

WEEKLY WEATHER AND CROP BULLETIN

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

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

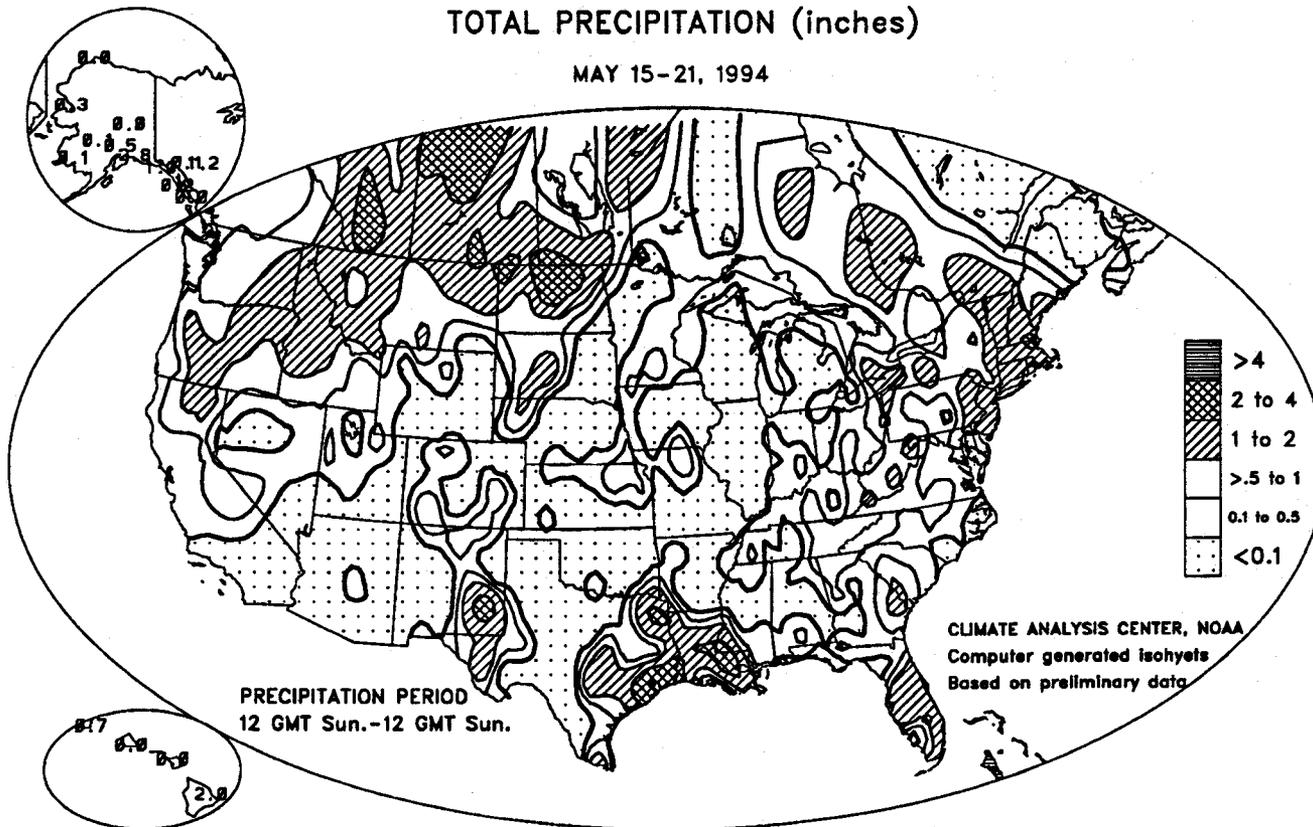
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May 24, 1994

TOTAL PRECIPITATION (inches)

MAY 15-21, 1994



HIGHLIGHTS

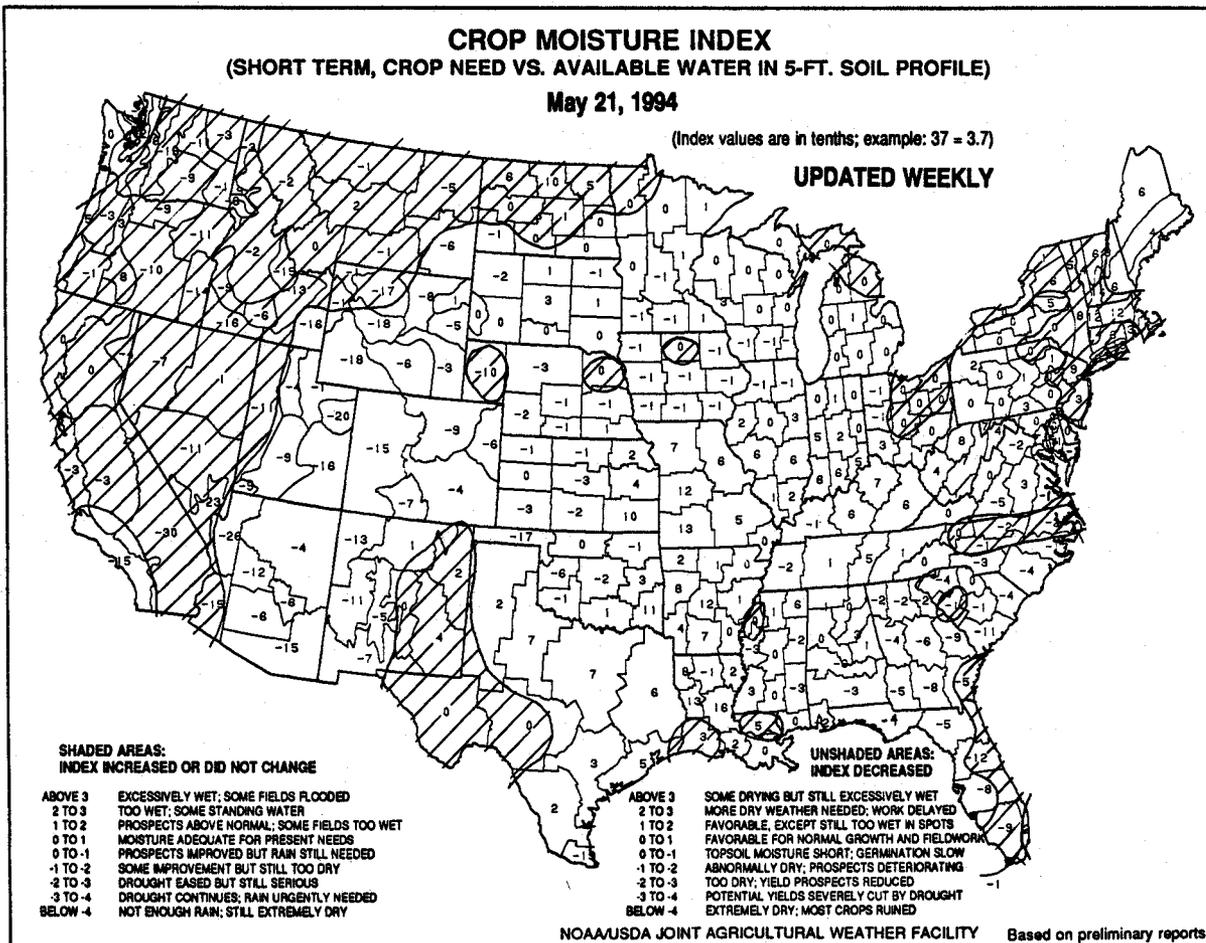
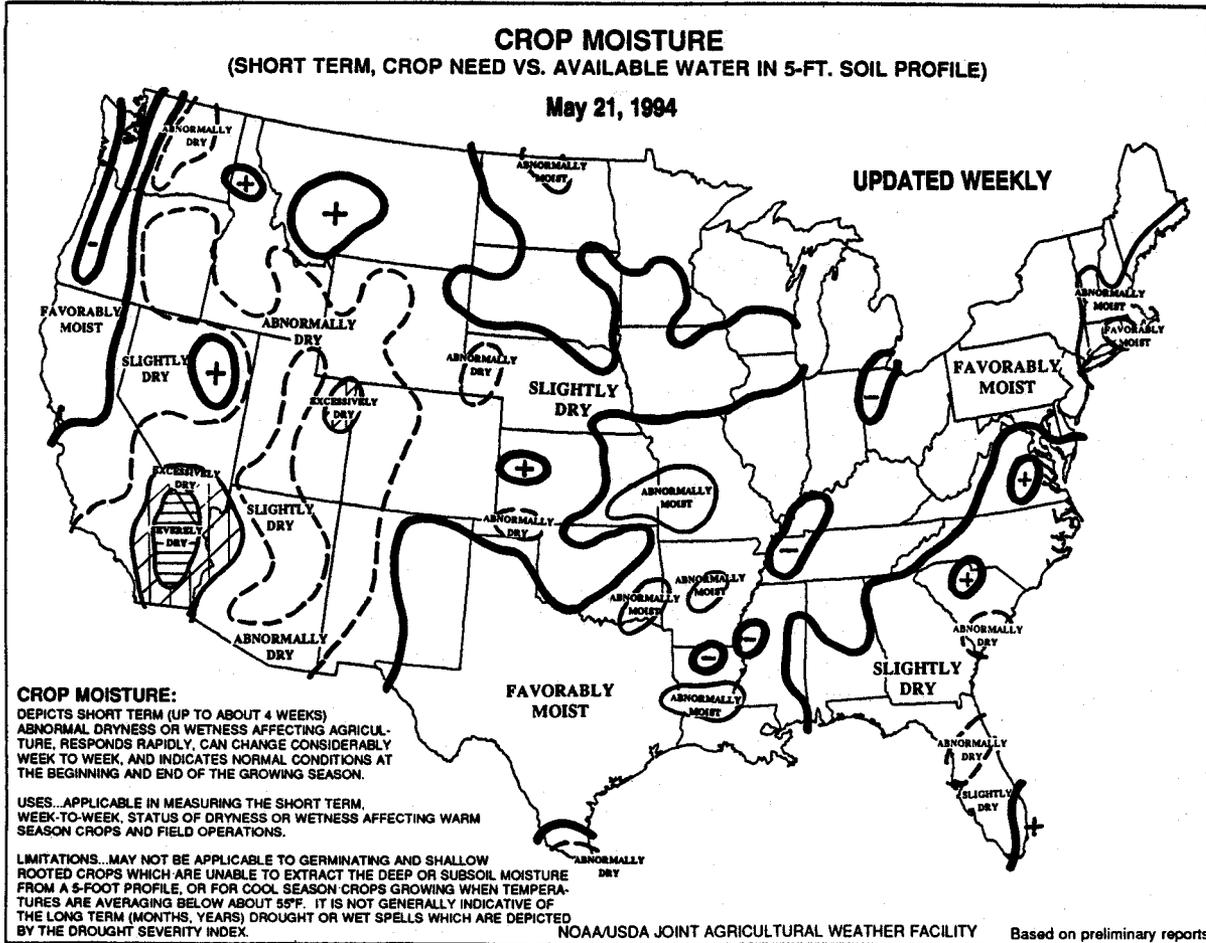
May 15 - 21, 1994

An anchoring ridge of high pressure over the central United States brought warm, windy conditions to the central Plains and the western Corn Belt, reducing topsoil moisture. In contrast, beneficial rains fell across the Northwest and the northern Plains, while cool, cloudy weather locked in along the Atlantic seaboard. Early in the week, a band of thunderstorms swept through the eastern third of the Nation, and heavy rain lingered in Louisiana and eastern Texas. More than 1 inch of rain soaked much of the Northeast, and nearly 3 inches pelted Baton Rouge, LA and Beaumont, TX. Minor to moderate river flooding continued in eastern Texas early in the week, especially in basins east and south of Dallas and San Antonio, in part due to runoff from last week's inundations. Farther west, precipitation overspread areas from central California to Montana, and persisted until

(Continued to p. 15)

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National Weather Data for Selected Cities

Weather Data for the Week Ending May 21, 1994

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY, PERCENT			NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																			90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	79	53	85	47	66	-4	.7	-1.1	.7	15.0	103	24.9	102	84	41	0	0	0	1	0	0	0
MOBILE	83	62	89	51	73	-2	.3	-1.1	.3	12.2	83	20.1	80	86	41	0	0	0	2	0	0	0
MONTGOMERY	84	58	91	51	71	0	.1	-.8	.1	10.3	78	20.4	87	82	37	1	0	0	1	0	0	0
AK ANCHORAGE	54	41	61	33	48	0	.1	.0	.1	2.3	121	3.1	92	89	41	0	0	0	1	0	0	0
BARROW	29	18	36	4	23	2	.7	.0	.7	.2	41	.3	38	88	80	0	0	7	0	0	0	0
FAIRBANKS	69	40	74	37	54	5	.0	-.1	.0	.4	38	1.2	60	87	22	0	0	0	0	0	0	0
JUNEAU	60	43	68	35	52	4	.4	-.5	.3	10.3	124	19.3	116	98	46	0	0	0	0	3	0	0
KODIAK	48	41	51	36	44	1	2.3	1.1	.7	23.9	191	40.0	159	95	77	0	0	0	0	6	3	0
NOME	53	38	59	34	46	9	.7	-.1	.7	1.5	91	2.8	91	90	55	0	0	0	0	1	0	0
AZ PHOENIX	91	64	101	60	77	-2	.0	.0	.0	1.5	125	2.2	85	48	11	3	0	0	0	0	0	0
PRESCOTT	73	46	80	36	60	2	.0	-.1	.0	1.8	60	3.2	52	48	13	0	0	0	0	0	0	0
TUCSON	94	57	100	51	76	1	.0	.0	.0	1.3	109	2.3	85	50	7	6	0	0	0	0	0	0
YUMA	89	63	96	59	76	-4	.0	.0	.0	1.1	29	.4	39	50	13	4	0	0	0	0	0	0
AR FORT SMITH	82	59	84	54	70	1	.0	-.2	.0	10.5	91	17.9	111	88	39	0	0	0	0	0	0	0
LITTLE ROCK	79	59	83	55	69	-1	.3	-.9	.3	15.4	120	23.9	123	72	39	0	0	0	0	1	0	0
CA BAKERSFIELD	74	52	84	47	63	-8	.2	.2	.1	2.3	129	4.2	113	75	22	0	0	0	0	2	2	0
KERRIA	60	50	62	45	55	2	.7	.4	.3	6.0	69	18.6	93	86	66	0	0	0	0	2	1	0
FRESNO	71	53	82	50	62	-7	.6	.5	.3	3.0	96	6.1	89	85	29	0	0	0	0	4	0	0
LOS ANGELES	66	54	71	52	60	-3	.3	.0	.3	1.6	55	6.2	81	87	53	0	0	0	0	1	0	0
REDDING	71	51	77	46	61	-6	.3	-.1	.2	5.2	70	14.9	83	90	34	0	0	0	0	4	0	0
SACRAMENTO	72	49	78	45	61	-5	.1	-.1	.1	1.4	35	6.0	57	94	40	0	0	0	0	1	0	0
SAN DIEGO	66	56	69	53	61	-3	.7	.0	.7	4.6	172	8.1	133	84	57	0	0	0	0	3	0	0
SAN FRANCISCO	63	52	67	50	58	-1	.4	.0	.3	2.9	62	10.6	87	90	60	0	0	0	0	1	0	0
CO DENVER	84	56	88	46	70	12	.7	-.6	.7	3.1	68	4.5	79	74	14	0	0	0	0	0	0	0
GRAND JUNCTION	82	53	87	42	68	4	.7	-.3	.7	2.2	81	3.0	79	79	12	0	0	0	0	0	0	0
PURDLO	84	51	88	42	68	6	.7	-.2	.7	4.6	183	5.3	169	87	22	0	0	0	0	1	5	0
CT BRIDGEPORT	64	47	70	41	56	-4	1.7	.0	1.0	11.7	114	20.0	121	93	58	0	0	0	0	2	1	1
HARTFORD	66	44	81	38	55	-6	1.7	.7	1.3	11.7	114	20.9	124	95	50	0	0	0	0	3	1	0
DC WASHINGTON	71	50	87	45	61	-6	.2	-.7	.3	11.5	139	20.0	146	88	52	0	0	0	0	3	0	0
FL APALACHICOLA	86	65	89	56	75	1	.0	-.6	.0	7.3	84	16.3	99	99	..	0	0	0	0	0	0	0
DAYTONA BEACH	84	66	94	58	75	0	1.4	-.6	.6	11.4	158	19.6	150	92	53	1	0	0	0	3	2	0
JACKSONVILLE	81	61	92	52	71	-4	1.1	-.7	.6	5.5	66	13.0	85	89	47	2	0	0	0	1	0	0
KEY WEST	86	76	89	70	81	0	2.0	-.2	1.7	5.4	97	10.0	106	83	62	0	0	0	0	5	1	0
MIAMI	89	74	93	66	81	2	.2	-.3	.2	4.8	53	14.0	107	82	48	2	0	0	0	1	0	0
ORLANDO	86	67	93	60	77	-1	.7	-.1	.5	5.7	81	13.3	107	89	53	3	0	0	0	3	0	0
TALLAHASSEE	85	58	92	49	71	-3	.7	-.4	.7	19.2	148	30.1	129	89	43	3	0	0	0	1	1	0
TAMPA	88	69	93	58	78	1	.7	-.7	.7	4.1	69	8.3	75	86	46	4	0	0	0	0	0	0
WEST PALM BEACH	86	70	91	64	78	0	2.2	-.6	1.2	14.0	139	23.2	150	87	53	1	0	0	0	2	2	0
GA ATLANTA	79	58	87	54	69	-1	.2	-.8	.2	11.5	88	20.4	90	80	43	0	0	0	0	2	0	0
AUGUSTA	81	55	90	42	67	-4	.6	-.3	.6	8.4	80	16.5	88	86	43	1	0	0	0	1	1	0
Macon	81	59	88	47	68	-4	.4	-.4	.3	9.9	93	18.2	91	92	40	0	0	0	0	2	0	0
SAVANNAH	81	59	91	50	70	-4	1.0	-.1	1.0	10.2	109	15.7	97	86	43	2	0	0	0	2	1	0
HI HILO	82	68	83	65	75	1	2.0	-.1	.8	29.5	81	65.4	115	92	66	0	0	0	0	7	1	1
HONOLULU	86	70	88	72	80	2	.7	-.3	.7	3.7	80	11.1	107	75	54	0	0	0	0	0	0	0
KAHULUI	84	70	85	68	77	1	.7	-.2	.7	5.2	101	7.5	62	74	53	0	0	0	0	0	0	0
LIHUE	81	71	82	69	76	0	.7	.0	.5	5.6	56	16.3	85	89	71	0	0	0	0	3	1	0
ID BOISE	65	45	74	34	55	-3	.9	-.6	.4	2.4	73	4.6	79	82	41	0	0	0	0	5	0	0
LEWISTON	65	48	72	42	56	-3	.7	-.4	.4	2.5	82	4.2	79	81	42	0	0	0	0	4	0	0
POCATELLO	67	40	81	33	53	-1	.3	.0	.2	1.3	39	3.2	61	84	33	0	0	0	0	4	0	0
IL CHICAGO	70	43	87	39	57	-3	.7	-.7	.7	3.6	42	8.2	71	85	36	0	0	0	0	0	0	0
MOLINE	79	44	85	39	62	0	.0	-1.0	.0	4.5	46	8.2	65	84	25	0	0	0	0	0	0	0
PEORIA	78	47	85	41	63	0	.0	-.8	.0	5.5	60	8.4	69	77	33	0	0	0	0	0	0	0
QUINCY	75	50	80	43	63	-1	.0	-1.1	.0	8.3	82	9.0	70	70	32	0	0	0	0	0	0	0
ROCKFORD	77	45	88	37	61	1	.7	-.8	.7	4.1	48	8.2	74	80	26	0	0	0	0	1	0	0
SPRINGFIELD	78	49	85	43	64	-1	.0	-.8	.0	11.3	120	13.4	106	79	28	0	0	0	0	0	0	0
IN EVANSVILLE	77	52	83	48	64	-3	.1	-1.0	.1	8.6	70	14.1	75	78	37	0	0	0	0	1	0	0
FORT WAYNE	74	46	86	41	60	-1	.7	-.8	.7	8.5	99	12.1	97	87	38	0	0	0	0	0	0	0
INDIANAPOLIS	73	47	82	39	60	-4	.7	-.9	.7	7.7	75	11.7	78	81	35	0	0	0	0	1	0	0
SOUTH BEND	70	42	85	37	56	-4	.1	-.6	.1	4.3	47	8.2	62	83	38	0	0	0	0	0	0	0
IA DES MOINES	79	53	82	50	66	4	.0	-.9	.0	3.6	42	6.5	62	68	33	0	0	0	0	0	0	0
SIOUX CITY	84	55	86	47	69	7	.7	-.9	.7	2.7	40	4.5	56	72	30	0	0	0	0	0	0	0
WATERLOO	81	49	87	43	65	4	.0	-.9	.0	3.7	44	5.8	57	76	22	0	0	0	0	0	0	0
KS CONCORDIA	81	57	83	50	69	6	.0	-1.0	.0	3.4	46	4.2	48	84	39	0	0	0	0	0	0	0
DODGE CITY	83	56	86	46	69	4	.7	-.7	.7	2.4	43	3.2	48	89	35	0	0	0	0	1	0	0
GOODLAND	82	54	85	45	68	8	.0	-.8	.0	4.1	86	4.5	82	92	39	0	0	0	0	0	0	0
TOPEKA	80	53	82	48	67	1	.0	-1.0	.0	5.5	65	6.7	65	93	38	0	0	0	0	0	0	0
WICHITA	80	56	82	51	68	1	.0	-1.0	.0	4.6	56	4.6	45	85	35	0	0	0	0	0	0	0
KY BOWLING GREEN	74	49	78	45	61	-5	.4	-.8	.4	15.5	121	27.3	132	95	48	0	0	0	0	1	0	0
LEXINGTON	69	47	76	41	58	-7	.5	-.5	.5	16.0	141	24.9	143	92	51	0	0	0	0	1	1	0
LOUISVILLE	74	51	80	46	62	-4	.3	-.8	.3	11.1	92	18.2	100	85	43	0	0	0	0	1	0	0
LA BATON ROUGE	82	63	87	57	73	-3	2.7	1.6	1.9	16.9	125	26.5	110	95	55	0	0	0	0	2	2	0
LAKE CHARLES	83	65	86	58	74	-2	1.9	.6	1.1	7.7	74	13.0	70	87	47	0	0	0	0	3	2	0
NEW ORLEANS	85	66	89	57	76	1																

Weather Data for the Week Ending May 21, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE		32 AND BELOW
													90 AND ABOVE					32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	63	39	76	33	51	-1	.7	-.7	.7	8.3	119	13.3	118	83	37	0	0	0	0	
PORTLAND	57	42	65	37	50	-.4	1.0	-.2	.9	13.8	135	20.4	119	86	53	0	0	0	1	
MD BALTIMORE	68	48	84	41	58	-.6	1.1	-.3	1.0	13.8	154	22.5	148	93	54	0	0	0	1	
SALISBURY	68	48	84	44	58	-.6	.4	-.5	.2	12.7	129	21.3	126	94	54	0	0	0	3	
MA BOSTON	58	46	74	43	52	-.7	1.6	-.8	1.0	13.7	144	21.9	131	90	56	0	0	0	1	
CHATHAM	53	44	67	42	48	-.5	1.0	-.1	.7	16.0	157	25.3	141	94	80	0	0	0	3	
MI ALPENA	65	39	80	36	52	-.1	.5	-.2	.5	5.1	83	8.1	89	89	42	0	0	0	1	
DETROIT	72	48	85	42	60	1	.2	-.4	.2	7.0	94	11.2	102	81	40	0	0	0	0	
FLINT	68	43	85	36	55	-.2	.7	-.6	.7	7.4	108	10.0	105	84	42	0	0	0	0	
GRAND RAPIDS	70	43	83	38	56	-.2	.2	-.5	.2	6.8	84	11.2	99	90	41	0	0	0	0	
HOUGHTON LAKE	71	40	90	34	56	1	.1	-.5	.1	4.8	82	8.2	95	84	40	1	0	0	1	
LANSING	70	40	86	33	55	-.3	.7	-.7	.7	6.5	92	9.5	97	96	45	0	0	0	0	
MARQUETTE	51	34	51	33	43	-.7	.4	-.3	.4	5.5	74	7.6	67	99	68	0	0	0	1	
MUSKEGON	66	42	75	38	54	-.3	.1	-.5	.1	4.6	64	9.9	90	85	47	0	0	0	0	
SAULT ST. MARIE	65	37	86	31	51	0	.4	-.2	.4	5.2	81	8.4	79	89	45	0	3	2	2	
MN ALEXANDRIA	79	54	89	47	66	9	.2	-.5	.2	4.8	88	5.8	82	72	32	0	0	0	0	
DULUTH	69	46	85	42	58	6	.1	-.6	.1	6.2	102	8.7	107	71	32	0	0	0	1	
INT'L FALLS	75	46	89	35	61	8	.7	-.5	.7	2.7	66	3.5	62	68	32	0	0	0	0	
MINNEAPOLIS	79	52	88	46	66	6	.1	-.7	.1	4.8	74	6.8	81	70	30	0	0	0	1	
ROCHESTER	77	48	86	41	63	5	.7	-.8	.7	5.7	84	7.6	91	84	29	0	0	0	0	
MS GREENWOOD	83	58	87	52	70	-.2	.2	-.1	.2	12.1	84	19.0	80	90	39	0	0	0	0	
JACKSON	82	59	87	50	70	-.2	.7	-.1	.7	12.1	79	26.6	104	86	42	0	0	0	0	
MERIDIAN	84	59	90	51	72	0	.0	-.1	.0	13.3	87	28.0	108	80	36	1	0	0	0	
MO CAPE GIRARDEAU	79	53	82	48	66	-.2	.7	-.1	.7	11.0	84	18.4	95	91	32	0	0	0	0	
COLOMBIA	78	51	81	46	65	1	.0	-.1	.0	14.9	148	17.8	134	83	36	0	0	0	0	
KANSAS CITY	80	54	82	50	67	3	.0	-.2	.0	8.5	95	10.6	95	76	34	0	0	0	0	
SAINT LOUIS	78	55	82	50	66	0	.7	-.9	.7	12.9	133	16.5	121	69	31	0	0	0	0	
SPRINGFIELD	78	54	80	46	66	2	.0	-.1	.0	17.1	156	21.2	145	78	34	0	0	0	0	
MT BILLINGS	68	47	75	44	58	2	1.0	-.4	.3	3.8	82	4.5	73	89	39	0	0	0	6	
GLASGOW	66	47	76	43	57	1	1.3	-.9	.9	2.2	99	3.2	114	92	52	0	0	0	6	
GREAT FALLS	58	42	65	38	50	-.4	1.5	-.9	.6	3.6	87	4.7	83	89	59	0	0	0	6	
HAVRE	63	44	69	40	54	-.2	..	..	..	..	..	..	..	92	46	0	0	0	..
HELENA	60	43	68	38	51	-.2	.9	-.5	.4	2.8	98	3.4	87	84	52	0	0	0	7	
KALISPELL	58	42	63	35	50	-.2	.8	-.3	.4	2.4	73	4.4	74	89	52	0	0	0	6	
MILES CITY	74	51	79	48	62	5	.6	-.1	.3	2.5	74	3.6	82	89	42	0	0	0	4	
MISSOULA	61	42	65	34	52	-.1	1.0	-.6	.5	4.8	155	5.6	109	89	53	0	0	0	6	
NE GRAND ISLAND	82	57	84	44	70	7	.7	-.9	.7	3.6	53	5.5	68	83	38	0	0	0	1	
LINCOLN	81	54	84	46	68	5	.7	-.9	.7	3.3	45	4.2	48	84	38	0	0	0	0	
NORFOLK	83	57	86	47	70	9	.7	-.9	.7	2.3	35	3.9	50	74	35	0	0	0	0	
NORTH PLATTE	82	57	85	42	70	11	.7	-.8	.7	1.9	35	2.7	43	84	39	0	0	0	0	
OMAHA	86	53	87	46	69	6	.0	-.1	.0	1.9	24	4.0	44	..	..	0	0	0	0
SCOTTSBLOFF	86	53	91	45	69	12	.3	-.4	.2	3.3	75	4.7	87	83	21	2	0	0	2	
VALENTINE	85	57	90	42	71	11	.0	-.8	.0	2.7	47	3.5	52	68	31	1	0	0	0	
NV RLY	63	28	79	21	46	-.6	.5	-.3	.3	3.8	128	5.2	126	85	24	0	6	2	0	
LAS VEGAS	83	60	96	53	71	-.3	.0	-.1	.0	.1	16	.7	37	39	15	2	0	0	0	
RENO	61	41	71	36	51	-.6	.1	-.1	.1	2.0	130	2.7	74	76	30	0	0	0	0	
WIDENBUCCA	62	42	75	38	52	-.4	.4	-.2	.3	3.1	141	4.3	121	86	33	0	0	0	4	
NE CONCORD	66	39	82	32	53	-.3	1.0	-.3	.6	10.8	139	15.1	118	94	45	0	1	4	1	
NJ ATLANTIC CITY	66	44	80	36	55	-.6	1.1	-.4	.7	13.5	142	21.2	132	93	59	0	0	0	4	
NM ALBUQUERQUE	85	56	86	50	71	6	.7	-.1	.7	1.2	88	1.4	64	45	13	0	0	0	0	
CLOVIS	82	55	87	49	69	3	.2	-.3	.2	2.6	102	2.8	83	87	32	0	0	0	1	
ROSWELL	87	57	92	53	72	2	2.4	2.2	1.3	4.4	303	4.5	196	87	30	1	0	0	3	
NY ALBANY	65	44	80	38	55	-.4	1.1	-.3	.8	10.8	131	15.8	123	91	48	0	0	0	5	
BINGHAMTON	59	42	77	40	51	-.6	.3	-.5	.2	9.5	116	14.8	115	89	58	0	0	0	3	
BUFFALO	63	45	73	40	54	-.4	.8	-.0	.6	8.6	112	12.9	102	90	53	0	0	0	3	
NEW YORK	66	50	76	46	58	-.5	2.1	1.2	1.3	12.4	124	20.0	126	92	54	0	0	0	1	
ROCHESTER	63	42	76	38	53	-.5	.8	-.2	.6	7.4	110	11.7	108	93	59	0	0	0	4	
SYRACUSE	62	41	73	38	52	-.6	.4	-.4	.2	12.0	145	17.3	135	95	59	0	0	0	4	
NC ASHEVILLE	71	49	79	41	60	-.4	.6	-.6	.4	12.4	97	22.9	108	85	41	0	0	0	2	
CHARLOTTE	75	54	84	46	65	-.3	.2	-.7	.2	8.6	90	14.8	86	76	42	0	0	0	1	
GREENSBORO	72	50	83	42	61	-.5	.4	-.6	.3	7.7	83	13.8	88	82	43	0	0	0	0	
HATTERAS	70	59	84	54	65	-.3	.7	-.9	.7	10.3	98	20.7	104	80	61	0	0	0	1	
NEW BERN	72	55	87	48	64	-.6	.7	-.1	.7	8.3	82	16.0	86	85	49	0	0	0	0	
RALPHIGH	72	51	85	44	61	-.6	.4	-.6	.4	9.2	102	15.7	97	86	53	0	0	0	1	
WILMINGTON	75	55	87	48	65	-.4	.7	-.9	.7	11.5	114	21.8	114	90	49	0	0	0	0	
ND BISMARCK	81	58	89	40	69	14	.3	-.2	.2	2.1	54	3.1	65	85	39	0	0	0	3	
FARGO	81	55	90	44	68	11	.1	-.5	.1	4.1	91	5.4	95	69	31	1	0	0	0	
GRAND FORKS	79	51	91	38	65	9	.1	-.4	.1	1.8	50	3.1	64	81	35	1	0	0	2	
WILLISTON	72	47	82	32	60	4	2.4	1.9	1.6	4.3	133	6.2	147	87	39	0	1	4	2	
OH AERON-CAMPON	63	42	78	39	52	-.7	.6	-.2	.6	10.5	116	15.7	117	92	55	0	0	0	2	
WILLIAM	71	47	78	43	59	-.4	1.	-.9	1.	10.7	99	15.6	97	91	44	0	0	0	1	
CLEVELAND	63	43	75	37	53	-.6	.4	-.4	.3	6.0	72	9.4	75	91	55	0	0	0	2	
COLUMBUS	69	46	79	41	57	-.4	.2	-.7	.2	6.8	72	12.2	90	88	45	0	0	0	1	
DAYTON	70	45	79	40	58	-.5	.2	-.7	.2	10.0	105	15.0	109	84	39	0	0	0	1	

Based on 1961-90 normals.

Weather Data for the Week Ending May 21, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS								
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																				.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
OH TOLEDO	70	45	83	38	57	-2	.7	-.7	.5	7.5	99	12.2	111	84	44	0	0	0	0	0	0	0	
OH YOUNGSTOWN	61	41	78	35	51	-.7	.7	-.3	.5	11.3	131	15.4	121	94	54	0	0	0	0	0	0	0	
OK OKLAHOMA CITY	81	56	83	50	68	-1	.0	-1.3	.0	7.6	86	10.4	90	90	57	0	0	0	0	0	0	1	
OK TULSA	81	56	82	53	69	-1	.0	-1.3	.0	10.4	95	13.3	92	92	47	0	0	0	0	0	0	1	
OR ASTORIA	59	48	61	44	53	0	.4	-.3	.2	12.5	91	30.7	98	92	43	0	0	0	0	0	0	0	
OR BURNS	57	36	63	27	46	-5	.6	-.4	.3	1.3	88	2.1	52	86	41	0	0	0	0	0	0	0	
OR MEDFORD	57	46	73	36	57	-2	.5	-.2	.4	2.5	66	4.7	57	82	41	0	0	0	0	0	0	0	
OR PENDLETON	63	47	68	43	55	-3	2.1	1.9	1.3	3.4	117	6.7	120	85	44	0	0	0	0	0	0	0	
OR PORTLAND	66	52	71	50	59	1	.1	-.4	.1	4.1	85	12.6	76	88	50	0	0	0	0	0	0	1	
OR SALEM	64	50	70	47	57	3	1.0	.6	.5	6.1	77	14.6	80	85	54	0	0	0	0	0	0	0	
PA ALLENTOWN	68	46	82	40	57	-4	.7	-.3	.2	11.1	125	19.9	126	90	56	0	0	0	0	0	0	2	
PA ERIE	61	44	74	39	53	-5	.8	-.0	.5	9.1	107	13.0	100	92	56	0	0	0	0	0	0	1	
PA HARRISBURG	67	50	80	46	59	-4	.1	-.9	.0	11.3	122	20.1	132	86	51	0	0	0	0	0	0	1	
PA PHILADELPHIA	69	50	81	44	59	-3	1.1	-.2	.8	12.3	119	19.8	118	86	51	0	0	0	0	0	0	1	
PA PITTSBURGH	63	46	80	41	54	-6	.3	-.5	.3	9.6	107	15.6	113	86	54	0	0	0	0	0	0	1	
PA SCRANTON	63	44	81	42	54	-6	1.0	-.2	.8	11.0	138	19.2	125	86	50	0	0	0	0	0	0	3	
RI PROVIDENCE	59	44	72	40	52	-6	.7	-.1	.6	11.6	108	19.2	105	97	58	0	0	0	0	0	0	4	
SC CHARLESTON	79	59	90	51	69	-5	-.1	-.8	.5	5.5	58	14.2	88	83	39	1	1	0	0	0	0	1	
SC COLOMBIA	78	56	89	48	67	-4	.3	-.5	.3	6.7	64	14.9	78	79	39	0	0	0	0	0	0	0	
SC FLORENCE	77	56	88	48	67	-5	.5	-.8	.5	7.7	74	14.6	92	81	39	0	0	0	0	0	0	0	
SC GREENVILLE	75	51	83	45	63	-5	.4	-.6	.4	8.5	84	16.2	78	80	42	0	0	0	0	0	0	0	
SD ABERDEEN	85	62	89	48	74	16	.6	-.7	.7	2.9	60	4.2	69	70	33	0	0	0	0	0	0	0	
SD HURON	82	59	85	46	71	12	.1	-.5	.5	4.6	59	6.2	93	78	37	0	0	0	0	0	0	0	
SD RAPID CITY	81	53	89	42	67	11	.2	-.4	.2	2.7	59	3.9	85	79	36	0	0	0	0	0	0	0	
SD SIOUX FALLS	85	58	87	49	71	12	.5	-.7	.7	4.6	64	6.2	85	70	31	0	0	0	0	0	0	0	
TN CHATTANOOGA	77	54	83	48	65	-2	.6	-.4	.4	19.6	146	33.4	144	86	40	0	0	0	0	0	0	1	
TN KNOXVILLE	78	51	81	45	63	-3	.4	-.6	.6	21.6	186	37.3	189	88	44	0	0	0	0	0	0	1	
TN MEMPHIS	80	60	84	56	70	-2	.8	-.6	.8	12.9	89	22.7	101	76	35	0	0	0	0	0	0	1	
TN NASHVILLE	75	53	80	48	64	-4	.1	-1.0	.1	15.4	122	25.9	130	84	43	0	0	0	0	0	0	1	
TX ABILENE	82	60	83	56	71	-2	.0	-.7	.7	10.3	198	12.1	164	89	39	0	0	0	0	0	0	0	
TX AMARILLO	81	55	84	45	68	3	.0	-.6	.6	2.7	78	3.8	84	88	39	0	0	0	0	0	0	0	
TX AUSTIN	85	65	88	59	75	-1	.7	-.4	.4	6.2	82	9.8	85	86	46	0	0	0	0	0	0	0	
TX BEAUMONT	85	66	89	58	75	0	2.8	1.5	1.7	13.4	128	21.7	116	95	50	0	0	0	0	0	0	2	
TX BROWNSVILLE	88	67	90	64	77	-3	.9	-.3	.3	3.8	95	6.2	94	95	44	0	0	0	0	0	0	1	
TX CORPUS CHRISTI	86	68	89	64	77	-1	.4	-.4	.4	9.6	100	11.7	137	92	47	0	0	0	0	0	0	1	
TX DEL RIO	89	67	91	63	78	1	.0	-.7	.7	7.0	126	9.8	121	83	40	0	0	0	0	0	0	0	
TX EL PASO	93	63	94	61	78	6	.2	-.1	.1	1.0	150	1.3	85	49	15	0	0	0	0	0	0	0	
TX FORT WORTH	84	63	85	59	73	2	.5	-.2	.2	9.7	93	13.1	90	91	46	0	0	0	0	0	0	0	
TX GALVESTON	83	72	85	69	77	1	1.6	.8	1.5	6.0	87	8.6	69	84	47	0	0	0	0	0	0	3	
TX HOUSTON	85	64	88	58	75	0	2.1	.8	1.9	8.7	87	13.6	78	94	45	0	0	0	0	0	0	1	
TX LUBBOCK	83	58	86	53	71	1	.0	-.6	.6	6.4	194	7.0	159	91	36	0	0	0	0	0	0	0	
TX MIDLAND	86	59	88	53	73	-1	.0	-.7	.7	1.0	39	2.2	57	88	33	0	0	0	0	0	0	0	
TX SAN ANGELO	84	60	85	56	72	-3	.0	-.7	.7	4.0	88	6.1	94	93	41	0	0	0	0	0	0	0	
TX SAN ANTONIO	86	64	89	57	75	-1	1.4	.5	.8	14.3	210	16.5	159	89	44	0	0	0	0	0	0	0	
TX VICTORIA	84	62	85	58	73	-3	.0	-.4	.4	10.7	135	13.9	92	93	48	0	0	0	0	0	0	1	
TX WACO	84	67	86	62	75	-1	1.0	.5	.8	10.1	116	14.8	119	98	53	0	0	0	0	0	0	1	
TX WICKIPEA FALLS	82	58	84	53	70	-1	.0	-.7	.7	4.2	50	6.0	52	93	39	0	0	0	0	0	0	0	
UT CEDAR CITY	70	42	81	31	56	-1	.0	-.2	.2	2.4	80	3.8	82	43	13	0	0	0	0	0	0	0	
UT SALT LAKE CITY	70	48	85	43	59	0	.0	-.4	.4	4.9	92	7.1	92	83	26	0	0	0	0	0	0	0	
VT BURLINGTON	66	43	81	38	55	-3	1.1	.4	.9	8.4	119	11.8	113	87	44	0	0	0	0	0	0	1	
VA NORFOLK	69	57	88	52	63	-4	.4	-.5	.5	13.0	139	20.7	128	76	55	0	0	0	0	0	0	2	
VA RICHMOND	71	51	87	45	61	-5	.1	-.7	.7	12.4	135	19.8	128	80	30	0	0	0	0	0	0	0	
VA ROANOKE	69	49	84	39	59	-3	.2	-.7	.7	12.7	134	22.6	149	88	47	0	0	0	0	0	0	0	
WA OQUILAYNE	60	47	62	41	53	2	.6	-.6	.4	18.8	82	46.6	93	95	63	0	0	0	0	0	0	2	
WA SEATTLE-TACOMA	64	50	69	48	57	1	.3	-.1	.1	6.4	90	13.3	81	89	54	0	0	0	0	0	0	4	
WA SPOKANE	61	44	65	37	53	-2	1.3	.9	.5	2.9	81	5.2	73	92	50	0	0	0	0	0	0	4	
WA YAKIMA	68	44	72	36	56	-1	.5	-.3	.3	2.2	142	3.6	103	88	42	0	0	0	0	0	0	4	
WV BECKLEY	61	44	74	36	53	-7	.8	-.1	.8	13.7	144	23.5	153	89	55	0	0	0	0	0	0	1	
WV CHARLESTON	68	49	77	41	58	-6	.7	-.3	.7	15.0	156	27.0	173	92	49	0	0	0	0	0	0	1	
WV HUNTINGTON	69	49	78	43	59	-3	.7	-.2	.7	15.3	152	25.1	156	91	47	0	0	0	0	0	0	1	
WV PARKERSBURG	67	46	77	39	57	-7	.1	-.8	.1	12.1	123	23.4	147	92	52	0	0	0	0	0	0	1	
WI GREEN BAY	72	44	86	38	58	1	.7	-.6	.7	7.6	121	10.2	120	81	38	0	0	0	0	0	0	1	
WI LACROSSE	77	50	87	46	64	3	.0	-.7	.7	.0	.0	.0	.0	83	28	0	0	0	0	0	0	0	
WI MADISON	76	42	85	35	59	0	.0	-.7	.7	3.8	51	5.0	83	83	30	0	0	0	0	0	0	1	
WI MILWAUKEE	67	46	84	40	56	1	.7	-.6	.7	4.1	50	9.8	88	81	42	0	0	0	0	0	0	0	
WI WAUSAU	76	45	86	39	60	4	.0	-.8	.7	4.7	66	6.2	69	80	25	0	0	0	0	0	0	0	
WY CASPER	81	47	87	40	64	11	.1	-.4	.1	1.8	44	3.2	62	82	16	0	0	0	0	0	0	0	
WY CHEYENNE	75	45	78	40	60	8	.7	-.8	.7	3.5	88	5.1	106	84	23	0	0	0	0	0	0	1	
WY LARAMIE	76	45	82	38	61	7	.7	-.8	.7	3.1	65	4.5	75	67	13	0	0	0	0	0	0	0	
WY SHERIDAN	74	46	79	39	60	7	.1	-.5	.1	2.8	66	5.8	102	80	37	0	0	0	0	0	0	1	

Based on 1961-90 normals.

CUMULATIVE GROWING DEGREE DAYS (CORN*) March 1 - May 21, 1994

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ABBOTSTON	1162	+ 89	RUSSELL	812	+ 172	YOUNGSTOWN	362	- 18
BIRMINGHAM	1160	+ 76	SALINA	831	+ 157	ZANESVILLE	469	- 50
MOBILE	1464	+ 72	TOPEKA/BILLARD	755	+ 76	OK ALTUS	1093	- 24
MONTGOMERY	1369	+ 193	WICHITA	836	+ 33	GAGE	950	+ 104
MUSCLE SHOALS	1061	+ 87	KY LEKINGTON	629	+ 40	HOBART	1000	+ 57
OSARK	1386	+ 69	BOWLING GREEN	795	+ 6	MCALESTER	1095	+ 83
TUSCALOOSA	1242	+ 80	PADUCAH	838	- 1	PONCA CITY	1005	+ 154
AZ DOUGLAS	1189	+ 135	LA LAFAYETTE	1526	+ 84	TULSA	988	+ 40
FLAGSTAFF	414	+ 91	LAKE CHARLES	1536	+ 144	OK BAKER	507	+ 183
PHOENIX	1609	+ 233	MCKEAN	1380	+ 151	EUGENE	574	+ 172
TUCSON	1420	+ 191	NEW ORLEANS	1548	+ 98	NORTH BEND	377	+ 140
YUMA	1804	+ 293	SHERVPORT	1321	+ 29	PINDLSTON	633	+ 196
PRESCOTT	719	+ 126	ME AUGUSTA	174	- 29	REDMOND	474	+ 113
AR EL DORADO	1221	+ 79	CARLEBOU	112	- 6	PORTLAND	632	+ 235
FAYETTEVILLE	909	+ 87	HOUTON	130	- 23	SALEM	636	+ 241
FORT SMITH	1114	+ 124	PORTLAND	189	+ 8	SEXTON SUMMIT	245	+ 51
JONESBORO	1008	+ 43	MD BALTIMORE	716	+ 110	PA ALLENTOWN	481	+ 45
LITTLE ROCK	1118	+ 47	MA WORCESTER	245	- 19	PHILADELPHIA	613	+ 109
TEXARKANA	1233	+ 59	MI GRAND RAPIDS	356	---	WILLIAMSPORT	462	+ 39
CA BAKERSFIELD	1165	+ 93	JACKSON	379	+ 14	SC BRADFORD	1427	+ 167
BLUE CANYON	200	- 7	LANSING	375	- 16	CHARLESTON	1359	+ 166
DAGGERT	1351	+ 180	MUSKOGEE	258	- 15	COLUMBIA	1302	+ 153
BLUE MOUNTAIN	403	+ 215	PELLISTON	221	+ 14	FLORENCE	1260	+ 133
FAIRFIELD	955	+ 140	SAULT STE. MARIE	137	- 9	SD SIOUX FALLS	1183	+ 1
FRESNO	1116	+ 175	TRAVERSE CITY	273	+ 26	ABERDEEN	491	+ 185
MARYSVILLE	1055	+ 137	MN DULUTH	216	+ 60	HURON	497	+ 128
MT SHASTA	451	+ 97	INT'L FALLS	248	+ 53	PIERRE	582	+ 184
PALO VERDE	1032	+ 198	MIDLAND	392	---	RAPID CITY	577	+ 212
RED BLUFF	976	+ 106	ROCHESTER	368	---	SIOUX FALLS	525	+ 140
RIVERSIDE	924	- 69	ALEXANDRIA	319	+ 68	WATERLOO	376	+ 95
SANTA ANA	1180	+ 228	MS BILOXI	1506	+ 101	WY BRISTOL	743	+ 14
SAN DIEGO	916	+ 51	COLUMBUS	1366	+ 252	CHATTANOOGA	1009	+ 105
SACRAMENTO	963	+ 134	JACKSON	1253	+ 68	CROSSVILLE	777	+ 142
TERRELL	1625	+ 118	MERIDIAN	1377	+ 173	MEMPHIS	1174	+ 150
CO ALABAMA	382	+ 53	GREENWOOD	1292	+ 143	NASHVILLE	897	+ 7
DENVER	709	+ 233	MO COLUMBIA	690	+ 59	ARLINGTON	1223	+ 21
EAGLE	394	+ 51	JOPLIN	883	+ 80	AMARILLO	862	+ 52
GRAND JUNCTION	758	+ 129	SPRINGFIELD	817	+ 73	AUSTIN	1528	+ 102
LA JUNTA	836	+ 136	VICNY	726	+ 26	BROWNSVILLE	1892	+ 13
DOVER	543	- 106	MT HELENA	447	+ 179	COLUMBIA STATION	1496	+ 103
WILMINGTON	574	+ 57	KALISPELL	343	+ 70	DALHART	869	+ 113
FL DAYTONA BEACH	1709	+ 173	MILES CITY	547	+ 194	DEL RIO	1676	+ 131
FORT MYERS	2044	+ 250	NE GRAND ISLAND	658	+ 151	DALLAS/FT WORTH	1298	+ 67
GAINESVILLE	1555	- 6	NORFOLK	662	+ 205	GALVESTON	1639	+ 195
JACKSONVILLE	1526	+ 107	NORTH PLATTE	679	+ 203	HOOVER/INTCENL	1895	+ 171
FORT LAUDERDALE	2226	+ 312	VALENTINE	641	+ 183	KINGSVILLE/WAS	1821	+ 43
MIAMI	2229	+ 237	SCOTTSDALE	680	+ 230	LAREDO	1905	+ 70
MILTON	1443	+ 72	SIDNEY	621	+ 222	LUBBOCK	1098	+ 108
PENSACOLA	1505	+ 114	NV ELKO	476	+ 118	MCALESTER	1994	+ 145
ST PETERSBURG	1930	+ 122	ELY	434	+ 122	MIDLAND	1240	- 9
TALLAHASSEE	1529	+ 142	LAS VEGAS	1423	+ 293	PALACIOS	1574	+ 48
TAMPA	1908	+ 227	RENO	663	+ 136	SAN ANTONIO	1608	+ 116
VERO BEACH	1917	+ 222	WINNEMUCCA	640	+ 163	VICTORIA	1616	+ 102
W. PALM BEACH	2071	+ 150	NE CONCORD	317	+ 11	WACO	1331	+ 5
GA ATHENS	1132	+ 131	NJ NEWARK	568	+ 111	WICHITA FALLS	1115	+ 1
AUGUSTA	1247	+ 115	NM ALBUQUERQUE	929	+ 103	WINK	1345	+ 103
BROWNIECK	1475	+ 142	CARLEBOU	1360	+ 205	UT CEDAR CITY	593	+ 134
COLUMBUS/METRO	1343	+ 145	CLOVIS	912	+ 67	VT BARRÉ-MONTPELIER	208	- 1
MCCON	1326	+ 103	GALLUP	647	+ 105	BURLINGTON	262	+ 16
SAVANNAH	1471	+ 185	TRUTH OR CONSEQ.	1040	+ 96	VA CHARLOTTESVILLE	816	+ 78
ID BOISE	659	+ 228	ALBANY	328	- 15	HAMPTON/LANGLEY	856	+ 129
BURLEY	622	+ 256	ELMIRA	335	- 13	LYNCHBURG	744	+ 34
IDAMO FALLS	510	+ 226	GREEN FALLS	301	+ 13	NORFOLK	956	+ 192
POCAHONTO	554	+ 245	POCONOKEEPSIE	403	+ 18	RICHMOND	878	+ 70
REKLEVILLE	693	- 22	ROCHESTER	302	- 13	MA BELLINGHAM	398	+ 166
CHICAGO/MIDWAY	459	+ 39	SYRACUSE	281	- 30	HOOVER	362	+ 141
DECATUR	533	- 86	UTICA	239	- 29	SEATTLE-TACOMA	479	+ 202
PHOENIX	569	+ 82	WATERLOO	252	+ 4	SPOKANE	436	+ 161
ROCHFORD	484	+ 103	NC ASHEVILLE	755	+ 9	TACOMA	489	+ 147
SPRINGFIELD	603	+ 27	FAYETTEVILLE	1099	+ 102	WALLA WALLA	743	+ 275
QUINCY	543	- 7	JONESBORO	866	+ 36	WENATCHEE	685	+ 167
IN INDIANAPOLIS	519	- 33	HICKORY	886	+ 59	YAKIMA	691	+ 184
SOUTH BEND	433	+ 31	RALEIGH	975	+ 76	WV HUNTINGTON	701	+ 28
TERRE HAUTE	573	+ 4	WILMINGTON	1152	+ 138	MARTINSBURG	579	+ 1
IA DES MOINES	568	+ 21	NEW BERN	1074	+ 58	MORGANTOWN	544	- 37
MASON CITY	459	+ 65	MD BETHESDA	451	+ 162	WY HAY CLARE	369	+ 52
OTTUMWA	566	+ 76	DICKINSON	384	+ 123	GREEN BAY	328	+ 65
SIOUX CITY	598	---	JAMES TOWN	364	+ 98	LACROSSE	423	+ 55
WATERLOO	509	---	MINOT	369	+ 132	MADISON	445	+ 85
KS CHAMOTE	787	+ 32	GRAND FORKS	336	+ 80	WATTS	323	+ 57
DODGE CITY	810	+ 126	OK ABERNATHY	365	- 50	CASPER	606	+ 312
GARDEN CITY	818	+ 131	COLUMBUS	502	- 28	LANDER	519	+ 242
GOODLAND	702	+ 171	DAYTON	478	- 41	SHERIDAN	519	+ 211
MEDICINE LODGE	925	+ 67	FINDLAY	388	- 33	WORLDAM	674	+ 292

Based on 1951-80 normals.

* Growing degree days for corn are computed to a 50°F base with the daily maximum temperature limited to 86°F or lower, and the daily minimum to 50°F or higher.

National Agricultural Summary

May 16 - 22, 1994

HIGHLIGHTS: Favorable weather allowed planting progress to continue at a brisk pace with all field crops ahead of the 5-year average. The percent of soybeans planted followed the rapid pace set by corn producers with all States ahead of the average. The central United States experienced summer weather as warm and windy conditions dried fields and promoted plant development. The warm weather boosted wheat development in southern Kansas, where wheat was beginning to turn color. Corn development benefited from the open weather, and the percentage emerged was well over half for Kentucky, Iowa, Ohio, Nebraska, and Minnesota. Frequent thunderstorms in the Gulf Coast did not slow crop development. In parts of the Corn Belt, producers expressed concern that the lack of soil moisture was slowing germination for newly-planted crops. Cool, cloudy weather with little precipitation for the eastern half of the Nation dried fields and allowed planting to progress. Significant amounts of rainfall in the northern Pacific Coast saved the small grain crops, but did little to improve soil moisture levels, which remain at a deficit. Cool weather and rainfall slowed crop progress and field activities for the Southern Pacific Coast. Late week showers and thunderstorms in the upper Great Plains slowed small grains planting.

SMALL GRAINS: The winter wheat crop was mostly good to fair with 66% of the winter wheat acreage headed, 17 points ahead of last year, and 2 points ahead of the 5-year average. Arkansas, California, North Carolina, and Oklahoma were 99% headed, while Michigan and Montana still report no wheat headed. Heading of wheat progressed quickly in Missouri, where a 42 percentage point increase from last week was reported. Russian wheat aphid infestation and wheat streak mosaic were reported in western Kansas. Wheat harvest was under way in south Texas to the Blacklands, with 1% harvested compared with 2% last year. Texas' winter wheat condition was 50% normal compared with 74% for last year.

Spring wheat crop was mostly good to fair with spring wheat seeding 92% complete, 2 points behind the average. North and South Dakota were behind the average with 57% and 91% seeded respectively. The spring wheat crop was 64% emerged, 11 points behind the average.

Corn planted was 92% complete for the Nation, 11 points ahead of the average. Warm weather and dry field conditions spurred corn planting. Corn planted in Indiana, Michigan, Missouri, Wisconsin,

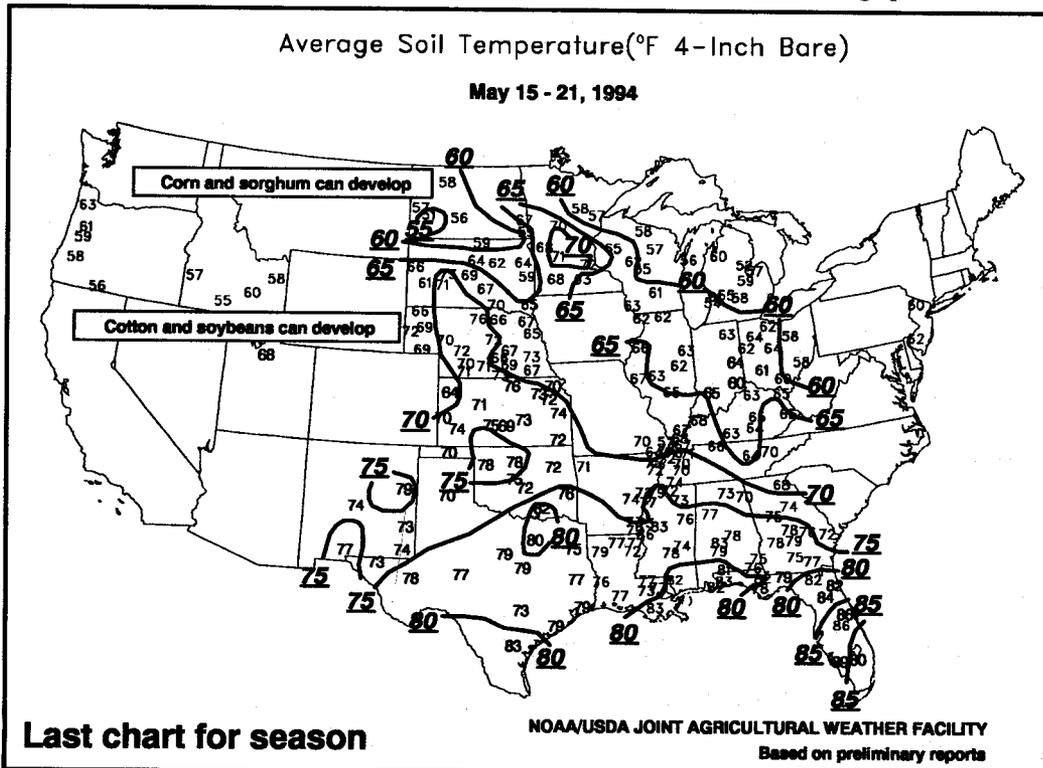
and South Dakota increased over 20 percentage points from last week. This week's corn condition in Wisconsin was mostly good, with corn planted at 94%, the highest level for this date in over 30 years. Corn was 86% emerged in Iowa, 33 points ahead of the average. Corn planted in Iowa reached 100%, while Kansas, Minnesota, Nebraska, and Texas had over 95% planted. Illinois producers replanted some poor corn stands and reported some acres sprayed for cutworms.

Cotton was in mostly good condition with planting 71% complete, 3 points ahead of normal. Cotton planting in Missouri increased 25 points from last week to 97% complete. Cotton squaring in Arizona was 19%, 4 points ahead of average. The cotton crop condition in Texas was 84% optimum, compared with 69% for last year. Planting activities in the Texas Plains increased while cotton development in the South Central region made slow progress as higher temperatures were needed. Cotton plants continued to square and some plants began setting bolls in south Texas. Mississippi cotton planting progress was 24 percentage points ahead of the average, while Texas slipped to 8 percentage points behind the average. Cotton planting in California was virtually complete, with slow germination in the in the San Joaquin Valley, compared with plants blooming in the desert.

Sorghum planting was 49% complete, 7 points ahead of normal. Nebraska reported a 37 percentage point increase from last week for sorghum planted, 20 points ahead of the average. Sorghum fields responded favorably to warmer weather in Central Texas, and fields continued to head in the Costal Bend and Rio Grande Valley.

Rice condition was mostly good with seeding 91% complete, 12 points ahead of the average. Rice seeding in California was still behind the average by 8 points despite an increase of 25 points from last week. Mississippi finished planting and was 27 percentage points ahead of the average. Rice was 77% emerged for the 5 States, 18 percentage points ahead of the average. Mississippi's rice was 98% emerged, 40 percentage points ahead of the average. Arkansas and Texas reported some flooding of rice fields.

Soybeans planted were 58% complete, 21 percentage points ahead of the average. Soybeans planted increased 30 points from last week and are 35 points ahead of last year. Iowa continued to lead the Nation with 92% of their soybeans planted. Minnesota and Nebraska increased from last week by at least 40 percentage points to 76%, and 71% complete, respectively. Again this week Arkansas, Iowa, and Mississippi had twice the average planted.



Crop Progress for the Week Ending May 22, 1994

SOYBEANS PLANTED

	Current	Last Wk	1993	Avg.
AL	30	21	34	29
AR	31	15	8	14
GA	33	21	30	25
IL	50	21	29	50
IN	55	25	43	45
IA	92	53	15	42
KS	40	15	4	25
KY	22	6	13	17
LA	31	21	37	31
MI	45	10	30	35
MN	76	36	24	47
MS	67	39	10	17
MO	38	14	5	24
NE	71	28	14	37
NC	34	18	30	27
OH	76	44	55	46
SC	22	13	22	19
SD	48	12	18	33
TN	13	6	11	14
19 States	58	28	23	37

These 19 States produced 95% of the 1993 soybean crop.

COTTON PLANTED

	Current	Last Wk	1993	Avg.
AL	84	76	81	85
AZ	99	97	98	98
AR	92	75	69	74
CA	99	98	99	100
GA	92	85	87	74
LA	94	93	91	84
MS	98	97	67	74
MO	97	72	85	81
NM	84	73	90	94
NC	93	72	90	80
OK	34	15	23	32
SC	95	89	91	82
TN	91	71	77	72
TX	43	35	52	51
14 States	71	63	68	68

These 14 States produced 99% of the 1993 cotton crop.

RICE PLANTED

	Current	Last Wk	1993	Avg.
AR	95	89	56	72
CA	70	45	60	78
LA	91	86	91	89
MS	100	99	55	73
TX	99	96	82	93
5 States	91	83	66	79

These 5 States produced 96% of the 1993 rice crop.

RICE EMERGED

	Current	Last Wk	1993	Avg.
ID	99	98	85	95
MN	97	81	99	96
MT	93	88	86	89
ND	88	70	96	94
SD	98	95	95	99
5 States	92	78	94	94

These 5 States produced 96% of the 1993 rice crop.

CORN PLANTED

	Current	Last Wk	1993	Avg.
CO	93	76	87	86
GA	100	99	99	99
IL	87	69	68	85
IN	86	65	76	79
IA	100	98	65	82
KS	97	95	75	90
KY	80	65	74	75
MI	80	50	70	75
MN	96	79	63	80
MO	88	68	32	68
NE	100	91	70	88
NC	98	96	97	92
OH	94	80	84	75
PA	55	40	59	53
SD	86	52	50	74
TX	99	96	98	98
WI	94	65	52	71
17 States	92	78	68	81

These 17 States produced 91% of the 1993 corn crop.

SPRING WHEAT PLANTED

	Current	Last Wk	1993	Avg.
AR	82	68	33	50
CA	30	15	20	42
LA	87	80	81	82
MS	98	85	35	58
TX	85	79	72	81
5 States	77	65	45	59

These 5 States produced 97% of the 1993 spring wheat crop.

WINTER WHEAT HEADED

	Current	Last Wk	1993	Avg.
AR	99	97	93	98
CA	99	98	99	99
CO	31	3	15	25
GA	100	100	100	100
ID	1	0	1	4
IL	53	24	49	68
IN	36	13	32	42
KS	90	60	50	85
MI	0	0	0	2
MO	70	28	41	75
MT	0	0	0	0
NE	20	0	6	34
NC	99	97	92	96
OH	12	1	17	12
OK	99	98	91	95
OR	60	23	20	36
SD	2	0	0	4
TX	88	78	85	90
WA	39	16	5	18
19 States	66	49	49	64

These 19 States produced 92% of the 1993 winter wheat crop.

GRAIN SORGHUM PLANTED

	Current	Last Wk	1993	Avg.
AR	90	81	53	67
CO	17	15	9	13
IL	17	1	7	28
KS	25	10	5	20
LA	75	67	73	76
MS	77	75	59	66
MO	46	26	20	35
NE	50	13	9	30
NM	13	6*	25	37
OK	30	26	33	17
SD	24	3	6	16
TX	77	74	73	72
12 States	49	36	33	42

(* revised)

These 12 States produced 98% of the 1993 grain sorghum crop.

SPRING WHEAT EMERGED

	Current	Last Wk	1993	Avg.
ID	92	89	59	78
MN	61	29	84	87
MT	67	49	44	54
ND	57	24	71	72
SD	91	77	86	95
5 States	64	37	70	75

These 5 States produced 97% of the 1993 spring wheat crop.

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 none to 0.21 in. Temperatures 4 to 8° below normal. Lows 42 to 51° north; 44 to 53° central; 43 to 51° south. Highs 78 to 87° north; 82 to 91° central; 86 to 92° south.

Days suitable for fieldwork 6.3. Soil moisture 46% short, 52% adequate, 2% surplus. Percent acreage prepared 95%, 94% 1993, 93% avg. Corn planted 97%, 94% 1993, 96% avg.; silked 2%, 0% 1993, 5% avg.; 41% fair, 59% good. Sorghum planted 44%, 40% 1993, 47% avg.; 67% fair, 33% good. Peanuts planted 81%, 85% 1993, 83% avg. Wheat headed 93%, 87% 1993, 97% avg.; turning color 49%, 40% 1993, 69% avg.; 39% fair, 53% good, 8% excellent. Hay first cutting 50%, 41% 1993, 41% avg. Pasture feed condition 45% fair, 49% good, 6% excellent. Livestock 24% fair, 76% good. Seasonal activities: Planting corn, cotton, peanuts, sorghum, soybeans, vegetables.

ALASKA: Sunny, dry conditions prevailed throughout most of the State last week.

Days were available for seeding, ground preparation 7. Fieldwork progress ranged from on schedule to 7 days ahead of normal. Barley seeding was 65% complete, equal to last years progress. Commercial potato planting was just beginning, slightly behind the 1993 pace. Livestock 5% poor, 10% fair, 70% good, 15% excellent. Topsoil 30% short, 65% adequate, 5% surplus. Subsoil 5% short, 90% adequate, 5% surplus.

ARIZONA: Temperatures near normal; 7° below to 3° above. Extremes 24°; 94° higher elevations; 42°; 106° deserts. Precipitation: one station received a trace.

Cotton crop mostly planted, condition remains good; planted to date 99%, 98% 1993, 98% avg. Squaring 19%, 10% 1993, 15% avg. Weed infestations light; insect, disease infestations continue light. Small grains heading 100%, 100% 1993, 100% avg.; turning color 98%, 98% 1993, 94% avg. Condition remains good to excellent. Alfalfa condition good. Harvest progress moderate to active. Weed infestations remain light to moderate; insect, disease infestations continue light. Citrus harvest slowing. Grapefruit, lemons, valencia oranges, central, western groves. Grape harvest western vineyards. Vegetables harvested from central areas were broccoli, cabbage, carrots, dry onions, green onions, kale, leeks, mixed greens, potatoes. Bell peppers, honeydews, watermelon available western areas. Iceberg lettuce, tomatoes available eastern areas.

ARKANSAS: Temperatures a few degrees below normal with no precipitation most of State. Extremes 42°; 90°. Precipitation none to 0.21 in.

Days were suitable for fieldwork 6. Soil moisture 8% short, 88% adequate, 4% surplus. Crop development ahead of schedule. Some flushing, flooding of rice fields. Cotton 70% emerged, 38% 1993, 50% avg. Corn 100% planted, 84% 1993, 93% avg. Corn, sorghum treated for chinch bugs in several areas. Sunflowers good condition. Peaches, blueberries, strawberries, tomatoes, mostly good. Strawberry harvest ongoing. Fertilization, weed control of pastures ongoing. Planting of summer grasses continued. Cutting of hay ongoing. Alfalfa 30% fair, 70% good. Other hay 35% fair, 58% good, 7% excellent. Pasture 10% fair, 87% good, 3% excellent. Livestock good condition. External parasite control reported on cattle in several areas.

CALIFORNIA: Warm, dry, except cooler 16th to 19th with precipitation. Southern areas dry. Return to normal on 20th.

Cool temperatures, moderate rainfall slowed progress field activities, crop development most areas. Central valley small grains lodged due to high winds, rain; some fields hail damaged. Wheat grain harvest began southern counties. Rice planting delayed by wet, windy conditions. Treatments weeds, shrimp ongoing. Initial cotton planting virtually complete.; replanting hampered by cool weather, wet soils. San Joaquin Valley fields slow germination, emergence; desert area fields in bloom. Corn, dry beans planted, sprayed weeds. Over-wintered sugarbeets harvested, treated

mildew. Alfalfa, oats, forage mixes, sudangrass cut hay, greenchopped. Some windrowed alfalfa, oat hay rain damaged. Orchard, vineyard work full swing. Wet weather splitting cherries, peaches, nectarines; berries knocked off, scarred; vineyards treated mildew. Storms at Fresno knocked off olive bloom. Early variety stone fruit harvested, packed; late variety thinned. Cherry harvest progressed. Kiwifruit bloom virtually complete. Walnuts treated blight. Valencia orange harvest gained momentum. Groves treated powdery mildew. Avocado harvest continued, desert areas. Asparagus harvest declined San Joaquin County, continued Firebaugh District Fresno County. Broccoli harvest moderate central coast. Cauliflower very light central coast. Cabbage harvested Fresno County. Carrots packed Kern County. Celery harvested south coast. Cucumbers harvested good quality Tulare County. Harvest Head lettuce continued. Shippers leaf, Romaine lettuce San Joaquin Valley curtailing harvest due market conditions. Melons planted, treated mildew San Joaquin Valley, harvest melons Coachella Valley. Onions, garlic maturing Tulare County. Peppers planted central valley. Planting Fall potatoes Tulelake-Butte Valley underway. Spring potatoes harvested Kern County. Volume squash harvested increased Tulare County. Harvest sweet corn Riverside County full swing. Sweet potatoes planted Merced County. Fresh market tomatoes planted San Joaquin Valley, while harvested Coachella Valley. Processing tomatoes planted Sacramento Valley. Recent cool, wet weather slowed crop progress, field work. Other crops being harvested: Radishes, turnips, oriental vegetables. Light rains sustained warm season grasses. Livestock movement off lower elevation rangelands heavy. Field conditions, lower levels continued decline, upper elevation rangeland continued development. Feed and water supplies remain adequate. Sheep grazing dry land stubble. Cattle, sheep remained in good condition.

COLORADO: A strong low pressure system caused some very strong winds across the State. Strong storms that developed dropped hail, rain, some strong wind gusts. Rainfall was heaviest in the Arkansas, Kansas River Basins. Despite the storm activity, it was a very warm week with temperatures 5 to 11° above normal.

Days suitable for fieldwork 6.0. Soil moisture 5% very short, 29% short, 60% adequate, 6% surplus. Alfalfa first cutting 4% complete, 2% 1993, 6% avg. Spring barley 92% emerged, 88% 1993, 83% avg.; 3% poor, 16% fair, 54% good, 27% excellent. Dry beans 6% planted, 9% 1993, 8% avg. Oats 90% seeded, 85% 1993, 93% avg.; 81% emerged, 68% 1993, 77% avg. Oat 3% poor, 27% fair, 59% good, 11% excellent. Dry onion 2% very poor, 5% poor, 7% fair, 61% good, 25% excellent. Sugarbeets 7% thinned, 4% 1993, 8% avg.; 2% very poor, 5% poor, 33% fair, 54% good, 6% excellent. Corn 54% emerged, 59% 1993, 50% avg. Summer potatoes planting complete, 92% 1993, 87% avg.; 86% emerged, 73% 1993, 63% avg. Summer potatoes 3% poor, 11% fair, 67% good, 19% excellent. Fall potatoes 88% planted, 82% 1993, 76% avg.; 5% emerged, 0% 1993, 0% avg. Spring wheat 97% planted, 91% 1993, 89% avg.; 81% emerged, 60% 1993, 65% avg. Spring wheat 3% poor, 16% fair, 53% good, 28% excellent. Winter wheat 92% jointed, 86% 1993, 85% avg. High winds, warm temperatures depleted soil moisture delaying progress of some crops. Livestock good to excellent. Pasture, range feed condition good to excellent.

FLORIDA: Temperatures 7° below normal to 2° above normal. Highs low to mid 90s. Lows mid 40s to mid 60s. Rain on 0 to 4 days. Rainfall none to locally over 2.00 in.

Soil moisture short to adequate Panhandle, north Peninsula, central Peninsula mostly short, scattered adequate areas, southern Peninsula adequate. Winter wheat harvest active. Soybean planting active. Dry soil delaying completion of peanut, cotton planting. Some cotton planted in dry soil. Some dryland crops drought stressed. Corn, sugarcane making good progress. Hay cutting active. Rain most areas of citrus belt. East Coast, lower interior larger amounts, other areas in half inch range. New crop fruit progressing well. Some new foliage hit with leaf miner. Valencia harvest slowing, grapefruit

movement about over for this season. Caretakers cutting cover crops, fertilizing, spraying, completing hedging for the year. Vegetable crops condition good most areas, some west central in fair to good condition. Season complete for almost all crops south. Harvest increasing north, north central. Leading vegetable shipments were: Watermelons, potatoes, tomatoes, sweet corn, peppers. Also available: Snap beans, blueberries, cabbage, carrots, celery, cucumbers, eggplant, escarole, okra, parsley, radishes, squash, cherry tomatoes. Pasture feed 15% poor, 45% fair, 35% good, 5% excellent. Cattle herds fair to good.

GEORGIA: Temperatures 4 to 8° below normal. Highs 80° mountains to upper 80s central, lower 90s south. Coolest lows upper 30s mountains to mid 40s central, near 50° extreme south. Rain on 1 day in some areas, other areas no rainfall. Rain central sections, 0.33 in. or less.

Days suitable for fieldwork 6.2. Soil moisture 9% very short, 62% short, 29% adequate. Corn 14% silked, 0% 1993, 3% avg. Some cotton being replanted due to poor stands; rain needed. Sorghum 5% poor, 21% fair, 74% good; 73% planted, 51% 1993, 47% avg. Peanuts 12% fair, 85% good, 3% excellent; 94% planted, 92% 1993, 83% avg.; spraying fungicides, herbicides. Soybeans 14% fair, 86% good. Tobacco 34% fair, 66% good. Other small grains 18% fair, 76% good, 6% excellent. Onions 12% poor, 88% good; 90% harvested, 80% 1993, 89% avg. Watermelons 17% fair, 83% good; 99% planted, 99% 1993, 98% avg.; scattered disease problems. Other vegetables 10% fair, 87% good, 3% excellent; cabbage harvest, insect control south. Apples 17% very poor, 1% fair, 82% good. Peaches 9% fair, 90% good, 1% excellent; 34% harvested, 2% 1993, 11% avg. Hay 19% fair, 78% good, 3% excellent; near perfect hay weather, haying very active. Pasture 4% poor, 18% fair, 74% good, 4% excellent. Cattle, hogs good. Activities: Harvesting hay, planting cotton, peanuts, mowing pasture weeds, cultivating corn, peanuts, cotton. Spraying peanuts, irrigating crops. Routine care of livestock, poultry.

HAWAII: Weather variable throughout the State. Shower activity generally morning, evening hours. Hot, humid many areas during days. Temperatures mid 60s to upper 80s. Winds light to moderate at 10 to 25 mph. Rainfall none to 2.20.

Weather favorable for crop progress. Drier conditions necessitated increased irrigation. Regular spray programs kept insects, diseases under control. Sugar harvesting active all islands. Watermelon harvesting heavy in anticipation of Memorial Day weekend.

IDAHO: Temperatures 5° above to 4° below normal. Nearly all stations had below normal temperatures. Precipitation 0.66 to 1.93 in. north, 0.35 to 1.28 in. southwest, 0.17 to 0.55 in. south-central, 0.11 to 1.10 in. east.

Days suitable for fieldwork 4. Soil moisture 1% very short, 21% short, 77% adequate. Potatoes planted 88%, 64% 1993, 78% avg.; emerged 32%, 6% 1993, 15% avg. Spring barley emerged 92%, 56% 1993, 76% avg. Oats planted 94%, 67% 1993, 86% avg.; emerged 84%, 37% 1993, 66% avg. Sugarbeets emerged 98%, 67% 1993, 90% avg.; thinned 39%, 0% 1993, 20% avg. Field corn planted 85%, 62% 1993, 73% avg. Field corn emerged 46%, 21% 1993, 31% avg. Dry beans planted 11%, 4% 1993, 11% avg. Dry edible peas planted 98%, 57% 1993, 90% avg.; emerged 94%, 23% 1993, 70% avg. Alfalfa hay harvested 1st cutting 5%, 3% 1993, 5% avg. Irrigation water supplies 2% very poor, 5% poor, 26% fair, 61% good, 6% excellent. Hay, roughage supplies 5% short, 88% adequate, 7% surplus. Activities: Planting potatoes, dry beans, corn, thinning sugarbeets, cutting alfalfa, moving cattle.

ILLINOIS: Slightly below normal temperatures occurred with almost no rainfall. Temperatures within 2° of normal north, 2 to 4° below normal south. Highs 70° northeast to 80° south with average lows near 40° northwest to the low 50s south. Precipitation 0.04 in. was at Chicago Botanical Gardens.

Days suitable for fieldwork 5.50. Soil moisture 19% short, 64% adequate, 17% surplus. Corn average height 2 in., 1 in. 1993, 3 in. avg. Average height most advanced 5 in., 3 in. 1993, 6 in. avg. Winter wheat filled 7%, 3% 1993, 18% avg. Oats headed 6%, less than 1% 1993, 6% avg. Alfalfa hay first cutting 23%, 10% 1993, 17% avg. Red Clover hay cut 14%, 3% 1993, 9% avg. Pasture feed 94% normal. Oats 21% fair, 76% good, 3% excellent. Alfalfa 15%

fair, 76% good, 9% excellent. Red clover 11% fair, 80% good, 9% excellent. Weather conditions dried soils, allowed significant fieldwork statewide. Wettest area in the southeast was planting in full swing by week's end. Dry topsoil concerns farmers in the north, in need of rain to help with germination, chemical activation. Replanting of poor corn stands, spraying for cutworms were being done on a limited number of acres.

INDIANA: High temperatures 70s, which was 4° above normal in the north, west-central, 1 to 5° below normal in the south, east-central. Lows 40s to around 50°, which was 3 to 8° below normal. No precipitation was observed at the reporting stations across State.

Another good week for planting across the State. Pastures remain in good to excellent condition. Pastures feed 94% of normal, 93% last week. Topsoil 26% short, 65% adequate, 9% surplus. Subsoil 4% short, 81% adequate, 15% surplus. Oats headed 3%, 24% avg. Alfalfa 1st cutting 24%, 10% avg. Tobacco set 13%, 15% avg.

IOWA: Temperatures 3 to 10° above normal. Extremes 39°; 89°. Rainfall none in most areas; up to 0.64 in. central, average 0.03 in., normal 0.92 in.

Days suitable for fieldwork 6.3. Topsoil 73% short, 27% adequate. Subsoil 5% short, 89% adequate, 6% surplus. Corn replanted 2%; emerged 86%, 20% 1993, 53% avg. Soybeans emerged 28%, 2% 1993, 1% avg. Alfalfa hay 1st crop harvested 1%, 0% 1993, 2% avg. Winter wheat 25% fair, 67% good, 8% excellent. Pasture feed 5% poor, 32% fair, 56% good, 7% excellent. Oats 2% poor, 19% fair, 68% good, 11% excellent. Hay 6% poor, 27% fair, 59% good, 7% excellent. Corn 24% fair, 66% good, 10% excellent. Livestock are reported in good condition, farmers are discouraged by the drop in fed cattle prices. Dry topsoil is causing problems with the effectiveness of the herbicide treatments, as well as slowing down the germination of newly-planted crops.

KANSAS: Temperatures 6 to 10° above normal in the western districts. All other districts 3 to 5° above normal. Precipitation mostly light. Rainfall less than 0.50 in. all but the north-central and northeast districts. North-central received 0.63 in., northeast 1.28 in.

Days suitable for fieldwork 5.5. Topsoil moisture 34% short to very short, 63% adequate, 3% surplus. Subsurface moisture 9% short to very short, 82% adequate, 9% surplus. Wheat in the southern areas of the State is beginning to turn color. Nearly all of the wheat acreage is headed. Barley yellow dwarf reached moderate to severe levels in the southern quadrant the State. Wheat streak mosaic is present in the central, western districts. Other foliar disease infestations remain light but are present in many areas of the State. Russian wheat aphid are reported in the western districts. Favorable weather allowed good planting progress. Corn planting is nearing completion. Sorghum, soybean planting is in full swing statewide. Pastures are in good condition in all districts except the southwest where they are fair.

KENTUCKY: Cool, dry weather. Highs lower to mid 70s, lows mid to upper 40s. Temperatures 5 to 10° below normal. Most areas received no rainfall. Deficits about 1.00 in.

Days suitable fieldwork 4.9. Soil moisture 1% very short, 6% short, 86% adequate, 7% surplus. Corn planting made rapid progress, 62% planted acres emerged. Soybean planting increased as corn planting finished. Burley tobacco 18% set, 16% 1993, 23% avg. Dark tobacco 25% set. Condition tobacco plants in beds 3% poor, 45% fair, 46% good, 6% excellent. Winter wheat 13% fair, 70% good, 17 percent excellent. Minimal disease, insect problems. Ideal hay curing weather, baling active. Pastures mostly good to excellent.

LOUISIANA: Temperatures 0.5° to 2.4° below normal. Extremes 49°; 91°. Rainfall 0.06 in. north-central to 1.56 in. central.

Days suitable for fieldwork 3.6. Soil moisture 4% short, 60% adequate, 36% surplus. Corn 21% fair, 63% good, 16% excellent; 5% silked, 1% 1993, 4% avg. Corn growth was excellent, some fields were tasseling. Cotton 94% emerged, 77% 1993, 74% avg. Planting wound down. Hay 41% first cutting, 41% 1993, 31% avg. Peaches 15% harvested, 1% 1993, 3% avg. Early harvest active. Sorghum 9% poor, 57% fair, 34% good; 68% emerged, 63% 1993, 69% avg. Planting active by weekend. Soybeans 20% emerged, 24% 1993, 21% avg. Spring plowing 97% plowed, 92% 1993, 91% avg. Sweet potatoes 9% planted, 26% 1993, 21% avg. Planting active. Sugar-cane 2% poor, 33% fair, 65% good. Fertilization, lay by active.

Wheat 2% poor, 61% fair, 37% good; 100% headed, 100% 1993, 100% avg.; 91% turning color, 79% 1993, 89% avg.; 5% harvested, 19% 1993, 22% avg. Livestock 3% poor, 35% fair, 62% good, 5% excellent. Pasture feed 1% poor, 4% fair, 91% good, 4% excellent. Pastures looked good. Vegetables 25% fair, 70% good, 5% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Rainfall 0.44 in., normal 0.83 in. Temperature 58.2°, normal 62.3°. Extremes 29°; 87°.

Days suitable for fieldwork 5.3. Topsoil 24% short, 66% adequate, 10% surplus. Subsoil 95% adequate, 5% surplus. Pasture excellent. Small grain fair to good. Winter wheat 74% headed, 73% 1993, 79% avg. Barley 32% turned, 26% 1993, 32% avg. Rye 86% headed, 87% 1993, 96% avg. Corn grain 84% planted, 79% 1993, 76% avg. Soybeans 15% planted, 12% 1993, 15% avg. Sorghum 13% planted, 23% 1993, 14% avg. Tobacco 14% transplanted, 11% 1993, 25% avg. Sweet corn 64% planted, 68% 1993, 61% avg. Watermelons 72% planted, 56% 1993, 72% avg. Cantaloupes 75% planted, 69% 1993, 71% avg. Tomatoes 81% planted, 68% 1993, 75% avg. Other hay 19% first cut, 14% 1993, 16% avg. Alfalfa hay 36% first cut, 27% 1993, 31% avg. Strawberries 14% harvested, 8% 1993, 12% avg.

DELAWARE: Precipitation 0.75 in., normal 0.78 in. Temperature 58.7°, normal 63.3°. Extremes 38°; 83°.

Days suitable for fieldwork 5.1. Topsoil 83% adequate, 17% surplus. Subsoil 100% adequate. Pasture excellent. Small grain fair. Wheat 67% headed, 56% 1993, 80% avg. Barley 0% turned, 26% 1993, 39% avg. Rye 91% headed, 79% 1993, 94% avg. Corn grain 92% planted, 77% 1993, 86% avg. Soybeans 6% planted, 14% 1993, 11% avg. Sorghum 27% planted, 13% 1993, 15% avg. Sweet corn 73% planted, 76% 1993, 68% avg. Watermelons 54% planted, 62% 1993, 64% avg. Cantaloupes 42% planted, 59% 1993, 58% avg. Tomatoes 43% planted, 63% 1993, 55% avg. Other hay 41% first cut, 36% 1993, 36% avg. Alfalfa hay 31% first cut, 20% 1993, 30% avg. Strawberries 97% bloomed, 85% 1993, 97% avg.; 14% harvested, 6% 1993, 9% avg.

MICHIGAN: Extremes 30°; 90°. Precipitation none to 0.46 in.

Days suitable for fieldwork 6.5. Soil moisture 35% short, 65% adequate. Oats 98% planted, 85% 1993, 95% avg. Barley 90% planted, 90% 1993, 95% avg. Potatoes 65% planted, 65% 1993, 70% avg. Sugarbeets 100% planted, 96% 1993, 99% avg. Pasture feed 85% of normal. Activities: pruning, spraying fruit trees, spreading fertilizer, manure, tilling, planting, spraying field crops.

MINNESOTA: Temperatures 8 to 12° above normal. Extremes 35°; 92°. Precipitation 0.50 to 0.80 in. below normal for the State. Greatest weekly total 1.45 in.

Days suitable for fieldwork 6.1. Topsoil 2% very short, 18% short, 74% adequate, 6% surplus. Corn 99% land prepared, 73% 1993, 87% avg.; 96% planted, 63% 1993, 80% avg.; 57% emerged, 24% 1993, 42% avg. Soybeans 85% land prepared, 37% 1993, 66% avg.; 76% planted, 24% 1993, 47% avg.; 15% emerged, 5% 1993, 10% avg. Spring wheat 97% planted, 99% 1993, 96% avg.; 61% emerged, 84% 1993, 87% avg.; 3% jointing, 6% 1993, 5% avg. Oats 88% emerged, 76% 1993, 84% avg.; 11% jointing, 6% 1993, 6% avg. Barley 95% planted 97% 1993, 96% avg.; 61% emerged, 84% 1993, 82% avg.; 3% jointing, 3% 1993, 4% avg. Sugarbeets 99% planted, 99% 1993, 97% avg. Potatoes 75% planted, 79% 1993, 71% avg. Green peas 95% planted, 58% 1993, 74% avg. Sweet corn 81% planted, 30% 1993, 49% avg. Dry beans 54% planted, 38% 1993, 49% avg. Flax 54% planted, 70% 1993, 60% avg. Sunflowers 47% planted, 74% 1993, 58% avg.

MISSISSIPPI: Temperatures 1.7° below normal. Extremes 44°; 91°. Soil temperature 77°. Rainfall 0.19 in. average, 0.98 in. below normal. Cool temperatures dominated the evenings, while precipitation was minimal.

Days suitable for fieldwork 5.7. Soil moisture 27% short, 65% adequate, 8% surplus. Corn 98% planted, 80% 1993, 86% avg.; 97% emerged, 67% 1993, 79% avg.; 7% fair, 80% good, 13% excellent. Cotton 98% planted, 67% 1993, 74% avg.; 91% emerged, 42% 1993, 59% avg.; 5% poor, 43% fair, 46% good, 6% excellent. Rice 100% planted, 55% 1993, 73% avg.; 98% emerged, 35% 1993, 58% avg.; 27% fair, 49% good, 24% excellent. Sorghum 77% planted, 59% 1993, 66% avg.; 66% emerged, 44%

1993, 59% avg.; 38% fair, 46% good, 16% excellent. Soybeans 67% planted, 10% 1993, 17% avg.; 52% emerged, 6% 1993, 13% avg.; 13% fair, 65% good, 22% excellent. Wheat 100% heading, 97% 1993, 99% avg.; 32% mature, 18% 1993, 38% avg.; 2% poor, 23% fair, 71% good, 4% excellent. Hay 30% harvested, 21% 1993, 22% avg. Peanuts 90% planted, 34% 1993, 50% avg. Sweet potatoes 12% planted, 19% 1993, 31% avg.; 5% fair, 95% good. Watermelons 92% planted, 81% 1993, 86% avg.; 18% fair, 76% good, 6% excellent. Livestock 10% fair, 74% good, 16% excellent. Pasture 86% of normal. Activities: completing planting of crops, cultivation, weed control, insect control.

MISSOURI: Temperatures about normal, 2° below normal south-east to 3° above normal northeast. Virtually no rainfall across State.

Days suitable for fieldwork 5.7. Topsoil 7% short, 80% adequate, 13% surplus. Corn plantings vary 64% east-central to 100% southeast. Wheat headed 38% northeast to 100% southwest, southeast. Alfalfa hay cut 27%, 7% 1993, 22% avg. Other hay cut 13%, 4% 1993, 7% avg. Pastures feed 2% poor, 22% fair, 64% good, 12% excellent.

MONTANA: Temperatures slightly below normal west, central, slightly above average south, east. Precipitation all areas.

Days suitable for fieldwork 3.0. Topsoil 20% short, 73% adequate, 7% surplus. Subsoil 22% short, 74% adequate, 4% surplus. Barley 89% planted, 80% 1993, 84% avg.; 63% emerged, 35% 1993, 49% avg.; 1% poor, 15% fair, 58% good, 26% excellent. Oats 87% planted, 82% 1993, 82% avg.; 50% emerged, 41% 1993, 43% avg.; 1% poor, 21% fair, 63% good, 15% excellent. Sugarbeets 100% planted, 94% 1993, 98% avg.; 85% emerged, 63% 1993, N/A avg.; 2% poor, 19% fair, 68% good, 11% excellent. Corn 82% planted, 58% 1993, 54% avg.; 43% emerged, 12% 1993, N/A avg. Dry beans 68% planted, 62% 1993, 40% avg.; 24% emerged, 10% 1993, N/A avg. Potatoes 72% planted, 14% 1993, 29% avg.; 11% emerged, 2% 1993, N/A avg. Cattle, calves moved to summer pastures, 58%; sheep, lambs, 52%. Pasture, range feed 100% of normal.

NEBRASKA: Temperatures 6 to 13° above normal. Precipitation occurred in trace amounts across the State except in the northwest with up to 0.28 in.

Days suitable for fieldwork 6.2. Topsoil 67% short, 33% adequate. Subsoil 7% short, 91% adequate, 2% surplus. Wheat 5% poor, 41% fair, 51% good, 3% excellent; 20% headed, 6% 1993, 34% avg. Corn 100% planted, 70% 1993, 88% avg.; 69% emerged, 29% 1993, 57% avg. Soybeans 71% planted, 14% 1993, 37% avg.; 21% emerged, 1% 1993, 12% avg. Sorghum 50% planted, 9% 1993, 30% avg. Dry beans 2% planted. Alfalfa 2% poor, 34% fair, 57% good, 7% excellent; some early harvest of first cutting. Wild hay 1% poor, 50% fair, 47% good, 2% excellent. Pasture, range 94% of normal.

NEVADA: A low pressure system from the Gulf of Alaska brought moist, windy conditions to the north, central parts of the State. Precipitation in the north, central areas 0.33 to 0.50 in. Temperatures 4 to 6° below normal statewide. Extremes 21°; 104°.

Surface irrigation water supplies remain short. Field crops generally fair to good condition. First cutting alfalfa hay starting some central areas, second cutting underway extreme south. Livestock movement to summer ranges continues.

NEW ENGLAND: Precipitation none to 2.20 in. regionwide. Temperatures 50 to 56° north; 49 to 56° south. Maximum temperatures 65 to 86°; 51 to 82° south. Minimum temperatures 26 to 38° north; 33 to 45° south.

Maine potatoes 40% planted, 20% 1993, 45% avg.; fair to poor: too cold, wet. Oats 50% planted, 70% 1993, 70% avg.; fair. Field corn 35% planted, 45% 1993, 40% avg.; good. Sweet corn 50% planted, 45% 1993, 50% avg.; good. Apples at early to full bloom stage. Cranberries at bud stage. Peaches, pears at full bloom stage. Major farm activities: Plowing fields, planting field crops. Planting warmer season crops: Tomatoes, peppers, eggplants. Applying oil sprays to orchards. Harvesting rhubarb, asparagus. Spreading manure, fertilizer.

NEW JERSEY: Temperatures much below normal. Extremes 34°; 86°. Rainfall 0.62 in. north, 0.87 in. central, 0.56 in. south. Heaviest 24-hour total 0.82 in. on 16th, 17th. Estimated soil moisture, in percent field capacity, averaged 94% north, 94% central, 61% south. Four-inch soil temperatures 60° north, 61° central, 62° south.

Days suitable for fieldwork 3 to 4. Soil moisture adequate in most areas. Temperatures cool, slowed growth in parts of central area. Planting of spring vegetables, transplanting of tomatoes as weather permitted. Harvesting of greens, asparagus, strawberries. Apples in petal fall stage in parts of northern areas. Planting of field corn, soybeans active. Pasture conditions normal.

NEW MEXICO: Temperatures about 2° above normal, a few anomalies as great as plus 5 to 6° north. Extremes 21° Gallup on 21st; 93° Carlsbad, Las Cruces on 17th. As is typical for this time of year precipitation favored the eastern half. Heavy rainfall sent the Rio Hondo out of its banks. Greatest reported rainfall 2.62 in at Roy, 2.50 in. at Roswell, but the new Doppler radar indicated some totals of over 4.00 in. between Roswell, Ruidoso.

Days suitable for fieldwork 5.5. Soil moisture 50% short, 40% adequate, 10% surplus. Hail damage reported was light to moderate across the State, wind damage reported was light, both affecting chile, alfalfa, cotton, corn. Cropland conditions: Alfalfa 7% poor, 31% fair, 55% good, 7% excellent. Irrigated wheat 40% fair, 47% good, 13% excellent. Dryland wheat 75% poor, 25% fair. Wheat crop 68% headed. Chile 23% fair, 77% good. Onions fair to excellent, lettuce good to excellent. Corn, sorghum planting continued with corn reported at 84% planted, sorghum at 13%. Cattle, sheep poor to good with an average 88% in the fair to good range. Range feed condition 61% of normal.

NEW YORK: Temperatures well below normal. Highs only in 50s to low 60s. Warming trend began on 20th. Readings maxed out in upper 80s on 22nd. Precipitation about normal with 0.25 in. to 0.50 in. rainfall. Most fell 15th to 17th. Extremes 30°; 81°.

Days suitable for fieldwork 4.5. Soil moisture mostly adequate to surplus. Corn 33% planted, 55% 1993, 43% avg. Oats 71% seeded, 69% 1993, 78% avg. Pasture feed 91% of normal. Hay, wheat in mostly good condition. Some apple bud damage evident in Lake Ontario fruit region as a result of severe winter. Spraying difficult due to windy conditions. Pears show good bloom, 50% reached petal fall stage. Frost damage to sweet cherries. Cool windy conditions not conducive to good pollination for tart cherries. Apples range from starting to bloom in northern areas to full bloom in southern areas. Onion planting finished in Orange County. Some fields replanted due to wind damage. Snap bean planting underway. Cabbage planting continued. Sweet corn planting passed the half-way mark. Strawberries in bud, flower stage. Protection from frost needed in some areas.

NORTH CAROLINA: Temperatures 11° below normal to near normal. Rainfall 1.64 in. at Lake Toxaway to no precipitation at several locations.

Days suitable for fieldwork 6.2. Soil moisture 7% very short, 51% short, 42% adequate. Crop conditions: Wheat 21% fair, 75% good, 4% excellent; oats 30% fair, 66% good, 4% excellent; barley 27% fair, 70% good, 3% excellent; rye 18% fair, 80% good, 2% excellent; pasture 44% fair, 56% good; field tobacco 28% fair, 68% good, 4% excellent; corn 20% fair, 80% good; cotton 15% poor, 33% fair, 52% good; hay 49% fair, 49% good, 2% excellent; peaches 10% fair, 85% good, 5% excellent; truck crops 21% fair, 79% good; hay, roughage supplies 2% very short, 21% short, 77% adequate; Corn planted 98%, 97% 1993, 92% avg.; cotton planted 93%, 90% 1993, 80% avg.; peanuts planted 89%, 85% 1993, 70% avg.; sorghum planted 35%, 50% 1993, 42% avg.; soybeans planted 34%, 30% 1993, 27% avg.; flue-cured tobacco transplanted 95%, 90% 1993, 89% avg.; burley tobacco transplanted 15%, 9% 1993, 21% avg.; sweet potatoes 30%, 28% 1993, 29% avg.; Activities: Transplanting tobacco; planting corn, soybeans, cotton; cutting hay, preparing land for planting. Other activities included: Planting peanuts, truck crops; transplanting sweetpotatoes; tending livestock.

NORTH DAKOTA: Warm with numerous showers, thunderstorms. Precipitation 0.18 in. southeast to 2.24 in. north-central. Temperatures 5° above normal northwest to 12° above normal southeast. Extremes 29° west central; 95° west central, northwest.

Days suitable for fieldwork 5.2. Soil moisture above average. Topsoil 18% short, 71% adequate, 11% surplus. Subsoil 4% short, 86% adequate, 10% surplus. Small grain planting behind last year, average. Crop condition: Hard red spring wheat 1% poor, 14% fair, 70% good, 15% excellent; durum wheat 1%, 16%, 64%, 19%;

barley 1%, 11%, 70%, 18%; oats 1%, 15%, 68%, 16%; winter wheat 1%, 21%, 68%, 10%. Hard red spring wheat 88% planted, 57% emerged and beyond; 96%, 71% 1993; 94%, 72% avg.; durum wheat 78% planted, 36% emerged and beyond; 90%, 52% 1993; 87%, 53% avg.; barley 91% planted, 62% emerged and beyond; 97%, 73% 1993; 95%, 74% avg.; oats 87% planted, 57% emerged and beyond; 94%, 68% 1993; 92%, 68% avg. Winter wheat 77% stooiling or earlier, 23% jointing and beyond; 56%, 44% avg. Sugarbeets 99% planted, 99% 1993, 99% avg.; corn 67% planted, 70% 1993, 70% avg.; flax 45% planted, 62% 1993, 53% avg.; potatoes 73% planted, 76% 1993, 65% avg.; soybeans 61% planted, 70% 1993, 55% avg.; dry beans 38% planted, 38% 1993, 35% avg.; sunflower 40% planted, 29% 1993, 27% avg. Spraying of broadleaf weeds 4% complete, wild oats 9%. Roughage requirements furnished by pastures 84%; pastures 95% of normal. Stockwater supplies 1% short, 87% adequate, 12% surplus.

OHIO: Cool dry week for State before turning summer-like over the weekend. High pressure was the prevailing weather system. Temperatures 1 to 7° cooler than normal. Highs were in the mid 60s to low 70s. Lows were in the 40s. A few clear cool nights dropped temperatures in the 30s with scattered light frost in some northern, northeastern locales. Strong sunshine boosted highs into the 80s 22nd. Precipitation was scant with most areas staying dry. What rain did fall was 0.25 in. or less. Weather gave southern areas an extended chance to dry out. Four-inch bare soil temperatures averaged in the mid 60s to low 70s for maximums, mid 50s for minimums in most areas. Soils in northeast areas were cooler.

Days suitable for fieldwork 5.5. Soil moisture 19% short, 71% adequate, 10% surplus. Most crops are ahead of their five year planting date averages. Winter wheat mostly good to excellent. Corn planted 94%, 84% 1993, 75% avg.; emerged 58%. Soybeans planted 76%, 55% 1993, 46% avg.; emerged 22%. Pasture 4% poor, 28% fair, 56% good, 12% very good. Hay condition mostly good.

OKLAHOMA: Temperatures 3° below normal southeast to 6° above normal Panhandle. Precipitation none most of State, traces in south-central, southeast districts.

Days suitable for fieldwork 6.0. Topsoil 17% short, 77% adequate, 6% surplus. Subsoil 14% short, 86% adequate. Oats 75% headed, 51% 1993, 80% avg.; 21% soft dough, 7% 1993, 35% avg. Barley 69% headed, 62% 1993, 73% avg.; 10% soft dough, 14% 1993, 28% avg. Corn 14% fair, 86% good; 100% planted, 98% 1993, 94% avg.; 97% up to stand, 85% 1993, 85% avg. Soybeans 88% seedbed prepared, 51% 1993, 82% avg.; 46% planted, 20% 1993, 30% avg.; 22% up to stand, 12% 1993, 10% avg. Peanuts 87% seedbed prepared, 81% 1993, 86% avg.; 40% planted, 19% 1993, 33% avg.; 11% up to stand, 3% 1993, 8% avg. Pasture 95% normal. Feeders steady to \$1.00 lower steers, \$1.00 higher for heifers, calves steady.

OREGON: Temperatures Willamette Valley, coast 1° above normal, southwestern valleys up to 14° below normal, elsewhere 3 to 9° below normal. Precipitation: significant rainfall statewide, heaviest north-central sections 1.40 in.

Soil moisture 31% short, 68% adequate, 1% surplus. Winter wheat 2% very poor, 10% poor, 35% fair, 42% good, 11% excellent; 60% headed. Barley 81% planted. Eastern areas sugarbeet planting complete, precipitation saved grain crops for the present. Western areas: Grass seed crops heading month ahead of schedule, much hay damaged by recent rains. High winds damaged sugarbeet, onion crops; Malheur County. Potato planting complete, Klamath Basin. Columbia Basin of Oregon: Potatoes emerged, watermelon planting underway. Willamette Valley: Vegetable planting continued, early strawberry harvest underway, Marionberries full bloom, other canberries good set, apple thinning underway, Italian plum crop heavy. Medford district codling moth sprays continued on pears. Milton-Freewater district maintained normal spray schedule on fruit crops. Stevens cranberries early bloom, southern coast. Livestock good to excellent. Range, pasture 87% of normal. Eastern ranges remained dry but aided by weeks rains, western pastures near normal. Cattle turn out on early public lands continued. Stockwater shortage emerged, southeastern areas. Cattle movement from California into Klamath Basin continued.

PENNSYLVANIA: Slightly above normal temperatures. Most of the precipitation fell early in week. Temperature 58°, 1° above normal. Extremes 29°; 83°. Precipitation 0.46 in., 0.36 in. below normal.

Days suitable for fieldwork 4. Soil moisture 2% short, 77% adequate, 21% surplus. Plowing 83% complete, 80% 1993, 85% avg. Corn 55% planted, 59% 1993, 53% avg. Soybeans 34% planted, 26% 1993, 20% avg. Oats 93% planted, 87% 1993, 91% avg. Potatoes 68% planted, 69% 1993, 69% avg. Barley 70% boot, 69% 1993, 73% avg.; 50% heading or headed, 53% 1993, 53% avg. Wheat 50% boot, 53% 1993, 59% avg.; 10% heading or headed, 12% 1993, 20% avg. Wheat 3% very poor, 4% poor, 28% fair, 45% good, 20% excellent. Oats 3% very poor, 3% poor, 27% fair, 49% good, 18% excellent. Hay stands mostly fair to good. Alfalfa first cutting 5% complete, 5% 1993, 9% avg. Feed from pastures good to excellent. Cherries 100% pink, 100% 1993, 96% avg.; 90% full bloom or past, 98% 1993, 91% avg. Apples 98% pink, 96% 1993, 93% avg.; 91% full bloom or past, 90% 1993, 83% avg. Activities: Plowing; planting oats, corn, soybeans; preparing hay equipment; hauling manure; caring for livestock.

PUERTO RICO: Average rainfall of 1.19 in. was 0.34 in. below normal. Highest total rainfall 6.41 in. at San Sebastian 2NW, 5.67 in. at Coloso, 3.92 in. at Arecibo Ionos. Obs. Island temperatures 80 to 81° on the coasts, 74 to 75° interior with mean station temperatures 62.9 to 83.1°. Extremes 57°; 95°.

SOUTH CAROLINA: Temperatures 4 to 6° below normal for the week. Average rainfall 0.20 in.

Days suitable for fieldwork 6.5. Soil moisture 28% very short, 65% short, 7% adequate. Tobacco fair to good; corn fair to good. Cotton fair to good; 95% planted, 91% 1993, 82% avg. Cantaloupes fair to good; 94% planted, 89% 1993, 86% avg. Watermelons fair to good; 96% planted, 90% 1993, 90% avg. Cucumbers fair to good; 95% planted, 88% 1993, 89% avg. Snapbeans fair to good; 86% planted, 79% 1993, 77% avg. Tomatoes good. Oats fair to good; 84% turning color, 57% 1993, 69% avg.; 11% harvested, 0% 1993, 4% avg. Rye fair to good; 78% turning color, 59% 1993, 68% avg.; 5% harvested, 0% 1993, 4% avg. Wheat fair to good; 88% turning color, 43% 1993, 67% avg.; 2% harvested, 0% 1993, 4% avg. Peanuts fair to good; 91% planted, 83% 1993, 81% avg. Sorghum 24% planted, 37% 1993, 29% avg. Pastures fair to good.

SOUTH DAKOTA: Temperatures 8 to 17° above normal. Extremes 31°; 91°. Slow-moving front late in week brought widespread rain to central, western areas. Heaviest 1.66 in.

Days suitable for fieldwork 5.8. Topsoil 2% very short, 33% short, 56% adequate, 9% surplus. Subsoil 1% very short, 11% short, 62% adequate, 26% surplus. Winter wheat 31% boot, 27% 1993, 41% avg.; 2% headed, none 1993, 4% avg. Winter rye 15% fair, 83% good, 2% excellent; 38% boot, 34% 1993, 41% avg.; 7% headed, 1% 1993, 9% avg. Barley 2% very poor, 23% fair, 64% good, 11% excellent; 97% planted, 93% 1993, 99% avg.; 88% emerged, 79% 1993, 91% avg. Oats 98% planted, 91% 1993, 98% avg.; 89% emerged, 80% 1993, 91% avg. Flax 41% planted, 53% 1993, 67% avg.; 28% emerged, 52% 1993, 47% avg. Sunflower 21% planted, 13% 1993, 14% avg. Livestock 6% fair, 79% good, 15% excellent. Calving 92% complete, lambing 93%. Feed supply 1% very short, 90% adequate, 9% surplus. Pastures 92% of normal, 73% cattle moved to pastures. Water supply 75% adequate, 25% surplus. Cattle being vaccinated, branded. Herbicides applied.

TENNESSEE: Temperatures below normal with the exception of the west where they were normal. Mercury dropped to 40° at Bristol on 20th for the coolest reading. Warmest reading was at Memphis where it was 86° on 22nd. There was no rainfall.

Days suitable for fieldwork 5.2. Soil moisture 8% short, 89% adequate, 3% surplus. Corn 88% planted, 90% 1993, 82% avg.; 4% poor, 24% fair, 72% good. Cotton 91% planted, 77% 1993, 72% avg.; 5% poor, 15% fair, 80% good. Sorghum 30% planted, 33% 1993, 43% avg. Soybeans 13% planted, 11% 1993, 14% avg. Tobacco 41% transplanted, 33% 1993, 39% avg. Wheat 22% turning color, 9% 1993, 27% avg.; 28% fair, 65% good, 7% excellent. Alfalfa 66% first cut., 49% 1993, 53% avg.; 2% poor, 22% fair, 72% good, 4% excellent. Other hay, 2% poor, 20% fair, 72% good, 6% excellent. Pastures, 1% poor, 13% fair, 81% good, 5% excellent. Cattle, 11% fair, 85% good, 4% excellent.

TEXAS: Large ridge of high pressure maintained fair, cool and dry conditions across most of Texas last week. Eight of ten climate

areas reported below-normal mean temperatures. High Plains +3°, Trans Pecos +1° were the areas reporting above normal temperatures. Other departures -1 to -3°. Similar to temperature, precipitation was below normal, except for Trans Pecos, which reported a departure of +0.10 in. Remaining areas departures were between -0.23 to -0.93 in. Low Rolling Plains, Lower Rio Grande Valley recorded no significant rain. Some of higher totals were 2.38 in. at Hereford, 1.69 in. at Beaumont-Port Arthur, 0.90 in. at Granger. Mean soil temperature upper 70s to low 80s. Mean soil temperature 70° at Bushland to 83° at Beeville. Highest daily soil maximum temperature was 97° at Beeville; lowest daily minimum soil temperature was 58° at Bushland.

Crops: Corn growth, progress was good over most of State last week. In East Texas, herbicides for grass control were being applied, while cultivation occurred in northern areas of Blacklands. Fields in South Central Texas were still recovering from wind damage, making good progress. Corn 81% normal, 82% 1993; 1% silked, 0% 1993. Cotton planting activities increased in Plains last week, while fields in Blacklands were being evaluated for damage from last week's heavy rains. Cotton in South Central Texas made slow progress as hotter temperatures were needed. Hot days, warm nights in Rio Grande Valley, South Texas allowed cultivation, improved plant growth, as most fields were squaring, some began to set bolls. Cotton 84% normal, 69% 1993; 9% squaring, 8% 1993. Peanuts planting continued in Plains where field conditions allowed, some areas of Cross Timbers were delayed another week as producers waited for fields to dry out. Other fields in Cross Timbers were replanted due to wash out from the recent rains, while fields planted earlier in High Plains were beginning to emerge, 16% planted, 21% 1993. Rice existing stands continued to improve, flooding of fields continued in Upper Coast. Statewide condition 98% normal, 83% 1993. Sorghum producers in Plains responded to open weather, increased planting activity. Planted fields in Blacklands, Central Texas responded favorably to warmer weather, made excellent progress. Fields continued to head in Coastal Bend, Rio Grande Valley. Replanting began in some areas of Plains where rainfall was heavy. Sorghum 86% normal, 78% 1993. Soybeans planting increased in Upper Coast, while rain showers in East Texas early in week caused delays to planting, 35% planted, 58% 1993. Small grains wheat harvest increased from South Texas to Blacklands under warmer conditions last week. Humid conditions in Edwards Plateau area caused some harvest delays. Mild, warm days in Low Plains allowed a few fields to be harvested. Wheat 50% normal, 74% 1993; 1% harvested, 2% 1993. Oats 11% harvested, 7% 1993. Sunflowers 28% planted, 43% 1993.

Commercial Vegetables: Rio Grande Valley cantaloupe, honeydew, watermelon harvest continued. Rust mite control spraying underway on citrus. San Antonio Winter Gardens cabbage, onion harvest continued. Watermelons setting good crop. Trans Pecos irrigating of cantaloupe continued. Onion harvest active. Weed control activities ongoing. East Texas squash, beans, potatoes were being harvested. Watermelons making good progress. Several cases of disease problems due to warm, humid conditions reported. High Plains onions made good progress. Peaches Edwards Plateau were sizing well, with damage still being assessed following last week's heavy rains, some hail. Harvest of early peach varieties continued in East Texas, Upper Coast, Edwards Plateau. Pecans Casebearer spraying occurred in Blacklands, Low Plains, Edwards Plateau, with monitoring for casebearer occurring in Cross Timbers. Producers in Valley applied zinc, irrigated as needed.

Range and Livestock: Pastures were greening, continued to improve, except for Trans Pecos. Pasture conditions in Trans Pecos poor, with green grasses emerging slowly. Hay cutting, baling activities active in most areas, where conditions allowed. Livestock condition also improved.

UTAH: Temperature maximums 1° above normal, minimums 2° above normal. Precipitation was light across the entire State except for Uinta division which received little to no precipitation.

Days suitable for fieldwork 6.7. Soil moisture 59% short, 41% adequate. Spring wheat jointed 37%, 30% 1993, 49% avg. Barley jointed 37%, 32% 1993, 47% avg. Oats planted 92%, 85% 1993; emerged 73%, 64% 1993. Winter wheat jointed 70%, 81% 1993. Corn: planted 87%, 81% 1993; emerged 54%, 28% 1993, 43% avg. Alfalfa hay height 15.5 inches, 14.7 in. 1993. Alfalfa hay 1st cutting 6% completed. Potatoes planted 74%. Dry beans planted 3%. Cattle moved to summer range 42%, 55% 1993, 44% avg. Sheep moved to summer range 27%, 48% 1993, 48% avg. Pasture, range conditions

good to excellent. Major farm activities were planting corn, potatoes, harvesting alfalfa, cultivating, spraying spring grains, apples, irrigating, moving cattle, sheep. High winds have hampered some planting and dried out soils.

VIRGINIA: Temperatures below normal. Extremes 33°; 88°. Precipitation averaged near normal.

Days suitable for fieldwork 5.8. Topsoil 32% short, 68% adequate. Barley 31% fair, 69% good. Wheat 3% poor, 52% fair, 43% good, 2% excellent. Pasture 8% poor, 35% fair, 55% good, 2% excellent. Alfalfa hay 6% poor, 16% fair, 71% good, 7% excellent. Other hay 3% very poor, 3% poor, 52% fair, 39% good, 3% excellent. Peaches 40% very poor, 8% poor, 15% fair, 37% good. Apple 2% fair, 27% good, 71% excellent. Flue tobacco 35% poor, 54% fair, 11% good. Fire tobacco 27% poor, 58% fair, 15% good. Potato mostly all good. Corn 84% planted, 83% 1993, 82% avg. Corn 3% poor, 72% fair, 25% good. Peanuts planted 96%, 90% 1993, 96% avg. Soybeans planted 22%, 22% 1993, 25% avg. Cotton planted 100%, 97% 1993, 97% avg. Flue tobacco transplanted 77%, 66% 1993, 82% avg. Fire tobacco transplanted 40%, 46% 1993, 58% avg. Burley tobacco transplanted 14%, 14% 1993, 24% avg. Sun tobacco transplanted 29%, 40% 1993, 73% avg. Picking strawberries; some spraying for alfalfa weevils, armyworms; harvesting hay; scouting, spraying for cereal leaf beetles.

WASHINGTON: Temperatures normal to 5° above normal west; 3° below normal to 3° above normal east. Precipitation 0.07 to 1.02 in. west; 0.12 to 2.21 in. east.

Days suitable for fieldwork 4.7. Soil moisture 38% short, 62% adequate. Hay, other roughage supplies 12% short, 86% adequate, 2% surplus. Range, pasture 10% very poor, 15% poor, 30% fair, 44% good, 1% excellent. Winter wheat dryland 10% poor, 39% fair, 46% good, 5% excellent; irrigated 91% good, 9% excellent. Spring wheat dryland 10% poor, 44% fair, 46% good; irrigated 3% fair, 91% good, 6% excellent. Barley dryland 19% poor, 36% fair, 44% good, 1% excellent; irrigated 99% good, 1% excellent. Winter wheat 39% headed, 5% 1993, 18% avg. Spring wheat 99% emerged, 88% 1993, 96% avg.; 4% headed, 0% 1993, 8% avg. Barley 99% emerged, 74% 1993, 93% avg.; 9% headed, 0% 1993, 6% avg. Potatoes 74% emerged, 72% 1993, 75% avg. Dry beans 53% planted, 0% 1993, 40% avg. Corn 87% planted, 92% 1993, 81% avg. Alfalfa, first cutting, 20% completed, 17% 1993, 26% avg.

WEST VIRGINIA: Temperature 55°. Extremes 33°; 86°. Precipitation 0.01 in.

Days suitable for fieldwork 4.6. Soil moisture 95% adequate, 5% surplus. Barley good; headed 95%, 98% 1993. Wheat good; jointed

jointed 90%; headed 74%. Hay 3% poor, 47% fair, 50% good. Apples 50% poor, 50% fair. Peaches 100% very poor. Soil prepared 83%, 80% 1993. Corn planted 67%, 56% 1993, 58% avg.; emerged 44%, 18% 1993, 31% avg. Oats planted 93%, 92% 1993, 88% avg.; emerged 63%, 84% 1993, 73% avg. Tobacco 18% fair, 82% good. Gardens planted 63%, 65% 1993, 54% avg.; emerged 48%, 40% 1993, 37% avg. Soybeans planted 15%, 20% 1993; emerged 0%, 10% 1993. Pasture feed 25% fair, 75% good; 93% of normal. Cattle 12% fair, 88% good. Sheep 35% fair, 65% good. Farm activities: fertilizing, plowing, planting, mending fences.

WISCONSIN: Temperature 62°, 4° above normal. Extremes 28°; 94°. Precipitation none to 0.10 in.

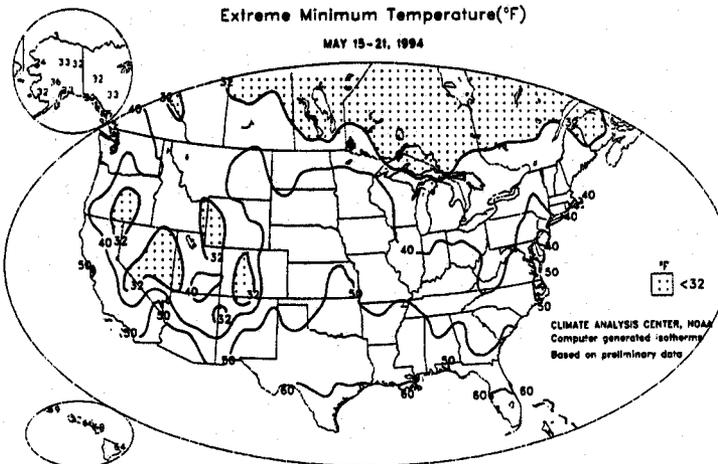
Days suitable for fieldwork 6.8. Soil moisture 37% short, 63% adequate. Pasture 77%, 86% 1993, 80% avg. General condition of crops: 10% fair, 80% good, 10% excellent. Corn planted 94%, 52% 1993, 71% avg.; 16% fair, 75% good, 9% excellent. Oats condition 14% fair, 73% good, 13% excellent. Soybeans planted 70%, 20% 1993, 36% avg. Winter wheat 4% fair, 59% good, 37% excellent. First cutting hay harvested: 1%, 0% 1993, 0% avg. Planting was starting to wind down in the south, farmers in the north were still planting. Rain would be beneficial to germinate crops that were just planted. Corn planted for this time of year is at highest level during the last 30 years. Harvesting of first crop hay has just started. Dandelions were a problem in some hayfields. Fruit trees in the north were in bloom. Sweet corn, snap beans being planted, while early-planted green peas looked good. In far north, potato planting was underway.

WYOMING: Temperatures were generally above normal, 1° below normal in Jackson to 11° above normal in Douglas. Precipitation was below normal, except in the northwest, isolated areas in the east where precipitation was normal to above normal. Chugwater received the most precipitation with 1.53 in., Alva with 0.83 in.

Days suitable for fieldwork 6.3. Topsoil 43% short, 57% adequate. Subsoil 31% short, 69% adequate. Spring wheat 98% planted, 88% 1993, 92% avg.; 82% emerged, 47% 1993, 66% avg.; 3% jointed. Oats 94% planted, 89% 1993, 89% avg.; 73% emerged, 50% 1993, 54% avg.; 7% jointed. Barley 98% planted, 89% 1993, 93% avg.; 89% emerged, 72% 1993, 79% avg.; 1% jointed. Sugarbeets 89% emerged, 71% 1993, 65% avg. Corn 91% planted, 73% 1993, 72% avg.; 55% emerged, 29% 1993, 27% avg. Winter wheat 16% emerged/not jointed, 63% jointed/not in boot, 21% boot. Winter wheat insect, disease infestation 70% none to light, 30% moderate. Irrigation water supplies 38% short, 57% adequate, 5% surplus. Livestock mostly good to excellent. Range flock ewes lambed 67%, 77% 1993. Percent cattle, calves moved to summer ranges 48%, 40% 1993. Percent sheep, lambs moved to summer ranges 40%, 29% 1993.

(Continued from front cover)

late in the week. In California's central valley, weekly rainfall included 0.55 inches at Fresno and 0.20 inches in Bakersfield. More than 1 foot of snow fell at midweek in the central Sierra Nevada at Bodie State Historical Park, near Bridgeport, CA. In Nevada, Ely and Austin noted a trace of snow on Tuesday. Rain moistened topsoils across the Northwest, where weekly totals included 2.08 inches in Pendleton, OR and 1.25 inches in Spokane, WA. Farther east, more than 1 inch fell in western and northeastern Montana at locations such as Great Falls (1.49 inches) and Glasgow (1.27 inches). Late in the week, thunderstorms developed in the central and southern High Plains as well as the North-Central States. Williston, ND measured 2.39 inches of rain, and Roswell, NM collected 2.40 inches. Underneath the ridge, however, windy, warm, and dry weather persisted and edged eastward. On Tuesday, Minot, ND recorded 95°F. But by Thursday, Minot's high was only 56°F, while Fargo, ND attained 90°F. Fargo's high was considerably above those reported on May 19 in Phoenix, AZ (84°F) and Miami, FL (82°F). Daily record heat crept as far east as Marquette, MI (90°F) by Saturday. But cool weather remained entrenched along the east coast, and clearing skies inland permitted several daily records to be tied or set on May 21 from New England to Florida. The mercury reached 42°F in Augusta, GA. Along the Middle Atlantic coastline, high winds and heavy surf persisted through week's end.



International Weather and Crop Summary

HIGHLIGHTS

May 15 - 21, 1994

FSU-WESTERN: Spring and summer crop planting was virtually complete in Ukraine, while planting was progressing slowly in Russia.

FSU-NEW LANDS: Several days of dry weather in Kazakhstan favored spring grain planting.

EUROPE: Rain promoted crop development across the north.

CANADA: Much-needed rain across the Prairies boosted topsoil moisture for spring crop establishment.

AUSTRALIA: Rain increased topsoil moisture for wheat planting across southern and western wheat areas.

SOUTH ASIA: Rain increased moisture reserves for eastern main-season rice.

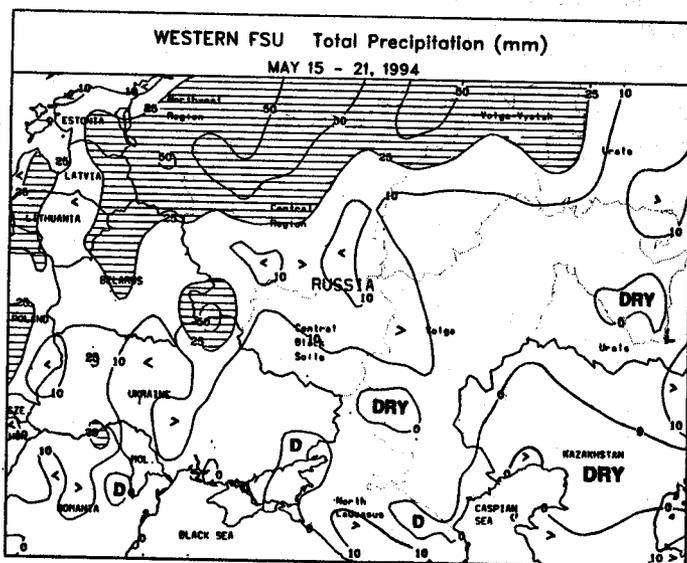
SOUTHEAST ASIA: Heavy showers continued over Indochina, promoting establishment and early growth of main-season grains.

EASTERN ASIA: Warm, dry weather prevailed across the North China Plain, stressing wheat in isolated areas.

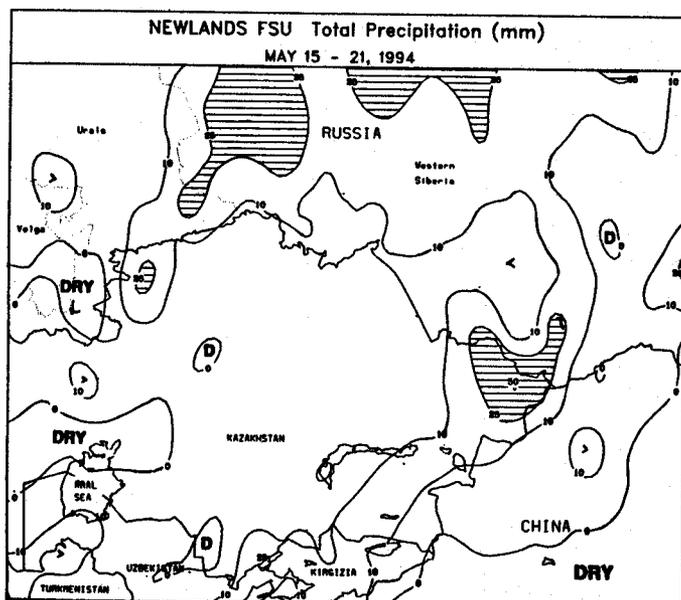
SOUTH AMERICA: Mostly dry weather favored summer crop harvesting and winter grains planting across the region.

MEXICO: Showers benefited crops across eastern and southern Mexico.

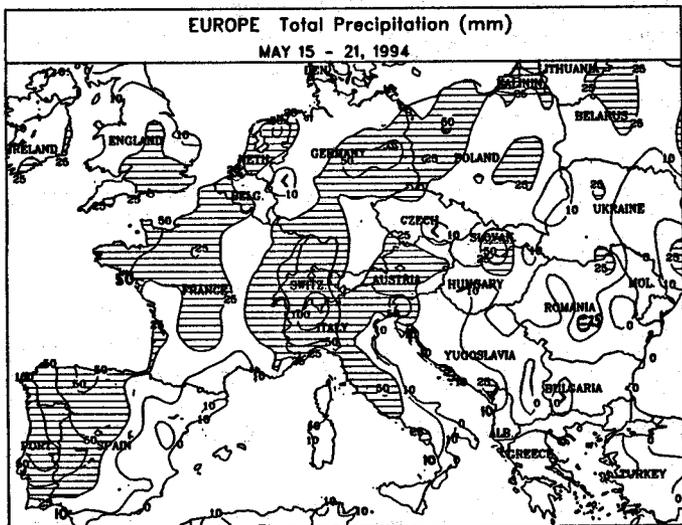
CUBA: Widespread moderate to heavy showers (25-100 mm) significantly delayed sugarcane harvesting.



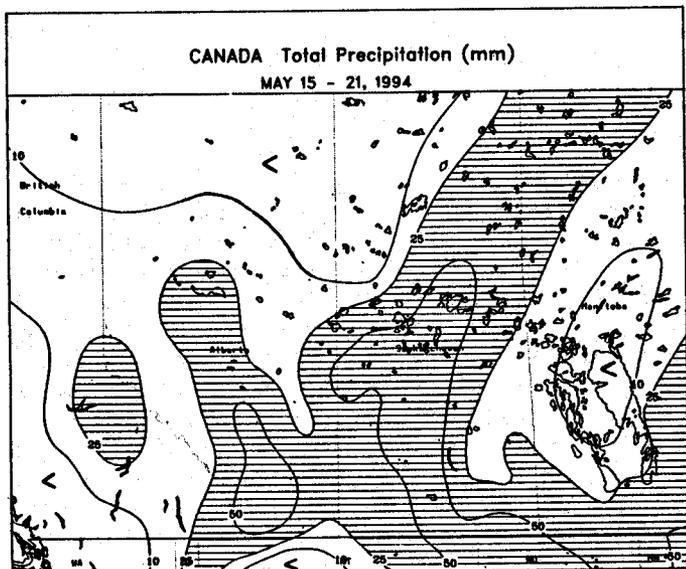
FSU-WESTERN: Unseasonably warm, dry weather covered most of Ukraine and southern Russia (North Caucasus, lower Volga Valley, and Central Black Soils Region), favoring rapid planting progress. In Ukraine, planting of spring grains, sunflowers, and sugar beets was virtually complete, while corn planting accelerated toward completion. In Russia, reports as of May 16 indicated spring and summer crop planting was progressing slowly, behind last year's pace. Frequent rain (10-66 mm) in northern Russia (Northwest Region, Central Region, and Volga Vyatsk) continued to slow spring grain planting. In the Baltic States and Belarus, light to moderate rain (10-25 mm, with local amounts in excess of 25 mm) interrupted summer crop planting. Winter wheat was entering the heading stage in southern Ukraine and North Caucasus, Russia. Unseasonably warm weather and persistent dryness over southwestern Ukraine (about 25 percent of Ukraine's winter wheat crop is traditionally grown in this area) caused crop conditions to deteriorate.



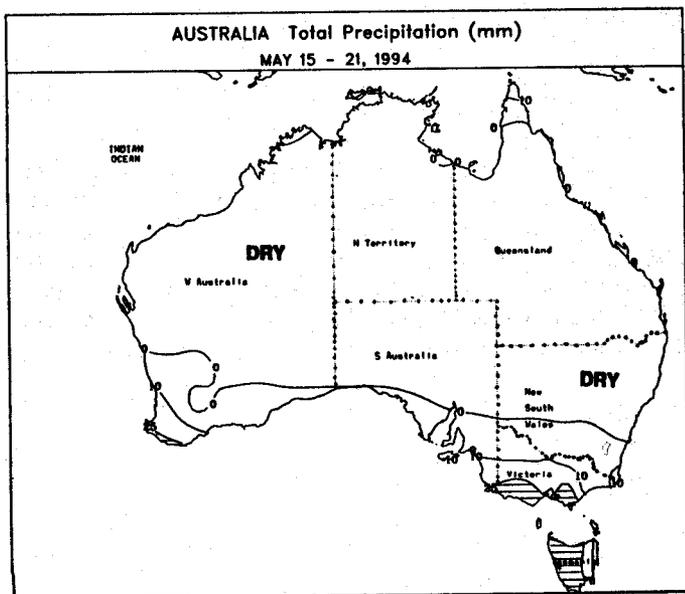
FSU-NEW LANDS: Spring grain planting was underway in Russia and Kazakhstan. Several days of dry weather over Kazakhstan favored rapid planting. Light to moderate rain (10-33 mm) over Western Siberia, Russia slowed planting. Topsoil moisture over Russia and Kazakhstan was adequate for spring grain emergence and early plant establishment. In cotton growing areas of Central Asia, light showers (3-17 mm) caused only brief delays in cotton planting.



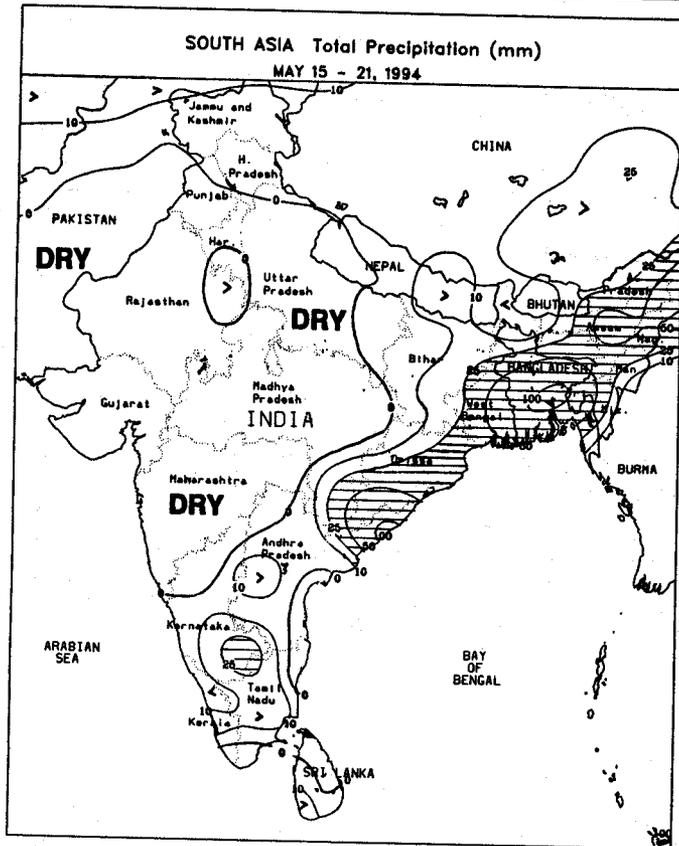
EUROPE: Significant rain (25-65 mm) benefited reproductive winter grains and emerging spring crops over a broad area of Europe, from the western Iberian Peninsula to northern Poland. The moisture was especially welcomed in eastern Germany and northwestern Poland, where topsoils had been drying in recent weeks. Timely showers (15-40 mm) also replenished topsoil moisture for corn growth and winter grain development in France and southern England. Heavy rain (100-155 mm) soaked northern Portugal and the Alpine region. In contrast, only light rain (7 mm or less) fell in parched eastern Spain and most of the Balkans. Unfavorable dryness persisted in corn areas of southeastern Romania. Scattered frost, with isolated sub-freezing minimum temperatures, burned early spring growth in northern England. Weekly temperatures averaged 2-4 degrees C below normal in Great Britain and Spain, and 3-6 degrees C above normal from southern Poland to Bulgaria. In Scandinavia, variable showers (5-20 mm) helped spring growth in southern crop areas of Sweden and Finland, but mostly dry weather prevailed over central Sweden.



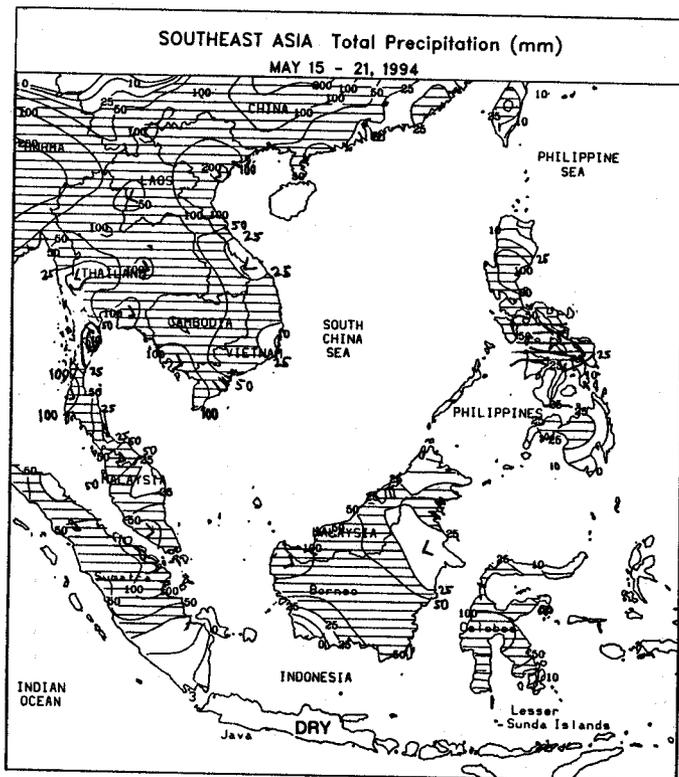
CANADA: Timely, soaking rains fell throughout the Prairies, increasing topsoil moisture for planting and establishment. Amounts generally ranged from 15 to 75 mm, with heaviest rain spanning southern crop areas where planting was underway. Temperatures averaged 1-3 degrees C above normal in the east and 1-3 degrees C below normal in the west. Frost-free weather in southern Alberta and Saskatchewan favored early crop growth. In Ontario, cool weather, accompanied by light rain (15 mm or less), slowed winter wheat growth.



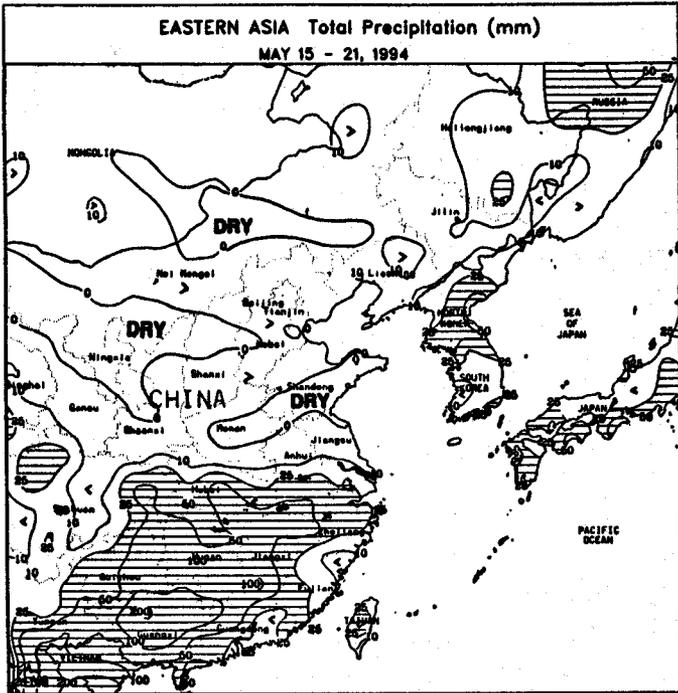
AUSTRALIA: Light to moderate rain (1-20 mm) fell across portions of the western and southern wheat areas, increasing topsoil moisture for planting. However, more rain is still needed to ensure good germination moisture. So far this season, only Victoria has received adequate rainfall for planting. Across central and northern New South Wales and southern Queensland, dry weather continued, delaying wheat planting but favoring summer crop harvesting. Dry weather prevailed across the sugarcane region of northeastern Queensland. Temperatures averaged 1-3 degrees C above normal across the west and 1-3 degrees C below normal across the east.



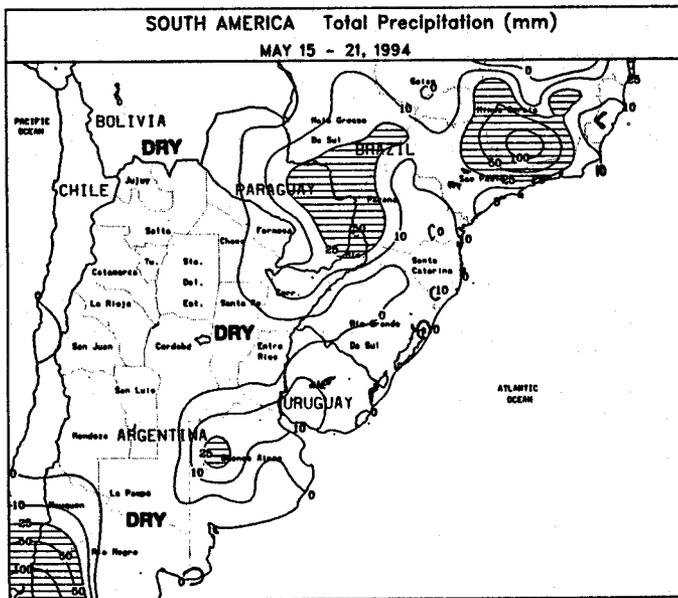
SOUTH ASIA: Moderate to heavy rain (25-50 mm or more) fell throughout major rice areas of eastern India and Bangladesh, increasing moisture for early development of main-season crops. Mostly dry, warm weather elsewhere reduced topsoil moisture for summer crop planting, due to begin soon in southern India as the monsoon becomes established. Temperatures in the mid 40's C stressed livestock in central India.



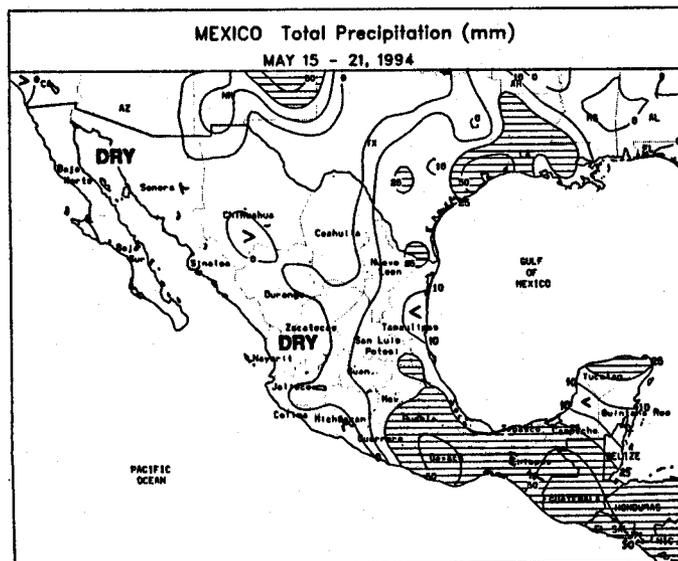
SOUTHEAST ASIA: Heavy showers (50-100 mm or more) covered primary rice areas throughout Indochina, improving main-season planting prospects. Inundating rain (more than 150 mm) likely caused some flooding along Vietnam's Red River. Rainfall was variable over corn areas of central Thailand, ranging from 17 to 144 mm. Planting was likely underway and germinating corn benefited from the additional moisture and seasonable temperatures. Further south, moderate to heavy rain fell throughout rice and palm oil areas of peninsular Thailand and Malaysia. Java was dry, favoring harvests. Showers (25-50 mm or more) were scattered throughout the Philippines, benefiting local rice and corn.



EASTERN ASIA: Mostly dry weather dominated the North China Plain, as early-week hot weather stressed filling winter wheat and dried out topsoils for summer crops. Early-week maximum temperatures ranged from 30 to 35 degrees C, with isolated stations reporting 38 degrees C in southern Hebei. Cooler weather later in the week kept weekly average temperatures only 1-2 degrees C above normal. The majority of the winter wheat is irrigated, which should lessen the impact of the hot weather on the wheat crop. However, rain is needed to replenish soil moisture for summer crops. Light rain (2-14 mm) fell across Manchuria, increasing topsoil moisture, but additional rain is still needed in western Heilongjiang. Moderate to heavy showers (25-100 mm) covered the Yangtze Valley and southern China, boosting rice irrigation supplies. Heavier showers (100-200 mm, with an isolated amount greater than 250 mm) fell across Guangxi, causing some flooding. Temperatures averaged 1-3 degrees C above normal across eastern China and 1-3 degrees C below normal in Manchuria. In Japan, moderate showers (15-40 mm) covered the country, increasing moisture for rice paddies.



SOUTH AMERICA: In Argentina, light to moderate showers (10-40 mm) fell across northern Buenos Aires, slowing summer crop harvesting but increasing topsoil moisture for wheat planting. Dry weather prevailed elsewhere throughout the main crop areas, allowing summer crop harvesting and winter grain planting to progress. In southern Brazil, dry weather favored late corn and soybean harvesting across Rio Grande do Sul. Scattered light to moderate rain (5-30 mm) fell across Parana, Mato Grosso do Sul, and Mato Grosso, increasing topsoil moisture for wheat planting. Isolated heavy showers (40-150 mm) possibly caused some flooding in western and southeastern Minas Gerais. Light to moderate rain (10-30 mm) slowed summer crop harvesting in southern Paraguay. Temperatures averaged 2-5 degrees C above normal in central Argentina and 1-3 degrees C above normal in southern Brazil.



MEXICO: Seasonal showers (10-45 mm) covered eastern Mexico, boosting topsoil for summer crop planting. However, less than 10 mm of rain fell in the central and western corn belt, where moisture is limited for planting. Dry weather prevailed across northwest and north-central Mexico. Temperatures averaged 1-2 degrees C below normal across northeast and east-central Mexico, and 1-3 degrees C above normal elsewhere.

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U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor Douglas Le Comte (202) 720-7919
Editor Brad Rippey (202) 720-1444
Meteorologists David Secora, Jeff Savadel, and Brian Morris
Subscriptions Joyce Houston (202) 720-7917

U.S. DEPARTMENT OF AGRICULTURE

Economics Management Staff
E.M.S. Editor Sharon Lee
National Agricultural Statistics Service
Agricultural Statistician . . . Greg Preston (202) 720-7621
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World Agricultural Outlook Board
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Crop Condition

for the Week Ending May 22, 1994

COTTON						WINTER WHEAT						RICE					
STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX
AL	8	10	49	33	0	AR	0	3	26	61	10	AR	0	0	31	69	0
AZ	0	0	0	90	10	CA	0	0	10	75	15	CA	0	0	20	80	0
AR	0	0	62	38	0	CO	2	10	25	54	9	LA	0	3	22	75	0
CA	0	0	25	75	0	GA	0	1	18	70	11	MS	0	0	27	49	24
GA	0	6	16	76	2	ID	0	1	22	60	17	TX	0	0	0	62	38
LA	0	4	43	53	0	IL	1	3	39	56	1	5 STATE	0	0	24	67	9
MS	0	5	43	46	6	IN	0	0	27	66	7	PREV WEEK	N/A	N/A	N/A	N/A	N/A
MO	0	0	36	64	0	KS	0	1	50	47	2	PREV YEAR	N/A	N/A	N/A	N/A	N/A
NM	0	0	25	75	0	MI	0	5	20	55	20	SPRING WHEAT					
NC	0	15	33	52	0	MO	1	4	63	30	2	STATE	VP	P	F	G	EX
OK	0	0	9	91	0	MT	4	5	19	51	21	ID	1	1	20	67	11
SC	0	25	60	15	0	NE	0	5	41	51	3	MN	2	0	23	65	10
TN	0	5	15	80	0	NC	0	0	21	75	4	MT	0	0	13	64	23
TX	1	5	13	69	12	OH	0	4	22	56	18	ND	0	1	14	70	15
14 STATE	1	5	26	62	6	OK	0	6	58	36	0	SD	0	3	22	61	14
PREV WEEK	N/A	N/A	N/A	N/A	N/A	OR	2	10	35	42	11	5 STATE	0	1	16	68	15
PREV YEAR	N/A	N/A	N/A	N/A	N/A	SD	0	7	24	59	10	PREV WEEK	N/A	N/A	N/A	N/A	N/A
						TX	8	30	47	14	1	PREV YEAR	0	1	21	70	8
						WA	0	9	35	51	5						
						19 STATE	1	8	42	44	5						
						PREV WEEK	1	7	40	45	7						
						PREV YEAR	0	2	23	58	17						

VP - Very Poor P - Poor F - Fair
G - Good EX - Excellent

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