41 points behind the average. Missouri corn planting increased from last week by 2 points, but remained 36 points behind the average, while Iowa increased corn planted from last week by 32 points, but remained 18 points behind the average. Weather permitted corn planting in Nebraska to increase by 53% from last week, at 64% complete, 26 points behind the average.

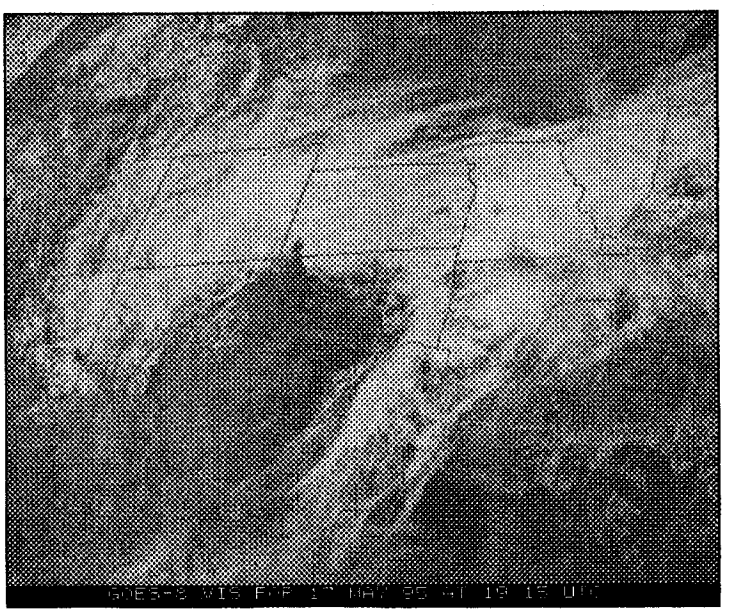
Cotton planting was 68% complete, up 16 points from last week and equal to the average for the Nation. Missouri cotton planting increased by 36 points from last week but remained 16 points behind the average, while Tennessee crop planting was up 32 points from last week, 16 points ahead of the average. Texas cotton planting progressed to 42% complete, up 9 points from last week and 8 points behind the average. In Texas, hot weather and high winds caused blowing sands that damaged young cotton plants. Cotton growth was slowed in California by cool weather. Thrips and other insects were reported as problems in Mississippi's cotton fields.

Sorghum planting was 29% complete for the 12 major producing States, up 3 points from last week but 11 points below the average. Grain sorghum planting was nearing completion in the Texas Blacklands, while planting activity was increasing in the High Plains. Some sorghum fields in the Texas Coastal Bend were heading. Planting had not started in South Dakota due to wet fields, and was behind the average by 16 points. Some grain sorghum fields were replanted in Arkansas.

Rice seeding was 84% complete, 7 points ahead of the average for the five major producing States. Rice planting in California at 40% complete was 26 points behind the average due to cool weather. Arkansas rice planting was 89% complete, up 10 points from last week and 17 points ahead of the average. Northern Louisiana rice producers began to flush rice fields. In the five major States, 69% of the rice had emerged, 11 points ahead of the average. Rice was 75% emerged in Arkansas, 23 points ahead of the average.

Soybean planting was 16% complete, 21 points behind normal. Wet field conditions slowed planting in the Midwest, with Illinois, Nebraska, and Ohio over 30 points behind the average. Soybean planting in Iowa at 17% complete, was up 15 points from last week but 26 points behind the average, since many producers took advantage of the dry weather to plant corn first. Soybean planting was slightly ahead of the average in the Delta States. Dry weather in Minnesota allowed producers to plant 34% of the soybeans, up 27 points from last week, but the late start for planting left the State 12 points behind normal.

Range and Pasture: Pasture feed condition for the Nation was rated 69% good to excellent. Some pastures in California were beginning to dry. Pasture growth improved in the Mountain States with warmer weather and adequate soil moisture. Excess moisture and cool weather slowed pasture growth across the Central States. Pastures in the Southeastern States continued to be stressed by dry conditions.



Crop Progress and Condition

Sorghum Percent Planted

	May 21 1995	Prev Week	Prev Year	5-Yr Avg
AR	76	60	89	67
CO	3	1	17	14
IL	2	0	15	21
KS	3	2	23	18
LA	84	61	74	75
MS	88	74	77	65
MO	17	13	43	31
NE	3	0	45	30
NM	27	3	12	30
OK	11	9	29	22
SD	0	0	21	16
TX	75	73	77	74
ALL	29	26	46	40

These 12 States produced 98% of the 1994 sorghum crop.

Rice Percent Planted

	May 21 1995	Prev Week	Prev Year	5-Yr Avg
AR	89	79	94	72
CA	40	20	66	66
LA	96	90	90	90
MS	99	96	100	72
TX	90	83	99	92
ALL	84	74	90	77

These 5 States produced 96% of the 1994 rice crop.

Rice Percent Emerged

	May 21 1995	Prev Week	Prev Year	5-Yr Avg
AR	75	61	80	52
CA	10	5	28	29
LA	89	79	86	83
MS	90	86	96	56
TX	74	67	84	76
ALL	69	59	75	58

These 5 States produced 96% of the 1994 rice crop.

Spring Wheat Percent Planted

	May 21 1995	Prev Week	Prev Year	5-Yr Avg
ID	91	86	99	94
MN	47	28	95	96
MT	79	65	92	93
ND	30	12	85	91
SD	64	18	98	98
ALL	48	28	90	93

These 5 States produced 98% of the 1994 spring wheat crop.

Winter Wheat Percent Headed

	May 21 1995	Prev Week	Prev Year	5-Yr Avg
AR	100	99	99	97
CA	99	98	99	98
CO	29	7	31	28
GA	100	100	100	100
ID	5	0	1	3
IL	80	55	49	58
IN	50	43	33	38
KS	71	41	86	81
MI	0	0	0	1
MO	72	47	64	67
MT	0	0	0	0
NE	2	0	17	24
NC	95	93	99	96
OH	12	1	10	16
OK	99	96	99	95
OR	1	0	55	35
SD	0	0	2	3
TX	90	79	87	88
WA	12	0	36	16
ALL	60	46	65	63

These 19 States produced 92% of the 1994 winter wheat crop.

Corn Percent Planted

	May 21 1995	Prev Week	Prev Year	5-Yr Avg
CO	66	29	93	87
GA	99	99	100	99
IL	37	36	84	82
IN	48	42	83	80
IA	62	30	100	80
KS	56	33	97	91
KY	76	74	78	74
MI	56	27	76	71
MN	70	50	94	80
MO	29	27	85	65
NE	64	11	99	90
NC	96	95	98	98
OH	62	46	92	88
PA	63	45	53	58
SD	17	2	81	73
TX	98	95	99	98
WI	60	37	90	68
ALL	56	36	90	81

These 17 States produced 91% of the 1994 corn crop.

Soybeans Percent Planted

	May 21 1995	Prev Week	Prev Year	5-Yr Avg
AL	33	21	29	27
AR	15	7	29	15
GA	27	15	33	2
IL	4	3	46	44
IN	20	13	51	47
IA	17	2	86	43
KS	3	1	36	24
KY	9	8	20	15
LA	38	26	30	30
MI	20	4	40	32
MN	34	7	70	46
MS	53	37	63	26
MO	3	0	35	20
NE	4	0	65	38
NC	34	12	32	29
OH	26	14	71	56
SC	14	8	21	20
SD	5	0	43	31
TN	11	6	12	10
ALL	16	7	53	37

These 19 States produced 94% of the 1994 soybean crop.

Cotton Percent Planted

	May 21 1995	Prev Week	Prev Year	5-Yr Avg
AL	91	76	83	81
AZ	97	95	99	97
AR	71	28	90	75
CA	97	90	99	99
GA	85	74	92	77
LA	96	83	94	88
MS	95	66	98	77
MO	58	22	93	74
NM	83	66	82	89
NC	92	70	90	87
OK	30	10	31	31
SC	78	67	94	86
TN	82	50	88	66
TX	42	33	42	50
ALL	68	52	71	68

These 14 States produced 99% of the 1994 cotton crop.

Week Ending May 21, 1995

Crop Progress and Condition

Winter Wheat Crop Condition by Percent

State	VP	P	F	G	EX
AR	0	5	24	56	15
CA	0	0	5	45	50
CO	6	8	16	44	26
GA	1	13	59	27	0
ID	0	0	18	53	29
IL	0	3	19	59	19
IN	0	1	10	69	20
KS	6	14	33	35	12
MI	0	2	16	50	32
MO	1	9	51	35	4
MT	1	5	16	65	13
NE	0	1	14	79	6
NC	2	10	36	51	1
OH	0	2	17	56	25
OK	10	9	29	49	3
OR	4	9	35	43	9
SD	1	7	30	51	11
TX	7	30	38	18	7
WA	0	10	32	47	11
ALL	5	12	29	42	12
Prev Wk	5	13	28	43	11
Prev Yr	1	8	42	44	5

Cotton Crop Condition by Percent

State	VP	P	F	G	EX
AL	12	9	31	47	1
AZ	23	23	46	6	2
AR	2	11	34	35	18
CA	0	0	90	10	0
GA	2	9	49	40	0
LA	2	2	21	65	10
MS	1	5	42	46	6
MO	2	32	26	30	10
NM	0	2	47	49	2
NC	0	5	40	55	0
OK	0	0	12	62	26
SC	0	35	56	9	0
TN	0	3	37	53	7
TX	0	1	32	55	12
ALL	2	5	39	45	9
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	1	5	26	62	6

Rice Crop Condition by Percent

State	VP	P	F	G	EX
AR	0	6	30	52	12
CA	0	0	60	40	0
LA	0	2	21	71	6
MS	0	6	26	57	11
TX	0	0	11	72	17
5 Sts	0	4	30	57	9
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	0	0	24	67	9

Week Ending May 21, 1995

(continued from the front cover)
Grissom A.F.B. near **Peru, IN**, and to 90 mph at **Ft. Knox, KY**. Heavy rain ended on Sunday morning after initiating flash flooding in the **Ohio River basin**. In the wake of the early-week storms, the Nation's north-south temperature gradient tightened, while a strong low-pressure system tracked eastward from the **central Rockies**, setting the stage for 4- to 10-inch rainfalls at midweek from **eastern Kansas** to **Kentucky**.

On Sunday, **Helena, MT** reported a daily-record low of 25°F. Later in the day, about a dozen daily-record highs were tied or set across the **South**, including 97°F in **San Antonio, TX** (the first of four daily records) and 100°F in **Lakeland, FL**. In addition, **Houston, TX** notched its warmest May minimum temperature (80°F) on record. During the week, more than 50 daily records were established, three dozen of which occurred in **Florida**. On Tuesday, **Apalachicola** (95°F) recorded its third hottest May day, while **Melbourne** (95°F) logged its fourth daily record in 5 days. In **Tampa**, 16 consecutive days of 90-degree heat (May 4-19) set their May record, and nine daily-record highs set or tied in May broke their record for any month. In contrast, **Boston, MA** attained 70°F for the first time this year on May 18, the latest such occurrence on record. Farther west, a freeze covered much of **North Dakota** on Wednesday. Lows included 28°F in **Dickinson** and 32°F in **Fargo**. A day later, near-freezing conditions overspread the **central High Plains**, where lows of 33°F were reported in **Goodland, KS, North Platte, NE**, and **Pueblo, CO**. Near-freezing temperatures returned to **Montana** and **western North Dakota** at week's end.

Rain and severe weather began to occur on Monday in the **Central States** and intensified by midweek. Seventeen tornadoes were reported on Monday, eight in conjunction with residual storminess in the **East**, and nine in the **central and southern Plains**. A day later, nearly two dozen twisters were observed in the **Nation's mid-section**. The severe-weather event culminated on Thursday with more than 6 dozen tornadoes, pushing the two-storm total to a preliminary count of 165. The final round spawned 21 tornadoes in **Tennessee** (one in **Ethridge** left three people dead) and 13 in **Illinois**.

With 5.59 inches of rain on Tuesday, **St. Louis, MO** marked its wettest May day on record. An additional 3.95 inches fell the next day, pushing their monthly total to 11.67 inches, a May record. **Evansville, IN** (4.92 inches on Wednesday) also experienced a record-wet May day. Daily rainfall records for May 17 were established in **Columbia, MO** (4.78 inches), **Lexington, KY** (2.48 inches), and **Cheyenne, WY** (1.18 inches). **Lexington** also set a daily record the following day (1.68 inches).

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 0.07 to 1.02 in. north; none to 1.47 in. central; none to 0.54 in. south. Temperatures 1 to 6° above normal statewide. Lows 44 to 54° north; 47 to 58° central; 50 to 60° south. Highs 85 to 91° north, 85 to 94° central; 89 to 93° south.

Days suitable for fieldwork 5.8. Topsoil 15% very short, 28% short, 50% adequate, 7% surplus. Percent acreage prepared 95%, 95% 1994, 94% avg. Corn silked 4%, 1% 1994, 3% avg.; 2% poor, 20% fair, 67% good, 11% excellent. Sorghum planted 36%, 43% 1994, 45% avg. Peanuts planted 88%, 80% 1994, 80% avg.; 12% fair, 88% good. Hay harvested 42%, 49% 1994, 41% avg. Wheat harvested 9%, 8% 1994, 9% avg.; 8% very poor, 6% poor, 25% fair, 60% good, 1% excellent. Livestock 1% poor, 13% fair, 69% good, 17% excellent. Activities: Planting, general care of livestock, poultry, catfish.

ALASKA: Tanana Valley received welcome precipitation, conditions in the Matanuska Valley remained dry.

Days suitable for fieldwork 6.0. Soil moisture 25% short, 75% adequate. Farmwork progress on schedule to 7 days ahead of normal. Barley seeding 80% complete, 5% behind 1994. Commercial potato planting 35% complete, 30% 1994. Vegetable seeding, transplanting 20% complete. Livestock mostly good to excellent.

ARIZONA: Temperatures normal to 4° below normal. Extremes 28°; 90° higher elevations; 41°; 102° deserts. Precipitation reported at several upper elevation stations; 0.01 to 0.44 in.

Below normal temperatures have not given cotton the heat units necessary to quickly recover from earlier stand problems. Small grains 24% very poor, 3% poor, 46% fair, 26% good, 1% excellent; 90% mature; 28% harvested, 33% 1994, 16% avg. Alfalfa 2% poor, 4% fair, 71% good, 23% excellent. Harvest 1% light, 3% moderate, 40% active, 56% between cuttings. Corn 42% poor, 42% good, 16% excellent. Potatoes, honeydews, watermelons were available western growers. Vegetables shipped central areas included potatoes, dry onions, carrots, green onions, cabbage, mixed greens, parsley, cilantro. Head lettuce, tomatoes available eastern growers. Grapefruit, Valencia orange harvest continued in western, central areas. Grapes were available from western vineyards.

ARKANSAS: Temperatures near normal with scattered showers across State. Extremes 46°; 95°. Precipitation none to 1.83 in.

Days suitable for fieldwork 5. Soil moisture 4% short, 74% adequate, 22% surplus. Producers were planting some rice, corn, cotton, soybeans, grain sorghum. Some cotton was replanted in Phillips county. Grain sorghum was replanted in Logan county. Strawberry harvest ongoing. Fungicides, pesticides were applied to tomatoes. Tomatoes were damaged by hail in Drew county. Blight damaged apples, pears in Izard county. Producers continue vaccinating calves. Some cattle were killed by lightning in Pope county. Livestock in good condition.

CALIFORNIA: Ridge of high pressure ended unsettled weather, bringing warmer temperatures by midweek. Temperatures averaged well below normal for week at many locations.

Field activities gradually resumed, northern counties, as soils dried. Elsewhere, fieldwork progressed normally. Growth corn, cotton, dry beans, safflower slowed, cool weather, until late week. Wheat, barley grain harvests underway southern counties, desert areas. Rice planting gained momentum. Fertilized, treated watergrass, water weevils. New crop sugarbeets grew well. Corn, safflower, sugarbeets planted, central, northern areas. Cotton planting neared completion, San Joaquin Valley. Some fields replanted, poor stands. Alfalfa, small grains, winter forage, cut for hay, greenchopped. Sudangrass planted, harvested, desert counties. Grape growers irrigate vineyards, treated mildew, weeds, applied bloom spray to thin grape bunches. Peach, nectarine, plum growers thinned, removed fruit damaged by earlier hail. Apricots colored well, Tulare County. Some early apple varieties hand thinned, Sonoma County. Recent rain caused more damage, strawberry crop, Merced County. Cherry harvest continued. Fruit quality good, most areas. Some suffered major damage, spring rains. Kiwifruit bloom over, pollination fair. Lemon, grapefruit, Valencia orange, avocado harvests continued. Asparagus harvest continued, Stockton delta, Salinas Valley. Artichokes, Monterey County harvested. Broccoli, cauliflower harvests continued, Monterey, San Luis Obispo counties. San Joaquin Valley almost complete. Kern County carrots harvested. Celery, Ventura County harvested. Cucumbers harvested, Tulare County, Coachella Valley. Spring head, leaf lettuce fields harvested, Monterey, San Luis Obispo counties. Harvest wound down, San Joaquin Valley. Insects, disease hampered melon development, San Joaquin, Coachella valleys. Melons picked, Coachella Valley. Onions harvested, Imperial, Riverside counties; planting began Tulelake-Butte Valley. Bell peppers planted, San Joaquin Valley; harvested, desert areas. Spring potatoes harvested, Kern County; summer potatoes progressed, San Jacinto Valley. Fall potato planting started, Tulelake-Butte Valley. Sweet corn harvested, Riverside County, San Joaquin Valley. Fresh market tomato transplanted, San Joaquin Valley. Growers planted processing tomatoes, Sacramento, San Joaquin Valleys. Other crops harvested: Oriental vegetables, eggplant, fava, green beans, green onions, radishes, okra, radishes, peas, squash, turnips, tomatillos. Rangeland, pasture conditions generally excellent. Some higher pasture, rangeland began to dry. Supplemental feeding, light. Soil moisture, adequate. Snow melt provided ample river, stream flows. Cattle, sheep, good condition. Some cattle movement, higher pastures. Bee hives moved into fields.

COLORADO: After dry, warm day on 15th, temperatures were at or below normal for week statewide. An upper level trough provided heavy rains statewide on 17th, most significant along northern front range. These conditions remained rest of week as scattered afternoon, evening thunderstorms dropped localized hail, heavy rains mostly on eastern plains.

Days suitable for fieldwork 3.0. Topsoil 1% very short, 4% short, 76% adequate, 19% surplus. Subsoil 2% very short, 10% short, 80% adequate, 8% surplus. Winter wheat 93% jointed, 92% 1994, 88% avg. Spring wheat 92% seeded, 97% 1994, 90% avg.; 74% emerged, 81% 1994, 65% avg.; 1% very poor, 1% poor, 22% fair, 48% good, 28% excellent. Corn 16% emerged, 54% 1994, 52% avg. Spring barley 95% seeded, 98% 1994, 95% avg.; 77% emerged, 92% 1994, 86% avg.; 1% poor, 23% fair, 47% good, 29% excellent. Oats 89% seeded, 90% 1994, 91% avg.; 67% emerged, 81% 1994, 76% avg.; 1% very poor, 2% poor, 23% fair, 58% good, 16% excellent. Dry onions 1% very poor, 4% poor, 7% fair, 73% good, 15% excellent. Sugarbeets 0% thinned, 7% 1994, 9% avg.; 1% very poor, 3% poor, 9% fair, 69% good, 18% excellent. Summer potatoes 92% planted, 100% 1994, 93% avg.; 28% emerged, 86% 1994, 73% avg. Fall potatoes 83% planted, 88% 1994, 76% avg.; 2% emerged, 5% 1994, 1% avg. Dry beans 2% planted, 6% 1994, 9% avg. Alfalfa 1% 1st cutting, 15% 1994, 15% avg. Livestock mostly in good to excellent condition.

FLORIDA: Temperatures 1 to 7° above normal. Lows: mid 50s north, 60s central, south, mid 70s lower east coast. Highs: mid 90s north, upper 90s central; south. Rainfall less than 0.20 in. Panhandle, Big Bend, 0.15 to 1.25 in. northern Peninsula; 0.30 to 2.00 in. central, south. Greatest amount of rain reported was 2.81 in. Okeechobee County.

Soil moisture adequate to surplus Panhandle, northern Peninsula very short to adequate, central Peninsula very short to short, southern Peninsula short to adequate. Heavy rains delayed field work. Peanut planting winding down. Cotton, soybean planting active. Some cotton replanting. Small grains harvest was active. Hot temperatures, showers, low markets bringing most harvest in Dade County, around Immokalee to an end. Almost 0.50 in. rain fell around Palmetto-Ruskin, more is needed. Panhandle, northern regions received from about 0.10 to over 0.50 in. of rain. Several producers in Palmetto-Ruskin area opening fields to U-Pic. Sumter County watermelon harvest began; melons in Alachua, Marion counties were ready to pick. Volume leaders were: Watermelons, potatoes, tomatoes, sweet corn, cucumbers, peppers, celery, eggplant, squash, snap beans. First part of week hot, dry, irrigation active all citrus areas. Some fruit softening in dry groves. Valencia harvest was slowing due to limited supplies, hot weather. Grapefruit movement was almost over for this season. Caretakers are cutting cover crops, disking to preserve moisture, as well as spraying, fertilizing. Cattle herds were poor 5%, fair 40%, good 55%.

GEORGIA: Temperatures 2 to 5° above normal. Highs low to mid 90s except mid to upper 80s mountains. May 20th, 21st minimum temperatures cooled to mid 40s mountains, 50s remainder of State except 60s immediate coast. Scattered thunderstorms 21st, 18th, 19th brought needed rains to areas of State. Rain totals mostly 0.33 to 0.75 in. range, local totals of 1.00 to 2.00 in. Heavier rains common southern areas.

Days suitable for fieldwork 5.7. Soil moisture 31% very short; 42% short; 27% adequate. Planting continues where soil moisture levels allow. Some areas had rain with high wind, local areas of damage to recently emerged crops reported. Spraying some areas. Corn 3% very poor, 6% poor, 49% fair, 40% good, 2% excellent; 4% silked, 14% 1994, 6% avg. Cotton 4% squaring, NA 1994, NA avg. Hay 10% very poor, 20% poor, 43% fair, 27% good. Peanuts 2% very poor, 4% poor, 43% fair, 51% good; 87% planted, 94% 1994, 83% avg.; 5% blooming, NA 1994, NA avg. Sorghum 1% very poor, 5% poor, 55% fair, 39% good; 57% planted, 73% 1994, 54% avg. Soybeans 7% very poor, 12% poor, 57% fair, 24% good. Tobacco 1% poor, 47% fair, 52% good. Wheat 10% harvested for grain, 11% 1994, 5% avg. Other small grains 2% very poor, 14% poor, 60% fair, 24% good. Onions 2% poor, 47% fair, 51% good; 97% harvested, 90% 1994, 89% avg. Watermelons 5% poor, 46% fair, 49% good; 99% planted, 99% 1994, 98% avg. Other vegetables 3% poor, 41% fair, 56% good. Apples 1% poor, 21% fair, 78% good. Peaches 13% poor, 44% fair, 43% good; 11% harvested, 34% 1994, 17% avg. Cattle 6% poor, 40% fair, 54% good. Hogs 1% very poor, 4% poor, 33% fair, 61% good, 1% excellent. Activities: Haying as weather permits, irrigating some areas, weed control most areas, few reports feeding hay to cattle on pastures, routine care livestock, poultry.

HAWAII: Partly cloudy conditions much of week. Light scattered showers, windward, upper elevations. Partly sunny, generally dry, leeward sectors. Soil moisture levels adequate most areas. Brisk trade winds weakens, turns variable by midweek. Temperatures mid 60°s to mid 80°s. Rainfall none to 2.40 in.

Warm days along with cool nights benefitted most crops. Banana, papaya production light. Insect infestations generally light.

IDAHO: Temperatures 3° below normal to 4° above normal. North, east experienced above normal temperatures. Southwest, south central mostly normal or below. Precipitation none to 0.79 in. north, none to 0.23 in. southwest, none to 0.07 in. south central, none to 0.47 in. southeast. Planting progressed with warmer, dryer weather. Extremes 29°; 86°.

Days suitable for fieldwork 6. Topsoil 1% short, 86% adequate, 13% surplus. Irrigation water supplies 57% good, 43% excellent. Grass growth improved with warmer weather. Hay, roughage supply 9% very short, 22% short, 68% adequate, 1% surplus. Spring wheat planted 91%, 99% 1994, 94% avg. Barley planted 85%, 99% 1994, 94% avg.; emerged 67%, 91% 1994, 79% avg. Oats planted 75%, 93% 1994, 85% avg.; emerged 47%, 82% 1994, 67% avg. Sugarbeets emerged 72%, 97% 1994, 89% avg. Potatoes planted 63%, 86% 1994, 77% avg.; emerged 5%, 29% 1994, 17% avg. Dry peas planted 73%, 97% 1994, 88% avg.; emerged 45%, 91% 1994, 73% avg. Corn planted 62%, 82% 1994, 72% avg.; emerged 11%, 42% 1994, 31% avg. Lentils planted 50%, 97% 1994, 86% avg. Winter wheat jointed 56%; in boot stage 20%. Calving, lambing virtually completed. Activities: Moving livestock, branding, fencing, preparing for irrigation, irrigating, fertilizing, applying pesticides, planting small grains, corn, dry beans, dry peas. Farmers are starting to cut alfalfa.

ILLINOIS: Temperatures 1 to 4° below normal most areas with coolest areas mainly in north. High temperatures for period ranged from upper 60s to mid 70s. Lows 40s to upper 50s. Unsettled weather continued for State. Thunderstorms repeatedly moved from central Missouri across southern State into Ohio Valley, heavy rains some areas. High pressure brought mostly dry weather over weekend. Rainfall for week ranged under an inch northern part of State to several inches south.

Days suitable for fieldwork 0.8. Topsoil 8% adequate, 92% surplus. Corn planting progressed to 37% by 21st, only a percentage point increase from last week. Cool weather with heavy rains slowing germination, emergence of crops already planted. Some areas will need to be replanted if time allows due to standing water, flooded areas. Activities: mowing lawns, ditches; equipment repair, maintenance; scouting for cutworms; care of livestock. Oats 15% headed, 6% 1994, 5% avg. Alfalfa 2% first cutting, 20% 1994, 15% avg. Red clover 1% cut, 12% 1994, 7% avg. Alfalfa 1% poor, 14% fair, 60% good, 25% excellent. Red clover 1% very poor, 1% poor, 14% fair, 63% good, 21% excellent.

INDIANA: Strong thunderstorms, flash flooding occurred in mainly central, southern parts of State on 17th, 18th. Low pressure, a frontal system produced stormy conditions. High temperatures upper 60s to low 70s north, mid to upper 70s south, which was 1 to 4° below normal across much of State. Lows averaged in mid 40s to lower 50s north, central to 50s south. These averages were normal to below normal by as much as 6° across State. Coolest readings near 40° far northeast to 40s to around 50° south. Rainfall 0.40 to 1.75 in. north, 2.00 to 6.40 in. central, south. This was above normal by 1.00 to 5.00 in. across much of central, south, below normal by up to 0.40 in. far north. Soil temperatures at 4 in. depth under bare ground averaged from upper 50s to mid 60s north to mid 60s south.

Days suitable for fieldwork 1.3. Topsoil 52% adequate, 46% surplus. Subsoil 2% short, 45% adequate, 53% surplus. Corn, soybean planting made some progress, northern areas. Wet soils limited fieldwork central, southern areas. Flooding, ponding some fields. Corn emergence slow, yellowish color many fields. Land 90% prepared, 90% 1994, 85% avg.

IOWA: Temperatures 1 to 2° below normal. Extremes 34°; 84°. Dry northwest half, moderate to heavy midweek rain south, east. Parts of northwest dry to 5.26 in. rain extreme southeast; State average 0.44 in. (normal 0.92 in.).

Days suitable for fieldwork 3.6. Warmer, drier week across most of State. Topsoil moisture adequate 44%, surplus 56%. Subsoil moisture adequate 44%, surplus 56%. 1995 primary seedbed preparation completed (includes fall tillage) 79%, 100% 1994, 91% avg. 1995 row crop acreage fertilizer applied (includes fall applications) 86%, 100% 1994, 93% avg. Oats 1% very poor, 9% poor, 39% fair, 42% good, 9% excellent; planted 93%, 100% 1994, 97% avg.; emerged 87%, 100% 1994, 93% avg. Producers working around clock planting corn. Corn planted 62%, 100% 1994, 80% avg.; emerged 16%, 84% 1994, 53% avg. Emergence hampered by cool soil temperatures, crusting. Soybeans planted 17%, 86% 1994, 43% avg. Winter wheat 1% poor, 26% fair, 62% good, 11% excellent. Hay 4% poor, 33% fair, 50% good, 13% excellent. Livestock conditions most areas improved with warmer, dryer weather. Calves not experiencing as many problems with scours, pneumonia; southern districts continue to report livestock problems due to wet weather, muddy conditions. Feedlots across State remain muddy.

KANSAS: Temperature below normal in all districts except the southeast. Precipitation amounts were moderate to heavy in most areas; 0.90 in. southwest to 5.10 in. east central district.

Days suitable for fieldwork 2.0. Topsoil moisture 2% short, 42% adequate, 56% surplus. Subsurface moisture 1% very short, 8% short, 62% adequate, 29% percent surplus. Wheat progress has been slowed by cool wet weather. Warm, sunny weather is needed to dry out water logged fields, promote growth. Severe storms occurred in many areas past week. Strong winds, hail damaged crops, property in many areas of State, particularly west central, central, east central districts. Wheat diseases increased across State. Wet conditions favoring foliar diseases such as rust, tan spot, powdery mildew which are reported across State, particularly southeastern quadrant of State. Barley yellow dwarf prevalent southern areas. Alfalfa cut first time 9%, 41% 1994, 31% avg. Wet weather has severely hampered efforts to complete fieldwork. When, where possible farmers were planting corn, preparing for sorghum, soybean planting.

KENTUCKY: Highs normal, lows 3 to 5° above normal. Precipitation averages well above normal except Cumberland Gap, 0.50 in. below normal.

Days suitable for fieldwork 0.5. Excessive rain flooded lowland, halted fieldwork. Wind, tornadoes damaged homes, barns. Topsoil moisture 11% adequate, 89% surplus. Subsoil moisture 25% adequate, 75% surplus. Emerged corn 3% very poor, 13% poor, 38% fair, 43% good, 3% excellent. Burley tobacco set 9% 19%, 1994 22% avg. Dark tobacco set 19%, 26% 1994, 24% avg. Plants in beds big. Some beds mowed twice. Barley crop suffered some lodging from rain, wind, a few reports wheat lodging. Hay crops mature and beyond. Condition of hay crop 1% very poor 8% poor, 34% fair, 46% good, 11% excellent.

LOUISIANA: Temperatures 3 to 5 ° above normal. Extremes 48°; 94° Rainfall 0.13 in. north central to 2.60 in. east central.

Days suitable for fieldwork 4.4. Soil moisture 2% short, 59% adequate, 39% surplus. Corn 1% very poor, 5% poor, 20% fair, 64% good, 10% excellent; 9% silked, 5% 1994, 4% avg. Corn was picking up fertilizer, growing very rapidly. Cotton 90% emerged, 90% 1994, 77% avg. Cooler than normal temperatures slowed growth. Hay 25% first cutting, 41%

1994, 33% avg. Drier weather allowed for increased baling activity. Peaches 0% harvested, 3% 1994, 4% avg. Rice producers began to flush fields in northern part of State. Sorghum 5% poor, 28% fair, 63% good, 4% excellent; 74% emerged, 67% 1994, 68% avg. Soybeans emerged 28%, 21% 1994, 21% avg. Very little soybean planting occurred due to continued wet conditions. Spring plowing 96% plowed, 96% 1994, 91% avg. Sugarcane 4% poor, 18% fair, 66% good, 12% excellent. Some areas remain flooded. Sweetpotatoes 11% planted, 10% 1994, 19% avg.; planting continued. Wheat 7% poor, 32% fair, 58% good, 3% excellent; 98% headed, 97% 1994, 99% avg.; 95% turning color, 89% 1994, 89% avg.; 15% harvested, 8% 1994, 18% avg. Vegetables 1% very poor, 10% poor, 32% fair, 49% good, 8% excellent. Livestock 2% poor, 18% fair, 63% good, 17% excellent.

MARYLAND & DELAWARE: Maryland: Precipitation 1.45 in., normal 0.83 in. Temperature 65.4°, normal 63.0°. Extremes 33°; 86°. Low temperatures were mostly in the low 40s to mid 50s. Highs were mainly in the upper 70s to low 80s.

Days suitable for fieldwork 3.6. Topsoil 87% adequate, 13% surplus. Subsoil 12% short, 83% adequate, 5% surplus. Winter wheat 5% poor, 23% fair, 68% good, 4% excellent; 96% headed, 71% 1994, 78% avg. Rye 3% poor, 17% fair, 74% good, 6% excellent; 69% headed, 85% 1994, 92% avg. Barley 1% very poor, 5% poor, 22% fair, 70% good, 2% excellent; 99% headed, 99% 1994, 98% avg.; 15% turned, 28% 1994, 32% avg. Corn 80% planted, 82% 1994, 81% avg. Soybeans 12% planted, 14% 1994, 15% avg. Other hay 12% 1st cutting, 17% 1994, 17% avg. Alfalfa hay 10% 1st cutting, 32% 1994, 32% avg. Cantaloupe 56% planted, 73% 1994, 72% avg. Potatoes 99% planted, 97% 1994, 99% avg. Sweet corn 59% planted, 62% 1994, 62% avg. Tomatoes 61% planted, 78% 1994, 76% avg. Watermelons 51% planted, 70% 1994, 69% avg. Apples 87% bloomed, 99% 1994, 99% avg. Strawberries 95% bloomed, 90% 1994, 94% avg.; 9% harvested, 13% 1994, 13% avg. Pasture 8% fair, 62% good, 30% excellent. Activities: Planting of spring crops, vegetables.

Delaware: Precipitation 1.02 in., normal 0.78 in. Temperature 63.0°, normal 63.3°. Extremes 46°; 80°. High temperatures upper 70s to 80°. Lows in the mid to upper 40s.

Days suitable for fieldwork 3.3. Topsoil 95% adequate, 5% surplus. Subsoil 17% short, 80% adequate, 3% surplus. Winter wheat 13% fair, 77% good, 10% excellent; 86% headed, 64% 1994, 73% avg. Barley 17% fair, 76% good, 7% excellent; 9% turned, 0% 1994, 30% avg. Corn for grain 80% planted, 90% 1994, 88% avg. Soybeans 8% planted, 5% 1994, 10% avg. Sorghum 5% planted, 23% 1994, 27% avg. Other hay 12% 1st cutting, 38% 1994, 37% avg. Alfalfa hay 12% 1st cutting, 29% 1994, 30% avg. Cantaloupe 36% planted, 41% 1994, 55% avg. Green peas 98% planted, 99% 1994, 99% avg.; 5% harvested, 1% 1994, 2% avg. Sweet corn 65% planted, 70% 1994, 70% avg. Tomatoes 49% planted, 41% 1994, 52% avg. Watermelons 50% planted, 53% 1994, 63% avg. Apples 98% bloomed, 97% 1994, 99% avg. Strawberries 99% bloomed, 96% 1994, 96% avg. Activities: Planting of spring crops, vegetables.

MICHIGAN: Extremes 31°; 80°. Precipitation none to 1.13 in. across State. Conditions were favorable. Soil temperatures warmed up, soils were drier than previous week. Temperatures near normal with some light precipitation. Favorable weather helped speed up planting, spring tilling. Despite recent warmth, seasonal growing degree day totals remained below normal.

Days suitable for fieldwork 5.5. Topsoil moisture 4% short, 84% adequate, 12% surplus. Subsoil moisture 7% short, 81% adequate, 12% surplus. Acres tilled for planting 78%, 85% 1994, 83% avg. Barley planted 91%, 88% 1994, 91% avg. Oats planted 91%, 93% 1994, 94% avg.; emerged 52%, 74% 1994, 72% avg.; 3% very poor, 28% fair, 58% good, 11% excellent. Potatoes planted 65%, 65% 1994, 67% avg. Sugarbeets planted 99%, 98% 1994, 98% avg. Major activities included planting, tilling, herbicide spraying.

MINNESOTA: Temperatures about normal in the northeast, southeast, below normal elsewhere. Extremes 29°; 85°. Precipitation 0.36 to 0.80 in. below normal for the State. Greatest weekly total 0.74 in.

Days suitable for fieldwork 3.9. Topsoil 1% short, 62% adequate, 37% surplus. Spring wheat 47% planted, 95% 1994, 96% avg.; 30% emerged, 56% 1994, 76% avg. Oats 80% seeded, 98% 1994, 97% avg.; 60% emerged, 86% 1994, 83% avg. Barley 40% seeded, 92% 1994, 94% avg.; 27% emerged, 56% 1994, 75% avg. Potatoes 36% planted, 72% 1994, 69% avg. Sweet corn 36% planted, 77% 1994, 52% avg. Dry beans 14% planted, 49% 1994, 45% avg. Flax 10% planted, 50% 1994, 58% avg. Sunflowers 12% planted, 53% 1994, 56% avg. Sugarbeets 70% planted, 98% 1994, 97% avg. Green peas 69% planted, 91% 1994, 74% avg. Corn 80% ground prepared, 98% 1994, 86% avg.; 70% planted, 94% 1994, 80% avg.; 22% emerged, 49% 1994, 39% avg. Soybeans 48% ground prepared, 81% 1994, 65% avg.; 34% planted, 70% 1994, 46% avg.; 4% emerged, 13% 1994, 10% avg.

MISSISSIPPI: Temperatures 3.0° above normal. Extremes 45°; 95°. Soil temperatures 80°. Precipitation 1.08 in., 0.10 in. below normal. Rainfall throughout State: 0.22 in. lower delta district to 2.53 in. north district.

Days suitable for fieldwork 5.1. Soil moisture 1% very short, 9% short, 75% adequate, 15% surplus. Corn 99% planted, 98% 1994, 87% avg.; 97% emerged, 97% 1994, 81% avg.; 3% poor, 25% fair, 52% good, 20% excellent. Soybeans 53% planted, 63% 1994, 26% avg.; 40% emerged, 49% 1994, 19% avg.; 3% poor, 32% fair, 45% good, 20% excellent. Wheat 29% mature, 30% 1994, 36% avg.; 5% poor, 59% fair, 26% good, 10% excellent. Hay 30% harvested, 29% 1994, 23% avg.; 1% very poor 2% poor, 43% fair, 51% good, 3% excellent. Peanuts 95% planted, 90% 1994, 53% avg.; 3% fair, 47% good, 50% excellent. Sweetpotatoes 10% planted, 11% 1994, 23% avg.; 17% fair, 83% good. Watermelons 92% planted, 92% 1994, 86% avg.; 32% fair, 56% good, 12% excellent. Cattle 3% poor, 19% fair, 61% good, 17% excellent. Main farming activities included: Planting cotton, soybeans, rice, sorghum. Dry conditions have allowed good progress in planting of row crops. High boll weevil counts are being reported in trap catches. Thrips, ladybugs, other insects are a problem in some areas. Producers are busy applying additional nitrogen fertilizer, cultivating emerged crops. Sweetpotato growers are starting to transplant. Hay is being harvested in most areas of the State.

MISSOURI: Temperatures 2° below normal across State, except extreme southern counties above normal. Precipitation 3.46 in., varying from 1.08 in. southeast, to between 3.00 to 8.00 in. across middle third of State, heaviest east central. Wide spread flooding in lowland areas, particularly along rivers.

Days suitable for fieldwork 1.0. Topsoil 17% adequate, 83% surplus. Corn planting ranges from 4% northeast, to 98% southeast, most areas no progress. Soybean planting ranges virtually none most northern, central areas to 9% southeast. Sorghum planting ranges from less than 3% northern half of State to 38% southeast. Wheat mostly fair to good in all areas, leaf diseases showing up. Winter wheat heading ranges less than 50% northern third to virtually complete southern. Alfalfa first cutting 5%, 24% 1994, 17% avg. Other hay 1%, 12% 1994, 6% avg. Ground tilled for spring crops 78%, 91% 1994, 80% avg.

MONTANA: Temperatures were below normal for beginning of week warming up by weekend. Below normal precipitation in all divisions. Accumulated precipitation still ahead of normal for most stations due to heavy precipitation amounts earlier.

Days suitable for fieldwork 4.0. Topsoil moisture 1% very short, 4% short, 68% adequate, 27% surplus. Subsoil moisture 4% very short, 14% short, 65% adequate, 17% surplus. Barley 72% planted, 89% 1994, 87% avg.; 53% emerged, 63% 1994, 55% avg. Oats 60% planted, 87% 1994, 86% avg.; 42% emerged, 50% 1994, 49% avg. Sugarbeets 97% planted, 100% 1994, 98% avg. Corn 70% planted, 82% 1994, 63% avg. Dry beans 38% planted, 68% 1994, 48% avg. Potatoes 41% planted, 72% 1994, 37% avg. Calving 98% complete. Lambing 81% complete. Cattle, calves moved to summer ranges, 52%. Sheep, lambs moved to summer ranges, 53%.

NEBRASKA: Temperatures 1 to 4° below normals. Scattered precipitation varying from a trace in northeast up to 1.78 in. northwest.

Days suitable for fieldwork 4.7. Topsoil 60% adequate, 40% surplus. Subsoil moisture 1% short, 71% adequate, 28% surplus. Wheat 1% poor, 14% fair, 79% good, 6% excellent; 100% jointed, 93% 1994, 96% avg.; 2% headed, 17% 1994, 24% avg. Corn 64% planted, 99% 1994, 90% avg. Soybeans 4% planted, 65% 1994, 38% avg.

NEVADA: Week began amidst a cold, wet pattern that continued to drop moisture through 17th west, 18th east. Temperatures normal 18th, showers lessened. Divisional temperatures 6° below normal in south to 1° below northeast. Extremes 12° Bodie, 102° Laughlin. Greatest precipitation totals in northwest, averaging 0.50 in. Yerington received 1.04 in., Fallon 0.47 in. Fallon already received record May precipitation, 3.09 in.

Days suitable for fieldwork 4.6. Cool wet weather delayed completion of Spring planting. Spring wheat, barley planting nearly complete, oats planting past midway point. Standing water some fields prevented completion of potato planting. Field crops, grains, grasses in good to excellent condition. Alfalfa growth 2 to 3 weeks behind due to cool weather. Haying underway extreme south, ranges continuing to thrive. Movement cattle, sheep to summer range underway, except along Sierra. Calving nearing completion. Lambing well along. Lamb losses greater than normal due to wetness, cold nights. Shearing slowed due to cool, wet weather. Main activities: Calving, lambing, planting, irrigation.

NEW ENGLAND: Precipitation none to 1.70 in. regionwide. Temperatures 49 to 56° north; 52 to 58° south. Maximum temperatures 64 to 76° north; 67 to 81° south. Minimum temperatures 30 to 44° north; 33 to 47° south.

Days suitable for fieldwork 5.1. Topsoil 15% short, 79% adequate, 6% surplus. Subsoil 24% short, 70% adequate, 6% surplus. Maine potatoes 50% planted, 35% 1994, 45% avg. Rhode Island potatoes 75% planted, 75% 1994, 65% avg.; 25% emerged, good. CT River Valley potatoes 90% planted, 75% 1994, 70% avg.; 20% emerged, good. Field corn 45% planted, 35% 1994, 40% avg.; 5% emerged, good. Sweet corn 45% planted, 35% 1994, 40% avg.; 25% emerged, good. Maine oats 55% planted, 45% 1994, 60% avg.; 15% emerged. Maine barley 55% planted, 20% emerged. Shade tobacco 15% planted 40% 1994, condition good. Outdoor tobacco 5% planted,< 5% 1994, good. First hay crop condition good/fair. Apples in full bloom stage, condition good. Peaches in petal fall/full bloom stage, condition good/fair. Pears in petal fall/full bloom stage, condition good. Strawberries in full bloom stage, condition good. Cranberries in bud stage, condition good. Highbush blueberries in early bloom/bud stage, condition good. Wild blueberries in bud stage, condition excellent. Rains again this week helped to alleviate dry conditions in region somewhat, more still needed. Continued dry, cooler-than-normal conditions allowed plantings to progress ahead of schedule, while slowing emergence. Activities: Tilling, fertilizing, seeding grassland, fixing fences, moving livestock to pastures, planting early crops.

NEW JERSEY: Temperatures slightly below normal north, central, slightly above normal south. Extremes 35°; 84°. Rainfall 0.68 in. north, 0.33 in. central, 1.31 in. south. Heaviest 24 hour total was 1.25 in. on the 17th to 18th. Estimated soil moisture, in percent of field capacity, averaged 90% north, 88% central, 94% south.

Days suitable for fieldwork 4. Topsoil moisture reported as adequate. Farmers spraying crops, planting peas, carrots, sweet potatoes, lettuce, tomatoes, spinach, snap beans, other vegetables. Harvesting asparagus, herbs, kale, basil, green onions, parsley, beets, turnips, radishes, leeks, lettuce (all types except iceberg), Chinese cabbage. Field corn, soybean planting reported in selected areas of southern areas. Wheat, rye are heading up. Strawberry harvest has started in southern areas. Peaches shuck split stage is nearly complete with some areas reporting peaches sizing well. Apples are in the petal fall stage.

NEW MEXICO: Temperatures generally near normal. Gallup, Taos, Raton, Capulin were exceptions with anomalies of -5 to -6°. Statewide 1° below normal. Most precipitation fell during a midweek winter like storm that mainly hit northern counties. Greatest precipitation totals included 0.70 in. at Taos, Chama, 0.44 in. at Capulin, 0.39 in. at Raton.

Days suitable for fieldwork 6.3. Soil moisture 39% very short, 34% short, 27% adequate. Alfalfa 2% very poor, 9% poor, 50% fair, 38% good, 1% excellent. Wheat 62% very poor, 2% poor, 9% fair, 27% good. Corn 1% poor, 31% fair, 67% good, 1% excellent; 92% planted. Cotton 2% poor, 47% fair, 49% good 2% excellent; 83% planted, 82% 1994, 89% avg. Sorghum 1% poor, 3% fair, 96% good; 27% planted, 12% 1994, 30% avg. Chile 1% very poor, 10% poor, 40% fair, 48% good, 1% excellent. Onions 30% fair, 68% good, 2% excellent. Lettuce 10% poor, 10% fair, 45% good, 35% excellent; 95% harvested. Pecans 48% poor, 17% fair, 32% good, 3% excellent. Apples 38% poor, 62% fair. Cattle 5% very poor, 24% poor, 41% fair, 30% good. Sheep 5% very poor, 22% poor, 41% fair, 31% good, 1% excellent.

NEW YORK: Predominantly overcast, light rain or drizzle most areas during week. Rainfall was below normal. Cloudy skies caused below normal daily maximum temperatures, above normal daily minimums. Result was normal weekly average temperatures. Extremes 30°; 84°.

Days suitable for fieldwork 6.0. Soil moisture 13% very short, 62% short, 25% adequate. A good, soaking rain is needed. Corn 50% planted, 33% 1994, 51% average. Early planted fields up. Oats 74% seeded, 75% 1994, 76% avg. Potato planting continued. Hay near ready for cutting, development slower than normal. Apples Hudson Valley in full bloom. Pears at petal fall stage. Cherries show good crop potential. Pollination conditions near ideal for all fruit. Dry, windy conditions stressed Orange County onions. Some onion fields replanted central part of State after being damaged by winds. Vegetable planting progressing rapidly. Warm weather promoted strawberry growth. Asparagus harvest active. Early sweet corn planted under plastic up, good condition.

NORTH CAROLINA: Rain showers occurred throughout most of the State. Some areas had storms with hail, high winds, causing some damage to crops. Temperature 72°, 4° above normal. Extremes 42°; 91°. Precipitation 1.05 in., 0.17 in. above normal.

Days suitable for fieldwork 5.6. Soil moisture 2% very short, 19% short, 75% percent adequate, 4% surplus. Flue cured tobacco 94% transplanted, 93% 1994, 93% avg. Peanuts 80% planted, 85% 1994, 78% avg. Sorghum 19% planted, 35% 1994, 42% avg. Burley tobacco 24% transplanted, 14% 1994, 19% avg. Sweetpotatoes 25% transplanted, 30% 1994, 28% avg. Condition of crops remains fair to good. Oats 1% very poor, 7% poor, 33% fair, 56% good, 3% excellent; barley 2% very poor, 15% poor, 46% fair, 35% good, 2% excellent; rye 5% very poor, 16% poor, 36% fair, 43% good; Irish potatoes 2% very poor, 9% poor, 21% fair, 66% good, 2% excellent; peaches 8% fair, 88% good, 4% excellent; truck crops 2% poor, 58% fair, 39% good, 1% excellent; corn 2% poor, 17% fair, 77% good, 4% excellent; apples 7% fair, 77% good, 16% excellent; peanuts 23% fair, 77% good; soybeans 13% fair, 87% good; sweetpotatoes 100% good; hay 2% very poor, 8% poor, 39% fair, 48% good, 3% excellent; tobacco in fields 3% poor, 31% fair, 62% good, 4% excellent; supplies of tobacco plants 1% very short, 22% short, 77% adequate; hay, roughage supplies 11% short, 86% adequate, 3% surplus. Activities: Planting corn, cotton, peanuts, soybeans, sorghum, transplanting tobacco, sweetpotatoes, spraying corn fields, harvesting strawberries, early season vegetables, cutting hay, tending livestock, repairing equipment, general maintenance.

NORTH DAKOTA: Temperatures cooler than normal, varied springtime showers. Temperatures 2 to 3° below normal. Extremes 24° west central; 80° south central. Precipitation 0.04 in. south central to 0.52 in. northeast.

Days suitable for fieldwork 5. Soil moisture well above average. Topsoil moisture 62% adequate, 38% surplus. Subsoil moisture 64% adequate, 36% surplus. Excellent drying weather accelerated planting progress, small grain planting progress still three weeks behind average. Hard red spring wheat 30% planted, 86% 1994, 92% avg.; durum 17% planted, 74% 1994, 82% avg.; oats 26% planted, 85% 1994, 90% avg.; barley 26% planted, 89% 1994, 93% avg. Late season crop planting well behind average. Flaxseed 5% planted, 41% 1994, 50% avg.; corn 30% planted, 63% 1994, 67% avg.; dry edible beans 4% planted, 34% 1994, 32% avg.; soybeans 6% planted, 55% 1994, 54% avg.; sunflower 1% planted, 35% 1994, 26% avg.; sugarbeets 67% planted, 98% 1994, 99% avg.; potatoes 33% planted, 69% 1994, 62% avg. Hay, roughage supplies 4% very short, 12% short, 82% adequate, 2% surplus. Grain, concentrate supplies 4% short, 93% adequate, 3% surplus.

OHIO: Strong thunderstorms, heavy rain occurred. Low pressure, a frontal system produced stormy, damp weather. Highs low 70s north to mid 70s south, mostly near to as much as 4° below normal. Lows upper 40s, low 50s north to low to mid 50s south. These averages were mostly 1 to 4° above normal, except for 1 to 3° below normal over parts of the northwest. Coolest readings were in the 40s. Rainfall totals averaged 1.00 to 3.00 in. which was 0.40 to 2.40 in. above normal in most areas. Soil temperatures at the 4 in. depth under bare ground averaged from around 60° to mid 60s north to mid 60s south.

Days suitable for fieldwork 2.2. Soil moisture 24% adequate, 76% surplus. Planting slowed another week by heavy rains. Planting, emergence behind last year, average. Weekend conditions allowed fieldwork in dry soils. Flooding, ponding were found in low fields. Dry weather is needed for good root system development. Several vegetable plantings were eroded, flooded. Some livestock were stranded in outside lots, no deaths were reported. Oats planted 98%, 100% 1994, 100% avg. Sugarbeets planted 98%, 100% 1994, 100% avg. Corn emerged 27%, 52% 1994, 55% avg. Soybeans emerged 7%, 22% 1994, 22% avg. Oats emerged 87%, 98% 1994, 90% avg. Wheat jointed 97%, 81% 1994, 82% avg. Alfalfa hay first cutting 4%, 14% 1994, 13% avg. Hay 4% poor, 21% fair, 56% good, 19% excellent. Apples 1% poor, 20% fair, 66% good, 13%

excellent. Peaches 2% very poor, 4% poor, 28% fair, 55% good, 11% excellent.

OKLAHOMA: Temperatures 1.5° below normal south central to 2.1° above normal northeast district. Precipitation 0.02 in. central district to 0.72 in. west central district.

Days suitable for fieldwork 4.6. Topsoil 6% short, 83% adequate, 11% surplus. Subsoil 2% very short, 10% short, 75% adequate, 13% surplus. Wheat 10% very poor, 9% poor, 29% fair, 49% good, 3% excellent; 99% heading, 99% 1994, 95% avg.; 36% soft dough, 33% 1994, 45% avg.; oats 66% heading, 72% 1994, 72% avg.; 18% soft dough, 19% 1994, 29% avg.; barley 78% heading, 65% 1994, 69% avg.; 16% soft dough, 9% 1994, 24% avg.; corn 90% planted, 99% 1994, 95% avg.; 79% up-to-stand, 96% 1994, 85% avg.; sorghum 69% seedbed prepared, 84% 1994, 77% avg.; 11% planted, 29% 1994, 22% avg.; 5% up-to-stand, 17% 1994, 7% avg.; soybeans 68% seedbed prepared, 87% 1994, 74% avg.; 26% planted, 45% 1994, 29% avg.; 15% up-to-stand, 20% 1994, 10% avg.; peanuts 85% seedbed prepared, 86% 1994, 80% avg.; 28% planted, 35% 1994, 30% avg.; 5% up-to-stand, 10% 1994, 7% avg.; cotton 12% fair, 62% good, 26% excellent. Cotton 88% seedbed prepared, 94% 1994, 88% avg, 30% planted, 31% 1994, 31% avg.; 6% up-to-stand, 15% 1994, 11% avg. Alfalfa hay 67% 1st cutting, 66% 1994, 61% avg.; 2% 2nd cutting, 2% 1994, 1% avg.; other hay 45% 1st cutting, 36% 1994, 37% avg. Livestock 2% poor, 13% fair, 76% good, 9% excellent. Prices for feeder steers, heifers were steady to $1.00/cwt lower.

OREGON: Temperatures near normal. Coast, southwestern interior, Willamette Valley, northeast normal to 3° above normal. Elsewhere normal to 3° normal. Precipitation scant, coast 0.10 in., elsewhere dry.

Days suitable for fieldwork 5.0. Topsoil 1% short, 83% adequate, 16% surplus. Subsoil moisture 1% short, 92% adequate, 7% surplus. Winter wheat 4% very poor, 9% poor, 35% fair, 43% good, 9% excellent. All barley planted 82%. Dry weather provided chance to catch up with cultivation, weed control. Eastern winter wheat growth, development varied. First cutting hay underway, western sections. Eastern vegetable cultivation continued, potato planting continued later than normal. Willamette Valley green beans, sweet corn emerged, planting continued, strawberries bloom continued, early strawberries sizing well, Marion blackberries underway, raspberry bloom continued, hazelnuts set. Cherry fruit sizing well, The Dalles district. Cranberry development ranged from pre-bloom to early bloom. Hood River Valley cover spraying, weed control, thinning underway. Good pear set, Hood River Valley. Willamette Valley nursery industry field grown stock harvest continued, movement of transplants continued, all crops good, behind normal. Livestock good to excellent. Range conditions improving, forage prospects good, statewide. Calving mostly complete. Range, pasture conditions: 6% fair, 71% good, 23% excellent.

PENNSYLVANIA: Pleasant spring week. Most areas ample rainfall, warm temperatures. No stations reported below freezing temperatures for first time this season. Temperature 64°, 7° above normal. Extremes 33°; 82°. Precipitation 1.09 in., 0.27 in. above normal.

Days suitable for fieldwork 3.2. Soil moisture 1% very short, 20% short, 70% adequate, 9% surplus. Plowing 88% complete, 83% 1994, 85% avg. Soybeans planted 21% complete, 31% 1994, 23% avg. Oats planted 90% complete, 92% 1994, 92% avg. Potatoes planted 65% complete, 67% 1994, 69% avg. Barley 68% heading or headed, 46% 1994, 51% avg. Wheat 34% heading or headed, 9% 1994, 17% avg. Wheat 2% poor, 27% fair, 60% good, 11% excellent. Oat 3% poor, 26% fair, 57% good, 14% excellent. Alfalfa and alfalfa mixtures stand 1% very poor, 3% poor, 27% fair, 59% good, 10% excellent. Timothy clover stand 1% very poor, 4% poor, 31% fair, 51% good, 13% excellent. Alfalfa first cutting 3% complete, 4% 1994, 8% avg. Quality of hay made 26% very poor, 24% poor, 24% fair, 23% good, 3% excellent. Peaches pink stage 100%, 98% 1994, 98% avg.; 96% full bloom or past, 96% 1994, 94% avg. Cherries pink stage 100%, 99% 1994, 98% avg.; 100% full bloom or past, 88% 1994, 92% avg. Apples pink stage 100%, 97% 1994, 95% avg.; 95% full bloom or past, 89% 1994, 86% avg. Activities: Planting oats, corn, soybeans; making hay; cutting haylage; spring plowing; fixing fences; hauling manure; caring for livestock.

PUERTO RICO: Island rainfall 1.73 in., was 0.20 in. above normal. Rainfall 7.32 in. Arecibo Obs, 5.84 in. Cerro Gordo Ciales, 5.78 in. Negro Corozal. Highest 24 hour total 2.95 in. Arecibo Obs. Island temperatures 79 to 80° on coast, 75 to 76° interior. Extremes 58°; 94°.

SOUTH CAROLINA: Temperatures 3° above normal upstate to 5° above normal midland eastward to coast. Hail up to golf ball size in many counties. High winds toppled trees, caused minor property damage north midlands eastward to coastal counties. Maximum observed temperature 100°. Minimum observed temperature 46°. Heaviest 24-hour rainfall 2.15 in. Statewide rainfall averaged 0.80 in.

Days suitable for fieldwork 6.0. Soil moisture 26% very short, 54% short, 20% adequate. Planting continues behind normal pace. Cantaloupes 85% planted, 94% 1994, 88% avg. Corn 48% poor, 36% fair, 16% good. Cucumbers 86% planted, 94% 1994, 91% avg. Hay 69% harvested, 84% 1994, 67% avg. Oats 85% turning color, 83% 1994, 72% avg.; 32% ripe, 45% 1994, 29% avg. Peanuts 68% planted, 90% 1994, 86% avg. Rye 86% turning color, 77% 1994, 69% avg. Snap beans 77% planted, 85% 1994, 77% avg. Sorghum 34% planted, 24% 1994, 29% avg. Sweetpotatoes 26% planted, 34% 1994, 40% avg. Tobacco 3% poor, 64% fair, 33% good; 98% transplanted, 100% 1994, 100% avg. Watermelons 91% planted, 98% 1994, 91% avg. Wheat 7% very poor, 21% poor, 71% fair, 1% good; 34% ripe, 37% 1994, 22% avg.; 2% harvested, 2% 1994, 2% avg. Peaches 3% poor, 53% fair, 40% good, 4% excellent. Pasture feed 2% very poor, 33% poor, 50% fair, 15% good.

SOUTH DAKOTA: Temperatures generally 3 to 6° below normal. Extremes 21°; 85°. It was a relatively dry week with only a few scattered reporting stations recording significant precipitation 0.40 to 0.80 in. Heaviest precipitation 0.83 in. Custer.

Days suitable for fieldwork 3.1. Topsoil 29% adequate, 71% surplus. Subsoil moisture 30% adequate, 70% surplus. Winter wheat 12% boot, 29% 1994, 37% avg. Winter rye 12% boot, 35% 1994, 37% avg.; 1% poor, 22% fair, 58% good, 19% excellent. Barley 54% planted, 96% 1994, 97% avg.; 24% emerged, 86% 1994, 90% avg. Oats 59% planted, 97% 1994, 97% avg.; 35% emerged, 87% 1994, 90% avg. Flax 14% planted, 39% 1994, 60% avg. Sunflowers 0% planted, 19% 1994, 14% avg. Much of increase in percent seeded for small grains due to many areas declaring small grain planting complete because intended small grain acreage will be planted to alternative crops. Tan spot becoming a big problem in winter wheat. Excess moisture was yellowing leaves in winter wheat. Weeds becoming a problem in small grains. Livestock 2% poor, 21% fair, 67% good, 10% excellent. Cattle moved to pasture 68%. Calving 93% complete, lambing 96%. Feed supplies 3% very short, 17% short, 75% adequate, 5% surplus. Stockwater supplies 52% adequate, 48% surplus.

TENNESSEE: Temperatures near to 4° above normal. Extremes 43°; 90°. Powerful storms on 18th brought significant rains, tornadoes, flash flooding.

Days suitable for fieldwork 3.0. Topsoil 52% adequate, 48% surplus. Subsoil moisture 1% short, 64% adequate, 35% surplus. Corn 1% poor, 20% fair, 67% good, 12% excellent; 97% planted, 89% 1994, 81% avg. Cotton 82% planted, 88% 1994, 66% avg. Some corn, cotton, wheat to be flooded along Mississippi River. Sorghum 67% planted, 34% 1994, 37% avg. Tobacco 33% transplanted, 44% 1994, 40% avg. Some tobacco to be reset due to heavy rains. Soybeans 11% planted, 12% 1994, 11% avg. Wheat 2% poor, 23% fair 66% good, 9% excellent; 40% turning color, 26% 1994, 25% avg . Alfalfa 28% fair, 62% good, 10% excellent; 49% 1st cutting, 69% 1994, 52% avg. Cattle 1% poor, 12% fair, 77% good, 10% excellent.

TEXAS: Much of State very warm, sultry most week as Gulf moisture streamed in at low levels while upper level high pressure produced fair skies, warm temperatures. A frontal system brought cooling to Panhandle early week, cool air, scattered thunderstorms did not reach majority State until midweek. For week, temperatures averaged close to normal. Below normal rainfall recorded in all districts, except Trans-Pecos which recorded near normal totals.

Crops: Small grains: Rains in High Plains helped fill grain heads in fields still for harvest; however, many more fields cut for hay. Producers continued report losses to insurance companies. Harvest beginning in Blacklands, activity increasing Central. Early yields look good. Harvest winding down some fields south. Corn: Planting activity increased Plains despite windy conditions. Early stands look good; however, blowing sand, high winds did some damage to young plants. Corn southern areas, Upper Coast beginning enter dough stage. Many fields Central silking. Cotton: Producers increased planting operations during week in Plains, Cross Timbers. Blowing sand also damaged some young cotton plants. Growth improved Blacklands, Central during week. The crop in Coastal Bend has held up well despite being dry. Plants squaring. Along Upper Coast,

producers busy cultivation, insect control activities. Grain sorghum: Producers in Northern Blacklands finishing up with planting while in Plains, planting activity increased. Fields heading south central down to Valley. Coastal Bend crop, Valley crop needs rain. Rice: Planting, flushing of fields continued during week along Upper Coast. Corn 1% poor; 25% fair; 60% good; 14% excellent. Grain sorghum 4% poor; 29% fair; 52% good; 15% excellent. Rice 11% fair; 72% good; 17% excellent. Other crops peanuts 15% planted; 15% 1994; 13% avg. Soybeans 48% planted; 35% 1994; 43% avg. Sunflowers 25% planted; 27% 1994; 31% avg.

Commercial Vegetables: Rio Grande Valley: Melon harvest increasing. Onion harvest continued wind down. San Antonio-Winter Garden: Watermelons continued make good progress. Onion harvest increased. East Texas: Additional sweetpotatoes planted. Watermelon growth was good. Harvest many other vegetables increased with dryer conditions. Trans-Pecos: Chilies up, growing. Cantaloupes continued make good progress under steady irrigation. High Plains: Potatoes, onions continued make good progress. Carrot planting continued. Pecans: First generation of casebearers found many parts of State, as a result, treatment began many groves. Prospects remained good. Peaches: Harvest early varieties got underway last week in Hill Country. Early varieties ripening East. Insects continued cause problems.

Range and Livestock: Dry conditions in Coastal Bend, Valley have left most pastures poor condition, while conditions most other areas remained good. Haying operations continued increase. Weed control, fertilization also continued some pastures. Livestock conditions remained good; however market remained very unstable.

UTAH: Temperature maximums 5° below normal; minimums 2° below normal. Precipitation moderate throughout entire State.

Days suitable for fieldwork 4.7. Topsoil 5% short, 74% adequate, 21% surplus. Subsoil 7% short, 85% adequate, 8% surplus. Spring wheat emerged 90%. Barley emerged 91%. Oats planted 75%, 91% 1994, 93% avg.; emerged 53%, 74% 1994, 77% avg. Corn planted 52%, 84% 1994, 79% avg.; emerged 12%, 52% 1994, 42% avg. Alfalfa hay height 12.9 in., 15.8 in. 1994. Dry beans planted 4%. Potatoes planted 21%. Cattle moved to summer range 28%, 41% 1994, 43% avg. Ewes lambed on range 93%. Sheep moved to summer range 23%, 30% 1994, 36% avg. Major farm, ranch activities were small grains, corn planting, cutting hay, moving sheep, cattle to summer range. Weeds continue to be a problem because of wet spring, inability to spray herbicides.

VIRGINIA: Temperatures above normal. Extremes 39°; 94°. Precipitation mostly above normal with most divisions receiving above 1.00 in.

Days suitable for fieldwork 3.8. Topsoil 8% short, 79% adequate, 13% surplus. Other hay 27% poor, 47% fair, 25% good, 1% excellent. Alfalfa hay 5% poor, 41% fair, 51% good, 3% excellent. Apple 7% fair, 87% good, 6% excellent. Peach 13% fair, 81% good, 6% excellent. Barley 3% poor, 32% fair, 57% good, 8% excellent. Wheat 9% poor, 35% fair, 51% good, 5% excellent. Corn 83% planted, 84% 1994, 80% avg. Corn 26% fair, 72% good, 2% excellent. Soybeans 13% planted, 22% 1994, 24% avg. Peanuts planted 95%, 96% 1994, 92% avg. Cotton planted 100%, 98% 1994, 96% avg. Flue tobacco transplanted 84%, 77% 1994, 74% avg.; 30% fair, 37% good, 33% excellent. Dark fired tobacco 59% transplanted, 40% 1994, 37% avg. Dark fired tobacco 33% fair, 48% good, 19% excellent. Burley tobacco 14% transplanted, 14% 1994, 11% avg.; 33% fair, 34% good, 33% excellent. Sun tobacco 35% transplanted, 29% 1994, 50% avg. Summer potato 13% fair, 67% good, 20% excellent. Picking strawberries, spraying fruit trees, planting vegetables, cutting hay, spraying, cultivating potatoes. Crop conditions, topsoil moisture improved over most of the State resulting from widespread precipitation the previous two weeks.

WASHINGTON: Temperatures 1° below to 7° above normal west; normal to 9° above normal east. Precipitation none to 0.03 in. west; none to 0.19 in. east. Warm, dry weather allowed fieldwork to proceed, crops to develop rapidly.

Days suitable for fieldwork 6.8. Topsoil moisture 10% short, 82% adequate, 8% surplus; subsoil 22% short, 74% adequate, 4% surplus. Irrigation water supply 85% adequate, 15% surplus. Warm weather increased irrigation water use. Stripe rust in wheat reported on the east side of State. Seed pod weevil population reported as high in seed cabbage. Cherry fruit flies trapped early in the week. Chemical thinning of apples continued. Scab was reported on apples, pears on the west side of State. Peas, cane berries were in bloom. Pastures, forage crops were progressing quickly. Green chop harvest still underway. Winter wheat, dryland 11% poor, 35% fair, 45% good, 9% excellent; irrigated, 1% fair, 70% good, 29% excellent. Spring wheat, dryland 42% fair, 54% good, 4% excellent; irrigated, 79% good, 21% excellent. Barley, dryland 56% poor, 31% fair, 13% good; irrigated, 4% fair, 85% good 11% excellent. Potatoes, 100% good. Corn, 100% good. Hay, other roughage supplies 4% very short, 18% short, 71% adequate, 7% surplus. Spring wheat, 92% planted, 100% 1994, 99% avg.; 74% emerged, 99% 1994, 96% avg.; 1% headed, 4% 1994, 7% avg. Barley, 95% planted, 100% 1994, 100% avg.; 81% emerged, 99% 1994, 93% avg.; 0% headed, 9% 1994, 8% avg. Dry peas, 94% planted, 100% 1994, 99% avg. Corn, 60% planted, 87% 1994, 84% avg. Alfalfa, 1st cutting, 8% harvested, 20% 1994, 26% avg. Dry edible beans, 10% planted, 53% 1994, 40% avg.

WEST VIRGINIA: Temperature 63°. Extremes 38°; 86°. Precipitation 1.84 in. Temperatures 3° above normal in northeastern region to 1° above normal in northwest, north central, southwest regions. Precipitation 0.31 in. below normal in northeastern region to 1.55 in. above normal in southwest region. The greatest weekly total precipitation was 3.13 in. reported at Weston. Seasonal precipitation 3.13 in. above normal in southwest region to 0.43 in. below normal in northeast region.

Days suitable for fieldwork 1.3. Topsoil 1% short, 51% adequate, 48% surplus. Barley 2% poor, 36% fair, 55% good, 7% excellent; 70% headed, 95% 1994. Wheat 1% poor, 20% fair, 68% good, 11% excellent; 29% headed, 74% 1994. Hay 8% poor, 49% fair, 41% good, 2% excellent. Intended acreage prepared for spring planting 88%, 83% 1994. Corn planted 49%, 67% 1994, 63% avg.; 32% emerged, 44% 1994, 37% avg. Oats planted 70%, 93% 1994, 88% avg.; 53% emerged, 63% 1994, 73% avg. Soybeans planted 20%, 15% 1994. Tobacco emerged 94%, 100% 1994, 96% avg.; 3% transplanted. Apples 100% good. Peaches 100% good. Cattle 10% fair, 86% good, 4% excellent, 95% cows calved. Sheep 10% fair, 88% good, 2% excellent. Hay, roughage supplies 16% short, 76% adequate, 8% surplus. Feed grain supplies 6% short, 93% adequate, 1% surplus. Activities: Planting, fencing, turning livestock out to permanent pasture, preparing equipment for hay harvest hay, general maintenance.

WISCONSIN: Temperature 58°, at normal. Extremes 24°; 89°. Precipitation trace to 0.40 in.

Days suitable for fieldwork 4.8. Soil moisture 4% short, 83% adequate, 13% surplus. General condition of crops 3% poor, 28% fair, 58% good, 11% excellent. Oats planted 90%, N.A 1994, 73% avg.; 1% very poor, 1% poor, 24% fair, 65% good, 9% excellent. Corn planted 60%, 91% 1994, 71% avg.; 4% poor, 31% fair, 61% good, 4% excellent. Soybeans planted 20%, 66% 1994, 37% avg. Winter wheat 10% fair, 60% good, 30% excellent. Most of the State saw very favorable weather for planting last week. At this time, light showers, warmer temperatures would stimulate the emerging crops. Early corn started to emerge. Oats planting neared completion. The past week saw soybean planting become more active. Reports from the northwest, west central, northeast parts of the State continued to indicate heavy losses of alfalfa. Spot shortages of forage may be felt in these areas. Fruit trees were reported in full blossom in south.

WYOMING: Temperatures 1 to 7° below normal across the State. Extremes low 24° Jeffery City; high 85° Torrington. Diversion Dam was the cold spot averaging 7° below normal. Precipitation normal to 0.30 in. below normal across western part of State, few scattered eastern locations. The rest of the State averaged normal to 1.23 in. above normal. Cheyenne had the greatest amount with 1.37 in.

Days suitable for fieldwork 3.0. Topsoil 100% adequate or better. Subsoil moisture supplies 100% adequate or better. Winter wheat 21% jointed. Spring wheat 59% planted, 98% 1994, 92% avg.; 33% emerged, 79% 1994, 66% avg. Oats 72% planted, 93% 1994, 89% avg.; 38% emerged, 71% 1994, 61% avg. Barley 89% planted, 97% 1994, 93% avg.; 76% emerged, 87% 1994, 80% avg.; 8% jointed. Sugarbeets 71% emerged, 85% 1994, 65% avg. Corn 70% planted, 89% 1994, 75% avg.; 26% emerged, 51% 1994, 30% avg. Potatoes 1% planted, 82% 1994, 80% avg.; 0% emerged, 14% 1994, 27% avg. Dry beans 6% planted, 13% 1994, 13% avg. Range flock: ewes lambed 55%, 65% 1994; shorn 91%, 99% 1994. Lamb death losses 5% light, 75% normal, 20% heavy. Livestock in mostly good condition, 25% moved to summer range. Irrigation water supplies 14% short, 74% adequate, 12% surplus. Spraying for Russian wheat aphids.

River Flood Summary for the Central United States

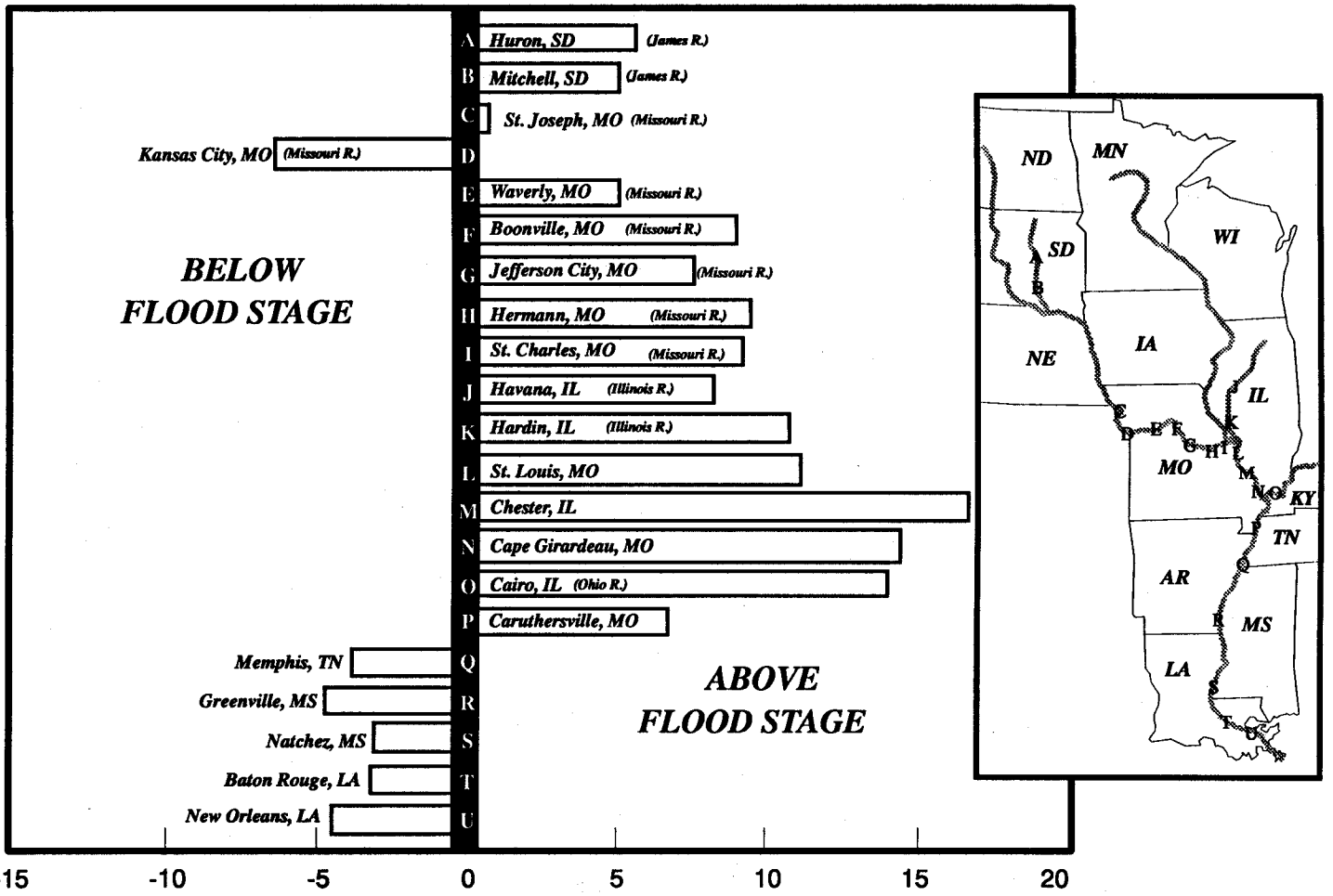
On the main-stem Mississippi River, a crest 1.6 feet above flood stage passed Burlington, IA on May 15. South of there, massive runoff led to rapid river rises, including levels more than 16 feet above flood stage at Chester, IL. By May 22, the Mississippi River at St. Louis climbed 11.8 feet above flood stage, the third greatest flood of record there in terms of height, behind April 28, 1973 (+13.3 feet), and the prolonged high water of the Great Flood of '93 (+19.6 feet on August 1, 1993).

By midweek, 75 percent of the rivers in Missouri were reported to be at or above flood stage. Major flooding developed along the lower Missouri River below Miami, MO, as crests of 10 to 16 feet above flood stage approached those observed in late-July and early-August 1993. Due to levee breaks near the Mississippi-Missouri confluence, portions of St. Charles County, MO were isolated. Significant flooding also transpired east of the Mississippi River. On May 21, the Illinois River at Beardstown stood 11.8 feet above flood stage; the Illinois at Hardin was 12.9 feet above flood stage. Near-record flooding hit the Big Muddy River in southern Illinois, where the water at Murphysboro surged to 21.1 feet above bankfull on May 22, less than a foot shy of the record set May 11, 1961.

In the Ohio River basin, levels on the Licking River in northern Kentucky reached their highest levels since February 1989 at Cynthiana and at Blue Lick Springs (9.9 feet above flood stage). In contrast, dry weather in South Dakota allowed record crests on the James River to pass without further aggravation. All-time crest records were established at Columbia (+6.0 feet on May 13), Stratford (+4.3 feet on May 21), Ashton (+9.3 feet on May 17), Redfield (+6.5 feet on May 17), and Huron (+5.8 feet on May 19).

MISSOURI & MISSISSIPPI RIVER BASIN FLOODING

Departure From Flood Stage As of May 23, 1995



UNLESS OTHERWISE NOTED CITIES ARE LOCATED ON THE MISSISSIPPI RIVER

COMPILED BY JOINT AGRICULTURAL WEATHER FACILITY (USDA/NOAA)
DATA SOURCE: NATIONAL WEATHER SERVICE

International Weather and Crop Summary

HIGHLIGHTS

May 14 - 20, 1995

FSU-WESTERN: Adequate moisture favored winter wheat development in Ukraine and the North Caucasus region in Russia.

FSU-NEW LANDS: Although little, if any, precipitation over Kazakhstan and western areas in Russia favored planting, moisture was limited for crop emergence and early growth.

EUROPE: Unseasonably cold, wet weather hampered crop progress across most of Europe.

SOUTHEAST ASIA: Scattered showers across Indochina benefited main-season grains and sugarcane as well as immature winter rice.

SOUTH ASIA: A tropical depression caused flooding and likely some damage to rice in coastal areas of eastern India and Bangladesh.

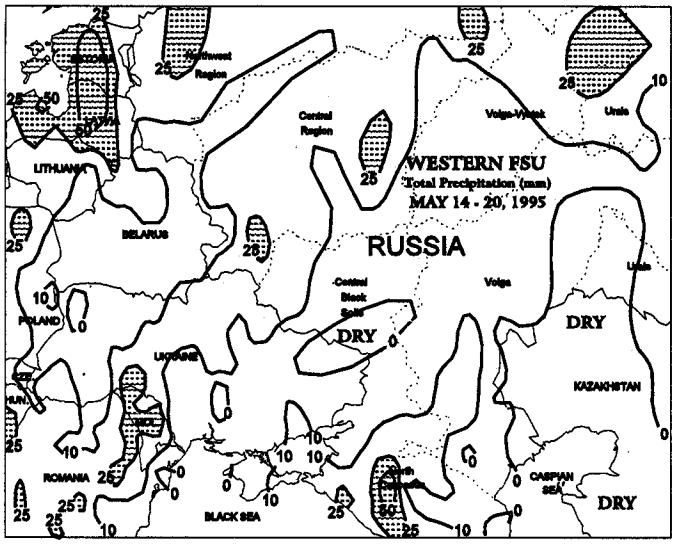
CANADA: Persistent cool weather hampered Prairie spring crop germination and early development.

EASTERN ASIA: Some beneficial rain fell across the North China Plain, aiding reproductive to filling winter wheat.

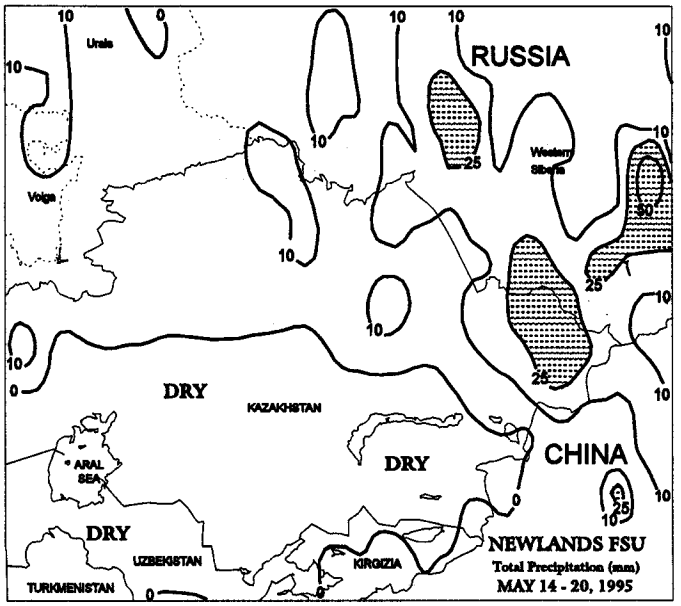
AUSTRALIA: Beneficial rain again covered the major wheat areas of Australia, boosting soil moisture for planting.

SOUTH AMERICA: Showers slowed summer crop harvesting in Argentina and Paraguay, while mostly dry weather favored summer crop harvesting in southern Brazil.

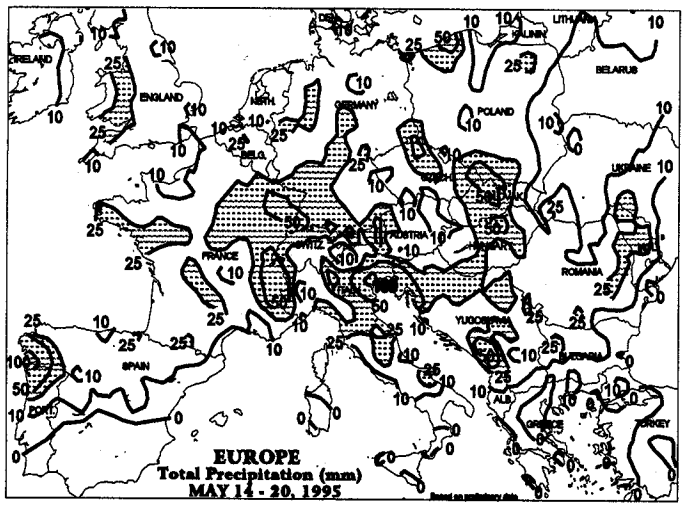
MEXICO: Dry, warm weather continued to stress northeast sorghum but favored early corn planting farther south.



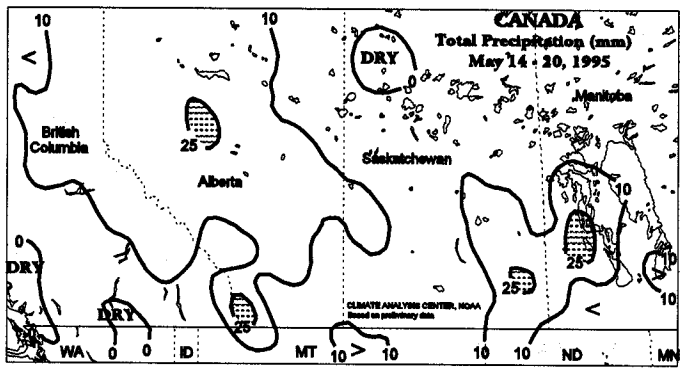
FSU-WESTERN: Light, scattered showers covered Ukraine, maintaining favorable moisture for winter grains in or nearing the heading stage, as well as for spring crop emergence and early growth. Wet weather (11-72 mm) covered the Baltics, providing abundant moisture for crop development. In Russia, reports as of May 15 indicated that planting of spring grains, sugar beets, sunflowers, and potatoes was 65, 97, 84, and 42 percent complete, respectively. Although spring grain planting continued ahead of last year's pace, persistent wetness in the North Caucasus and Central Region has slowed planting in recent weeks. However, the wetness in the North Caucasus favored winter wheat in the heading stage. In contrast, a drying trend in recent weeks over the Volga Valley and Volga Vyatsk region has limited moisture for winter grains entering the heading stage as well as for spring grain emergence.



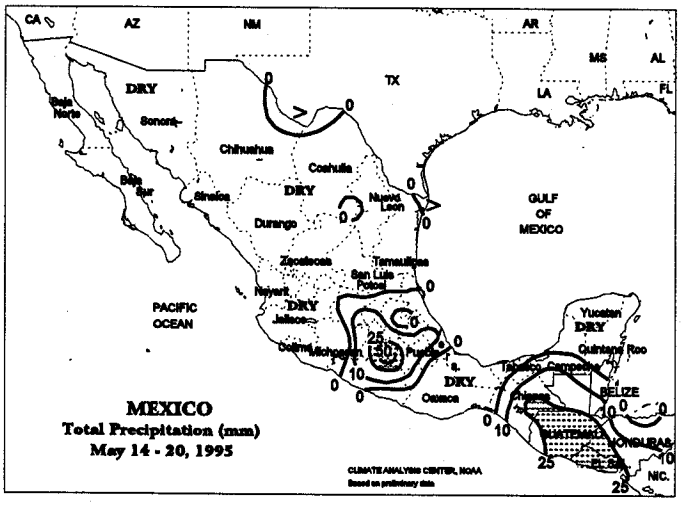
FSU-NEW LANDS: Spring grain planting was well underway over most of the region. Light, if any, precipitation (less than 10 mm) over Kazakhstan and parts of Russia (Urals and the western portion of Western Siberia) allowed planting to progress rapidly. However, topsoil moisture was limited in these areas, and rain is needed for germination and early establishment. Farther east, wet weather (10-46 mm) over the Altay Kray region of Western Siberia slowed planting but increased topsoil moisture for germination. Weekly average temperatures were 2 to 6 degrees Celsius (C) above normal in the Urals and near normal over the remainder of Russia and Kazakhstan.



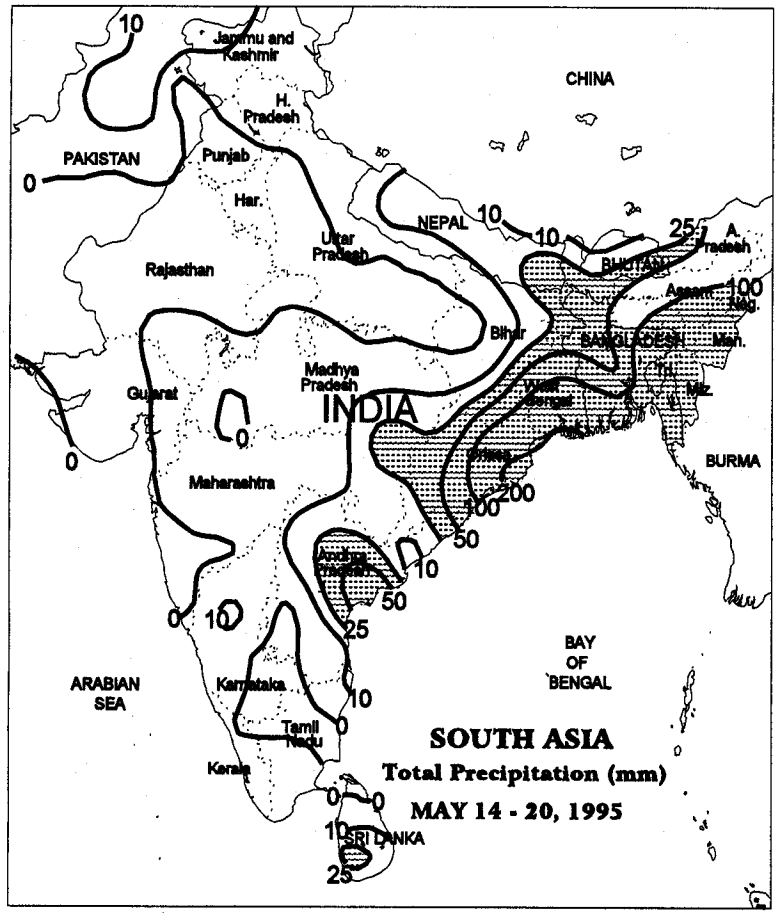
EUROPE: Cool, wet weather dominated most of the region. Warm, dry weather was restricted to southern portions of Spain and Italy, and Greece. The rain (10-25 mm) in England, northern France, and the Benelux countries improved topsoil moisture for winter crop development and spring crop establishment. While the moisture was favorable in the northwest following an earlier drying trend, abundant rain (25-50 mm) for the second consecutive week created soggy field conditions from central France across southern Germany and northern Italy to the Slovak Republic. Widespread rain (10-40 mm) in eastern Europe provided additional soil moisture for crop development. Unseasonably cold weather accompanied the rain throughout Europe. With the exception of the Iberian Peninsula, temperatures averaged 2 to 4 degrees C below normal across most of Europe, slowing the progress of summer crop planting and spring grain emergence. The unseasonably cold weather dropped minimum temperatures to the freezing level in England, east-central France, southeastern Germany, and the Czech and Slovak Republics.



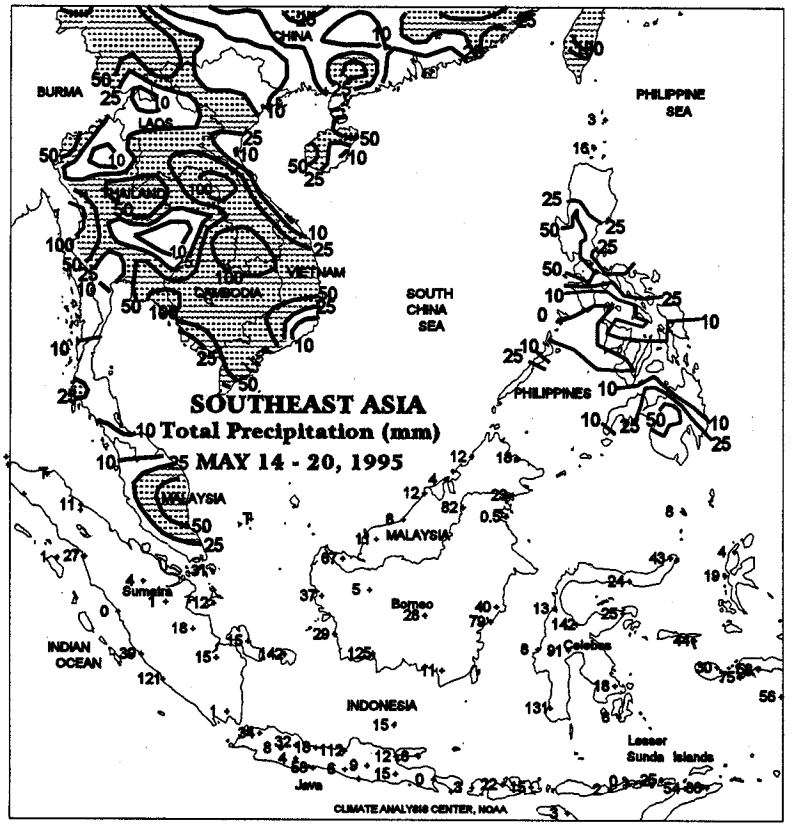
CANADA: Persistent cool weather (average temperatures 1-2 degrees C below normal) over most Prairie crop areas further slowed spring crop emergence and establishment. While normal for this time of year, sub-freezing temperatures, coupled with the chronic cool, wet weather, exacerbated fieldwork and germination delays. Scattered, mostly light rain (1-16 mm) across the region kept topsoils moist for germination. However, locally heavy rain (21-35 mm) maintained unfavorably wet field conditions in sections of eastern Saskatchewan and Manitoba. In Ontario, light rain (5-15 mm) and mild temperatures benefited vegetative winter wheat. Corn and soybean planting was underway.



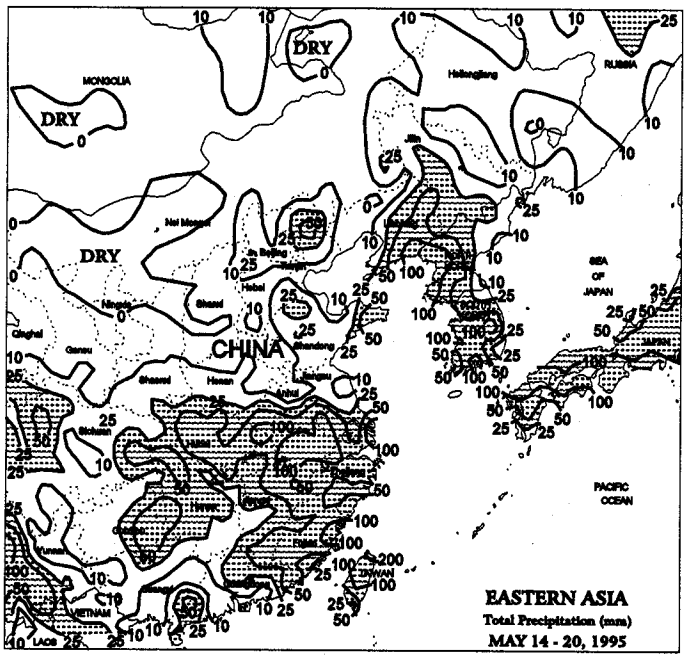
MEXICO: Dry, warm weather continued across northeastern Mexico, stressing winter sorghum. Variable showers (10-90 mm) fell across the southern portions of the main corn belt, increasing soil moisture for corn planting. Dry weather elsewhere in the corn belt aided corn planting. The main rainy season typically begins in early June across the corn belt. Temperatures averaged 3 to 5 degrees C above normal across most of central and eastern Mexico.



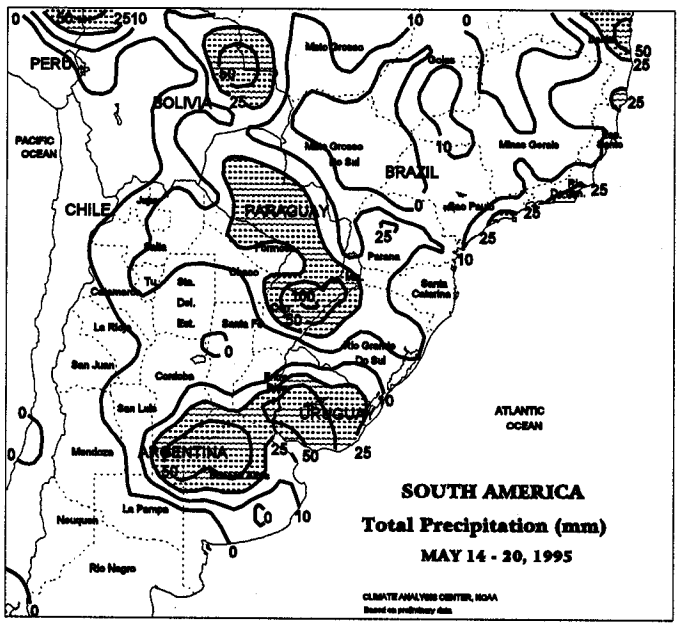
SOUTH ASIA: Inundating rain (100-209 mm) caused some flooding in coastal areas of eastern India and Bangladesh. The rain was caused by the tropical depression that brought last week's heavy rain to southern India. Some damage to rice was likely, especially in Bangladesh, where both winter rice harvesting and spring rice planting were underway. Elsewhere, widely scattered, mostly light rain caused only minor winter grain and oilseed harvest delays. Hot weather (weekly temperatures 2-3 degrees C above normal, highs in the mid to upper 40's C) covered crop areas of northwestern India and Pakistan. While raising irrigation requirements of newly planted cotton, the prolonged, excessive heat may reduce the pest population.



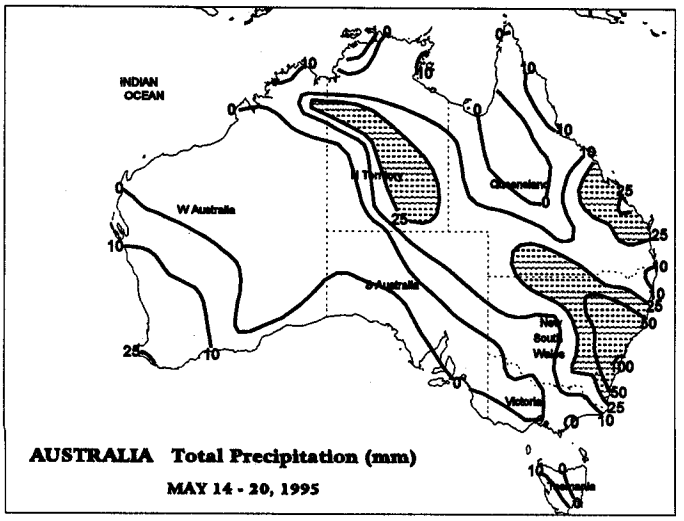
SOUTHEAST ASIA: Scattered showers (25-50 mm or more, with a few local reports exceeding 100 mm) covered most Thai grain and sugarcane areas, benefiting vegetative crops. Showers also fell throughout Vietnam's main rice areas, benefiting immature winter rice in the north but slowing harvesting in the Mekong Delta. Farther south, rainfall decreased over Malaysia, with only isolated areas receiving more than 25 mm. In Java, continuing scattered rain (10-25 mm, with a few totals over 50 mm) maintained adequate to abundant moisture reserves for secondary rice, corn, and soybean planting. In the Philippines, moderate to heavy showers (25-50 mm or more) benefited rice and corn areas of Luzon and Mindanao. However, rainfall was again unseasonably light (25 mm or less) over primary grain and sugarcane areas of the central islands.



EASTERN ASIA: A significant portion of the North China Plain received beneficial rain (10-20 mm, with isolated amounts greater than 30 mm), favoring reproductive to filling winter wheat. Lighter rain fell elsewhere across the main wheat belt. Light to moderate rain (5-30 mm) aided vegetative spring wheat and increased soil moisture for summer crop planting across Manchuria. Moderate rain (25-75 mm, with isolated amounts greater than 100 mm) covered the lower Yangtze Valley, increasing irrigation supplies for rice. Across southern China, light to moderate showers (10-35 mm) favored early double-crop rice. Widespread rain (30-60 mm) covered North and South Korea, which had been becoming dry. Southern and central Japan received moderate to heavy rain (30-100 mm), while the northern areas received lesser amounts (10-35 mm). Temperatures averaged near normal across most of eastern China, with portions of southwest China (Sichuan and Guizhou) averaging 2 to 3 degrees below normal.



SOUTH AMERICA: Early-week moderate showers (30-60 mm, with an isolated amount greater than 75 mm) fell across northern Buenos Aires, slowing summer crop harvesting, but increasing soil moisture for winter wheat planting. Lighter amounts of rain (10-25 mm) fell across southern Santa Fe. Light to moderate rain (10-40 mm) also slowed cotton harvesting in northern Argentina. In southern Brazil, light to moderate rain (10-20 mm) fell across Rio Grande do Sul, Santa Catarina, and southern Parana, slowing summer crop harvesting. However, dry weather prevailed elsewhere, aiding fieldwork. Minimum temperatures of 1-3 degrees C were reported across southeastern Parana and eastern Santa Catarina. The cool weather did not threaten the coffee areas of northern Parana. Eastern Bahia and Espirito Santo received moderate showers (20-40 mm, an isolated amount greater than 90 mm). Temperatures averaged slightly below normal across extreme southern Brazil, 1 to 3 degrees C above normal across east-central Brazil and near-normal across central Argentina.



AUSTRALIA: Widespread moderate to heavy rain (25-70 mm) again covered the wheat areas of New South Wales, continuing to boost topsoil moisture for winter wheat planting. Also, needed rain (10-45 mm) fell across most of southeastern Queensland. The rain the past few weeks has greatly improved planting prospects for wheat across the east. Mostly dry weather prevailed across the southern wheat areas, aiding field preparation and early planting. The wheat areas of Western Australia received beneficial rain (10-25 mm), increasing soil moisture for upcoming planting. Typically, wheat planting starts in May in Queensland and moves south during June. Light to moderate showers (7-20 mm) benefited sugarcane and increased irrigation supplies across the northeast coast of Queensland. Temperatures averaged near normal in the east and 1 to 3 degrees C below normal in the west. In New Zealand, light to moderate rain (10-45 mm) fell across central North Island with lighter amounts (10-20 mm) reported across northern South Island.

Bulletin Information on the Internet

With the increasing amounts of information available on the Internet, we are often asked about accessing the *Weekly Weather and Crop Bulletin* (WWCB) online. Although the entire contents of the Bulletin are not yet available on the Internet, much of the text and graphics can be found at a number of sources. Here is a rundown on known current sites offering some of the *Bulletin's* contents. As is always true with the Internet, change is rapid, and addresses and sites may quickly change. We plan to keep you posted.

The crop progress tables are made available on USDA's Gopher (**gopher://usda.mannlib.cornell.edu**) within 3 hours of the official 4 p.m. E.T. release on Monday (Tuesday, if Monday is a Federal holiday). Select "REPORTS" from the main menu, then "NASS Reports." Crop Progress is listed under "Field crops." The same menu lists the "Weekly Weather and Crop Bulletin," which is available soon after noon on Tuesday. The text includes the U.S. Highlights, the National Agricultural Summary, the International Weather and Crop Summary, and the Crop Progress and Condition tables. You will find many other useful reports there from NASS (National Agricultural Statistics Service), ERS (Economic Research Service), and WAOB (World Agricultural Outlook Board) .

Ohio State University's weather Gopher and World Wide Web sites also offer the WWCB's text. The Gopher address is: **gopher://geograf1.sbs.ohio-state.edu**. Select "National Center for Environmental Prediction Products" from the main menu and then "National Agricultural Summary" or the "International Weather and Crop Summary." The Web address is: **http://asp1.sbs.ohio-state.edu**. Select "National Weather Service Textual Information" from the home page and then "National Meteorological Center Products." Look under "Weather Summaries."

The Climate Analysis Center (which goes by its future name, the "Climate Prediction Center," on the 'Net) has the international maps of weekly temperature and precipitation on the Web. Go to the Center's home page (**http://nic.fb4.noaa.gov**) and select "Products." Then, select "Analysis and Monitoring Products" and "Regional Climate Monitoring." Use the mouse to click on the world map to select an area. You are given a choice of temperature (extreme max., extreme min., anomaly) and total precipitation. The maps are updated twice a week, featuring data through Saturday (as in the WWCB) and Tuesday. The precipitation maps shown for the week ending Saturday are color versions of those published in the WWCB, but they are unedited. You can also find the complete suite of long-lead outlooks at the CAC site. Go to "Products" and "Predictions" and select "Multiseason Outlooks." Choose "Experimental Color Graphics" to obtain the entire set of outlooks for the next 15 months.

The Palmer Drought Severity maps are in color (depicting categories of wetness and dryness for each climate division) at the Climate Analysis Center site. Click on the U.S. map in the Regional Climate Monitoring section to pull up a menu of various maps, including the Palmer index map. The latest El Niño advisory can be found under "Advisories" within the "Products" category. (The last and final advisory on the recently-concluded warm episode was April 12).

You can also find the Palmer maps at the Midwest Agricultural Weather Service Center (**http://agwx.agry.purdue.edu**). In addition to the Palmer map, this site features a number of weather outlooks, including the 6- to 10-day. The latest El Niño advisory is also offered, as is the International Weather and Crop Summary.

The National Climatic Data Center's (NCDC) Climate Variations Bulletin, portions of which are published monthly in the WWCB's historical perspectives section, is available on NCDC's Web server (**http://www.ncdc.noaa.gov/publications/cvb/cvb.html**).

We hope that the above information will give you, our readers, a chance to access our information much faster than through the mail. If you find additional sites that may interest other readers, drop us a line (lecomte@climon.wwb.noaa.gov).

--Douglas Le Comte

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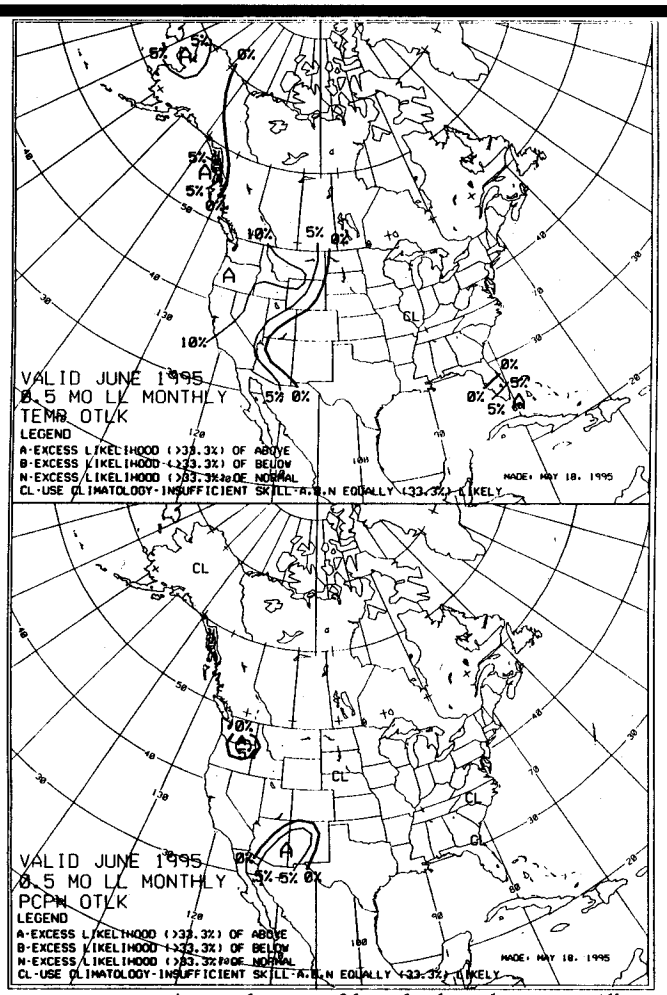

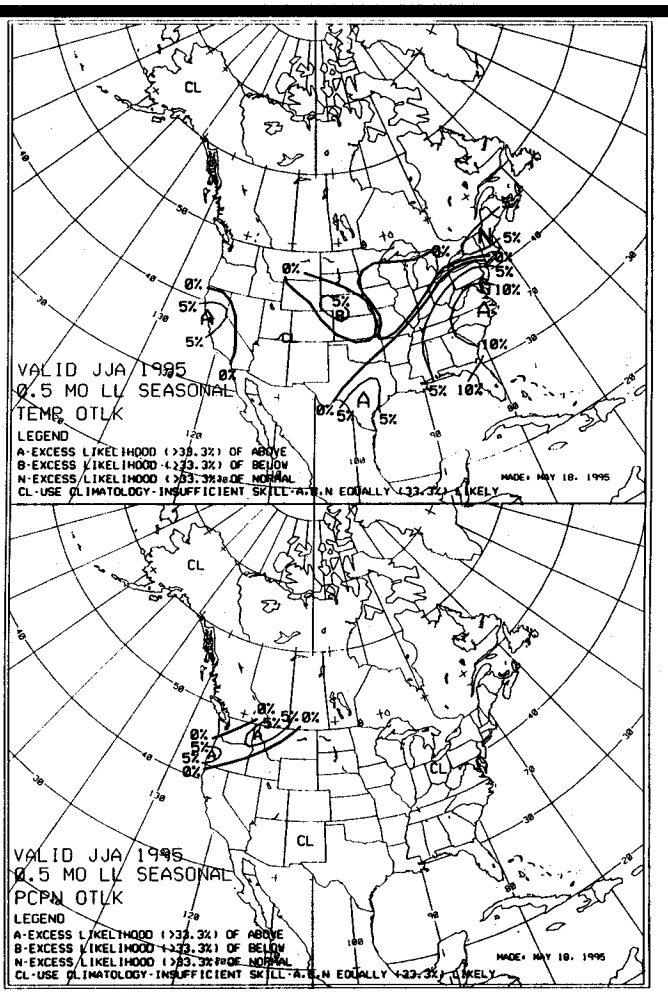

A complete set of long-lead products, extending out to June-July-August 1996, is available via the Internet:
http://nic.fb4.noaa.gov/products/predictions/index.html

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