

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

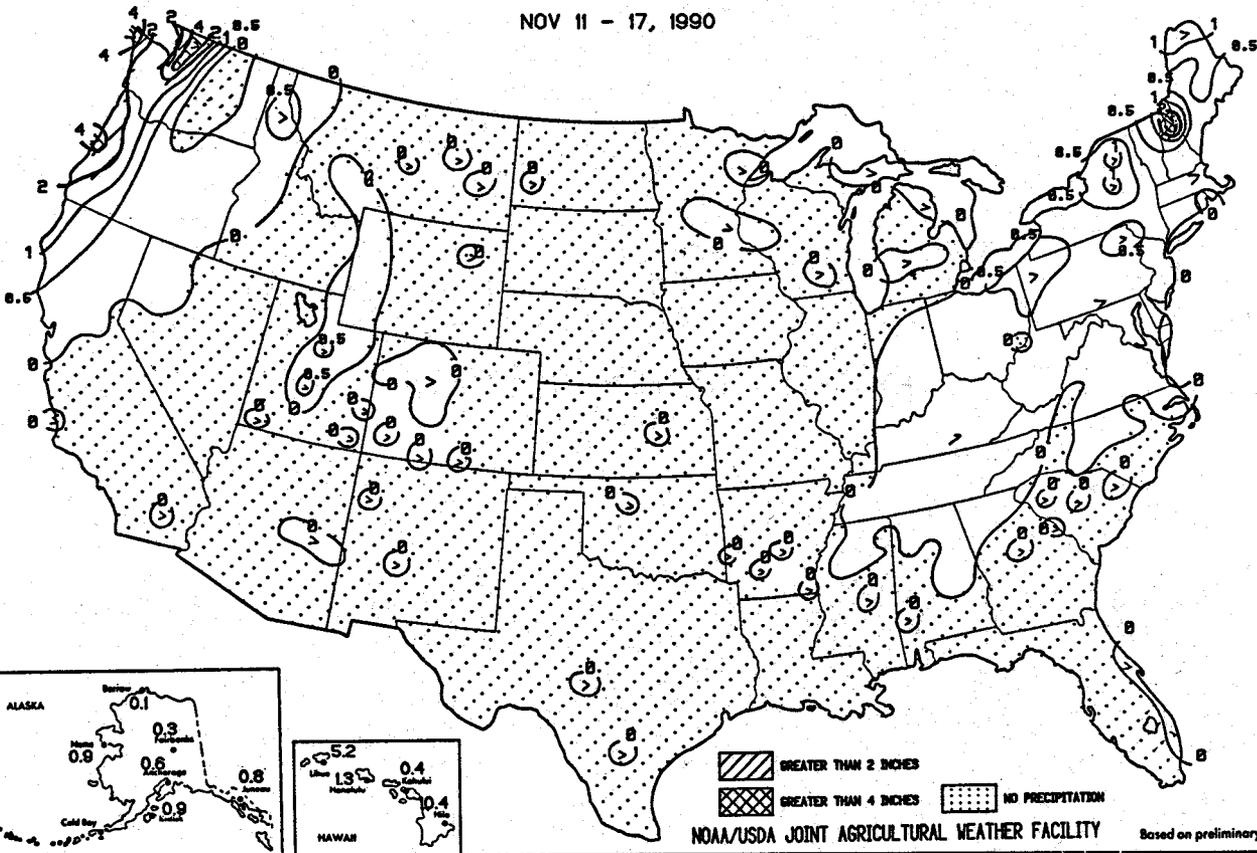
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Washington, D.C.

November 20, 1990

TOTAL PRECIPITATION, INCHES

NOV 11 - 17, 1990



GREATER THAN 2 INCHES
 GREATER THAN 4 INCHES
 NO PRECIPITATION
 NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

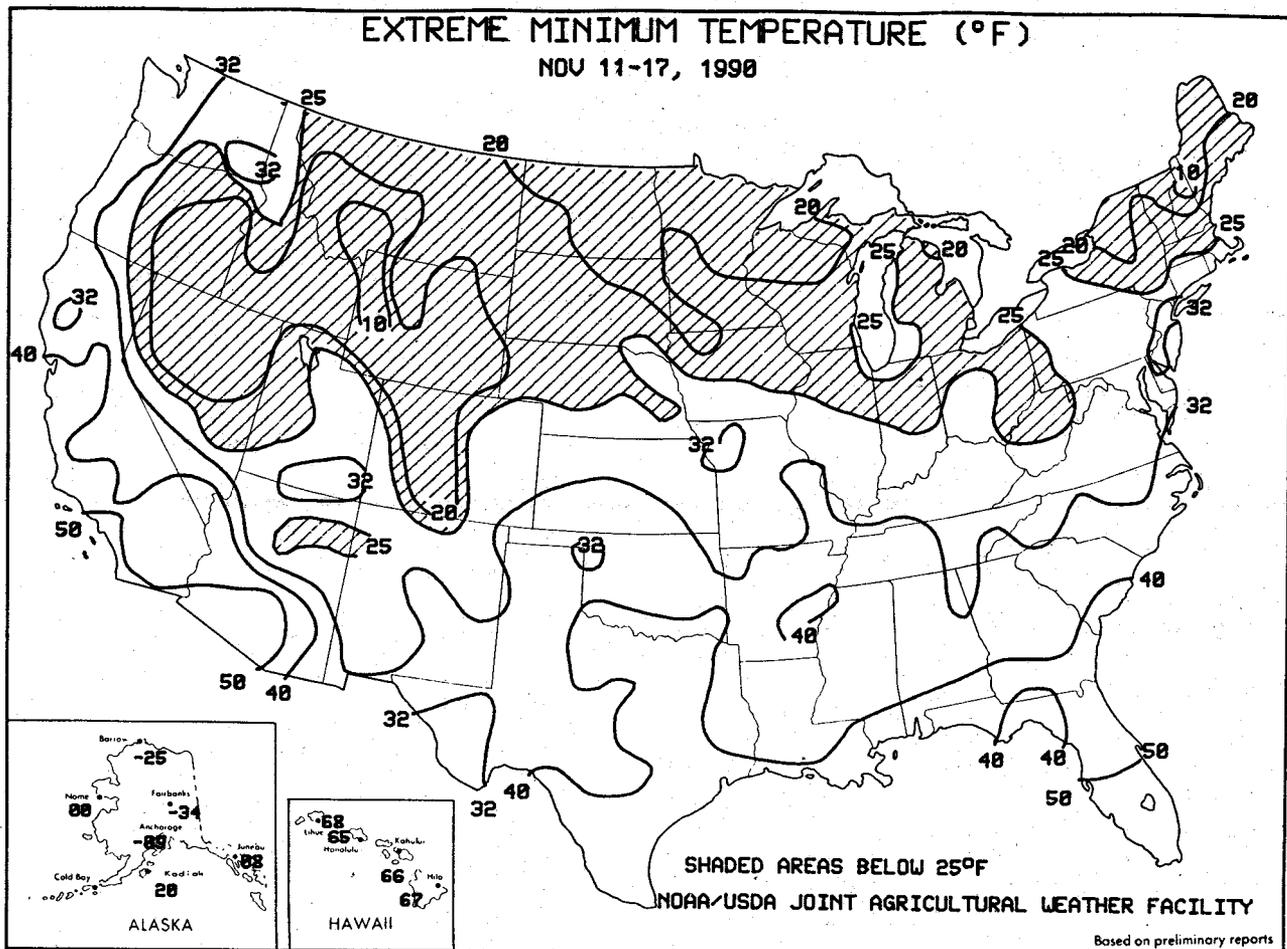
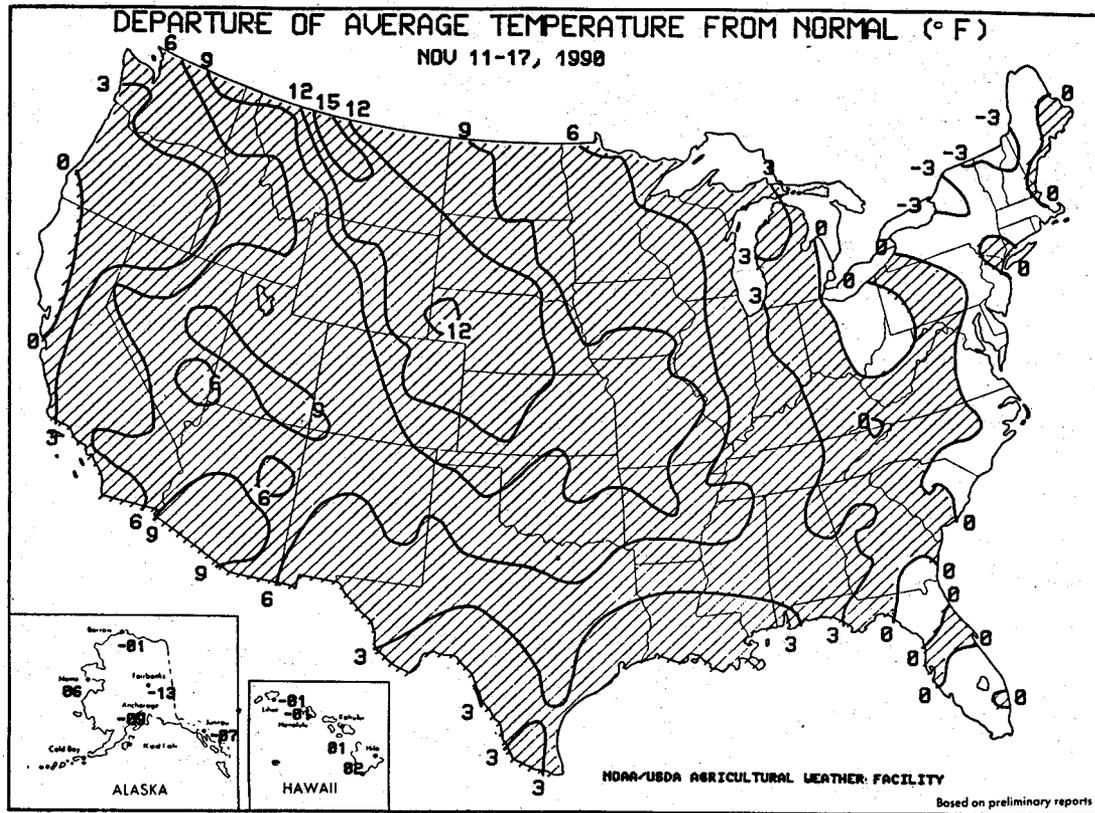
HIGHLIGHTS

November 11-17, 1990

Unusual warmth and dry harvest weather prevailed over all but the northern corners of the Nation. At the start of the week, rain and snow showers lingered behind a departing storm system in **New England** and the **lower Great Lakes**. A Pacific frontal system swept into the **Northwest**, bringing substantial precipitation to coastal and mountain sections of **Washington, Oregon, and northern California** by midweek. Record-high temperatures were set in the **northern Rockies** early in the week, with the warmth spreading to the **central and northern Plains** by midweek, and to the **Northeast** by Friday. The front reached the east coast by Saturday, producing light rain from the **Ohio Valley** eastward, and moderating temperatures in its wake. A second storm system brought another surge of moisture to **coastal Washington** at week's end.

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National Weather Data for Selected Cities

Weather Data for the Week Ending November 17, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	72	39	76	33	56	3	T	-1.8	T	7.8	88	40.1	84	90	36	0	0	0	0	0	0
MOBILE	76	47	79	40	61	2	T	-1.8	T	5.5	50	50.6	89	90	31	0	0	0	0	0	0
MONTGOMERY	75	40	77	36	57	2	T	-1.6	T	4.2	50	49.7	117	95	34	0	0	1	1	1	1
AK ANCHORAGE	21	5	32	-9	13	-9	-6	.3	.6	8.0	168	15.9	120	84	54	0	7	7	2	2	0
BARROW	7	-9	27	-25	-1	-1	-1	.1	.1	1.2	90	4.5	106	86	72	0	7	7	2	2	0
FAIRBANKS	0	-17	13	-34	-8	-13	-3	.1	.1	3.2	143	15.2	162	84	70	0	7	7	5	5	0
JUNEAU	30	21	38	8	25	-8	1.5	.3	.6	19.3	112	51.1	110	96	76	0	5	4	4	1	1
KODIAK	42	28	52	20	35	0	.9	.4	.6	16.6	100	60.9	115	83	53	0	6	2	2	1	1
NOME	28	17	33	0	23	6	.9	.7	.3	5.4	131	20.7	153	97	77	0	7	5	5	0	0
AZ PHOENIX	87	60	89	56	74	13	.0	-1.1	.0	1.3	83	7.2	124	45	17	0	0	0	0	0	0
PRESCOTT	73	33	75	28	53	9	.0	-1.3	.0	2.4	69	14.9	90	59	16	0	3	0	0	0	0
TUCSON	86	53	88	49	70	11	.0	-1.1	.0	2.3	92	13.2	135	54	14	0	0	0	0	0	0
YUMA	88	59	90	55	74	9	.0	-1.0	.0	1.0	161	2.2	109	38	16	2	0	0	0	0	0
AR FORT SMITH	74	40	79	30	57	7	T	-1.8	T	10.4	123	54.6	155	96	31	0	1	0	0	0	0
LITTLE ROCK	73	51	76	43	62	10	.0	-1.0	.0	12.6	133	53.8	126	67	45	0	0	0	0	0	0
CA BAKERSFIELD	74	47	86	45	61	4	.0	-1.2	.0	.1	11	2.7	59	73	37	0	0	0	0	0	0
EUREKA	57	43	63	37	50	-2	1.3	-1.1	1.3	3.4	51	24.8	85	95	76	0	0	1	1	1	1
FRESNO	73	45	82	38	59	5	.0	-1.3	.0	.2	17	7.6	93	80	37	0	0	0	0	0	0
LOS ANGELES	78	57	88	54	67	5	.0	-1.4	.0	T	0	5.1	53	87	41	0	0	0	0	0	0
REDDING	68	39	80	34	54	0	.3	-1.0	.3	2.3	39	23.7	76	91	35	0	0	1	1	0	0
SACRAMENTO	69	43	79	40	56	3	.1	-1.5	.1	.2	7	11.7	90	89	33	0	0	1	1	0	0
SAN DIEGO	76	56	84	53	66	4	.0	-1.2	.0	T	2	6.0	79	87	40	0	0	0	0	0	0
SAN FRANCISCO	65	48	73	45	57	2	T	-1.5	T	.4	17	8.3	56	90	46	0	0	1	1	0	0
CO DENVER	70	36	79	30	53	14	.0	-1.2	.0	3.5	133	16.2	114	63	16	0	2	0	0	0	0
GRAND JUNCTION	60	32	62	28	46	6	.0	-1.1	.0	2.2	115	6.9	98	67	26	0	5	0	0	0	0
PUEBLO	73	27	82	25	50	10	.0	-1.1	.0	2.9	153	15.3	148	81	14	0	7	0	0	0	0
CT BRIDGEPORT	52	37	65	29	45	-1	-1	-2	-2	8.7	100	39.6	110	68	39	0	2	2	2	0	0
HARTFORD	53	32	72	25	42	0	.2	-1.7	.2	13.1	136	47.9	125	72	36	0	4	2	2	0	0
DC WASHINGTON	58	38	70	35	48	-1	-1	-5	-1	6.2	81	36.0	105	76	32	0	0	1	1	0	0
FL APALACHICOLA	76	49	79	38	63	1	.0	-1.6	.0	7.9	59	35.7	71	94	38	0	0	0	0	0	0
DAYTONA BEACH	77	56	79	47	67	1	T	-1.6	T	8.1	63	35.6	79	88	47	0	0	1	1	0	0
JACKSONVILLE	75	47	79	41	61	-1	.0	-1.4	.0	8.2	73	29.0	60	97	42	0	0	0	0	0	0
KEY WEST	78	70	81	66	74	-1	T	-1.8	T	13.2	99	35.0	96	81	59	0	0	0	0	0	0
MIAMI	80	65	82	56	73	-1	-1	-5	-1	9.9	58	50.6	92	84	50	0	0	1	1	0	0
ORLANDO	77	57	80	49	67	0	T	-1.4	T	5.3	50	30.5	65	87	42	0	0	0	0	0	0
TALLAHASSEE	77	43	80	38	60	1	.0	-1.7	.0	7.8	70	41.2	71	99	33	0	0	0	0	0	0
TAMPA	80	55	83	48	68	1	.0	-1.4	.0	5.3	56	33.8	78	93	38	0	0	0	0	0	0
WEST PALM BEACH	80	63	82	53	71	-1	-1	-1	-1	15.9	82	53.3	95	88	49	0	0	1	1	0	0
GA ATLANTA	69	43	73	35	56	4	T	-1.8	T	10.3	137	54.4	128	79	36	0	0	0	0	0	0
AUGUSTA	72	38	77	36	55	1	T	-1.5	T	17.7	269	37.9	98	97	31	0	0	0	0	0	0
MACON	73	40	77	38	57	1	.0	-1.5	.0	9.5	147	32.4	82	92	33	0	0	0	0	0	0
SAVANNAH	72	46	76	41	59	1	.0	-1.4	.0	15.9	187	40.6	88	92	37	0	0	0	0	0	0
HI HILO	81	70	86	67	76	2	10.4	6.8	3.3	60.3	243	156.3	144	98	76	0	0	6	4	4	4
HONOLULU	81	71	88	65	76	-1	1.3	.5	.8	2.6	62	13.0	71	88	60	0	0	3	1	1	1
KAHULUI	84	70	90	66	77	1	.4	-1.1	.3	1.5	68	17.3	120	93	63	1	0	3	3	0	0
LIHUE	78	70	81	68	74	-1	5.2	3.9	2.9	7.7	78	28.8	80	92	74	0	0	6	3	3	3
ID BOISE	57	30	68	23	43	3	T	-1.3	T	1.2	62	10.8	112	83	33	0	6	1	1	0	0
LEWISTON	56	41	64	35	48	8	T	-1.2	T	1.5	60	9.8	89	71	42	0	0	1	1	0	0
POCATELLO	58	25	66	13	41	6	T	-1.2	T	.9	45	8.4	90	80	29	0	6	0	0	0	0
IL CHICAGO	56	33	70	24	45	4	T	-1.5	T	7.4	103	37.5	122	77	38	0	4	0	0	0	0
MOLINE	60	32	73	23	46	6	.0	-1.4	.0	4.7	62	45.8	134	83	34	0	5	0	0	0	0
PEORIA	59	34	71	25	46	6	.0	-1.4	.0	6.6	90	46.9	146	88	39	0	4	0	0	0	0
QUINCY	63	37	73	29	50	8	.0	-1.5	.0	7.1	81	36.2	103	83	42	0	3	0	0	0	0
ROCKFORD	56	29	70	20	43	4	T	-1.5	T	6.1	77	40.6	120	85	39	0	6	0	0	0	0
SPRINGFIELD	60	36	72	27	48	6	.0	-1.4	.0	8.0	116	45.3	146	92	46	0	4	0	0	0	0
IN EVANSVILLE	64	34	74	30	49	4	.1	-1.7	.1	8.5	121	43.3	118	91	41	0	3	1	1	0	0
FORT WAYNE	54	31	70	24	43	2	-1	-6	-1	8.4	128	45.3	147	88	46	0	5	1	1	0	0
INDIANAPOLIS	59	32	71	24	46	3	T	-1.7	T	8.1	117	40.3	117	94	40	0	4	1	1	0	0
SOUTH BEND	54	33	70	25	44	3	T	-1.7	T	13.2	164	46.0	136	85	43	0	4	0	0	0	0
IA DES MOINES	60	35	73	27	48	9	.0	-1.4	.0	5.1	83	41.1	142	83	41	0	3	0	0	0	0
SIOUX CITY	58	32	70	24	45	8	.0	-1.2	.0	3.2	66	23.8	98	89	47	0	5	0	0	0	0
WATERLOO	57	29	71	20	43	7	T	-1.4	T	3.8	57	39.9	129	86	36	0	6	0	0	0	0
KS CONCORDIA	68	39	75	28	54	12	.0	-1.3	.0	3.5	63	24.9	96	81	35	0	1	0	0	0	0
DODGE CITY	71	40	78	34	55	13	.0	-1.2	.0	2.0	56	20.3	104	77	22	0	0	0	0	0	0
GOODLAND	68	35	75	30	51	13	.0	-1.1	.0	3.4	126	18.8	121	78	25	0	2	0	0	0	0
TOPEKA	68	37	77	26	53	10	.0	-1.4	.0	5.9	80	33.0	105	93	38	0	3	0	0	0	0
WICHITA	67	40	74	31	53	9	.0	-1.3	.0	4.6	67	18.6	69	95	45	0	1	0	0	0	0
KY BOWLING GREEN	65	35	73	30	50	3	-1	-8	-1	11.7	145	40.4	95	96	37	0	2	1	1	0	0
LEXINGTON	59	36	70	28	48	2	-2	-5	-2	8.0	110	40.7	101	83	40	0	2	1	1	0	0
LOUISVILLE	64	38	75	31	51	5	-1	-7	-1	7.7	98	47.5	124	88	36	0	1	1	1	0	0
LA ALEXANDRIA	75	44	78	37	60	2	.0	-1.9	.0	8.9	110	50.5	111	97	35	0	0	0	0	0	0
BATON ROUGE	78	46	81	38	62	3	.0	-1.9	.0	9.6	105	59.9	123	96	34	0	0	0	0	0	0
LAKE CHARLES	76	47	79	40	62	2	.0	-1.0	.0	14.0	120	49.0	104	99	42	0	0	0	0	0	0
NEW ORLEANS	75	49	78	42	62	2	.0	-1.9	.0	9.0	86	50.3	96	97	39	0	0	0	0	0	0

Based on 1951-80 normals

Weather Data for the Week Ending November 17, 1990

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE		
																		0	1	0	0	
SENECA	76	44	80	37	60	4	.0	-.9	.0	12.3	154	57.9	152	95	34	0	0	0	0	0		
ME CARIBOU	35	26	43	18	31	-2	1.9	1.2	.8	16.4	196	40.5	127	91	73	0	6	4	2	0		
PORTLAND	50	30	68	22	40	1	.0	-1.1	T	17.2	178	44.0	120	76	42	0	0	0	0	0		
MD BALTIMORE	58	35	74	30	47	0	.2	-.6	.2	5.6	67	36.8	100	75	31	0	3	1	0	0		
SALISBURY	56	35	72	29	46	-2	.0	-.7	.0	8.6	91	36.5	90	73	32	0	2	0	0	0		
MA BOSTON	55	36	75	28	46	0	T	-.9	T	10.2	114	43.1	116	66	33	0	3	2	0	0		
CHATHAM	49	37	57	27	43	-3	T	-1.0	T	6.5	65	38.0	96	74	51	0	1	1	0	0		
MI ALPENA	46	28	64	18	37	1	.1	-.5	.1	6.4	100	28.2	109	89	53	0	5	2	0	0		
DETROIT	51	31	69	26	41	1	1	T	-.5	T	11.9	213	37.4	138	81	47	0	0	0	0	0	
FLINT	49	29	69	23	39	0	.1	-.4	.1	9.6	168	28.8	111	86	50	0	5	2	0	0	0	
GRAND RAPIDS	51	31	68	25	41	2	.2	-.5	.2	12.4	166	35.6	120	88	49	0	0	1	0	0	0	
HOUGHTON LAKE	45	31	61	22	38	3	T	-.5	T	7.0	111	27.6	110	81	53	0	5	0	0	0	0	
LANSING	50	29	69	22	40	0	0	T	-.5	T	12.7	207	32.5	124	84	48	0	5	2	0	0	0
MARQUETTE	44	24	62	20	34	3	.1	-.6	.1	10.2	115	30.2	90	82	50	0	6	1	0	0	0	0
MUSKOGON	50	34	61	23	42	2	.2	-.6	.1	11.0	150	32.1	117	88	53	0	4	1	0	0	0	0
SAULT ST. MARIE	43	28	61	20	36	2	.5	-.3	.2	8.8	103	29.8	102	92	54	0	5	3	0	0	0	0
MN ALEXANDRIA	48	29	61	23	39	4	T	-.3	T	3.1	64	20.4	87	85	42	0	6	0	0	0	0	0
DULUTH	43	24	56	14	34	9	T	-.4	T	10.0	156	32.4	118	85	38	0	6	2	0	0	0	0
INT'L FALLS	42	22	53	12	32	6	T	-.3	T	2.7	48	18.5	81	88	40	0	7	0	0	0	0	0
MINNEAPOLIS	53	31	71	23	42	8	T	-.3	T	3.4	67	31.7	128	74	32	0	5	1	0	0	0	0
ROCHESTER	53	30	68	22	41	7	0	-.4	.0	3.4	52	42.2	157	78	38	0	5	0	0	0	0	0
MS GREENWOOD	74	44	80	36	59	6	.4	-.7	.3	10.3	120	44.9	99	93	35	0	0	3	0	0	0	0
JACKSON	76	39	80	33	58	3	.0	-.9	.0	8.2	103	46.4	104	99	31	0	0	0	0	0	0	0
MERIDIAN	77	39	81	33	58	4	.0	-.8	.0	5.8	73	57.1	124	97	29	0	0	0	0	0	0	0
MO CAPE GIRARDEAU	66	38	74	30	52	1	.0	-.9	.0	8.1	99	43.1	110	95	43	0	1	0	0	0	0	0
COLUMBIA	68	39	75	32	53	9	.0	-.5	.0	4.4	53	48.1	142	81	34	0	1	0	0	0	0	0
KANSAS CITY	67	41	75	32	54	9	.0	-.4	.0	6.4	74	39.1	115	80	38	0	1	0	0	0	0	0
SAINT LOUIS	67	43	77	35	55	10	.0	-.6	.0	7.2	112	36.7	120	74	34	0	1	0	0	0	0	0
SPRINGFIELD	68	41	74	28	55	9	.0	-.7	.0	11.8	130	55.7	156	84	35	0	1	0	0	0	0	0
MT BILLINGS	62	37	71	21	49	14	.0	-.2	.0	1.4	49	10.7	78	56	19	0	3	0	0	0	0	0
GLASGOW	53	28	63	21	40	10	.0	-.1	.0	.6	37	6.2	60	77	32	0	5	0	0	0	0	0
GREAT FALLS	60	39	72	26	49	15	.0	-.2	.0	.6	28	13.0	94	47	19	0	3	0	0	0	0	0
HAVRE	57	28	74	21	42	11	.0	-.1	.0	.4	19	5.8	53	66	26	0	6	0	0	0	0	0
HELENA	58	27	72	15	42	10	.0	-.1	.0	.4	23	7.8	74	75	23	0	6	0	0	0	0	0
KALISPELL	50	26	64	21	38	7	T	-.3	T	21.4	780	37.2	274	92	46	0	6	1	0	0	0	0
MILES CITY	57	32	69	24	45	12	T	-.1	T	1.3	56	8.6	64	81	33	0	2	1	0	0	0	0
MISSOULA	51	25	60	19	38	6	T	-.2	T	1.3	57	12.0	104	89	43	0	7	0	0	0	0	0
NE GRAND ISLAND	66	34	73	28	50	12	.0	-.2	.0	2.4	59	25.8	117	89	32	0	3	0	0	0	0	0
LINCOLN	65	34	75	24	50	11	.0	-.2	.0	3.0	58	25.5	98	87	40	0	5	0	0	0	0	0
NORFOLK	61	33	68	25	47	10	.0	-.2	.0	3.7	95	26.2	116	89	43	0	4	0	0	0	0	0
NORTH PLATTE	69	28	78	24	48	13	.0	-.1	.0	2.4	83	15.5	83	94	25	0	6	0	0	0	0	0
OMAHA	61	38	74	31	49	9	.0	-.3	.0	3.9	61	23.2	80	79	50	0	1	0	0	0	0	0
SCOTTSBLUFF	67	28	77	20	47	11	.0	-.1	.0	3.0	140	17.1	123	86	24	0	6	0	0	0	0	0
VALENTINE	67	30	79	23	48	14	.0	-.1	.0	1.5	90	16.5	99	83	25	0	4	0	0	0	0	0
NV ELY	64	27	71	20	45	11	.0	-.1	.0	1.5	61	16.5	99	83	25	0	4	0	0	0	0	0
LAS VEGAS	75	47	80	46	61	7	.0	-.1	.0	.5	58	3.8	107	63	16	0	0	0	0	0	0	0
RENO	64	31	75	22	48	7	T	-.1	T	.4	46	4.7	82	68	29	0	4	0	0	0	0	0
WINNEMUCCA	61	22	71	13	41	3	T	-.2	T	.3	22	5.6	87	55	20	0	5	1	0	0	0	0
NH CONCORD	49	26	70	20	38	0	.4	-.4	.4	10.4	125	37.1	117	84	41	0	6	3	0	0	0	0
NJ ATLANTIC CITY	56	35	73	30	46	-1	T	-.9	T	6.3	79	33.0	90	79	38	0	2	0	0	0	0	0
NM ALBUQUERQUE	66	35	70	33	51	6	.0	-.1	.0	1.9	98	9.5	132	72	23	0	0	0	0	0	0	0
CLOVIS	69	36	80	30	52	5	.0	-.1	.0	5.6	139	12.8	79	88	25	0	1	0	0	0	0	0
ROSWELL	70	37	76	34	54	6	.0	-.1	.0	2.4	78	7.3	72	81	29	0	0	0	0	0	0	0
NY ALBANY	50	29	70	23	39	-1	.4	-.3	.4	9.6	123	42.1	135	83	41	0	5	2	0	0	0	0
BINGHAMTON	45	30	65	22	38	-1	.4	-.4	.4	12.8	158	40.4	124	88	54	0	5	5	0	0	0	0
BUFFALO	47	33	67	28	40	-1	.4	-.4	.4	10.2	123	41.5	129	83	48	0	5	3	0	0	0	0
NEW YORK	55	41	72	35	48	0	.2	-.7	.2	9.2	105	45.8	123	64	37	0	5	2	0	0	0	0
ROCHESTER	48	33	69	24	40	-1	.3	-.3	.2	9.4	140	35.4	128	89	49	0	5	4	0	0	0	0
SYRACUSE	49	30	71	22	39	-2	.6	-.2	.3	11.8	141	43.2	127	89	50	0	6	4	0	0	0	0
NC ASHEVILLE	63	35	70	30	49	2	T	-.7	T	15.4	178	54.9	140	92	39	0	3	2	0	0	0	0
CHARLOTTE	66	40	72	35	53	1	T	-.6	T	18.7	239	45.9	120	82	31	0	0	1	0	0	0	0
GREENSBORO	63	37	72	30	50	2	T	-.6	T	15.4	187	39.1	104	76	30	0	1	1	0	0	0	0
HATTERAS	61	46	68	36	53	-3	T	-1.1	T	7.6	57	41.8	85	86	41	0	0	0	0	0	0	0
NEW BERN	66	39	73	32	52	-3	T	-.7	T	10.0	92	48.3	101	88	30	0	1	0	0	0	0	0
RALEIGH	64	36	74	29	50	0	.1	-.6	.1	6.9	91	33.9	91	83	29	0	2	1	0	0	0	0
WILMINGTON	68	40	74	34	54	-2	.0	-.7	.0	10.1	97	50.2	104	85	27	0	0	0	0	0	0	0
ND BISMARCK	52	21	64	16	37	7	T	-.1	T	1.5	63	12.2	85	82	32	0	7	0	0	0	0	0
FARGO	49	27	61	20	38	9	T	-.2	T	3.0	83	16.2	88	72	35	0	6	0	0	0	0	0
GRAND FORKS	46	23	57	19	35	7	.0	-.2	.0	2.2	60	15.4	89	74	38	0	6	0	0	0	0	0
WILLISTON	53	25	63	18	39	10	T	-.1	T	.5	20	8.8	69	76	30	0	7	0	0	0	0	0
OH AKRON-CANTON	50	31	68	24	41	-1	.4	-.2	.2	17.7	270	58.4	183	88	45	0	5	3	0	0	0	0
CINCINNATI	58	33	71	26	46	2	.1	-.6	.1	10.3	145	48.5	136	87	38	0	4	1	0	0	0	0
CLEVELAND	51	33	70	23	42	-1	.5	-.1	.3	13.7	200	44.4	142	85	48	0	3	3	0	0	0	0
COLUMBUS	55	31	69	27	43	0	.1	-.5	.1	1												

Weather Data for the Week Ending November 17, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																		0	1	0	0
DAYTON	55	34	71	27	45	2	.1	- .6	.1	9.9	171	48.6	158	89	47	0	5	1	0	0	
TOLEDO	52	31	70	23	41	1	.1	- .6	.1	5.9	102	32.0	115	88	47	0	5	1	0	0	
YOUNGSTOWN	50	32	68	23	41	0	.5	- .1	.4	11.0	152	39.6	120	85	47	0	5	0	0	0	
OK OKLAHOMA CITY	72	45	78	33	59	9	.0	- .4	.0	10.2	144	39.1	135	88	31	0	5	2	0	0	
TULSA	74	45	80	37	59	10	.0	- .6	.0	8.5	91	35.7	100	84	29	0	0	0	0	0	
OR ASTORIA	57	40	63	35	49	2	1.9	- .4	.9	12.4	84	59.5	112	97	70	0	0	0	5	0	
BURNS	54	19	64	12	36	4	.1	- .3	.1	2.4	32	4.5	55	84	31	0	7	4	3	0	
MEDFORD	47	32	52	28	39	0	.9	- .2	.7	2.4	60	11.8	80	100	70	0	0	0	0	0	
PENDLETON	58	36	66	31	47	6	.1	- .2	.1	1.2	50	8.1	83	85	43	0	0	1	1	0	
PORTLAND	56	42	62	36	49	4	1.6	- .4	1.1	6.8	93	28.6	101	98	67	0	0	0	0	0	
SALEM	56	38	61	32	47	2	2.0	- .7	1.6	8.7	111	30.9	102	98	66	0	0	1	1	0	
PA ALLENTOWN	53	32	70	29	43	0	.2	- .7	.2	8.2	90	38.1	99	80	38	0	0	4	2	0	
ERIE	51	37	70	30	44	2	.2	- .3	.3	13.9	143	44.3	127	78	45	0	1	3	0	0	
HARRISBURG	56	34	72	28	45	1	.2	- .6	.2	8.8	109	37.6	109	76	36	0	2	2	1	0	
PHILADELPHIA	56	37	72	34	46	0	.0	- .7	.1	4.4	55	31.8	88	85	44	0	0	0	0	0	
PITTSBURGH	51	32	69	24	42	-1	.4	- .2	.3	10.8	165	43.0	131	91	42	0	5	5	2	0	
SCRANTON	51	32	68	26	41	0	.5	- .2	.5	10.4	135	41.5	134	79	41	0	5	5	4	0	
RI PROVIDENCE	53	34	72	27	43	-1	.1	- .0	.1	9.5	99	39.1	101	74	35	0	4	4	0	0	
SC CHARLESTON	69	46	74	41	57	0	.0	- .5	.0	11.0	122	40.9	86	96	39	0	0	0	0	0	
COLUMBIA	70	37	74	34	54	-1	.1	- .6	.1	15.5	191	41.0	92	96	30	0	0	0	1	0	
FLORENCE	68	41	74	36	54	-1	.1	- .5	.0	13.2	173	31.2	78	87	29	0	0	1	1	0	
GREENVILLE	67	37	73	32	52	1	.0	- .7	.0	13.3	137	46.0	101	86	34	0	0	0	0	0	
SD ABERDEEN	54	26	64	19	40	9	.0	- .1	.0	3.6	125	20.5	121	81	30	0	0	0	0	0	
HURON	56	26	70	21	41	8	.0	- .2	.0	1.9	58	22.6	127	89	32	0	0	0	0	0	
RAPID CITY	66	33	78	25	50	15	.0	- .1	.0	3.5	167	16.2	105	63	17	0	0	0	0	0	
SIOUX FALLS	54	29	65	21	41	8	.0	- .2	.0	2.7	56	18.4	81	88	10	0	0	0	0	0	
TN CHATTANOOGA	68	36	73	32	52	3	.1	- .9	.1	10.9	116	57.2	126	98	37	0	0	1	1	0	
KNOXVILLE	63	36	69	33	50	1	.1	- .8	.1	7.5	98	45.6	112	91	38	0	0	0	0	0	
MEMPHIS	73	45	77	40	59	7	.1	- .0	.1	11.7	144	47.8	107	83	34	0	0	0	0	0	
NASHVILLE	68	39	75	34	54	5	.2	- .6	.2	9.5	118	35.0	83	89	35	0	0	0	1	0	
TX ABILENE	69	48	73	42	59	5	.0	- .3	.0	8.2	132	29.9	137	89	49	0	0	0	0	0	
AMARILLO	70	39	78	33	54	9	.0	- .1	.0	3.7	107	17.3	95	80	26	0	0	0	0	0	
AUSTIN	76	51	80	42	63	5	.0	- .5	.0	8.6	104	27.3	96	93	45	0	0	0	0	0	
BEAUMONT	77	49	79	40	63	2	.0	- .0	.0	13.4	118	60.9	126	99	43	0	0	0	0	0	
BROWNSVILLE	80	57	84	45	69	1	.0	- .3	.0	7.1	71	18.6	79	96	49	0	0	0	0	0	
CORPUS CHRISTI	79	56	83	44	68	2	.0	- .3	.0	4.5	44	19.8	68	99	49	0	0	0	0	0	
DEL RIO	73	51	75	43	62	2	.0	- .2	.0	8.9	161	25.4	155	72	44	0	0	0	0	0	
EL PASO	73	38	76	36	55	3	.0	- .1	.0	5.1	224	12.3	173	94	28	0	0	0	0	0	
FORT WORTH	76	49	79	43	62	7	.0	- .5	.0	6.8	89	42.9	151	91	39	0	0	0	0	0	
GALVESTON	71	58	73	52	65	2	.0	- .7	.0	11.1	107	35.9	101	94	59	0	0	0	0	0	
HOUSTON	77	48	79	40	63	2	.0	- .8	.0	7.3	67	37.5	92	96	42	0	0	0	0	0	
LUBBOCK	70	43	75	37	57	8	.0	- .1	.0	4.5	105	15.5	91	87	29	0	0	0	0	0	
MIDLAND	71	42	76	35	56	4	.0	- .1	.0	4.8	125	13.2	103	96	37	0	0	0	0	0	
SAN ANGELO	71	44	73	34	57	3	.0	- .2	.0	10.7	187	28.1	165	96	49	0	0	0	0	0	
SAN ANTONIO	76	49	78	38	62	2	.0	- .6	.0	10.4	130	38.0	143	96	48	0	0	0	0	0	
VICTORIA	78	53	81	44	66	3	.0	- .5	.0	6.6	61	34.1	101	98	42	0	0	0	0	0	
WACO	75	49	77	43	62	5	.0	- .5	.0	13.6	180	36.1	129	97	45	0	0	0	0	0	
WICHITA FALLS	73	46	78	41	59	7	.1	- .3	.1	5.6	81	36.8	149	93	41	0	0	0	0	0	
UT CEDAR RAPIDS	64	31	70	27	48	8	.0	- .2	.0	2.6	118	9.2	100	68	23	0	4	0	0	0	
SALT LAKE CITY	60	33	70	28	47	6	.0	- .3	.0	2.0	76	9.7	73	82	34	0	4	0	0	0	
VT BURLINGTON	44	28	63	20	36	-2	.4	- .2	.4	11.4	149	37.4	125	90	56	0	5	3	0	0	
VA NORFOLK	59	41	72	36	50	2	.0	- .7	.0	5.6	60	42.0	104	75	36	0	0	0	0	0	
RICHMOND	62	35	73	28	48	-1	.3	- .5	.3	7.4	81	39.2	100	84	31	0	4	1	0	0	
ROANOKE	62	38	73	30	50	3	.0	- .6	.0	12.8	159	39.9	114	67	28	0	1	0	0	0	
WA QUILLAYUTE	53	44	56	35	48	4	5.3	2.3	1.8	28.1	120	89.6	108	100	86	0	0	7	4	4	
SEATTLE-TACOMA	55	43	65	37	49	4	1.8	.5	.8	11.5	137	36.2	123	97	71	0	0	5	2	2	
SPOKANE	51	35	62	29	43	8	.1	- .4	.1	3.3	115	16.6	127	93	54	0	2	1	0	0	
YAKIMA	57	30	65	24	44	5	.1	- .2	.1	5	36	5.9	99	90	36	0	6	0	0	0	
WV BECKLEY	54	34	67	26	44	1	.1	- .6	.1	9.1	115	36.1	95	77	31	0	3	1	0	0	
CHARLESTON	60	33	74	25	46	1	.1	- .6	.1	9.2	128	36.4	97	83	30	0	2	1	0	0	
HUNTINGTON	59	35	73	25	47	0	.2	- .4	.2	10.6	154	43.2	119	85	33	0	2	1	0	0	
PARKERSBURG	56	32	71	24	44	-1	.1	- .6	.1	8.7	131	43.0	127	86	35	0	5	0	0	0	
WI GREEN BAY	50	29	65	22	40	7	.0	- .4	.0	8.6	137	34.0	133	84	40	0	5	0	0	0	
LACROSSE	55	32	71	25	43	7	.0	- .4	.0	3.6	56	34.8	123	79	33	0	5	0	0	0	
MADISON	55	28	68	19	42	6	.0	- .4	.0	4.6	73	32.2	113	82	36	0	5	1	0	0	
MILWAUKEE	55	35	69	26	45	7	.0	- .5	.0	6.4	103	36.6	131	76	42	0	3	0	0	0	
WAUSAU	50	28	64	19	39	6	.0	- .4	.0	7.7	106	32.6	110	82	41	0	6	0	0	0	
WY CASPER	59	34	64	17	46	13	.0	- .2	.0	2.5	128	11.8	113	62	23	0	2	0	0	0	
CHEYENNE	64	33	71	20	49	14	.0	- .1	.0	2.7	129	19.1	150	56	17	0	4	0	0	0	
LANDER	50	28	53	22	39	8	.0	- .2	.0	4.2	169	10.9	89	71	36	0	7	0	0	0	
SHERIDAN	63	30	74	18	46	13	.0	- .2	.0	2.7	95	12.7	91	70	22	0	4	0	0	0	

Based on 1951-80 normals

National Agricultural Summary

November 12-18, 1990

HIGHLIGHTS: Winter wheat was mostly good with 90 percent (%) of the crop emerged, 1 percentage point ahead of the 5-year average. Ninety-three percent of the corn was harvested, 1 point ahead of normal. Soybean harvest was 95% complete, 5 points ahead of normal. Cotton harvest was 78% complete, 9 points ahead of normal.

Higher-than-normal temperatures and a general lack of moisture over most of the nation hastened harvest and other field work. Lack of moisture was a problem in the northern Plains, Montana, and California. Temperatures averaged 12 degrees above normal in parts of Colorado, Kansas, Montana, Nebraska, and Wyoming.

SMALL GRAINS: Winter wheat was mostly good with 90% of the crop emerged, 1 point ahead of normal. Colorado, Nebraska, and South Dakota had 100% of the crop emerged. Oklahoma was 90% emerged, 10 points ahead of normal. Indiana and Ohio were 10 and 15 points behind normal, respectively. Condition was mostly good in all States except Montana, Oregon, and South Dakota, where the condition was mostly fair. Georgia wheat planting was active but a large insect population was a problem.

CORN: Ninety-three percent of the corn was harvested, 1 point ahead of normal. Corn was 100% harvested in Georgia, Kansas, and Texas. Michigan progressed 25 points from last week but was still 10 points behind normal. Ohio harvest progressed 19 points and had 83% harvested, 2 points ahead of normal. Harvest progressed so rapidly in Ohio that elevators piled corn on the ground because drying facilities were overworked.

SOYBEANS: Soybean harvest was 95% complete, 5 points ahead of normal. Harvest was complete in Illinois, Iowa, Kansas, Michigan, Minnesota, Nebraska, and South Dakota. Arkansas and North Carolina harvests advanced 16 and 17 points, respectively.

COTTON: Cotton harvest was 78% complete, 9 points ahead of normal. Harvest was complete in Louisiana. Oklahoma harvest progressed 20 points and was 40 points ahead of normal. Harvest was 54% complete in New Mexico and Texas but was ahead of normal. Producers in the Texas High Plains would like a hard freeze to facilitate continued cotton harvest.

OTHER FIELD CROPS: Peanuts in Georgia were 100% threshed, 1 point ahead of normal. Kentucky burley tobacco was in good condition and was 39% stripped, 6 points behind normal. Stripping was slowed by

dry moisture conditions. Florida sugarcane harvesting and planting were active. Louisiana sugarcane harvest was 35% complete, 18 points behind normal. Pennsylvania ensilage corn was 98% harvested, 2 points behind normal. Also, the fourth cutting of alfalfa hay with mostly good quality was 88% complete, 7 points behind last year. Christmas tree cutting had begun in Virginia. Texas sunflowers were 55% harvested, 22 points behind normal.

FRUIT AND NUTS: Early Florida citrus harvest was active with most processing plants open. Light strawberry harvest was underway. Arizona citrus harvest continued west and central, and apple packing continued. Louisiana pecan harvest was 53% complete, 1 point ahead of normal, with mostly very poor to poor quality. Mississippi pecan harvest was mostly very poor. Pecan harvest was active in Texas with mostly fair to good quality. California table grape harvest continued. Some vineyards were treated for nematodes. Grapefruit and lemon harvests were complete.

VEGETABLES: New Jersey squash and sweetpotatoes were moving from storage. Florida vegetable harvest was nearly complete in the north and gaining momentum in the south. Arizona vegetable harvest continued west, central, and east. Texas fall vegetables continued good to excellent growth. California cauliflower and celery were in heavy supply with variable quality. Broccoli and iceberg lettuce were in moderate supply and variable quality.

PASTURES AND LIVESTOCK: Pasture and livestock were in mostly fair to good condition. California, North Dakota, and Utah pastures were in mostly poor condition. Livestock water in California was in short supply in the southern two-thirds of the State. Livestock continued grazing winter wheat pastures in Texas.

Crop Progress

FOR WEEK ENDING NOVEMBER 18, 1990

	COTTON % HARVESTED		
	1990	1989	AVG.
AL	99	87	92
AZ	90	74	74
AR	98	94	95
CA	95	97	92
GA	94	80	85
LA	100	99	97
MS	98	89	95
MO	97	99	97
NM	54	68	53
NC	89	74	74
OK	70	60	30
SC	93	80	85
TN	98	94	96
TX	54	59	41

14 STATES 78 77 69

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

	CORN % HARVESTED		
	1990	1989	AVG.
CO	85	92	90
GA	100	100	100
IL	97	100	97
IN	88	91	91
IA	98	100	94
KS	100	98	97
KY	88	94	97
MI	70	100	80
MN	97	99	93
MO	97	99	92
NE	98	98	91
NC	99	98	98
OH	83	79	81
PA	59	63	70
SD	99	98	88
TX	100	100	100
WI	77	96	85

17 STATES 93 97 92

THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.

	SOYBEANS % HARVESTED		
	1990	1989	AVG.
AL	87	74	77
AR	87	91	79
GA	81	63	69
IL	100	100	98
IN	98	97	97
IA	100	100	98
KS	100	96	85
KY	81	88	80
LA	98	98	88
MI	100	100	90
MN	100	100	99
MS	88	86	79
MO	95	98	85
NE	100	100	100
NC	58	43	42
OH	98	91	96
SC	47	37	43
SD	100	100	99
TN	84	90	82

19 STATES 95 94 90

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

Crop Condition

PERCENT
FOR WEEK ENDING NOVEMBER 18, 1990

	WINTER WHEAT % EMERGED		
	1990	1989	AVG.
AR	62	78	67
CA	20	30	28
CO	100	100	100
GA	20	16	26
ID	95	98	97
IL	90	99	95
IN	82	90	92
KS	99	100	97
MI	95	100	90
MO	84	94	82
MT	92	94	90
NE	100	100	100
NC	42	37	NA
OH	75	88	90
OK	90	90	80
OR	94	95	91
SD	100	100	100
TX	84	80	87
WA	98	99	95

19 STATES 89 91 NA

EXCL. STATES WITH NA 90 92 89

THESE 19 STATES PRODUCED 91% OF THE 1989 WINTER WHEAT CROP.
NA - NOT AVAILABLE.

STATE	WINTER WHEAT PERCENT				
	VP	P	F	G	EX
AR	0	0	27	72	1
CA	0	0	10	85	5
CO	0	5	17	51	27
GA	0	4	35	61	0
ID	0	2	10	73	15
IL	0	0	25	72	3
IN	0	6	45	49	0
KS	0	0	11	52	37
MI	1	6	22	54	17
MO	0	1	43	55	1
MT	7	17	52	22	2
NE	0	4	38	57	1
NC	0	0	28	72	0
OH	0	5	37	47	11
OK	0	0	13	85	2
OR	0	0	51	49	0
SD	8	13	43	32	4
TX	0	3	40	44	13
WA	0	5	35	60	0
19 STATE	1	3	26	56	14
PREV WEEK	0	3	30	53	14
PREV YEAR	1	10	39	45	5

NA - NOT AVAILABLE VP - VERY POOR
P - POOR F - FAIR G - GOOD EX - EXCELLENT

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall mostly under 0.10 in.; near 0.25 in. isolated locations. Temperatures 1 to 4° above normal.

Days suitable for fieldwork 5.6. Soil moisture 15% very short, 40% short, 45% adequate. Mostly dry, mild conditions facilitated row crop harvest, small grain seedings. Cotton 99% harvested, 87% 1989, 92% avg. Soybeans 99% mature, 98% 1989, 97% avg.; 87% harvested, 74% 1989, 77% avg. Winter wheat 60% seeded, 68% 1989, 66% avg. Pastures 17% very poor, 31% poor, 30% fair, 22% good. Livestock 7% poor, 54% fair, 39% good. Primary activities: harvesting cotton, soybeans, fall vegetables, pecans; destroying cotton stalks; seeding; fertilizing winter annuals; maintaining machinery; repairing fences; soil testing; applying lime to cropland; harvesting catfish; providing supplemental feed to cattle; the general care of livestock, poultry, catfish.

ARIZONA: Unseasonably warm, sunny, dry 11th through 17th; near record or above maximum temperatures many areas; 5 to 13° above normal. Extreme 46°; 91° deserts, 20°; 85° higher elevations; precipitation none.

Cotton 90% harvested, 74% 1989, avg.; stalk shredding, plow down active. Alfalfa harvest neared completion; mostly light activity; sheeping off increased slightly. Wheat, barley seedbeds prepared central, west; some seeding. Citrus harvest continued west, also melons, mixed vegetables. Citrus, pecan, lettuce, mixed vegetable harvests continued central. Apple packing continued, pecan harvest underway, fall lettuce harvest completed east.

ARKANSAS: Normal to above normal temperatures with only isolated showers later part of the week. Extremes 22°; 83°. Rainfall none to 0.04 in. Soil moisture 14% short, 78% adequate, 8% surplus.

Days suitable for fieldwork 6.0. Main activities: Soybean, grain sorghum, rice, cotton harvest; bush hogging, disking cotton stalks, rice stubble; planting winter forages; conducting winter pasture management practices; baling hay; working cattle; winterizing machinery. Rice: 100% harvested, 100% 1989, 100% avg. Cotton: 98% harvested, 94% 1989, 95% avg.; 8% poor, 18% fair, 74% good. Sorghum: 100% harvested, 100% 1989, 100% avg. Soybeans 87% harvested, 91% 1989, 79% avg.; 99% mature, 98% 1989, 94% avg.; 100% shedding, 100% 1989, 98% avg.; 4% poor, 61% fair, 35% good. Wheat 76% planted, 91% 1989, 82% avg.; 62% emerged, 78% 1989, 67% avg; condition 27% fair, 72% good, 1% excellent. Oats 74% planted, 91% 1989, 77% avg. Pasture 19% poor, 68% fair, 13% good. Livestock good. Sever shattering of soybeans.

CALIFORNIA: Several weak weather systems brushed the northern end of the State with clouds, little moisture fell except on 15th. Temperatures cooled to nearly normal in the north while remaining above normal under dry high pressure in the south.

Field activities progressed, despite rainfall. Late rice harvest continued. Stubble burning ongoing as allowable. Cotton harvest neared completion. Shredding, disking continued; pink bollworm control. Some fieldwork, 1991 crop. Corn, dry bean, sugarbeet harvests progressed. New alfalfa seeding underway. Small grain field preparation, seeding active. Alfalfa harvest

normal. Fuji apples harvested, packed. Hass avocado harvest began, picking of Zutanos, Fuertes was steady. Date, persimmon harvest moving well. Table grape harvest continued. Some vineyards treated for nematodes. Deciduous fruit tree pruning began. Field fumigation continued, prepared for planting. Almond harvest coming to a close. Pecan harvest proceeded. Grapefruit, lemons harvested. Navel orange picking slow, maturity problems. Color improved, sugar to acid ratio problem in some lots. Satsuma mandarin picking continued, increased volume, small size. Broccoli moderate supply, variable quality. Cauliflower heavy supply, variable quality. Celery heavy supply, generally good quality. Iceberg head lettuce moderate supply, good quality, Huron area. Potato harvest continued Hemet Perris. Livestock average to good condition supplemental feed most areas. Range conditions poor to very poor southern two thirds of the State, poor to fair northern third. Precipitation received most areas this week little expectation for pasture improvement. Water supplies very short southern two thirds. Sheep grazed crop residues southern counties.

COLORADO: Unseasonably warm, dry statewide with all areas. No precipitation. Record high temperatures were recorded across the State allowing producers to make good progress on remaining harvest, other fieldwork activities. Temperatures 10° above normal in the west, 10° to 15° above normal in the east.

FLORIDA: Most of State received no rain, except few showers along Atlantic coast; rain totals mostly 0.10 in. or less. Temperatures within 1 or 2° of normal. Warmest readings mostly upper 70s to low 80s; few mid 80s over Peninsula. Coldest, late weekend; lows upper 20s to mid 30s north, 40s to low 50s central, interior south, mid 50s to low 60s extreme southeast.

Topsail moisture extreme southern Peninsula mostly adequate, except higher sandy soils; other areas short. Cotton harvest virtually complete. Soybean harvest winding down. Sugarcane harvest, planting active. Farmers preparing land for planting winter wheat; however, dry soil will delay planting some areas. Pastures 5% very poor, 20% poor, 40% fair, 30% good, 5% excellent. Cattle poor to good, Panhandle; fair to good, northern Peninsula; good, southern Peninsula. Mild, windy, dry, citrus areas. Rain needed, irrigation continued. Very little new foliage growth. Early harvest advanced rapidly; most processing plants open. Fresh shipments active for Thanksgiving trade. Caretakers getting young trees ready for winter. Mild days, cool nights vegetable producing areas. Limited precipitation. Fall harvest nearly complete north, gaining momentum south. Volume leaders: tomatoes, cucumbers, peppers, squash, sweet corn, snap beans, radishes, celery, eggplant. Light harvest strawberries underway.

GEORGIA: Temperatures 1 to 4° above normal north, around normal remainder of State. Warmest highs near 70° northeast mountains, mid to upper 70s central, south. Lows reached freezing mark north with low to mid 20s colder locations. Southwest lows around freezing colder locations, mid to upper 30s southeast. Dry weather most of State. Only

few late showers north on 16th, amounts under 0.10 in.

Days suitable for fieldwork 6.0. Soil moisture 4% very short, 32% short, 63% adequate, 1% surplus. Cotton 4% very poor, 22% poor, 49% fair, 25% good; harvest nearing completion. Sorghum 3% very poor, 24% poor, 69% fair, 4% good; 96% harvested for grain, 95% 1989, 94% avg. Peanuts 100% threshed, 100% 1989, 99% avg. Soybeans 32% very poor, 47% poor, 19% fair, 2% good; harvest very active. Wheat planting very active, high insect population a concern, cooler temperatures needed. Rye 1% poor, 54% fair, 43% good, 2% excellent; 84% planted, 86% 1989, 78% avg. Other small grains 60% planted, 66% 1989, 65% avg. Pecans 17% very poor, 35% poor, 48% fair; 47% harvested, 55% 1989, 53% avg. Pasture 3% very poor, 18% poor, 44% fair, 34% good, 1% excellent. Cattle, hogs fair to good. Main activities: Harvesting soybeans, planting small grains, picking cotton, harvesting pecans.

HAWAII: First major winter storm brought heavy rains to parts of the Island chain. Some flooding occurred, damage to crops has been minimal. Winds gusty 15 to 30 mph. Temperatures low 70s to mid 80s. Rainfall 1.90 to 25.00 in.

Days suitable for fieldwork 7.0. Heavy rains slowed or halted fieldwork in many areas by weekend. Wet, muddy field conditions hampered farm work, harvesting operations in windward crop areas. Rains were beneficial to sugarcane, pastures, orchards in previously dry areas. Strong winds caused damage to banana orchards, vine crops in exposed areas. Some minor damage to vegetables in areas that received heavy showers.

IDAHO: Temperatures 5 to 10° above normal statewide. Precipitation below normal; no precipitation south, one to two tenths north.

Soil moisture adequate north; short elsewhere. Activities: Winterizing, repairing equipment, fall plowing. Winter wheat planting complete; condition good. Hay, roughage supplies adequate. Livestock in good to excellent condition.

ILLINOIS: Temperatures 5 to 9° above normal. Virtually no precipitation.

Days suitable for fieldwork 6.50. Soil moisture 9% short, 90% adequate, 1% surplus. Sorghum harvest 89%, 100% 1989, 96% avg. Livestock roughage requirements from pasture 47%, 48% 1989, 44% avg. Pasture 3% poor, 39% fair, 57% good, 1% excellent.

INDIANA: Temperatures 3 to 9° above normal. Lows low 20s to low 30s, highs low 50s to low 60s. Precipitation 0.05 to 0.15 in.

Days suitable for fieldwork 6.5. Topsoil 1% short, 88% adequate, 11% surplus. Subsoil 88% adequate, 12% surplus. Winter wheat 98% seeded, 98% 1989, 98% avg. Spring cropland 43% tilled, 45% 1989, 42% avg. Corn 20% moisture content, soybeans 13% moisture content. Pasture 1% very poor, 8% poor, 44% fair, 46% good, 1% excellent. Soybean harvest nearly complete. Excellent week for field activities.

IOWA: Temperatures 8 to 10° above normal. Extremes 19°; 75°. Precipitation none to 0.01 in.; average a trace.

Winter wheat mostly good to excellent. Livestock mostly good. Use of stubble, stalk fields in creasing due to open winter. Corn harvest winding down. Some machinery already being put away for the winter.

KANSAS: Temperatures 11 to 14° above normal. No precipitation.

Days suitable for fieldwork 5.5. Surface moisture 30% short, 70% adequate. Subsurface moisture 50% short, 50% adequate. Fall harvest

corn, sorghum, soybeans complete. Wheat seeding complete. Movement livestock to graze crop residue, wheat fields continues. Stock ponds low many areas.

KENTUCKY: Mild temperatures. Highs averaged low 60s, 4 to 6° above normal. Lows averaged mid to upper 30s, 1 to 3° above normal. Extremes 21°; 77°. Rainfall light 0.10 in., primarily 16th.

Days suitable for fieldwork 5.3. Soil moisture 8% short, 89% adequate, 3% surplus. Burley 39% stripped, 42% 1989, 45% avg. Stripping slowed by drier moisture conditions. Burley generally weighing good with good quality. Condition stripped crop mostly good. Corn harvest slowed by waiting for corn to dry naturally in field. Winter wheat seeding 82%, 92% 1989, 85% avg. Seeding slowed by late corn, soybean harvest. Early seeded wheat germinated well, showing good growth. Later seeded needs moisture for germination, growth. Wheat generally good. Pastures 1% poor, 17% fair, 73% good, 9% excellent. Good hay supply available for winter feed.

LOUISIANA: Temperatures 1.1 to 4.1° above normal. Extremes 31°; 82°. No precipitation.

Days suitable for fieldwork 5.7. Soil moisture 8% very short, 17% short, 68% adequate, 7% surplus. Cotton harvested 100%, 99% 1989, 97% avg. Pecans harvested 53%, 56% 1989, 52% avg.; 36% very poor, 36% poor, 21% fair, 7% good. Soybeans harvested 98%, 98% 1989, 88% avg. Sugarcane harvested 35%, 58% 1989, 53% avg.; 18% poor, 36% fair, 46% good. Sweetpotatoes harvested 93%, 93% 1989, 94% avg. Wheat planted 71%, 78% 1989, 61% avg.; emerged 55%, 54% 1989, 44% avg.; 35% fair, 60% good, 5% excellent. Livestock 52% fair, 48% good. Pasture 24% poor, 56% fair, 20% good. Vegetables 6% poor, 52% fair, 39% good, 3% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 1.43 in. Temperature 49°, normal 47°. Extremes 20°; 75°.

Days suitable for fieldwork 5.9. Topsoil 94% adequate, 6% surplus. Subsoil 6% short, 81% adequate, 13% surplus. Corn good; grain 93% harvested, 89% 1989, 94% avg. Soybeans good; 89% harvested, 68% 1989, 69% avg. Small grains good. Wheat 97% seeded, 86% 1989, 91% avg. Oats 81% seeded, 59% 1989, 91% avg. Rye 96% seeded, 86% 1989, 94% avg. Hay supplies adequate. Pasture good. **DELAWARE:** Precipitation 0.36 in. Temperature 49°, normal 48°. Extremes 28°; 73°.

Days suitable for fieldwork 6.4. Topsoil 33% short, 67% adequate. Subsoil 33% short, 67% adequate. Soybeans good; 95% harvested, 53% 1989, 66% avg. Small grains good condition. Wheat 95% seeded, 78% 1989, 86% avg. Hay supplies adequate. Pasture fair.

MICHIGAN: Temperatures 1 to 4° below normal. Extremes 18°; 70°. Precipitation none to 0.47 in. across State.

Days suitable for fieldwork 5.5. Soil moisture 57% adequate, 43% surplus. Corn 70% harvested, 100% 1989, 80% avg. Soybeans, 100% harvested, 100% 1989, 90% avg. Winter wheat 100% emerged, 100% 1989, 95% avg.; 1% very poor, 6% poor, 22% fair, 54% good, 17% excellent. Major activities: Harvesting soybeans, corn, field preparation, equipment repair.

MINNESOTA: Temperatures 8 to 10° above normal. Extremes 11°; 71°. Precipitation none to 0.01 in., greatest weekly total 0.03 in.

MISSISSIPPI: Temperatures 3° above normal. Extremes 28°; 83°. Mostly dry statewide. Rainfall 0.01 in., 0.98 in. below normal. Soil temperatures 57°.

Days suitable for fieldwork 5.4, 2.9 1989, 3.2 avg. Soil moisture 6% very short, 35% short, 55% adequate, 4% surplus. Cotton 98% harvested, 89% 1989, 95% avg.; 8% very poor, 1% poor, 22% fair, 48% good, 21% excellent. Soybeans 88% harvested, 86% 1989, 79% avg.; 20% very poor, 15% poor, 51% fair, 14% good. Sweetpotatoes 98% harvested, 95% 1989, 100% avg. Wheat 71% planted, 82% 1989, 68% avg.; 48% emerged, 66% 1989, 64% avg.; 13% poor, 43% fair, 38% good, 6% excellent. Pecans 23% harvested, 41% 1989, 42% avg.; 59% very poor, 31% poor, 1% fair, 9% good. Pasture 8% very poor, 43% poor, 31% fair, 18% good. Livestock 5% very poor, 5% poor, 40% fair, 50% good. Hay, roughage 65% short, 35% adequate. Feed grain 29% short, 68% adequate, 3% surplus. Activities: Harvesting crops, planting wheat, subsoiling.

MISSOURI: Temperatures 4° above normal Bootheel to 11° above normal east Ozarks. No rain most counties, State 0.04 in.

Days suitable for fieldwork 5.9. Topsoil 19% short, 81% adequate. All districts except south central have 95% or more southeast, south central, 96% or more other districts. Sorghum harvest 95%, 99% 1989, 91% avg.; southwest district 83%, all other districts 93% or more. Wheat seeded 94%, 99% 1989, 87% avg. Ground worked at least once for spring crops 45%, 48% 1989, 45% avg. Pasture 9% poor, 56% fair, 33% good, 2% excellent.

MONTANA: Temperatures 6 to 17° above normal. Numerous record high temperatures. Some lows in southwest valleys near 0°. Precipitation limited to mountain areas. Amounts less than 0.50 in.

Days suitable for fieldwork 6.4. Limited fall fieldwork continues. Topsoil 82% short, 18% adequate. Subsoil 77% short, 23% adequate. Range, pasture feed 5% very poor, 20% poor, 37% fair, 37% good. Cattle, calves moved from summer ranges 92%. Sheep, lambs moved 93%. Cattle, calves receiving supplemental feed 20%. Sheep, lambs receiving supplemental feed 26%.

NEBRASKA: Dry, mild. Temperatures 10 to 13° above normal. Extremes 20°; 79°.

Days suitable for fieldwork 6.1. Topsoil 45% short, 54% adequate, 1% surplus. Subsoil 74% short, 26% adequate. Northeastern corn growers kept out of fields by wet conditions most of week. Harvest in west beginning to wind down. Moisture, warm weather helped winter wheat emergence in spotty fields, allowed much needed growth before crop goes dormant. Russian wheat aphids some western fields. Eastern operators doing some fall tillage, applying fertilizer where conditions permitted. Pasture, range 10% very poor, 36% poor, 32% fair, 22% good. Some cattle losses, north pasture to pneumonia. Hay being moved to winter feeding areas. Main activities: Equipment maintenance, storage, fencing stalk fields; book work.

NEVADA: Relatively mild as a few weak cold fronts kept cloud cover most areas. Precipitation amounts light northeast, northwest. Trace amounts recorded elsewhere. Extremes 10°; 84°.

Mild temperatures easy on newborn calves, lambs. Market demand 1990 crop potatoes mostly moderate. Cattle mostly good. Main ranch, farm activities caring for, feeding livestock, overhauling machinery, irrigating fall seeded grains.

NEW ENGLAND: Precipitation none to 0.40 in. south, up to 0.90 in. north. Temperatures 30s to 40s extreme northern Maine, New Hampshire, high 50s to high 60s elsewhere north; to low 70s south. Low temperatures teens to 20s.

Major farm activities: Plowing fields, cutting fire wood, general repairs.

NEW JERSEY: Temperature near normal 42° south, 44° north, 47° coastal. Extremes 21°; 75°. Precipitation below normal, average 0.18 in. north, 0.09 in. south, 0.07 in. coastal, heaviest 24 hour total 0.39 in. On 17th, 18th.

Light harvest of hearty fall vegetables, fall greens, soybeans, corn for grain. Apples, squash, sweetpotatoes moving from storage. Cider making active. Fall sown grain, cover crop condition mostly good.

NEW MEXICO: Warm, dry week with no measurable precipitation. Temperatures above normal.

Days suitable for fieldwork 6.2. Soil moisture 32% short, 64% adequate, 4% surplus. Great weather for harvest this week. Grain sorghum, corn, peanut harvest finishing up. Cattle fair to excellent, cheap fair to good. Range 4% poor, 51% fair, 41% good, 4% excellent.

NEW YORK: Temperatures close to normal, mainly in the mid 30s to mid 40s. Extremes 8° at Stillwater; 73° in Jamestown. Several areas broke the 70° mark on the 16th. Precipitation slightly below normal, none to 1.20 in. Most areas received between 0.25 to 0.75 in.

Corn for grain harvest continued active. Orchard clean up progressed. Fall plowing well advanced. Machinery repair, maintenance active.

NORTH CAROLINA: Temperatures 2 to 4° above normal across State. Precipitation negligible in all areas, with just a few hundredths reported.

Days suitable for fieldwork 5.8. Soil moisture 15% short, 80% adequate, 5% surplus. Pasture 9% poor, 34% fair, 59% good, 3% excellent. Livestock feed from pasture 66%. Harvested: Sorghum 87%; cotton 89%; soybeans 58%. Wheat emerged 42%. Planted: Wheat 65%; oats 81%; barley 88%; rye 76%. Crop condition: Wheat 28% fair, 72% good; oats 29% fair, 71% good; barley 33% fair, 67% good; rye 2% poor, 22% fair, 73% good, 3% excellent. Major activities: Harvesting corn, cotton, soybeans; planting small grains, land preparation. Other activities included: Seeding pastures, harvesting sorghum, soybeans, hay; cutting wood, cutting, tagging Christmas trees; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures 7 to 11° above normal. No precipitation received.

Soil moisture short. Marketing calves main activity. Pastures in poor condition. No snow cover.

OHIO: Unseasonably mild weather sandwiches between cool temperatures. Temperatures 1 to 3° above normal. Highs in upper 50s; lows in low to mid 30s. Precipitation variable; mostly 0.25 in. or less; few areas up to 0.40 in.

Days suitable for fieldwork 6.0. Soil moisture 1% short, 85% adequate, 14% surplus. Corn harvest moved so fast elevators had to pour it on the ground as dryers, other facilities became overworked. Harvested corn tested 21% moisture; down 1 point for the week. Winter wheat planting almost finished. Germination, emergence slow because of periodic cold weather. Stands rated mostly good. Sugarbeet harvest almost complete. Tobacco stripping in progress.

OKLAHOMA: Temperatures 4° above normal southeast to 11° above normal southwest. Precipitation 0.01 in. west central, none all other districts.

Days suitable for fieldwork 5.9. Topsoil 7% short, 90% adequate, 3% surplus. Subsoil 5% short, 95% adequate. Wheat 13% fair, 85% good, 2% excellent; 90% emerged, 90% 1989, 80% avg. Cattle grazing 5% of wheat acreage. Cotton 70% harvested, 60% 1989, 30% avg. Sorghum 90% harvested, 80%

1989, 75% avg. Soybeans 90% harvested, 80% 1989, 55% avg. Peanuts 99% harvested, 85% 1989, 80% avg. Pastures 68% fair, 30% good, 2% excellent. Cattle are in good condition, marketings are average, prices down slightly from preceding week. Insect activity is light.

OREGON: Temperatures 3° above normal west; 4° above normal east except isolated areas southwest below normal. Precipitation plentiful many areas west: up 1.90 to 3.10 in. along coast; up to 3.20 in. coast range; 1.60 to 2.50 in. interior western valleys; 0.80 to 1.20 southern Cascades. Precipitation 0.01 to 0.38 in. east.

Soil moisture adequate to surplus western valleys, coast; short to adequate Columbia Basin; adequate northeast; mostly adequate southeast, central areas. Winter wheat 51% fair, 49% good; 99% planted, 99% 1990, 96% avg.; 94% emerged, 95% 1990, 91% avg. Walnut, hazelnut harvest ended in south Willamette Valley. Few late apples being picked. Lime being applied to orchard crops in west. Livestock mostly good. Range, pasture mostly fair. Moisture, temperatures providing good conditions for pasture growth.

PENNSYLVANIA: Near normal temperatures, below normal precipitation. Temperature 41°, 1° below normal. Extremes 14°; 72°. Precipitation 0.24 in, 0.52 in below normal.

Days suitable for fieldwork 5. Soil moisture 2% short, 81% adequate, 17% surplus. Corn 98% mature, 96% 1989, 99% avg; 59% harvested, 63% 1989, 70% avg. Ensilage corn 98% harvested, 99% 1989, 100% avg. Corn 1% very poor, 6% poor, 18% fair, 43% good, 32% excellent. Soybean harvest 79% complete, 63% 1989, 72% avg. Soybean 1% very poor, 4% poor, 21% fair, 47% good, 27% excellent. Potato harvest 99% complete, 100% 1989, 100% avg. Fall plowing 92% complete, 99% 1989, 100% avg. Fourth cutting alfalfa 88% complete, 95% 1989. Quality of hay made during week mostly fair. Quality of feed being obtained from pasture 3% very poor, 27% poor, 45% fair, 25% good. Activities: Harvesting hay, haylage, potatoes, fruit, corn, corn silage, soybeans; fall plowing; maintaining machinery; caring for livestock.

PUERTO RICO: Rainfall 0.26 in. was 1.16 in. below normal. Highest weekly total 1.10 in. at Borinquen Airport, 0.82 in. at Pico Del Este Luquillo, 0.78 in. at Dorado. Highest 24 hour total 0.64 in. at Dorado. Divisional temperature 80° on the Coasts, 74 to 76° in the interior with mean station temperature 66° at Pico Del Este Luquillo to 83° at Roosevelt Roads N.S. Extremes 54°; 95°.

SOUTH CAROLINA: No measurable precipitation; temperatures 1° above normal across State.

Days suitable for fieldwork 5.5. Soil moisture 14% short, 86% adequate. Cotton 2% very poor, 16% poor, 78% fair, 4% good; 93% harvested, 80% 1989, 85% avg. Soybeans 8% very poor, 17% poor, 68% fair, 7% good; 93% shedding leaves, 97% 1989, 97% avg.; 90% matured, 96% 1989, 95% avg.; 47% harvested, 37% 1989, 43% avg. Sorghum fair to good, 86% harvested, 70% 1989, 77% avg. Peanuts fair, 93% harvested, 97% 1989, 94% avg. Wheat fair to good, 30% planted, 38% 1989, 40% avg.; 17% emerged, 18% 1989, 26% avg. Pastures 9% poor, 41% fair, 50% good.

SOUTH DAKOTA: Temperatures above normal Statewide, 17° above west, 5° above east. Extremes 10°; 79°. Only precipitation 0.02 in. northeast. Harvest season precipitation above average in Black Hills, northeast, below normal elsewhere. Range 2.34 in. below to 1.45 in. above normal.

Days suitable for fieldwork 5.8. Subsoil 28% critically short, 53% short, 19% adequate. Topsoil 28% critically short, 39% short, 33% adequate. Range, pasture 7% very poor, 32% poor, 38% fair, 19% good, 4% excellent. Winter wheat 8% very poor, 13% poor, 43% fair, 32% good, 4% excellent. Winter rye fair to good. Major activities: Fieldwork, combining, working cattle, fencing.

TENNESSEE: High pressure dominated most of week. Weak cold front 16th. Temperatures 5° below normal extreme northeast, 5 to 10° above normal west. Dry until 16th when light showers crossed State.

Days suitable for fieldwork 5.4. Soil moisture 7% short, 90% adequate, 3% surplus. Cotton 98% harvested, 94% 1989, 96% avg. Soybeans 84% harvested, 90% 1989, 82% avg. Burley tobacco 70% stripped, 72% 1989, 68% avg. Pastures 1% poor, 34% fair, 59% good, 6% excellent. Cattle 16% fair, 79% good, 5% excellent. Planting fall crops; harvesting cotton, soybeans; stripping tobacco main activities.

TEXAS: High pressure levels brought fair skies to State early week very warm days, cool nights. Gulf moisture started return midweek, morning fog developed over parts south, then over much of state. Temperatures unseasonably warm. Beautiful, fall weather prevailed weekend. Temperatures near to above normal for week. Rainfall totals below normal.

Crops: Grain sorghum harvest resumed midweek, nearing completion across State with remaining fields mostly Plains. Cotton harvest continued across Plains after last week's delay. Yields, grades good to excellent Plains, some areas better than first expected. Producers would like hard freeze to enhance continued harvest. Wet fields slowed harvest other areas, yields expected remain fair to good. Cotton 95% open bolls, 99% 1989, 91% avg. Small grains making good progress. Some replanting drier regions. Later seeded fields excellent growth, earlier planted fields sustained by last week's rain. Winter grazing wheat underway Plains. Wheat 93% planted, 96% 1989, 95% avg. Soybean harvest resumed most growing areas. Yields fair to good. Above average yields Upper Coast on fields with good stands. Wet fields continued delay harvest activities. Peanut harvest continued across state. Some record yields Plains, most yields generally fair to good. Yields other parts State poor to good with good quality nuts. Other field crops: Peanuts 72% harvested, 73% 1989, 71% avg. Pecans 25% harvested, 35% 1989, 40% avg. Sugarbeets 48% harvested, 76% 1989, 63% avg. Sunflowers harvested 55%, 58% 1989, 77% avg. Oats planted 71%, 88% 1989, 86% avg.

Commercial Vegetables: Rio Grande Valley, onion, tomato growth doing well. Pepper harvest continued. Reported whitefly damage problem. San Antonio Winter Garden, fall vegetables continued, excellent growth. Last week's rain reduced irrigation needs. Some vegetable mildew evident because early morning humidity. Eastern areas vegetable harvest continued. Cool season greens producing well. Some lice, aphid damage. Limited supplies turnips. Trans Pecos, bell pepper harvest continued. Land preparation underway. Pecan harvest resumed many areas. Yields lighter than earlier expected northern areas, quality remained fair. Large crop Cross Timbers, quality good, yields fair to good. Generally, poor crop Blacklands, east. Insect damage coupled with poor nut development yielded light crop. In other areas shelling percents better than expected. Pecan set fair to good, quality good.

Range and Livestock: Winter livestock activities underway. Range cattle good condition, some stockers moved to winter pasture. Haying operations virtually complete, some producers

Blacklands still scrambling for hay. Moisture levels holding for most ranges, supplemental feeding continued. Some prussic acid poisoning Low Plains. Range, pasture 2% very poor, 6% poor, 43% fair, 40% good, 9% excellent.

UTAH: A few isolated light showers. Temperature maximums throughout State 11° above normal, minimums 4° above normal.

Generally good weather for fall farming activities. Fall seeded wheat in mostly fair to good condition. Winter range feed in poor to fair condition. Cattle, sheep are in fair to good. Major farm activities include: Corn grain harvesting, fall plowing, working livestock.

VIRGINIA: Temperatures mostly above normal. Extremes 22°; 75°. Precipitation 0.75 to 1.75 in.

Days suitable for fieldwork 5.5. Topsoil 8% short, 89% adequate, 3% surplus. Corn for grain 94% harvested, 93% 1989, 90% avg. Soybeans 75% harvested, 51% 1989, 50% avg. Winter wheat 83% seeded, 73% 1989, 71% avg. Winter grain 6% poor, 36% fair, 56% good, 2% excellent. Pasture 6% poor, 36% fair, 56% good, 2% excellent. Livestock mostly good. Forage from pastures, winter grazing crops dairy cattle 23%, beef cattle 80%, sheep 84%. Harvesting peppers, cabbage. Grading, marketing burley tobacco. Cutting Christmas trees.

WASHINGTON: Temperatures 5 to 11° above normal, east 2 to 8° above normal west. Precipitation none to 0.33 in. east; 0.89 in. to 5.76 in. west.

Days suitable for fieldwork 6.0. Soil moisture 35% short, 64% adequate, 1% surplus. Range, pasture 40% poor, 20% fair, 40% good. Hay, other roughage 1% short, 84% adequate, 15% surplus. Winter wheat planted 100%, 100% 1989, 100% avg. Winter wheat

emerged 98%, 99% 1989, 95% avg. Potatoes harvested 100%, 100% 1989, 100% avg. Corn for grain harvested 71%, 53% 1989, 77% avg. Winter wheat 5% poor, 35% fair, 60% good. Barley 5% poor, 55% fair, 40% good. Farmers have finished most fieldwork for the year. Some corn for grain remains to be harvested. Heavy rains in northwestern areas caused severe flooding. Many areas of central areas remain very dry. Livestock were placed on winter feeding programs. Cattle were being worked, calves were being weaned, marketed.

WEST VIRGINIA: Temperature 43°, 2 to 6° above normal. Extremes 15°; 74°. Precipitation 0.17 in., 0.32 to 0.59 in. below normal.

Days suitable for fieldwork 5.7. Soil moisture 4% short, 96% adequate. Pasture 41% fair, 57% good, 2% excellent. Cattle, sheep good. Corn 3% fair, 91% good, 6% excellent; 85% harvested. Farm activities: Corn harvesting, livestock marketing, farm maintenance, stripping tobacco.

WISCONSIN: Temperature 42°, 10° above normal. Extremes 10°; 71°. Precipitation none to trace.

Days suitable for fieldwork 6.8. Soil moisture 4% short, 80% adequate, 16% surplus. Corn for grain 77% harvested, 96% 1989, 85% avg. Fall tillage 60% complete, 67% 1989, 59% avg. A good week for corn harvest, plowing.

WYOMING: Temperatures 11° above normal. No precipitation.

Corn harvest continues. Sugarbeet harvest windup stages. Winter wheat fair to good. Additional moisture needed for good development. Livestock fair to mostly good. Culling, movement to winter pastures, markets continues.

International Weather and Crop Summary

HIGHLIGHTS

November 11-17, 1990

WESTERN USSR ... Light precipitation covers most winter grain areas.

NORTHWESTERN AFRICA ... Moderate to heavy showers cover crop regions of Algeria and Tunisia. Dryness persists in Morocco.

EUROPE ... Rain and unseasonably warm weather favor late-season development of winter crops across the north. Cool weather in sections of the east induces hardening of winter crops.

EASTERN ASIA ... Moderate to heavy rain slows late-crop rice harvest in southern China. Warm weather speeds growth of winter crops in the east.

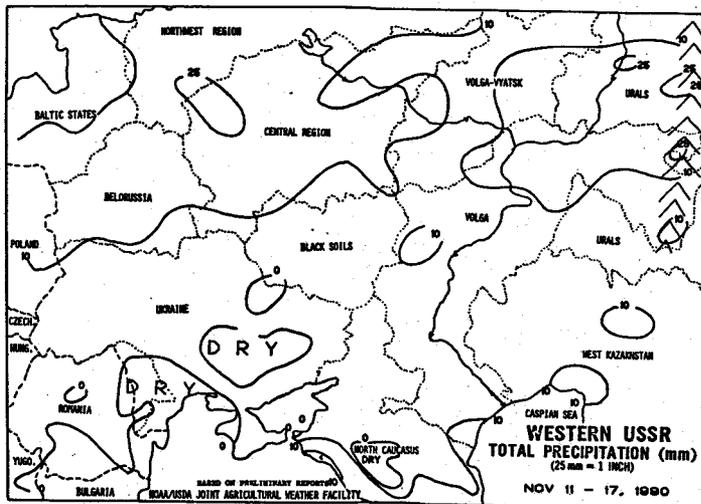
SOUTH ASIA ... Dry, warm weather favors winter wheat planting and summer crop harvests.

SOUTHEAST ASIA ... Typhoon Mike reaches Vietnam after hitting the southern Philippines.

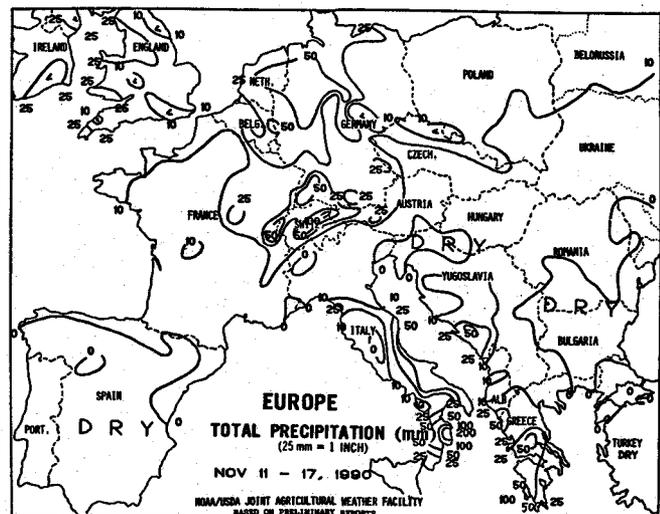
SOUTH AFRICA ... Beneficial showers continue in easternmost corn areas, but dryness elsewhere causes further planting delays.

SOUTH AMERICA ... In Argentina, summer crop planting advances in most areas, although northern corn areas remain too wet. Soaking rain also delays fieldwork in southern Brazil.

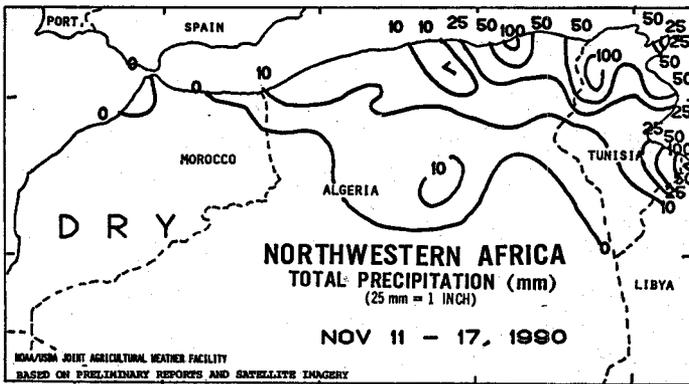
AUSTRALIA ... Light rain favors late-planted winter grains across the south. Continuing dryness stresses nonirrigated crops in the east.



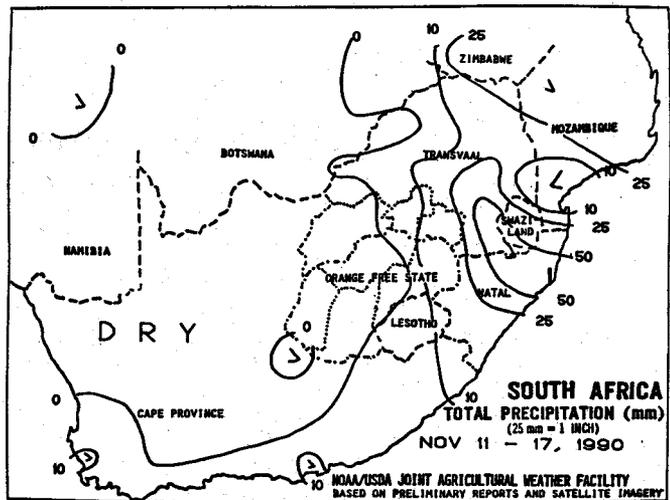
WESTERN USSR ... Precipitation was light over most winter grain areas, especially in the south. Weekly precipitation totals averaged less than 5mm across the Ukraine, North Caucasus, most of the Black Soils Region, and the Volga Valley. Soil moisture reserves are low in the Ukraine and North Caucasus. Precipitation amounts increased further north, with 10-25mm of moisture covering the extreme northern Black Soils Region, the Central Region, Belorussia, and the Baltic States. Locally heavier precipitation (25-45mm) fell over the northern half of the Baltic States. Winter grains were dormant in the north and were entering the dormant state in the south. Temperatures generally averaged near to slightly above normal across the region, except in the northeast, where below-normal temperatures prevailed in the Urals.



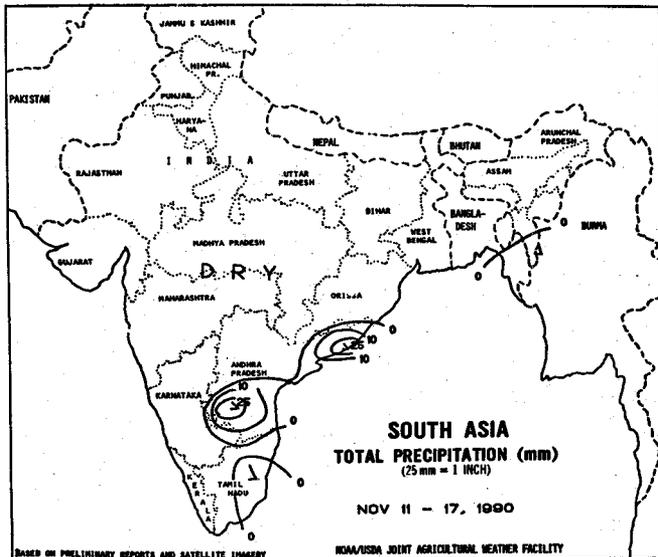
EUROPE ... Widespread rain (10-45mm) and unseasonably warm temperatures (mean temperatures 2-6 degrees C above normal) favored late-fall vegetative growth of winter grains from England eastward to Poland. In contrast, mostly dry and cool weather (mean temperatures 1-4 degrees C below normal) across crop areas of Yugoslavia, Hungary, Romania, and Bulgaria induced hardening of most winter crops. Winter grains in eastern Europe normally enter dormancy in late November or in December. Elsewhere, scattered heavy rain (20-70mm) in southern Italy, southern Yugoslavia, Albania, and western Greece continued to help replenish soil moisture and irrigation reservoir levels. Mostly dry weather in the Iberian Peninsula favored winter grain planting.



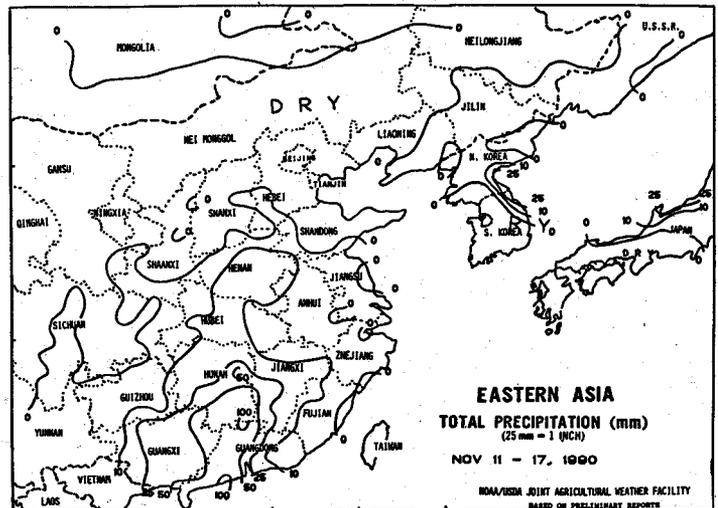
NORTHWESTERN AFRICA ... Widespread, soaking rains continued for the second week over winter grains regions of eastern Algeria and Tunisia, boosting planting moisture but possibly causing some local flooding. Amounts ranged from 15 to 50mm over most of eastern Algeria, with generally heavier showers (40-125mm) covering Tunisian crop regions. Further west, mostly light rain (5-22mm) continued over Algeria's western crop areas, but dry weather dominated Morocco. More rain is needed across the western grain areas before planting can begin.



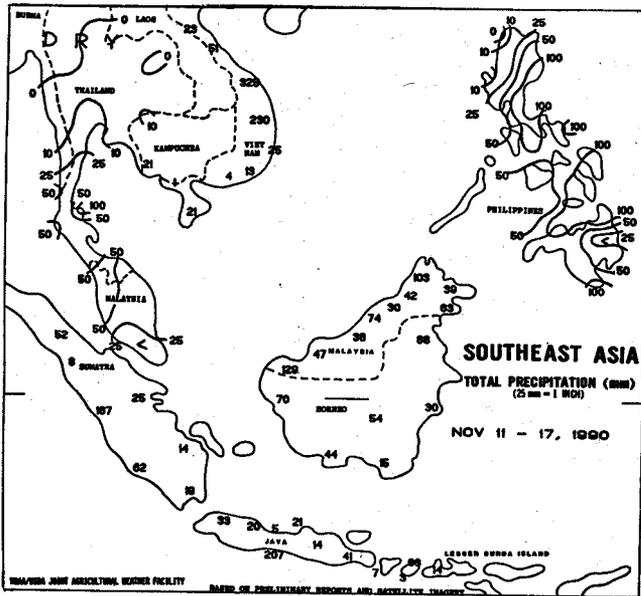
SOUTH AFRICA ... Light to moderate rain (10-34mm) continued over South Africa's easternmost corn regions, benefiting crop emergence and establishment. However, dry, warmer-than-normal weather persisted from primary corn areas of the central Maize Triangle westward, causing further planting delays. While South African corn planting can take place through December, crops planted after November are at higher risk of heat or drought stress during the reproductive and filling stages of development. November rainfall to date has been concentrated over corn areas that historically produce less than 25 percent of the total crop. Elsewhere, light to moderate showers (10-65mm) covered Natal's crop areas, but in the Cape Province, only local coastal areas received more than 10mm.



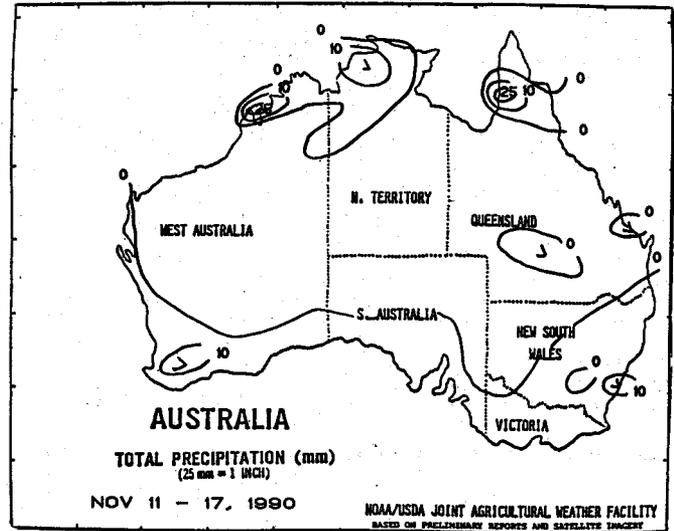
SOUTH ASIA ... Dry, warmer-than-normal weather dominated the region, with only isolated areas of southern India receiving more than 10mm. The seasonable weather allowed winter wheat planting to progress across Pakistan and northern India, and elsewhere favored summer crop maturation and harvest.



EASTERN ASIA ... Remnants of Typhoon Mike brought moderate to heavy rain (10-70mm) to south-central China, slowing late-crop rice harvest, but increasing irrigation reservoir levels. Scattered, very heavy rain (100-200mm) in southwestern Guangdong may have caused localized flooding. In the North China Plain, light to moderate rain (5-20mm) favored winter crops in sections of Henan, and northern Anhui, while northern sections of the region remained mostly dry. Winter crop growth in much of eastern China was accelerated by much above-normal temperatures (mean temperatures 4-7 degrees C above normal), which also covered Manchuria and the Korean Peninsula. In Japan, widespread rain (5-40mm) fell across northern crop areas, while the south remained dry.



SOUTHEAST ASIA ... Typhoon Mike rolled through grain and sugarcane areas of the south-central Philippines on the 12th and 13th with sustained winds of 90-110 knots, causing variable amounts of crop damage. Heavy showers (100-230mm) accompanied the storm, reaching as far north as southern Luzon. Mike reached Vietnam's central coast by the 16th with sustained winds of 80 knots, causing more coastal wind and flooding damage before veering to the north. On the 11th, Tropical Storm Nell hit roughly the same area with sustained winds of about 40 knots. Total weekly rainfall over central Vietnam from both storms ranged from 100 to 325mm. In Thailand, rainfall was light (5-25mm) over rice areas from Bangkok eastward through the Khorat Plateau, but drier weather prevailed further north. Moderate rain (25-80mm) continued over peninsular Thailand and Malaysia.



AUSTRALIA ... Scattered light rain (less than 10mm) fell over crop areas of Western Australia, South Australia, and Victoria, favoring late-planted winter grains still in the filling stage. Mostly dry weather continued across eastern summer crop and sugarcane growing areas of Queensland and northern New South Wales, favoring winter grain harvest but further stressing early vegetative growth of nonirrigated summer crops. Cotton planting in the region is reportedly near completion. Mean temperatures ranged from above normal in Queensland to slightly below normal in Western and South Australia.



SOUTH AMERICA ... In Argentina, substantial rain (25-47mm) fell in central and northeastern Buenos Aires, slowing planting progress. Rainfall diminished rapidly to the west, with generally 10mm or less in southwestern Santa Fe, southern Cordoba, and northwestern Buenos Aires. Periodic wetness has caused some planting delays in the primary corn and soybean areas. A heavy shower (95mm) in southern Cordoba soaked an isolated western crop area. Summer crop planting is nearing completion, except for soybeans and late cotton in the north. Locally heavy showers (50-71mm) in northern Argentina hampered late cotton planting and early wheat harvesting in southern Chaco and northern Santa Fe. In south-central Brazil, more rain in Rio Grande do Sul, Parana, and southern Mato Grosso do Sul slowed fieldwork. Weekly rainfall ranging from 50 to 100mm kept southern soybean areas unfavorably wet for planting.

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