

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

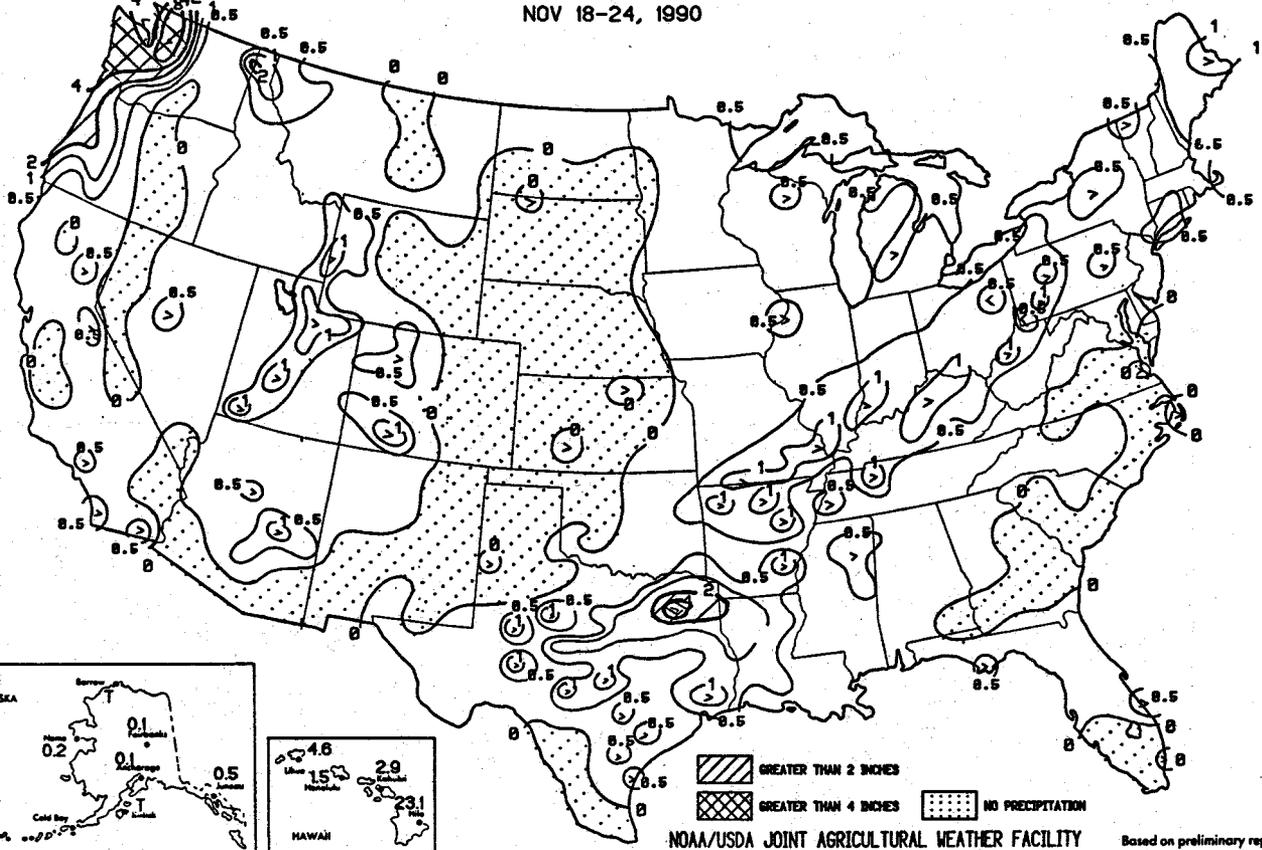
Volume 77, No. 47

Washington, D.C.

November 27, 1990

TOTAL PRECIPITATION, INCHES

NOV 18-24, 1990



HIGHLIGHTS

November 18-24, 1990

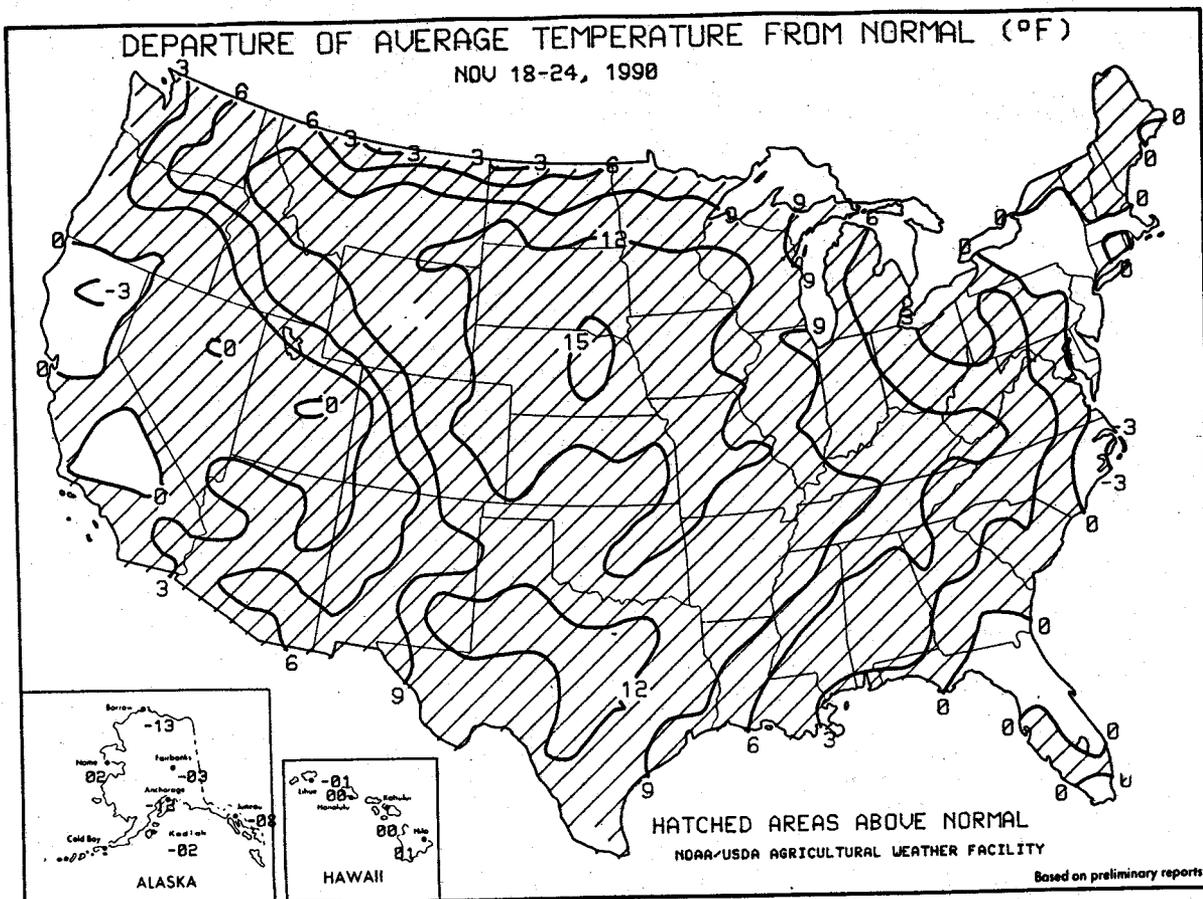
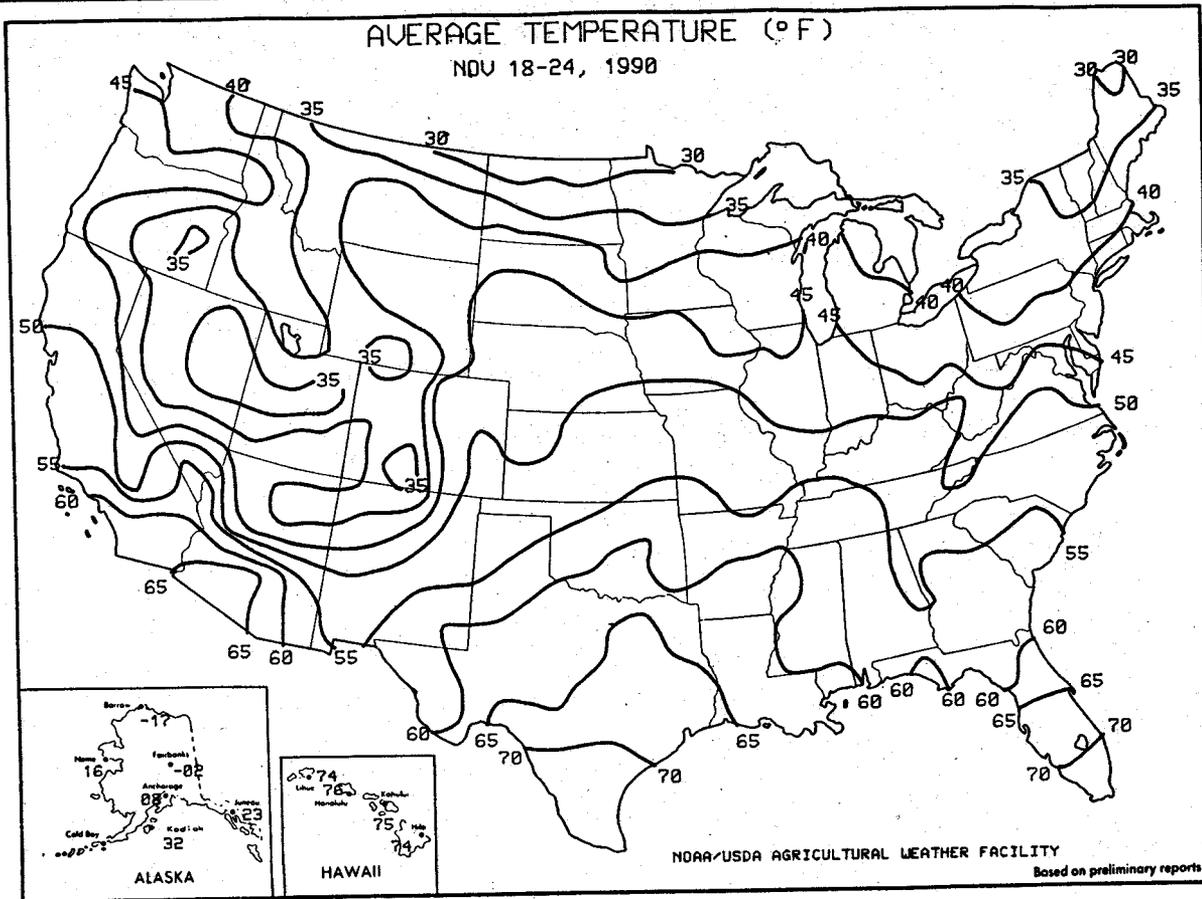
Unseasonable late-autumn warmth continued over most of the Nation this week. Early in the week, snow slowly abated in **eastern New England**. A cold front brought widespread precipitation to the **West**, including **southern California**, as it tracked from the **Pacific Northwest** into the **Great Plains**. The weather pattern changed and amplified during the midweek to late-week period. Record warmth spread through the **central and northern Great Plains** Wednesday. Local flooding occurred Wednesday night in **northeastern Texas**. Multiple storm systems battered **western Washington** with flood-producing rains and high winds from midweek onward. High winds also fanned forest fires in the **central and northern Rockies**. Meanwhile, light rain spread to the **Great Lakes** and the

Atlantic coast by Friday. By week's end, single-digit cold spilled into the **northern Plains**.

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National Weather Data for Selected Cities

Weather Data for the Week Ending November 24, 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	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	71	40	75	31	56	5	.1	-.8	0	7.8	81	40.2	83	91	35	0	1	2	1	0	
MOBILE	73	46	77	38	60	5	.1	-.9	0	5.5	46	50.6	87	97	48	0	0	0	0	0	
MONTGOMERY	73	40	79	31	56	5	.2	-.9	0	4.4	48	49.9	115	100	40	0	2	1	0	0	
AK ANCHORAGE	15	0	30	-10	12	-12	.1	-.1	1.1	8.1	163	16.1	118	94	78	0	7	2	0	0	
BARROW	-11	-22	-6	-28	-17	-12	.1	-.1	1.1	8.1	87	4.5	104	77	63	0	7	0	0	0	
FAIRBANKS	6	-10	20	-35	8	-28	.1	-.1	1.1	3.3	138	15.3	161	77	74	0	7	3	0	0	
JUNEAU	28	18	40	9	23	8	.7	-.4	0	20.0	109	51.8	109	82	53	0	6	2	1	1	
KODIAK	39	25	52	11	32	8	.7	-.4	0	16.6	93	60.9	113	75	44	0	7	1	0	0	
NOME	23	9	32	-6	16	-8	.2	-.3	0	5.6	128	20.9	152	94	68	0	7	4	1	0	
AZ PHOENIX	78	54	84	48	66	6	.1	-.1	0	1.3	79	7.3	121	67	26	0	0	0	0	0	
PRESCOTT	62	29	70	23	45	5	.3	-.0	0	2.7	71	15.1	69	24	0	0	4	0	0	0	
TUCSON	77	48	86	38	62	6	.7	-.1	0	2.3	87	13.2	133	65	23	0	0	0	0	0	
YUMA	78	55	85	52	67	6	.5	-.1	0	1.0	151	2.2	107	40	21	0	0	0	0	0	
AR FORT SMITH	70	46	78	36	58	5	.5	-.1	0	10.8	117	55.0	152	93	50	0	0	0	1	0	
LITTLE ROCK	70	51	79	40	61	12	.6	-.1	0	13.1	125	54.3	124	72	52	0	0	0	1	1	
CA BAKERSFIELD	63	42	71	35	52	-2	.1	-.1	0	2.2	19	2.8	59	95	46	0	0	0	2	0	
EUREKA	56	44	61	41	50	0	.4	-.1	0	3.8	46	25.2	82	95	74	0	0	0	3	0	
FRESNO	64	39	67	33	51	0	.7	-.3	0	1.6	16	7.6	90	88	36	0	0	0	1	0	
LOS ANGELES	73	53	84	49	63	0	.3	-.4	0	3	5.1	52	85	39	0	0	0	0	0	0	
REDDING	62	33	69	28	47	0	.3	-.4	0	32	23.7	73	99	42	0	0	4	1	0	0	
SACRAMENTO	63	37	66	32	50	-1	.1	-.1	0	2.3	7	11.7	87	96	41	0	1	1	0	0	
SAN DIEGO	70	54	78	49	62	1	.5	-.1	0	7	42	6.5	83	85	46	0	0	0	2	0	
SAN FRANCISCO	61	47	66	44	54	1	.1	-.1	0	18	8.4	55	90	57	0	0	0	0	0	0	
CO DENVER	63	35	74	27	49	12	.0	-.2	0	3.5	125	16.2	112	53	16	0	3	0	0	0	
GRAND JUNCTION	52	27	60	18	40	3	.0	-.1	0	2.2	108	6.9	97	75	31	0	4	1	0	0	
PUEBLO	67	30	81	19	49	11	.0	-.1	0	2.9	144	15.3	147	66	16	0	5	0	0	0	
CT BRIDGEPORT	50	37	53	31	43	0	.6	-.4	0	9.3	97	40.1	109	74	50	0	1	3	0	0	
HARTFORD	49	32	52	27	40	1	.4	-.6	0	13.5	128	48.3	123	83	34	0	1	1	0	0	
DC WASHINGTON	58	38	68	29	48	1	.1	-.6	0	6.3	76	36.1	103	83	34	0	1	1	1	1	
FL APALACHICOLA	71	47	73	42	59	0	.5	-.2	0	8.4	60	36.2	71	96	52	0	0	2	0	0	
DAYTONA BEACH	74	52	79	46	63	-1	.2	-.4	0	8.3	62	35.7	78	96	52	0	0	0	0	0	
JACKSONVILLE	75	45	81	36	60	-1	.2	-.3	0	8.2	70	29.1	60	98	58	0	0	0	0	0	
KEY WEST	77	68	80	64	73	-2	.1	-.6	0	13.3	95	35.1	95	86	56	0	0	0	1	0	
MIAMI	80	62	84	60	71	-1	.1	-.5	0	9.9	57	50.6	92	87	45	0	0	0	0	0	
ORLANDO	76	55	79	49	66	0	.1	-.3	0	5.4	49	30.7	65	95	47	0	0	3	0	0	
TALLAHASSEE	75	40	78	29	57	0	.1	-.7	0	7.9	65	41.3	70	99	40	0	1	1	0	0	
TAMPA	78	54	82	49	66	1	.3	-.1	0	5.6	57	34.2	78	95	46	0	0	0	2	0	
WEST PALM BEACH	80	61	84	58	71	0	.0	-.6	0	15.9	79	53.3	94	90	48	0	0	0	0	0	
GA ATLANTA	69	44	72	37	57	6	.0	-.8	0	10.3	124	54.4	125	84	40	0	0	1	0	0	
AUGUSTA	71	38	74	30	55	2	.0	-.5	0	17.7	250	37.9	97	99	38	0	2	0	0	0	
MACON	71	39	76	32	55	1	.0	-.6	0	9.5	135	32.4	81	98	39	0	2	1	0	0	
SAVANNAH	71	45	75	35	58	2	.0	-.6	0	15.9	178	40.6	87	94	42	0	0	0	0	0	
HI HILO	79	69	85	69	74	1	23.1	19.5	10.6	83.4	294	179.4	160	98	79	0	0	0	7	4	
HONOLULU	82	70	86	59	76	0	1.5	-.7	0	4.1	82	14.5	76	90	63	0	0	0	4	1	
KAHULUI	81	69	88	66	75	0	2.9	2.4	-.7	4.5	162	20.2	135	96	66	0	0	0	6	4	
LIHUE	78	71	82	61	74	-1	4.6	3.3	1.7	12.3	110	33.4	90	92	73	0	0	0	6	3	
ID BOISE	51	34	62	29	43	5	.2	-.1	0	1.4	61	10.9	111	84	46	0	3	3	0	0	
LEWISTON	53	44	63	37	49	10	.1	-.2	0	1.5	57	9.9	88	67	44	0	0	2	0	0	
POCATELLO	49	32	58	27	40	7	.4	-.2	0	1.4	59	8.8	93	78	48	0	3	0	0	0	
IL CHICAGO	55	36	66	31	45	7	.3	-.3	0	7.7	99	37.7	120	86	49	0	2	2	1	1	
MOLINE	58	34	67	28	46	10	.5	-.1	0	5.2	65	46.3	134	90	46	0	3	0	1	0	
PEORIA	56	38	67	33	47	10	.4	-.1	0	7.0	90	47.3	146	95	58	0	0	0	0	0	
QUINCY	58	40	68	33	49	10	.2	-.2	0	7.3	79	36.5	102	82	48	0	0	0	1	0	
ROCKFORD	55	33	64	26	44	9	.2	-.3	0	6.4	75	40.8	119	89	52	0	4	0	0	0	
SPRINGFIELD	57	40	71	36	49	9	.3	-.2	0	8.3	113	45.6	145	97	68	0	0	0	2	0	
IN EVANSVILLE	63	39	74	33	51	8	.7	-.1	0	9.2	118	44.0	118	95	51	0	0	1	1	0	
FORT WAYNE	55	33	68	28	44	6	.4	-.3	0	8.8	122	45.6	145	86	50	0	2	0	3	0	
INDIANAPOLIS	58	37	73	33	48	8	.7	-.1	0	8.8	115	41.0	116	94	57	0	0	3	1	0	
SOUTH BEND	56	36	67	30	46	8	.2	-.4	0	13.4	155	46.2	134	82	47	0	3	2	0	0	
IA DES MOINES	62	36	74	31	49	13	.7	-.3	0	5.1	79	41.2	141	85	45	0	2	1	0	0	
SIOUX CITY	61	33	68	30	47	14	.7	-.2	0	3.2	64	23.8	97	87	40	0	4	1	0	0	
WATERLOO	58	31	73	26	45	12	.7	-.3	0	3.9	54	39.9	127	87	46	0	4	1	0	0	
KS CONCORDIA	65	40	73	33	53	14	.7	-.2	0	3.5	61	25.0	95	71	37	0	0	0	1	0	
DODGE CITY	67	35	80	26	51	11	.7	-.2	0	2.0	54	20.3	103	70	23	0	3	1	0	0	
GOODLAND	65	34	74	25	49	14	.0	-.1	0	3.4	120	18.8	120	67	21	0	3	0	0	0	
TOPEKA	66	37	76	28	52	12	.7	-.4	0	5.9	76	33.0	104	93	42	0	2	0	0	0	
WICHITA	65	39	71	30	52	10	.7	-.3	0	4.6	64	18.6	68	88	48	0	1	0	0	0	
KY BOWLING GREEN	64	43	73	29	54	9	.7	-.2	0	12.5	138	41.2	94	93	49	0	1	2	1	1	
LEXINGTON	59	41	70	29	50	7	1.0	-.2	0	9.0	111	41.7	101	89	52	0	1	1	1	1	
LOUISVILLE	62	40	74	33	51	7	.8	-.0	0	8.5	98	48.3	123	94	50	0	0	2	1	1	
LA ALEXANDRIA	75	51	79	38	63	8	.9	-.1	0	9.8	107	51.3	110	93	46	0	0	0	1	1	
BATON ROUGE	76	48	82	38	62	5	.1	-.9	0	9.7	96	60.0	120	95	43	0	0	2	0	0	
LAKE CHARLES	76	54	79	43	65	6	.4	-.6	0	14.4	114	49.4	103	99	52	0	0	0	2	0	
NEW ORLEANS	74	49	79	43	62	3	.2	-.8	0	9.3	80	50.5	95	99	55	0	0	1	0	0	

Based on 1951-80 normals

Weather Data for the Week Ending November 24, 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	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	75	51	81	40	63	10	1.7	.8	1.7	14.0	157	59.6	153	92	48	0	0	1	1
ME CARIBOU	33	28	38	21	31	2	.7	.8	.3	17.1	188	41.3	127	92	77	0	0	4	0
PORTLAND	45	31	50	24	38	2	.8	.3	.3	18.1	168	44.8	118	90	51	0	6	4	3
MD BALTIMORE	57	34	65	27	45	1	1.1	1.1	1.1	5.7	63	37.0	98	76	34	0	3	2	0
SALISBURY	56	33	64	27	45	1	1.1	1.1	1.1	8.6	85	36.5	89	85	33	0	5	0	0
MA BOSTON	48	36	52	32	42	1	1.1	1.1	1.1	10.4	104	43.3	113	80	49	0	1	2	0
CHATHAM	47	37	52	34	42	1	1.1	1.1	1.1	7.2	66	38.7	95	89	67	0	0	4	0
MI ALPENA	47	31	56	22	39	6	.6	.6	.6	6.9	99	28.7	108	93	53	0	5	2	0
DETROIT	52	31	61	25	42	4	.4	.4	.4	12.4	201	37.8	136	89	50	0	5	3	0
FLINT	52	30	62	21	41	4	.4	.4	.4	9.8	158	29.0	110	86	53	0	5	3	0
GRAND RAPIDS	53	33	63	26	43	7	.7	.7	.7	13.3	164	36.6	120	90	52	0	4	3	1
ROUGHTON LAKE	45	31	54	24	38	5	.5	.5	.5	7.4	107	27.9	109	86	58	0	5	2	0
LANSING	53	30	63	24	42	5	.5	.5	.5	12.8	191	32.6	122	87	51	0	5	2	0
MARQUETTE	45	29	56	22	37	9	.4	.4	.4	10.6	111	30.6	89	86	58	0	5	3	0
MUSKEGON	53	34	64	27	44	6	.4	.4	.4	11.4	143	32.5	116	88	53	0	4	1	0
SAULT ST. MARIE	44	32	56	26	38	8	.8	.8	.8	10.9	117	31.9	106	96	66	0	4	4	1
MN ALEXANDRIA	49	28	59	16	38	12	1.1	1.1	1.1	3.2	63	20.5	87	89	45	0	5	2	0
DULUTH	44	26	64	13	35	10	.3	.3	.3	10.4	152	32.7	118	88	57	0	5	4	0
INT'L FALLS	39	21	60	5	30	8	.3	.3	.3	3.0	51	18.8	82	90	59	0	6	4	0
MINNEAPOLIS	55	31	67	25	43	13	.3	.3	.3	3.4	64	31.7	127	74	40	0	4	1	0
ROCHESTER	56	31	69	24	43	13	.3	.3	.3	3.5	50	42.2	155	82	46	0	4	1	0
MS GREENWOOD	73	48	79	35	60	9	.3	.3	.3	10.6	110	45.2	97	90	46	0	0	0	0
JACKSON	75	42	80	30	59	6	.3	.3	.3	8.4	95	46.7	102	99	40	0	1	2	0
MERIDIAN	75	40	79	32	58	5	.4	.4	.4	6.2	71	57.5	123	99	36	0	1	2	0
MO CAPE GIRARDEAU	65	43	71	32	54	10	1.1	1.1	1.1	9.1	101	44.2	110	96	54	0	1	3	1
COLUMBIA	62	42	73	35	52	10	1.1	1.1	1.1	4.6	51	48.3	140	86	47	0	0	2	0
KANSAS CITY	65	41	73	34	53	11	.3	.3	.3	6.4	72	39.2	114	82	41	0	0	2	0
SAINT LOUIS	62	45	75	40	54	11	.3	.3	.3	7.4	106	36.9	119	83	45	0	0	2	0
SPRINGFIELD	63	46	72	38	55	12	.3	.3	.3	12.1	124	56.0	154	88	54	0	0	2	0
MT BILLINGS	57	30	66	17	43	11	.3	.3	.3	1.4	46	10.7	77	63	27	0	4	2	0
GLASGOW	45	22	52	12	33	7	.3	.3	.3	.6	38	6.3	60	85	45	0	7	2	0
GREAT FALLS	49	28	55	11	39	7	.2	.2	.2	.8	34	13.2	94	72	35	0	4	1	0
HAVRE	46	19	59	10	33	5	.1	.1	.1	.4	18	5.8	52	87	46	0	7	0	0
HELENA	44	29	62	20	39	10	.1	.1	.1	.5	26	7.9	74	72	34	0	4	2	0
KALISPELL	44	30	51	22	37	8	.4	.4	.4	21.8	713	37.6	271	90	50	0	4	5	0
MILES CITY	53	28	60	16	40	11	.1	.1	.1	1.4	56	8.7	64	87	38	0	7	1	0
MISSOULA	46	34	56	26	40	10	.2	.2	.2	1.5	60	12.2	104	85	49	0	3	2	0
NE GRAND ISLAND	64	35	72	29	50	15	.2	.2	.2	2.4	57	25.8	116	79	30	0	3	0	0
LINCOLN	65	35	70	30	50	14	.2	.2	.2	3.0	56	25.5	98	80	33	0	4	0	0
NORFOLK	62	34	72	27	48	15	.1	.1	.1	3.7	92	26.2	115	82	35	0	4	0	0
NORTH PLATTE	63	29	71	23	46	13	.2	.2	.2	2.4	80	15.5	83	84	24	0	6	0	0
OMAHA	62	34	68	33	51	14	.2	.2	.2	3.9	59	23.2	79	73	48	0	0	0	0
SCOTTSBLUFF	59	40	68	27	46	13	.0	.0	.0	3.0	133	17.1	122	65	29	0	3	0	0
VALENTINE	60	30	72	24	45	14	.0	.0	.0	1.5	59	16.5	99	76	26	0	5	0	0
NV ELY	51	15	65	4	33	2	.2	.2	.2	1.7	94	8.4	104	84	32	0	7	1	0
LAS VEGAS	66	43	73	35	54	3	.0	.0	.0	.5	51	3.8	103	46	20	0	0	0	0
RENO	56	25	65	17	41	3	.3	.3	.3	.4	38	4.7	80	80	32	0	5	0	0
WINNEMUCCA	54	21	65	8	38	2	.1	.1	.1	.4	23	5.7	85	79	29	0	7	1	0
NH CONCORD	44	28	49	19	36	1	.1	.1	.1	10.5	115	37.2	115	91	51	0	5	1	0
NJ ATLANTIC CITY	52	31	56	25	42	-3	.1	.1	.1	6.5	73	33.1	89	87	45	0	5	1	0
NM ALBUQUERQUE	61	34	66	26	47	6	.2	.2	.2	1.9	95	9.5	130	73	24	0	3	1	0
CLOVIS	69	39	78	35	54	10	.2	.2	.2	5.6	137	12.8	78	75	24	0	0	0	0
ROSWELL	74	41	84	32	58	13	.0	.0	.0	2.4	77	7.3	72	69	19	0	1	0	0
NY ALBANY	44	30	50	25	37	0	.4	.4	.4	10.1	118	42.5	133	89	57	0	5	2	0
BINGHAMTON	42	29	51	19	35	-1	.4	.4	.4	13.2	150	40.8	123	94	60	0	5	3	0
BUFFALO	47	31	59	22	39	1	.5	.5	.5	10.7	118	42.0	127	92	51	0	5	3	1
NEW YORK	50	40	54	32	45	0	.5	.5	.5	9.7	100	46.3	121	79	47	0	1	2	0
ROCHESTER	46	29	59	19	37	-1	.4	.4	.4	9.7	133	35.7	127	96	57	0	6	1	0
SYRACUSE	46	29	59	17	37	-1	.7	.7	.7	12.4	136	43.9	126	92	55	0	5	3	1
NC ASHEVILLE	65	35	67	26	50	5	.7	.7	.7	15.4	164	55.0	138	97	37	0	2	2	0
CHARLOTTE	67	41	73	34	54	5	.7	.7	.7	18.7	220	45.9	118	83	32	0	0	1	0
GREENSBORO	65	38	70	30	51	5	.7	.7	.7	15.4	175	39.1	102	79	34	0	2	0	0
HATTERAS	59	42	66	35	51	-4	.1	.1	.1	7.6	53	41.8	83	91	53	0	0	1	0
NEW BERN	64	38	69	30	51	-2	.7	.7	.7	10.0	86	48.3	99	87	40	0	2	0	0
RALEIGH	65	37	71	27	51	3	.2	.2	.2	7.0	85	34.0	90	90	30	0	2	1	0
WILMINGTON	68	39	72	30	54	0	.0	.0	.0	10.1	90	50.2	102	94	36	0	1	0	0
ND BISMARCK	48	23	55	18	35	10	.2	.2	.2	1.5	61	12.2	84	87	44	0	7	0	0
FARGO	48	24	56	14	36	11	.2	.2	.2	3.0	79	16.2	87	78	41	0	6	0	0
GRAND FORKS	44	21	54	7	32	9	.2	.2	.2	2.2	57	15.4	88	80	47	0	7	0	0
WILLISTON	44	19	56	13	31	6	.1	.1	.1	.5	21	8.9	69	88	47	0	7	2	0
OH AKRON-CANTON	51	32	58	26	41	2	.4	.4	.4	18.2	254	58.9	181	92	53	0	5	2	0
CINCINNATI	58	39	70	29	49	8	.7	.7	.7	11.1	140	49.2	136	87	51	0	1	2	1
CLEVELAND	52	30	59	25	41	1	.7	.7	.7	14.5	193	45.2	142	94	49	0	4	3	1
COLUMBUS	54	34	65	25	44	4	.7	.7	.7	12.1	180	45.9	137	89	52	0	2	1	1

Based on 1951-80 normals

Weather Data for the Week Ending November 24, 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	MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	56	35	67	28	45	6	.7		10.7	165	49.3	157	89	58	0	0	0	1	1	1
TOLEDO	53	30	62	24	42	4	.4		6.2	99	32.4	114	92	51	0	0	0	4	4	0
YOUNGSTOWN	50	30	57	21	40	2	.6		11.6	146	40.2	119	95	47	0	0	0	2	2	0
OK OKLAHOMA CITY	70	49	76	45	59	13	T		10.2	138	39.1	133	85	46	0	0	0	0	0	0
TULSA	70	50	80	41	60	13	T		8.5	86	35.7	98	82	46	0	0	0	0	1	0
OR ASTORIA	52	43	57	30	48	2	6.1		3.6	107	65.6	118	95	76	0	0	0	1	6	0
BURNS	47	22	62	17	35	1	T		6	28	4.5	53	86	44	0	0	0	7	7	0
MEDFORD	49	37	57	30	43	1	.1		2.4	53	11.9	77	99	74	0	0	0	1	1	0
PENDLETON	52	41	67	35	47	7	.1		1.3	48	8.2	82	90	49	0	0	0	0	0	0
PORTLAND	52	44	59	32	48	4	.2		7.6	88	29.4	99	93	72	0	0	0	1	1	0
SALEM	52	41	59	28	47	3	1.2		9.9	107	32.1	101	94	75	0	0	0	2	2	0
PA ALLENTOWN	50	32	55	23	41	1	.4		8.5	85	38.5	97	83	45	0	0	0	3	3	0
ERIE	50	33	61	28	42	2	.5		14.4	136	44.8	125	93	50	0	0	0	3	3	0
HARRISBURG	52	34	57	27	43	1	.3		9.2	103	37.9	108	81	42	0	0	0	4	4	0
PHILADELPHIA	53	36	58	30	44	0	.1		4.6	51	32.0	86	87	48	0	0	0	3	3	0
PITTSBURGH	52	32	58	22	42	2	.7		11.5	162	43.6	131	94	43	0	0	0	4	4	0
SCRANTON	46	31	55	22	39	0	.4		10.8	129	41.9	132	84	51	0	0	0	4	4	0
RI PROVIDENCE	50	34	53	28	42	1	.2		9.7	91	39.3	99	83	47	0	0	0	2	2	0
SC CHARLESTON	69	45	73	35	57	2	.0		11.0	116	40.9	86	99	34	0	0	0	0	0	0
COLUMBIA	70	37	74	30	54	1	.1		15.5	177	41.0	91	98	34	0	0	0	0	0	0
FLORENCE	68	41	73	33	54	1	.3		13.2	162	31.2	77	92	37	0	0	0	0	0	0
GREENVILLE	67	38	71	31	53	3	.7		13.3	127	46.0	99	93	37	0	0	0	0	0	0
SD ABERDEEN	53	29	62	22	41	14	T		3.6	120	20.5	120	82	35	0	0	0	0	0	0
HURON	56	28	68	15	42	13	T		1.9	56	22.6	126	86	37	0	0	0	0	0	0
RAPID CITY	64	28	74	22	46	13	T		3.5	159	16.2	104	70	22	0	0	0	0	0	0
SIOUX FALLS	59	29	67	21	44	14	T		2.8	55	18.5	80	87	39	0	0	0	0	0	0
TN CHATTANOOGA	69	39	72	30	54	7	.1		11.0	105	57.4	123	99	39	0	0	0	1	1	0
KNOXVILLE	65	40	70	31	52	5	.1		7.7	89	45.7	110	96	44	0	0	0	2	2	0
MEMPHIS	70	50	76	36	60	10	.2		11.9	130	48.0	105	88	46	0	0	0	1	1	0
NASHVILLE	66	45	74	30	56	9	.4		9.9	111	35.4	83	93	43	0	0	0	1	1	0
TX ABILENE	74	52	78	45	63	12	.5		3.3	134	30.5	137	90	46	0	0	0	0	0	0
AMARILLO	71	38	79	32	54	11	T		3.7	104	17.3	94	72	19	0	0	0	1	1	0
AUSTIN	79	59	82	45	69	12	.4		9.0	103	27.7	96	97	53	0	0	0	0	0	0
BRAEMONT	77	57	82	42	67	9	1.0		14.4	116	61.9	126	97	57	0	0	0	0	0	0
BROWNSVILLE	85	65	87	57	75	9	.0		6.9	69	18.6	78	97	54	0	0	0	0	0	0
CORPUS CHRISTI	81	65	85	58	73	9	.9		5.4	51	20.7	70	99	62	0	0	0	2	2	0
DEL RIO	77	59	82	50	68	11	T		8.9	157	25.4	154	73	45	0	0	0	0	0	0
EL PASO	69	43	79	38	56	6	.2		5.3	228	12.5	174	91	32	0	0	0	2	2	0
FORT WORTH	75	54	81	43	65	12	.5		7.3	90	43.4	150	95	57	0	0	0	2	2	0
GALVESTON	73	64	77	55	69	8	T		11.1	100	35.9	99	93	70	0	0	0	0	0	0
HOUSTON	79	57	82	41	68	9	.8		8.1	68	38.3	92	97	53	0	0	0	1	1	0
LUBBOCK	74	44	80	31	59	13	T		4.5	103	15.5	91	77	22	0	0	0	1	1	0
MIDLAND	76	49	82	37	62	12	.1		4.9	124	13.3	103	92	34	0	0	0	0	0	0
SAN ANGELO	75	51	79	42	63	11	.4		11.1	189	28.5	166	96	47	0	0	0	0	0	0
SAN ANTONIO	79	60	83	45	70	12	.1		10.5	123	38.1	140	96	53	0	0	0	1	1	0
VICTORIA	80	60	83	49	70	9	.8		7.5	66	35.0	102	100	57	0	0	0	1	1	0
WACO	77	58	82	47	67	12	.9		14.4	179	36.9	130	95	59	0	0	0	0	0	0
WICHITA FALLS	75	47	79	37	61	11	T		5.6	78	36.8	147	87	37	0	0	0	0	0	0
UT CEDAR CITY	53	24	60	17	39	2	.2		2.8	114	9.4	99	86	33	0	0	0	6	6	0
SALT LAKE CITY	50	31	56	25	41	3	.4		2.4	81	10.0	74	89	44	0	0	0	5	5	0
VT BURLINGTON	41	28	51	21	35	0	.5		11.9	144	37.9	124	93	63	0	0	0	5	5	0
VA NORFOLK	59	40	70	34	50	-1	T		5.6	56	42.0	102	82	37	0	0	0	0	0	0
RICHMOND	62	37	72	29	50	3	T		7.4	75	39.2	98	79	29	0	0	0	3	3	0
ROANOKE	65	38	69	26	51	7	T		12.8	148	39.9	112	84	32	0	0	0	2	2	0
WA QUILLAYUTE	49	40	55	29	44	1	5.9		33.9	127	95.5	111	100	88	0	0	0	1	7	5
SEATTLE-TACOMA	49	42	55	30	45	2	4.0		2.6	15.5	40.2	130	98	79	0	0	0	1	5	2
SPOKANE	44	35	54	28	40	7	.2		3.5	104	16.8	124	92	68	0	0	0	4	3	0
YAKIMA	54	33	67	17	44	8	.0		.5	31	5.9	95	80	43	0	0	0	4	0	0
WV BECKLEY	58	37	64	24	48	8	.4		9.4	111	36.4	95	82	39	0	0	0	2	2	0
CHARLESTON	61	38	69	26	50	6	.5		9.7	123	36.9	96	88	37	0	0	0	3	2	0
HUNTINGTON	60	40	66	28	50	6	.6		11.2	148	43.8	118	90	42	0	0	0	2	1	1
PARKERSBURG	58	36	66	24	47	4	.9		9.6	133	43.9	127	90	40	0	0	0	3	2	0
WI GREEN BAY	51	32	62	22	42	10	.3		8.8	133	34.3	132	88	50	0	0	0	4	1	1
LACROSSE	56	36	71	29	46	13	.1		3.7	55	34.9	122	76	45	0	0	0	2	2	0
MADISON	55	33	64	28	44	11	.3		4.9	73	32.5	113	80	49	0	0	0	5	1	0
MILWAUKEE	54	38	65	32	46	11	.3		6.7	100	36.8	130	87	51	0	0	0	1	2	0
WAUSAU	51	29	64	18	40	11	.3		7.9	104	32.8	110	88	51	0	0	0	5	2	0
WY CASPER	52	33	59	20	43	12	T		2.5	120	11.8	112	60	29	0	0	0	3	0	0
CHEYENNE	54	32	64	23	43	10	.0		2.7	122	19.1	149	53	22	0	0	0	4	0	0
LANDER	49	29	59	25	39	11	.0		4.2	159	10.9	88	68	35	0	0	0	6	0	0
SHERIDAN	58	30	70	21	43	13	T		2.7	91	12.7	90	72	25	0	0	0	4	1	0

Based on 1951-80 normals

National Agricultural Summary

November 19-25, 1990

HIGHLIGHTS: The winter wheat crop was mostly in good condition. Ninety-three percent(%) of the winter wheat crop was emerged, 2 percentage points ahead of the 5-year average. The corn crop was 97% harvested, 1 point ahead of normal. Ninety-seven percent of the soybean crop was harvested, 4 points ahead of normal. Cotton was 84% harvested, 9 points ahead of normal.

Warmer-than-normal temperatures in most areas of the United States allowed harvest and seeding of fall crops to advance rapidly. Soil moisture was short in the Southeast, the Great Plains, and the West. Flooding in western Washington delayed field work and caused some crop damage.

FRUIT AND NUTS: The Mississippi pecan crop was mostly very poor with 40% harvested, 16 points behind normal. Georgia pecan harvest was mostly fair with 67% harvested. Pecan harvest in Texas continued to lag normal, with fair quality and yields lighter than earlier expected. California persimmon harvest was steady with good color and quality. Desert lemon, grapefruit, and mandarin orange harvests continued. Citrus harvest continued in western areas of Arizona, and apple packing and pecan harvest continued in the eastern and central areas. Florida early processing orange harvest was active. Fresh and processing grapefruit harvest was active. Early fresh tangerines and tangelo movement was strong.

VEGETABLES: Texas Rio Grande Valley vegetables sustained some damage from whiteflies and cabbage worms. In the San Antonio Winter Garden area, broccoli and tomato harvests were underway. Some aphid damage was in east Texas cabbage and other vegetable crops. California broccoli, cauliflower, and celery were in moderate to light supply with variable quality. Central Arizona cantaloupe and honeydew harvests continued on a limited scale. Florida fall vegetable harvest was nearly complete in the north.

PASTURES AND LIVESTOCK: Pasture and livestock conditions were mostly fair to good. Range conditions in California and North Dakota were poor to very poor, with stock water in short supply. Stock ponds were low on water in many areas of Kansas.

OTHER FIELD CROPS: Texas low plains peanut crop suffered some loss due to killing frost, but yields remained good. Louisiana sugarcane harvest was 54% complete, 10 points behind normal. Sweetpotato harvest was 96% complete, 1 point behind normal.

SMALL GRAINS: The winter wheat crop was in mostly good condition. Most States reported wheat in mostly good condition except Montana, Oregon, and South Dakota, where the crop was in mostly fair condition. Ninety-three percent of the crop was emerged, 2 points ahead of normal. Arkansas, Georgia, North Carolina, and Ohio crop emergence progressed 14 or more points from last week. In California and Florida, small grain seeding was slowed due to lack of moisture. In the panhandle of Nebraska, high, gusty winds caused soil erosion in some wheat fields. Southern Nebraska wheat fields began to show stress from dry conditions.

CORN: The corn crop was 97% harvested, 1 point ahead of normal. Michigan and Pennsylvania progressed 15 or more points from last week. Harvest was complete in Georgia, Kansas, North Carolina, and Texas. Light rain and fog in northeast Nebraska slowed corn harvest.

SOYBEANS: Ninety-seven percent of the soybean crop was harvested, 4 points ahead of normal. Harvest progressed 19 and 12 points in North and South Carolina, respectively. Harvest was equal to or ahead of average in the 19 major producing States. Harvest was near completion in all States except North and South Carolina, where harvest was 77% and 59% complete, respectively.

COTTON: Cotton was 84% harvested, 9 points ahead of normal. Oklahoma was 75% harvested, 40 points ahead of normal. Texas progressed 11 points from last week and was 65% harvested, 14 points ahead of normal. Harvest in the 14 major producing States was equal to or ahead of average. Texas High Plains cotton harvest was hampered by high humidity and heavy morning dew, with yields remaining good to excellent.

Crop Progress

FOR WEEK ENDING NOVEMBER 25, 1990

	COTTON % HARVESTED		
	1990	1989	AVG.
AL	100	95	95
AZ	95	80	81
AR	99	98	97
CA	97	98	95
GA	97	92	90
LA	100	100	99
MS	100	95	97
MO	98	100	98
NM	63	80	63
NC	95	81	81
OK	75	70	35
SC	96	89	89
TN	100	98	98
TX	65	76	51
14 STATES	84	86	75

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

	CORN % HARVESTED		
	1990	1989	AVG.
CO	95	100	98
GA	100	100	100
IL	99	100	100
IN	96	96	95
IA	99	100	96
KS	100	99	98
KY	92	97	95
MI	85	100	90
MN	99	99	95
MO	99	100	93
NE	99	100	97
NC	100	100	100
OH	95	91	93
PA	76	74	79
SD	99	100	92
TX	100	100	100
WI	87	97	89
17 STATES	97	99	96

THESE 17 STATES PRODUCED 95%

	SOYBEANS % HARVESTED		
	1990	1989	AVG.
AL	90	86	84
AR	94	96	86
GA	90	80	78
IL	100	100	99
IN	99	99	99
IA	100	100	100
KS	100	99	90
KY	90	95	90
LA	99	99	93
MI	100	100	100
MN	100	100	100
MS	94	91	86
MO	98	100	87
NE	100	100	100
NC	77	60	53
OH	99	96	99
SC	59	49	53
SD	100	100	100
TN	92	96	86
19 STATES	97	96	93

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

Crop Condition

PERCENT

FOR WEEK ENDING NOVEMBER 25, 1990

	WINTER WHEAT % EMERGED		
	1990	1989	AVG.
AR	77	86	77
CA	30	40	37
CO	100	100	100
GA	40	28	37
ID	98	100	98
IL	95	99	99
IN	92	94	95
KS	99	97	95
MI	98	100	95
MO	90	100	88
MT	92	94	90
NE	100	100	100
NC	56	55	NA
OH	93	97	98
OK	95	93	85
OR	96	97	91
SD	100	100	100
TX	88	84	90
WA	99	99	96
19 STATES	93	93	NA

EXCL. STATES WITH NA 93 93 91

THESE 19 STATES PRODUCED 91% OF THE 1989 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

STATE	WINTER WHEAT				
	VP	P	F	G	EX
AR	0	0	21	79	0
CA	0	0	10	85	5
CO	0	5	17	51	27
GA	0	0	45	55	0
ID	0	2	10	73	15
IL	0	0	25	72	3
IN	0	1	41	57	1
KS	0	3	16	52	29
MI	2	7	28	41	22
MO	0	1	43	55	1
MT	10	15	50	20	5
NE	0	6	36	56	2
NC	2	2	32	64	0
OH	0	5	37	47	11
OK	0	0	8	90	2
OR	0	0	55	45	0
SD	8	13	43	32	4
TX	0	2	24	57	17
WA	0	5	20	75	0
19 STATE	1	3	24	59	13
PREV WEEK	1	3	26	56	14
PREV YEAR	1	14	34	45	6

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 under 0.25 in.; near 0.50 in. local areas west. Temperatures 6 to 10° above normal north; 4 to 8° above normal elsewhere.

Days suitable for fieldwork 6.0. Soil moisture 13% very short, 56% short, 31% adequate. Mostly dry, mild weather provided excellent conditions for soybean harvest, small grain seedings. Soybeans 90% harvested, 86% 1989, 84% avg. Winter wheat 75% seeded, 71% 1989, 73% avg. Pastures 7% very poor, 29% poor, 39% fair, 25% good. Livestock 2% poor, 49% fair, 49% good. Primary activities: Harvesting soybeans, fall vegetables, pecans; seeding, fertilizing winter annuals; soil testing; applying lime to cropland; providing supplemental feed to cattle; general care of livestock, poultry, catfish.

ARIZONA: Mostly sunny skies statewide 18th; increased cloudiness 19th; low pressure, rain across State 20th; cloudy, continued cold 21st; clear skies, warmer, drier 22nd, 23rd, 24th. Temperatures normal to 7° above normal.

Cotton 95% harvested, 80% 1989, 81% 5 year avg.; stalk shredding, plow down continued active. Alfalfa harvest mostly light; sheeping off mostly light statewide; wheat, barley seedbed preparations continued. Citrus, mixed vegetable harvests continued west, central; cantaloupe, honeydews harvested limited scale west; apple packing continued east; pecan harvest continued central, east.

ARKANSAS: Normal to above normal temperatures with scattered showers mid week. Extremes 27°; 80°. Rainfall none to 1.23 in.

Days suitable for fieldwork 6.0. Soil moisture 20% short, 77% adequate, 3% surplus. Main activities: Soybean, cotton harvest; bush hogging, disking cotton stalks; planting winter forages; field preparation for next years crops; conducting winter pasture management practices; baling hay; livestock herd, health management practices. Cotton 99% harvested, 98% 1989, 97% avg.; 15% poor, 35% fair, 50% good. Soybeans 94% harvested, 96% 1989, 86% avg.; 100% mature, 100% 1989, 97% avg.; 16% very poor, 38% fair, 46% good. Wheat 90% planted, 95% 1989, 88% avg.; 77% emerged, 86% 1989, 77% avg.; 21% fair, 79% good. Oats 94% planted, 95% 1989, 89% avg. Pasture 17% poor, 75% fair, 8% good. Livestock good. Pecan harvest, very poor. Wheat acreage expected to be down.

CALIFORNIA: Weak frontal systems brought light amounts of rain to most areas early in the week. then strong high pressure built over the State providing much above normal daytime temperatures, dry conditions late in the week.

Field activities progressed, despite rain north. Rice harvest complete. Stubble burning continued as permitted. Cotton harvest winding down. Shredding, disking after harvest active. Discarded fields received herbicide; 1991 preparation. Dry bean, grain sorghum, sugarbeet harvests continued. New alfalfa, small grain seeding slowed; low moisture. Alfalfa hay harvest, green chopping seasonally active. Fuyu, Hachiya persimmon harvest steady, good color, quality. Pomegranate, Deglet Noor date harvests continued. Kiwi harvest virtually complete. Olive growers continued harvest. Emperor grapes picked. A few growers pulled out old, unwanted varieties; grapes, fruit

trees. Fall topping, pruning of deciduous trees active. Tree hole fumigation for replants, new plantings continued. Pecans harvested. Desert lemons, grapefruit harvested. Satsuma Mandarin harvest ongoing. Navel orange harvest picked up momentum with modest improvement in maturity tests. Broccoli light supply, generally good quality. Cauliflower light supply, variable quality. Celery moderate supply, variable quality. Iceberg head lettuce moderate supply, good quality, Huron area. Potato harvest continued Hemet Perris. Desert broccoli, sweet corn, lettuce harvests underway. Livestock on supplemental feed most areas, average to good condition. Range conditions poor to very poor southern two thirds of State poor to fair northern third. Precipitation received in northern areas results varied, germinated grass seeds made dry feed more palatable in some areas, no effect in others. Water supplies very short in southern two thirds of State. Sheep grazing continued southern, central counties.

COLORADO: Warm, dry statewide at beginning of week. A cold air mass prevailed across the mountains, western sections from 20th through balance of week. Eastern areas were mostly unseasonably warm, dry for the entire period with some cooling at mid week with gusty winds. Record high temperatures reaching into the 70s, 80s were recorded at several eastern locations over the weekend accompanied by gusty winds along the Front Range. The only precipitation for the week occurred on 20th in the form of light snow in the northern, central mountains.

FLORIDA: Temperatures 1 to 3° above normal; up to upper 70s north to mid 80s along southeast coast. Coldest temperatures upper 30s Panhandle interior, low, mid 30s Big Bend interior to mid, upper 30s northeast. Central Peninsula lows mid, upper 40s interior to upper 40s southern interior, with 50s along coastal locations. Rain scattered across State during week except mostly dry weather southwest; totals generally under 0.30 in; only isolated east coast locations recorded around 0.75 in.

Soil moisture mostly short statewide. Cotton, soybean harvests virtually complete. Lack of soil moisture delayed most winter wheat planting. Sugarcane harvest, planting active. Pastures 5% very poor, 20% poor, 50% fair, 20% good, 5% excellent. Cattle, Panhandle, extreme northern Peninsula poor to good; remainder of northern, central Peninsula fair to good; lower Peninsula, generally good. Citrus groves, trees good. Few light showers; more rain needed. Irrigation continued. Early orange harvest active for processing; most juice plants open. Fresh, processing grapefruit harvest active. Early tangerines, Dancy tangerines, tangelo movement strong for fresh trade. Mild days, cool nights continued, vegetable producing areas. Limited rainfall. Fall harvest nearly complete north, slowed by Holiday other areas. Volume leaders; tomatoes, cucumbers, peppers, squash, sweet corn, snap beans, celery, radishes, eggplant. Fall sweet corn season complete, Zellwood.

GEORGIA: Little rainfall. Temperatures 6 to 10° above normal north, 2 to 5° above normal central, south. Warmest lows to mid 70s north, upper 70s

south. Coolest near 30° mountains to upper 30s, low 40s elsewhere.

Days suitable for fieldwork 6.1. Soil moisture 8% very short, 47% short, 45% adequate. Cotton 7% very poor, 14% poor, 34% fair, 45% good; harvest nearing completion. Sorghum 98% harvested for grain, 97% 1989, 96% avg. Soybeans 35% very poor, 27% poor, 34% fair, 4% good. Wheat 54% planted, 45% 1989, 57% avg. Rye 1% poor, 50% fair, 49% good; 93% planted, 91% 1989, 88% avg. Other small grains 79% planted, 76% 1989, 78% avg. Pecans 4% very poor, 16% poor, 72% fair, 8% good; 67% harvested, 69% 1989, 63% avg. Pasture 3% very poor, 12% poor, 47% fair, 36% good, 2% excellent. Cattle, hogs mostly good. Main activities: Harvest of row crops, pecans; planting small grains; overseeding pastures.

HAWAII: Rainy conditions prevailed the first half of week, clearing during the latter half. Rain soaked soils caused flooding, inundated some farms. Overall damage to crops minimal although select farms suffered heavy losses. Winds gusty 15 to 30 mph beginning of week diminishing at lower elevations toward mid week. Temperatures upper 50s to upper 80s. Rainfall 0.70 to 22.00 in.

Days suitable for fieldwork 7.0. Heavy rains beginning of week slowed or halted fieldwork in many areas. Harvesting, work schedules disrupted due to rain, muddy field conditions. Rainfall welcomed in previously dry areas. Gustly winds coupled with saturated soils toppled some banana plants. Incidence of disease increased due to wet conditions. Minor damage to vegetable, vine crops.

IDAHO: Temperatures normal over entire State. Precipitation below normal except in east.

Soil moisture adequate north; short rest of State. Activities: Shop work, hauling grain, fall plowing. Winter wheat condition good. Hay, roughage supplies adequate. Livestock in good to excellent.

ILLINOIS: Temperatures 8 to 13° above normal. Precipitation generally 0.50 in. or less north, 0.50 to 1.40 in. south.

Winter wheat mostly good. Livestock good to excellent.

INDIANA: Temperatures 9 to 13° above normal. Lows mid to upper 30s, highs mid 50s to low 60s. Precipitation 0.25 to 1.00 in.

Days suitable for fieldwork 5.5. Topsoil 84% adequate, 16% surplus. Subsoil 91% adequate, 9% surplus. Spring cropland 50% tilled. Corn 20% moisture content, soybeans 13% moisture content. Pasture 1% very poor, 17% poor, 44% fair, 37% good, 1% excellent. Excellent week for harvesting, tilling, spreading fertilizer.

IOWA: Temperatures 10 to 15° above normal. Extremes 20°; 75°. Precipitation none to 0.62 in.; average 0.08 in.

Some fall tillage still going on. Harvest activities winding down as most crops are harvested. Farmers are putting equipment in the machine sheds. Livestock mostly good. Excellent autumn weather continues. Grazing of stalk, stubble fields on the increase.

KANSAS: Temperatures 11 to 15° above normal. Southeast areas received 0.14 in. precipitation; east central, 0.03 in.; rest dry.

Days suitable for fieldwork 6.0. Surface moisture 53% short, 47% adequate. Subsurface moisture 43% short, 57% adequate. Fall tillage, fertilizer application, moving cattle, hay bales major activity. Wheat emerged except few fields north central, eastern districts. Need moisture some areas. Movement livestock to graze crop

residue, wheat fields continues. Stock ponds low many areas.

KENTUCKY: Mean temperatures lower 50s east, mid 50s west. Normal means mid 40s. Precipitation 0.50 to 1.00 in.

Soil moisture mostly adequate, very favorable for late fall. Burley markets opened 19th. Price generally \$174 per cwt., up about \$7 from last year. Rain 22th brought additional burley into order for stripping. Quality continues mostly good. Several days favorable for late corn, soybean, sorghum harvests. Good growing conditions for fall seeded wheat. Pasture conditions mostly good.

LOUISIANA: Temperatures 3.1 to 9.8° above normal. Extremes 32°; 83°. Rainfall 0.15 to 1.91 in.

Days suitable for fieldwork 5.8. Soil moisture 10% very short, 31% short, 59% adequate. Pecans harvested 59%, 68% 1989, 65% avg. Soybeans harvested 99%, 99% 1989, 93% avg. Sugarcane harvested 54%, 67% 1989, 64% avg.; 57% fair, 43% good. Sweetpotatoes harvested 96%, 96% 1989, 97% avg. Wheat planted 85%, 87% 1989, 71% avg., emerged 70%, 70% 1989, 58% avg.; 29% fair, 64% good, 7% excellent. Livestock 42% fair, 56% good, 2% excellent. Pasture 17% poor, 63% fair, 20% good. Vegetables 6% poor, 55% fair, 39% good.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.27 in. Temperature 45.1°, normal 44.6°. Extremes 15°; 75°.

Days suitable for fieldwork 5.7. Topsoil 13% short, 81% adequate, 6% surplus. Subsoil 6% short, 94% adequate. Corn good; grain 98% harvested, 92% 1989, 96% avg. Soybeans fair to good; 93% harvested, 80% 1989, 79% avg. Small grains good. Oats 89% seeded, 69% 1989, 94% avg. Hay supplies adequate. Pasture good.

DELAWARE: Precipitation 0.16 in. Temperature 43.6°, normal 46.0°. Extremes 25°; 65°.

Days suitable for fieldwork 5.8. Topsoil 60% short, 40% adequate. Subsoil 20% short, 80% adequate. Soybeans good; 98% harvested, 75% 1989, 75% avg. Small grains good. Hay supplies adequate. Pasture fair to good.

MICHIGAN: Temperatures 6 to 9° above normal. Extremes 20°; 67°. Precipitation 0.23 to 2.13 in. across the State.

Days suitable for fieldwork 5.0. Soil moisture 55% adequate, 45% surplus. Corn 85% harvested, 100% 1989, 90% avg. Soybeans, 100% harvested, 100% 1989, 90% avg. Winter Wheat 98% emerged, 100% 1989, 95% avg.; 2% very poor, 7% poor, 28% fair, 41% good, 22% excellent. Major activities: Harvesting corn, fieldwork.

MINNESOTA: Temperatures 10 to 14° above normal. Extremes 8°; 72°. Precipitation none to 0.10 in., greatest weekly total 0.99 in.

MISSISSIPPI: Temperature 6° above normal. Extremes 25°; 97°. Mostly dry statewide, some scattered showers. Rainfall 0.26 in., 0.83 in. below normal. Soil temperature 59°.

Days suitable for fieldwork 5.3, 2.9 1989, 2.7 avg. Soil moisture 6% very short, 54% short, 35% adequate, 5% surplus. Cotton 100% harvested, 95% 1989, 97% avg.; 3% very poor, 16% poor, 36% fair, 45% good. Soybeans 94% harvested, 91% 1989, 86% avg.; 2% very poor, 43% poor, 23% fair, 32% good. Sweetpotatoes 100% harvested, 98% 1989, 100% avg. Wheat 83% planted, 91% 1989, 76% avg., 70% emerged, 77% 1989, 73% avg.; 9% poor, 33% fair, 52% good, 6% excellent. Pecans 40% harvested, 51% 1989, 56% avg.; 70% very poor, 18% poor, 12% fair. Pasture 27% very poor, 26% poor, 41% fair, 6% good. Livestock 7% very poor, 2% poor, 42% fair, 49%

good. Hay, roughage 92% short, 8% adequate. Feed grain 30% short, 70% adequate. Activities: Harvesting crops, planting wheat, sub soiling.

MISSOURI: Temperatures 10° above normal. Precipitation less than 0.20 in. north, 0.50 to 1.00 in. east central, south central, southeast.

Row crop harvesting virtually complete. Topsoil mostly adequate. Some late tillage being done. Pasture fair to good.

MONTANA: Temperatures 5 to 13° above average. Precipitation amounts less than 0.25 in. except scattered western locations.

Days suitable for fieldwork 6.0. Topsoil 85% short, 15% adequate. Strong winds dried soils in spite of light showers. Grazing open. Livestock receiving supplemental feed 25%.

NEBRASKA: Temperatures 13 to 15° above normal. Extremes 14°; 73°. Only trace of precipitation occurred.

Days suitable for fieldwork 6.9. Topsoil 61% short, 39% adequate. Subsoil 80% short, 20% adequate. Light rain, fog slowed corn harvest northeast. High, gusty winds caused erosion, damaged some winter wheat, Panhandle. Southern wheat fields beginning to show stress from dry conditions. Some southwestern wheat fields being used for grazing. Pasture, range 15% very poor, 32% poor, 41% fair, 12% good. Producers taking advantage of crop residues. Feeder calves moving to take advantage of good market. Main activities: Working fall tillage, applying fertilizer, moving hay, fencing stalk fields, book work, finishing corn harvest.

NEVADA: Week started with warm, dry weather, ended with cold front producing rain, snow, much colder weather end of period. Significant precipitation limited to east central, northeast. Extremes 5°; 77°.

Main ranch, farm activities feeding, caring for livestock. First storm of season hard on newborn calves, lambs. Feedlots muddy some areas. Marketing 1990 potato crop slowing. Prices weakening.

NEW ENGLAND: Precipitation 0.25 to 1.50 in. Maine, 0.10 to 0.65 in. elsewhere. Temperatures 30 to mid 30s north, mid 30s to low 40s south. Maximum temperatures high 30s to low 50s. Minimum temperatures mostly 20s to mid teens Vermont.

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

NEW JERSEY: Temperatures near normal, 42° south, 44° north, 46° coastal. Extremes 22°; 69°. Precipitation below normal, averaged 0.50 in. north, 0.21 in. south, 0.15 in. coastal. Heaviest 24 hour total 0.44 in. on 23rd, 24th.

Soil moisture adequate for fall sown grains, cover crops. Harvest of corn for grain, soybeans well advanced. Farmers busy with Thanksgiving needs with fresh killed turkeys, cider, apples, turnips squash, other items from storage.

NEW MEXICO: Temperatures above normal across State. Precipitation sparse.

Days suitable for fieldwork 6.8. Soil moisture 53% short, 47% adequate. Excellent. harvesting weather last week. Little or no cotton harvest on eastern High Plains. Cattle, sheep fair to good. Range 6% very poor, 12% poor, 35% fair, 47% good.

NEW YORK: Temperatures near normal. Week started cold with highs only in the 30s. Weather moderated, highs 50s by weekend. Extremes 6°; 59°.

Precipitation below normal, 0.25 to 0.50 in. Most occurred around Thanksgiving.

Corn for grain harvest continued. Orchard maintenance well underway. Mild weather permitted outside activities to make good progress. Machinery repair a major activity as farmers prepare for winter.

NORTH CAROLINA: Temperatures 1 to 6° above normal across State. Precipitation was below normal with many stations remaining dry for the week or only receiving a few hundredths.

Days suitable for fieldwork 6.1. Soil moisture 29% short, 71% adequate. Pasture 49% fair, 51% good. Livestock feed from pasture 64%. Harvested: Sorghum 90%; cotton 95%; soybeans 77%. Wheat emerged 56%. Planted: Wheat 83%; oats 90%; barley 92%; rye 89%. Crop condition: Wheat 2% very poor, 2% poor, 32% fair, 64% good; oats 33% fair, 67% good; barley 3% poor, 33% fair, 64% good; rye 29% fair, 71% good. Major activities: Harvesting cotton, soybeans; planting small grains; land preparation. Other activities included: harvesting sorghum; hay harvest; cutting wood; cutting, tagging Christmas trees; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures 8 to 13° above normal. Precipitation below 0.10 in. statewide.

Soil moisture very short. No snow cover. Hay supplies adequate. Calves developing problems due to dusty conditions. Livestock marketing above normal in response to price.

OHIO: Unseasonably mild weather continued until a cold front pushed across the State 22nd. Temperatures 5° above normal in northeast to 13° above normal southwest. Highs low 60s with average lows in the 30s. Early in the week saw the coldest temperatures with lows in the 20s in some areas.

The cold front brought scattered rain 21st with coverage more widespread 22nd. Rains mainly 0.40 to 0.75 in. which was generally below normal. A few areas had more. Warmer than normal temperatures allowed harvest of corn, beans to near completion. Also warmer temperatures promoted a late planted wheat crop to germinate, emerge.

OKLAHOMA: Temperatures 10° above normal west central to 16° above normal southwest. Precipitation none to 0.34 in. east central.

Days suitable for fieldwork 6.2. Topsoil 15% short, 85% adequate. Subsoil moisture 5% short, 95% adequate. Wheat 8% fair, 90% good, 2% excellent.; 95% emerged, 93% 1989, 85% avg.; 15% grazed, 25% 1989, 25% avg. Prolonged warm weather improved growth. Cotton 75% harvested, 70% 1989, 35% avg. Sorghum 95% harvested, 85% 1989, 80% avg. Soybeans 95% harvested, 90% 1989, 65% avg. Peanuts 99% harvested, 90% 1989, 85% avg. Pastures 65% fair, 33% good, 2% excellent. Cattle good; marketings average.

OREGON: Temperature above normal entire State; up to 9° above normal northeast; departures elsewhere less than 5°. Precipitation heaviest north coast, coastal range, up to 5.80 in. Northeast more than 0.50 in.; up to 1.00 in. Willamette Valley; less than 0.10 in. all other locations.

Soil moisture adequate to surplus western valleys; surplus south coast; short to adequate Columbia Basin; adequate northeast, southeast and central areas. Winter wheat 55% fair, 45% good; virtually all planted; 96% emerged, 97% 1990, 91% avg. Weed control, pruning, fertilizing activities continue in western valley. Onions moving, carrot, cauliflower processing finishing up. South coast cranberry harvest successful. Livestock mostly good. Range, pasture mostly fair.

PENNSYLVANIA: Normal temperatures, below normal precipitation. Temperature 40°, at normal. Extremes 14°; 62°. Precipitation 0.40 in., 0.37 in below normal.

Days suitable for fieldwork 5. Soil moisture 4% short, 83% adequate, 13% surplus. Corn 100% mature, 99% 1989, 100% avg.; 76% harvested, 74% 1989, 79% avg.; 5% poor, 18% fair, 46% good, 31% excellent. Soybean harvest 86% complete, 74% 1989, 81% avg.; 1% very poor, 4% poor, 22% fair, 49% good, 24% excellent. Fall plowing 96% complete, 100% 1989, 100% avg. Fourth cutting alfalfa 94% complete, 99% 1989. Quality of hay made during week mostly fair. Quality of feed being obtained from pasture 8% very poor, 29% poor, 37% fair, 26% good. Activities: Harvesting hay, haylage, corn, soybeans; fall plowing; maintaining machinery; caring for livestock.

PUERTO RICO: No Data Available.

SOUTH CAROLINA: Temperatures 4 to 6° warmer than usual. Rainfall less than 0.10 in.

Days suitable for fieldwork 6.1. Soil moisture 33% short, 67% adequate. Cotton 1% very poor, 24% poor, 71% fair, 4% good; 96% harvested, 89% 1989, 89% avg. Soybeans 4% very poor, 14% poor, 75% fair, 7% good; 98% shedding leaves, 100% 1989, 99% avg.; 96% matured, 100% 1989, 98% avg.; 59% harvested, 49% 1989, 53% avg. Sorghum fair to good, 88% harvested, 73% 1989, 80% avg. Peanuts fair, 97% harvested, 100% 1989, 96% avg. Wheat 46% planted, 50% 1989, 51% avg.; 28% emerged, 26% 1989, 37% avg. Pasture 10% poor, 36% fair, 54% good.

SOUTH DAKOTA: Unseasonably warm, dry statewide, 10 to 15° above normal. Extremes 15°; 74°. Precipitation 0.15 in. northwest, 0.05 in. or less elsewhere. Harvest season precipitation above normal near Black Hills, a small part of northeast, below normal elsewhere. Range 1.34 in. above to 2.49 in. below normal.

TENNESSEE: Warm front dominated early week. Pacific cold front moved through State 21st producing widespread light showers. High pressure 22nd through weekend returned warm, dry. Temperatures above normal statewide. West, middle 10 to 15° above normal. East 5 to 10° above normal. Precipitation 0.50 to 1.00 in. below normal. Most locations totaled less than 0.50 in.

Farmers wrapping up cotton, soybean harvests; tobacco stripping; wheat seeding.

TEXAS: Weather information not available.

Crops: Grain sorghum harvest neared completion. Remaining acreage Plains. Cotton harvest resumed across most areas, high humidity, heavy morning dew continued hamper progress Plains. Some producers reported rain damage few cotton fields, yields, grades remained good to excellent. Progress other western areas continued with yields, grades fair to good. Cotton 97% open bolls, 100% 1989, 95% avg. Small grains continued excellent. progress throughout much State. Some green bug migration wheat fields Cross Timbers, Blacklands, weeds, grasshoppers hampered growth central. Fields doing well, producers many areas would like to see more rainfall to sustain root growth. Wheat 96% planted, 97% 1989, 96% avg. Soybean harvest active across state. Good yields Blacklands. Peanut harvest resumed last week few delays. Some loss Low Plains because frost kill, yields good. Open weather rest growing regions benefitted harvest activities. Good grades, fair yields Cross Timbers, Blacklands, harvest winding down. Other field crops: Peanuts 77% harvested, 80% 1989, 78% avg. Pecans 34% harvested, 43% 1989, 50% avg. Soybeans 76% harvested, 85% 1989, 82% avg. Sugarbeets 55% harvested, 84% 1989, 75% avg.

Sunflowers harvested 60%, 68% 1989, 84% avg. Oats planted 74%, 90% 1989, 89% avg.

Commercial Vegetables: Rio Grande Valley, pepper harvest continued., Carrots, onions, tomatoes making steady progress. Whitefly numbers remained high, damage continued. Some light damage from cabbage worms. San Antonio Winter Garden, open conditions sustained fall vegetable progress. Broccoli, tomato harvest underway. Eastern areas, limited supplies pinto beans expected because insect, weather damage. Some aphid damage evident cabbage, other fall vegetables. Trans Pecos, bell pepper, red chile harvest continued. Some irrigation onions. Land preparation continued. Pecan harvest continued throughout most growing regions, lags behind normal progress. Producers Plains like to see hard freeze to open shucks. Yields continue lighter than earlier expected, quality fair. Producers Cross Timbers good to excellent. yields, weevil, scab damage contributed to poor crop Blacklands, east. Elsewhere, fair to good quality, yields.

Range and Livestock: Range, livestock continued good conditions. Winter pastures remained stable, more moisture needed to promote growth. Summer grasses browning, forage quality diminishing. Movement livestock to winter grazing continued, supplemental feeding increased. Range, pasture 3% very poor, 7% poor, 41% fair, 37% good, 12% excellent.

UTAH: Precipitation moderate to heavy northern mountainous areas, light to moderate elsewhere. Maximum temperatures 2° above normal; minimums, 4°.

Recent precipitation across the State has helped replenish some of the soil moisture. Fall farming activities somewhat limited due to recent snow, rain. Cattle, sheep good. Major farm activities include: Completion of corn for grain harvesting, working livestock, updating farm records.

VIRGINIA: Temperatures about 4° above normal. Extremes 20°; 77°. Rainfall occurred statewide, averaged less than 0.25 in.

Days suitable for fieldwork 6.0. Topsoil 2% very short, 18% short, 75% adequate, 5% surplus. Corn for grain 96% harvested, 94% 1989, 93% avg. Soybeans 86% harvested, 73% 1989, 64% avg. Winter wheat 90% seeded, 83% 1989, 80% avg. Winter grain 10% poor, 33% fair, 57% good. Pasture 7% poor, 50% fair, 41% good, 2% excellent. Livestock 27% fair, 62% good, 11% excellent. Forage from pastures, winter grazing crops dairy cattle 21%, beef cattle 73%, sheep 77%. Preparing burley, dark fired tobacco for market, harvesting cabbage, cutting Christmas trees.

WASHINGTON: Temperatures 3° below normal to 6° above normal, east; 7° below normal to 2° above normal, west. Precipitation none to 0.26 in. east; 1.20 to 3.01 in. west.

Days suitable for fieldwork 4.1. Soil moisture 30% short, 69% adequate, 1% surplus. Range, pasture 5% very poor, 23% poor, 35% fair, 37% good. Hay, other roughage 1% short, 86% adequate, 13% surplus. Winter wheat emerged 99%, 99% 1989, 96% avg. Corn for grain harvested 86%, 70% 1989, 88% avg. Winter wheat 5% poor, 20% fair, 75% good. Barley 5% poor, 30% fair, 65% good. Heavy rains in western areas continued to cause flood damage. A border area was effected this week. Water levels are expected to remain high until the middle of next week. Fieldwork was stopped by the weather in western areas. In eastern areas, fruit tree, grape vine pruning were in progress. Livestock were being worked, placed on winter feeding programs. A few remain on fall pastures.

(Continued to back cover)

International Weather and Crop Summary

HIGHLIGHTS

November 18-24, 1990

WESTERN USSR ... Unseasonably mild weather continues to favor winter grains, but leaves most areas without a protective snow cover.

NORTHWESTERN AFRICA ... Drier weather helps winter grain planting operations in eastern Algeria and Tunisia, where topsoil moisture is excellent for emergence. More rain is needed in Morocco for planting.

EUROPE ... Widespread precipitation continues across the north. Warm, dry weather stresses winter crops in sections of the southeast.

EASTERN ASIA ... Rain in the Yangtze Valley and southern North China Plain favors winter grains and decreases long-term dryness.

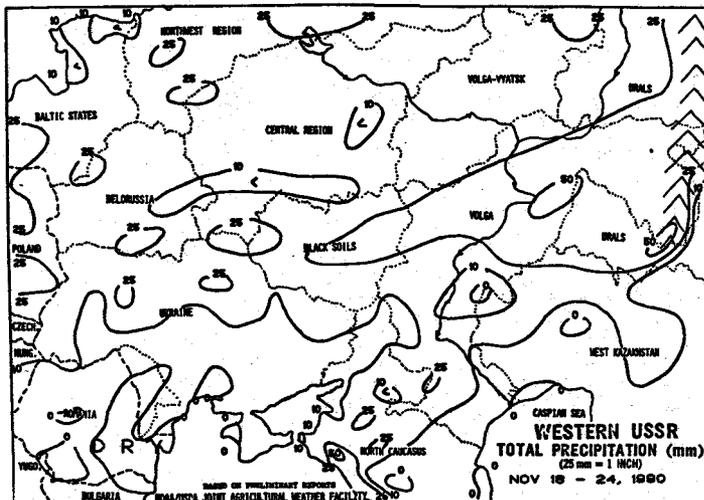
SOUTH ASIA ... Showers benefit local reservoirs in northern India. Dry weather elsewhere favors wheat planting and summer crop harvests.

SOUTHEAST ASIA ... Seasonable showers continue over the Philippines, Malaysia, and Indonesia. Local flooding occurs in most areas.

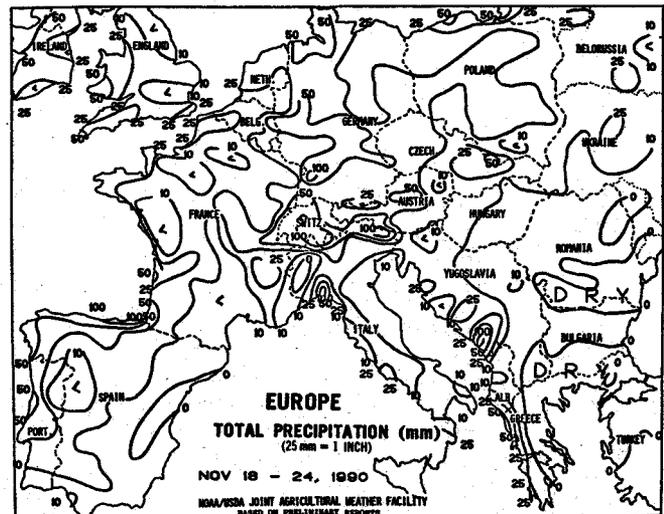
SOUTH AFRICA ... Persistent dry, warm weather causes further corn planting delays.

SOUTH AMERICA ... In Argentina, drenching rain over soybean areas delays planting and produces local flooding. In south-central Brazil, light to moderate showers in the south slow soybean planting. Rain is needed in northern crop areas.

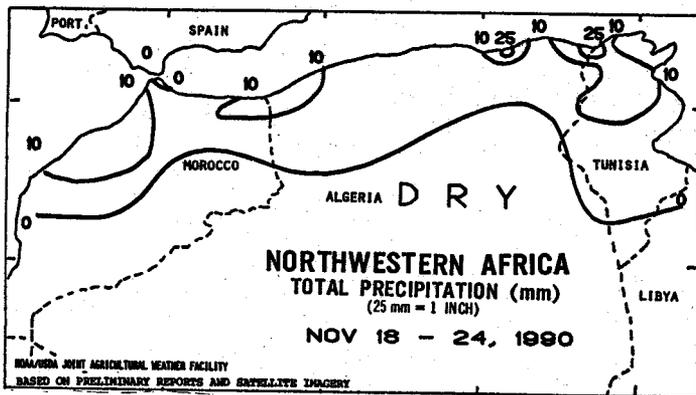
AUSTRALIA ... Dryness continues to stress unirrigated summer crops in the east. Rain slows maturation and drydown of winter grains in sections of Western Australia.



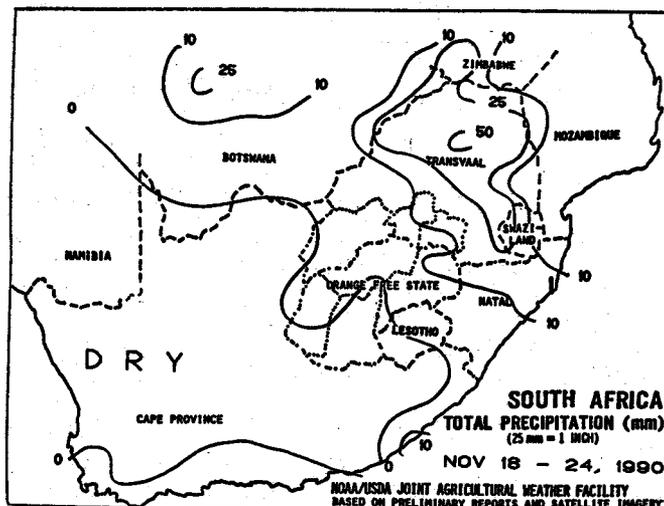
WESTERN USSR ... Unseasonably mild weather continued over the region. Weekly average temperatures were 2-5 degrees Celsius (C) above normal in the north and 5-8 degrees C above normal in the south. However, temperatures were low enough to keep winter grains dormant as far south as the southern Ukraine and the western North Caucasus. Widespread precipitation covered the region, falling mainly as rain early in the week which changed to light snow by week's end. An exception was the southwestern Ukraine where the weather continued mostly dry. Although this past week's mild weather favored winter grains, most areas lack a protective snow cover, leaving the crop vulnerable to potential extreme cold.



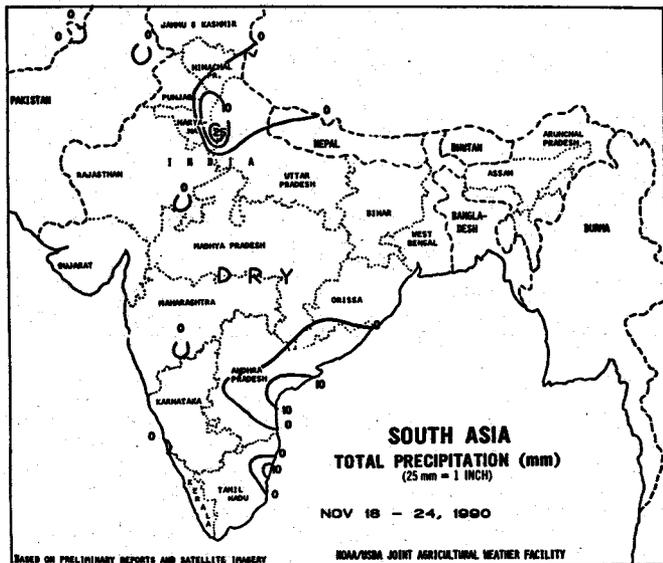
EUROPE ... A slow moving area of low pressure brought widespread moderate to heavy rain and isolated snow (15-50mm) from southern England eastward to Poland and Czechoslovakia. Very heavy rain (60-150mm) on saturated soils likely caused localized flooding in sections of Switzerland and southwestern Germany. Seasonably cool temperatures (mean weekly temperatures 3-5 degrees C) across the north caused some winter crops to become dormant or semidormant. In the southeast, scattered showers (10-40mm) continued to improve soil moisture levels in western sections of the Balkans, although eastern sections of Bulgaria and Romania remain unfavorably dry for fall growth of winter crops. Moisture stress on winter crops in the region was further increased by much above-normal temperatures (mean weekly temperatures 4-8 degrees C above normal).



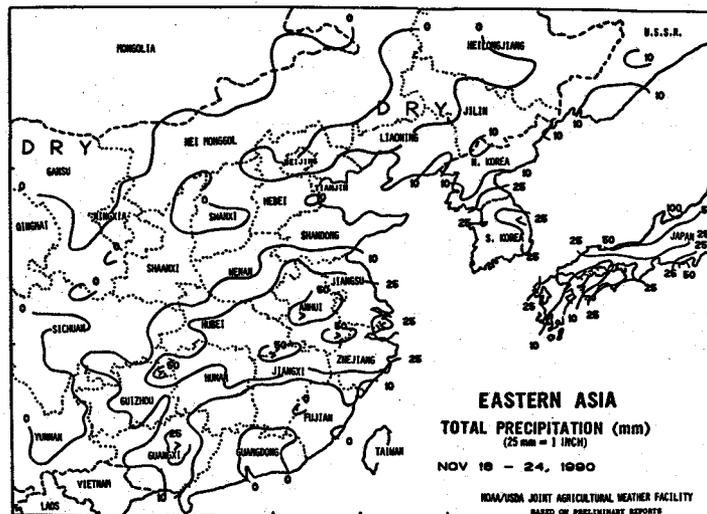
NORTHWESTERN AFRICA ... Following last week's moderate to heavy rains, drier weather covered winter grain areas in eastern Algeria and Tunisia. Precipitation amounts, ranging from 5 to 15mm, kept topsoils moist but caused few delays in fieldwork. In Morocco, light precipitation (10-22mm) over northern winter grain areas increased topsoil moisture for planting. However, southern crop areas received minimal rain (precipitation less than 5mm) and conditions remained too dry for planting.



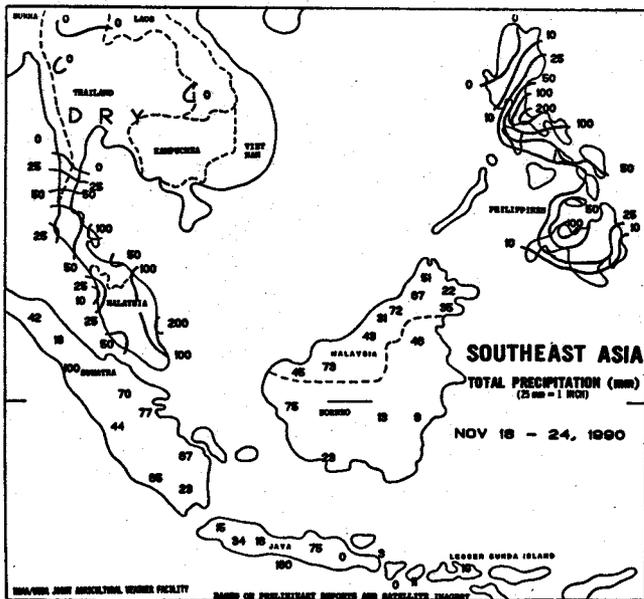
SOUTH AFRICA ... Drier- and warmer-than-normal weather persisted over primary corn areas of the western and central Maize Triangle, causing further planting delays. Light to moderate rain (5-31mm) in eastern corn regions maintained favorable conditions for corn establishment. Drier weather returned to crop areas of Natal and the Cape Province, with only local areas along the coast receiving more than 10mm.



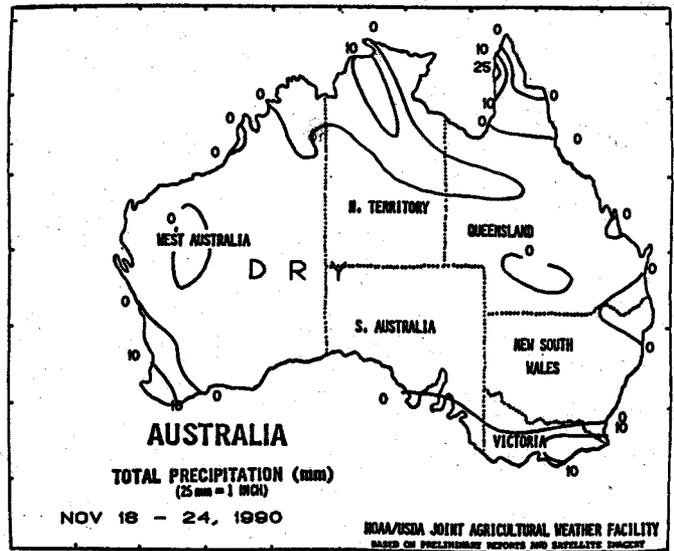
SOUTH ASIA ... Unseasonably heavy showers (10-37mm) over northern India from eastern Punjab to westernmost Uttar Pradesh benefited local reservoirs but caused winter wheat planting delays. Elsewhere, dry, seasonable weather favored wheat planting and summer crop harvests. In the south, light showers (2-14mm) were limited to coastal regions of Tamil Nadu and Andhra Pradesh.



EASTERN ASIA ... Widespread rain (10-45mm) fell over much of the Yangtze Valley and southern sections of the North China Plain, favoring fall growth of winter crops and replenishing irrigation reservoirs depleted by below-normal rainfall during the late summer and early fall. Scattered, mostly light rain (less than 10mm) covered northern sections of the North China Plain, while Manchuria remained seasonably dry. Freezing and subfreezing minimum temperatures (0 to -7 degrees C) occurred for the first time this fall in nearly all of Shangdong and Henan, inducing hardening of winter grains. In Japan and the Korean Peninsula, rain (15-50mm) persisted over nearly all crop areas, including isolated very heavy rain (90-120mm) and possible flooding in western Honshu. Mean weekly temperatures ranged from near normal in the North China Plain to above normal elsewhere.



SOUTHEAST ASIA ... Moderate to heavy showers continued over the Philippines from southern Luzon to northern Mindanao, with very heavy rain (100-286mm) causing some flooding in southern Luzon's copra and rice regions. Further west, showers ranged from 25 to 116mm over Vietnam's central coast, worsening local flooding. Moderate to heavy showers also continued over the Malay Peninsula, with inundating rains (100-281mm) occurring locally along the eastern coast of peninsular Thailand and western Malaysia. Rainfall continued its seasonal increase over Indonesia, but only local locations in Java received more than 50mm. Rice planting is usually well underway in Java by the end of December.



AUSTRALIA ... Mostly dry weather continued over crop areas of Queensland and New South Wales, stressing unirrigated summer crops. Persistent below-normal rainfall in eastern Australia during much of October and November allowed rapid progress of winter grain harvest, but left most soils abnormally dry. In the south, mostly dry weather favored early winter grain harvest in South Australia, and northwestern Victoria, while light to moderate rain (5-15mm) slowed maturation and drydown of winter grains in western crop areas of Western Australia. Mean temperatures ranged from slightly above normal in Queensland to below normal across the south.



SOUTH AMERICA ... In Argentina, drenching rain (75-144mm) on the 20th covered major agricultural areas of southern Cordoba, southern Santa Fe, and northern Buenos Aires. The rain delayed wheat harvesting, as well as corn, soybean, and sunflower planting. Although some areas were likely inundated by the downpours, beneficial dryness by week's end improved conditions for fieldwork and crop development. In south-central Brazil, scattered light to moderate showers (10-50mm) over southern areas slowed soybean planting. Further north, rain is needed in northern crop areas of Brazil, where rainfall has been below normal since mid-October. Beneficial rain covered southern coffee areas in Minas Gerais. Weekly average temperatures were 3-5 degrees C above normal over crop areas in Brazil and Argentina.

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

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

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(Continued from p. 12)

WEST VIRGINIA: Temperature 48°, 5 to 11° above normal. Extremes 14°; 74°. Precipitation 0.40 in. Days suitable for fieldwork 5.9. Soil moisture 27% short, 64% adequate, 9% surplus. Pasture 27% fair, 62% good, 11% excellent. Cattle, sheep good. Corn 88% good, 12% excellent; 87% harvested. Farm activities: Corn harvesting, livestock care, farm maintenance, stripping tobacco.

WISCONSIN: Temperature 41° above normal. Extremes 6°; 72°. Precipitation 0.10 to 0.50. Corn for grain 87% harvested, 97% 1989, 89% avg. Harvest, plowing competing with deer season. Ideal week for all outdoor activities.

WYOMING: Temperatures 7° above normal. Precipitation below normal. Corn harvest continues. Winter wheat fair to good. Some wind damage late in week. Additional moisture needed for good development. Livestock fair to mostly good. Culling, marketing continues.

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Washington, D.C. 20250

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ISSN 0043 1974

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**WEEKLY NEWS BULLETIN
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