

National Weather Data for Selected Cities

Weather Data for the Week Ending November 25, 1989

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	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	59	36	70	26	48	-2	1.7	.7	1.7	11.6	118	56.9	117	92	38	0	2	1	1
MOBILE	67	45	77	32	56	-1	.3	.3	.3	15.5	128	55.4	95	96	50	0	1	1	0
MONTCOMERY	64	38	76	27	51	-2	1.3	.5	1.3	14.6	157	65.2	150	96	43	0	1	1	0
AK ANCHORAGE	26	13	32	4	19	0	.3	.1	.2	8.6	172	26.2	193	92	71	0	7	4	0
BARROW	-13	-21	-9	-24	-17	-13	T	T	T	.9	86	7.1	163	82	58	0	7	4	0
FAIRBANKS	9	-3	18	-18	3	3	.3	.1	.2	3.0	123	9.8	102	84	68	0	7	4	0
JUNEAU	37	32	40	28	35	4	.7	.4	.2	23.8	129	44.6	94	99	72	0	3	4	0
KODIAK	38	25	42	15	32	-2	2.1	.8	1.5	18.2	101	48.4	89	92	64	0	5	4	1
NOME	15	3	19	-4	9	9	T	T	T	4.6	105	19.8	144	77	58	0	7	1	0
AZ PHOENIX	79	57	87	52	68	10	.1	0	.1	1.1	65	4.6	77	67	31	0	0	1	0
PRESOTT	67	34	72	29	50	8	0	-3	0	1.3	33	9.4	55	68	21	0	3	0	0
TUCSON	77	50	81	45	64	7	.1	0	.1	2.0	74	6.3	63	71	25	0	0	2	0
YUMA	80	57	85	53	69	7	T	T	T	.4	61	7.2	349	67	28	0	0	1	0
AR FORT SMITH	64	38	82	26	51	4	.6	-2	.6	4.9	53	46.7	129	90	36	0	2	2	0
LITTLE ROCK	60	41	76	32	51	2	.5	-6	.5	7.9	74	47.3	108	70	45	0	2	1	1
CA BAKERSFIELD	70	43	74	41	56	2	0	-2	0	.5	56	2.8	59	84	42	0	0	0	0
EUREKA	57	47	67	44	52	2	1.3	-2	.8	5.1	61	24.5	79	95	67	0	0	3	1
FRESNO	69	41	74	39	55	4	.3	0	.3	1.9	121	6.7	79	96	46	0	0	1	0
LOS ANGELES	74	58	90	54	66	5	0	-4	0	.6	38	3.8	38	77	45	1	0	0	0
REDDING	62	39	76	36	51	-1	1.2	-3	.9	9.7	129	29.6	90	98	60	0	0	3	1
SACRAMENTO	64	43	73	38	54	3	1.3	.7	1.1	5.9	205	15.0	111	99	59	0	0	2	1
SAN DIEGO	72	58	83	38	54	3	T	T	T	.7	49	2.7	34	79	48	0	0	0	0
SAN FRANCISCO	62	49	72	47	56	4	1.3	.7	1.3	4.0	129	11.3	73	98	67	0	0	2	1
CO DENVER	62	32	79	21	47	10	T	T	T	2.5	88	14.7	102	72	23	0	4	0	1
GRAND JUNCTION	57	31	60	26	44	8	T	T	T	.5	22	5.5	76	55	23	0	0	0	0
PUEBLO	63	24	76	13	44	6	0	-1	0	1.1	56	6.9	66	58	20	0	7	0	0
CT BRIDGEPORT	39	25	55	17	32	-11	.6	-3	.5	12.8	132	49.0	133	68	43	0	6	2	0
HARTFORD	38	19	50	1	28	-11	.5	-5	.4	14.6	136	52.6	134	75	41	0	7	3	0
DC WASHINGTON	46	31	67	23	38	-8	.4	.3	.2	14.5	174	48.2	137	74	38	0	6	2	0
FL APALACHICOLA	69	48	79	36	59	-1	1.0	.3	.6	16.9	120	51.3	101	92	54	0	0	2	1
DAYTONA BEACH	74	51	78	44	63	-1	.3	.2	.3	17.3	128	40.5	88	87	49	0	0	1	0
JACKSONVILLE	72	43	79	37	57	-3	.4	.1	.4	16.3	139	48.0	98	95	46	0	0	2	0
KEY WEST	80	69	85	63	74	0	6.3	5.7	4.1	12.3	87	29.4	79	93	70	0	0	3	2
MIAMI	81	65	87	59	73	1	.2	-2	.2	8.8	50	41.4	75	89	57	0	0	1	0
ORLANDO	76	52	78	47	64	-1	.5	.1	.5	13.3	121	41.0	87	91	47	0	0	2	0
TALLAHASSEE	70	41	77	32	55	-2	.8	-1	.4	11.3	93	57.8	98	98	49	0	1	0	0
TAMPA	77	52	78	46	65	-1	.7	.2	.5	9.4	93	38.2	87	92	51	0	0	2	0
WEST PALM BEACH	80	62	84	56	71	0	.3	.3	.3	10.5	53	36.2	64	89	53	0	0	1	0
GA ATLANTA	57	38	70	30	48	-2	1.1	.2	1.1	17.3	205	58.7	135	81	33	0	2	1	0
AUGUSTA	63	33	75	28	48	-4	.6	0	.5	7.2	100	44.5	113	93	35	0	4	2	1
MACON	62	36	74	29	49	-4	1.0	.4	.9	7.5	105	42.4	106	92	37	0	2	2	1
SAVANNAH	68	39	78	35	53	-2	.7	.6	.6	13.8	154	41.4	89	88	36	0	0	2	1
HI HILO	80	65	81	64	72	-1	.1	-3.5	.1	24.2	83	160.3	142	91	59	0	0	1	0
HONOLULU	84	71	86	67	78	2	0	-8	0	6.3	124	21.5	112	75	49	0	0	0	0
KAHULUI	82	65	83	61	74	-1	T	T	T	6.4	224	35.1	234	85	54	0	0	0	0
LIHUE	79	72	81	69	76	1	.2	-1.1	.1	11.6	102	52.7	141	82	61	0	0	3	0
ID BOISE	49	28	55	26	39	1	.2	-1	.1	2.9	125	10.2	103	98	57	0	6	3	0
LEWISTON	55	41	66	35	48	10	T	T	T	1.8	67	13.2	117	79	52	0	0	3	0
FOCATELLO	50	23	57	19	37	4	.6	.4	.4	1.9	83	9.0	94	93	45	0	7	3	0
IL CHICAGO	42	23	58	10	33	-4	.2	-3	.1	7.4	95	28.8	92	85	48	0	5	3	0
MOLINE	47	24	59	14	36	0	T	T	T	7.2	89	31.0	90	79	41	0	5	0	0
PEORIA	47	27	60	19	37	0	T	T	T	5.4	69	21.7	67	88	53	0	5	1	0
QUINCY	50	28	65	20	39	1	T	T	T	5.2	57	17.6	49	76	38	0	5	0	0
ROCKFORD	42	19	56	5	30	-4	.1	-4	.1	3.4	40	25.5	74	90	52	0	6	2	0
SPRINGFIELD	48	30	64	23	39	0	T	T	T	7.4	99	27.5	87	82	44	0	5	1	0
IN EVANSVILLE	51	31	71	23	41	-2	.1	-8	.1	6.0	76	46.0	123	86	46	0	5	1	0
FORT WAYNE	41	26	58	18	33	-4	.1	-5	0	8.1	111	33.9	107	88	54	0	5	3	0
INDIANAPOLIS	45	27	63	19	36	-3	.1	-6	.1	13.7	177	48.6	137	87	50	0	5	1	0
SOUTH BEND	42	26	53	18	34	-4	.1	-6	0	8.5	98	34.0	99	92	50	0	5	4	0
IA DES MOINES	49	22	64	10	35	0	T	T	T	7.8	120	28.5	97	78	38	0	7	1	0
SIOUX CITY	50	17	71	9	34	1	T	T	T	4.5	90	18.6	76	82	37	0	7	0	0
WATERLOO	42	16	61	4	29	-3	T	T	T	6.6	91	19.2	61	85	47	0	7	1	0
KS CONCORDIA	55	28	73	17	42	3	0	-2	0	5.3	93	24.3	92	70	33	0	4	0	0
DODGE CITY	57	27	74	20	43	3	0	-2	0	2.4	65	20.2	102	71	28	0	6	0	0
GOODLAND	59	27	77	18	43	8	0	-1	0	1.4	51	17.8	114	72	28	0	6	0	0
TOPEKA	54	28	68	12	41	1	0	-4	0	12.1	156	37.8	119	86	36	0	5	0	0
WICHITA	57	31	75	15	44	3	0	-3	0	7.7	108	34.2	125	76	35	0	2	0	0
KY BOWLING GREEN	53	31	72	20	42	-2	.3	-6	.3	8.0	87	56.5	129	82	42	0	3	1	0
LEXINGTON	47	28	66	19	37	-5	.1	-8	.1	10.5	128	51.1	124	76	44	0	5	2	0
LOUISVILLE	50	31	69	21	41	-3	.1	-7	.1	7.6	86	49.5	126	73	39	0	5	2	0
LA ALEXANDRIA	69	49	78	33	59	4	1.1	.1	1.1	2.9	31	55.0	118	86	57	0	0	1	1
BATON ROUGE	70	48	78	34	59	2	1.2	.2	1.2	19.2	187	80.0	160	97	66	0	0	1	1
LAKE CHARLES	68	50	79	35	59	1	1.5	.4	1.3	4.6	36	57.9	120	97	69	0	0	4	1
NEW ORLEANS	69	52	79	39	60	2	.8	-2	.8	23.4	199	59.7	112	96	69	0	0	3	1

Based on 1951-80 normals

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																		.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	67	44	76	31	55	2	2.2	1.3	2.2	4.9	54	57.6	147	93	49	0	2	2	1	0	0
ME CARIBOU	21	9	26	-1	15	-13	.3	-.4	.2	7.8	85	29.2	90	83	57	0	7	4	1	0	0
PORTLAND	33	18	44	3	25	-11	.7	-.5	.5	12.3	113	38.4	101	84	49	0	7	3	0	0	0
MD BALTIMORE	44	25	66	17	34	-10	.5	-.2	.3	10.3	113	49.5	131	79	41	0	6	2	0	0	0
SALISBURY	45	24	62	13	34	-11	.9	-.2	.7	14.8	145	50.8	123	82	42	0	6	2	1	0	0
MA BOSTON	38	24	49	15	31	-12	.6	-.4	.3	14.5	143	41.6	108	75	45	0	7	2	2	0	0
CHATHAM	39	27	53	20	33	-10	1.7	-.6	1.1	13.8	124	44.7	109	86	57	0	6	3	2	0	0
MI ALPENA	35	15	45	0	25	-8	.1	-.5	.1	5.7	81	19.7	74	83	53	0	7	2	2	0	0
DETROIT	40	24	56	14	32	-5	.1	-.6	.1	7.0	113	27.7	100	85	57	0	6	0	0	0	0
FLINT	39	21	52	12	30	-6	.1	-.5	.1	8.3	131	29.6	112	81	47	0	6	0	0	0	0
GRAND RAPIDS	39	21	51	12	30	-6	.1	-.6	.1	11.0	133	32.6	107	84	50	0	6	0	0	0	0
HUGHTON LAKE	34	15	43	-2	24	-8	.1	-.5	.1	3.5	50	18.4	72	90	58	0	7	1	0	0	0
LANSING	36	18	49	9	27	-9	.1	-.6	.1	7.4	109	28.8	107	92	53	0	7	1	0	0	0
MARQUETTE	30	9	44	2	19	-8	.3	-.4	.3	7.5	77	26.4	77	93	64	0	7	3	0	0	0
MUSKEGON	40	25	50	19	33	-4	.1	-.6	.0	6.4	80	23.6	84	80	50	0	6	2	0	0	0
SAULT ST. MARIE	31	11	42	-1	21	-8	.6	-.1	.3	7.2	76	23.6	78	97	58	0	7	5	0	0	0
MN ALEXANDRIA	33	12	58	0	22	-3	.3	-.3	.2	5.4	105	20.7	87	93	60	0	7	2	0	0	0
DULATH	30	11	45	-4	20	-5	.1	-.3	.0	6.4	93	25.6	92	84	51	0	7	3	0	0	0
INT'L FALLS	28	6	44	-6	17	-4	.1	-.3	.1	3.7	63	20.1	87	83	53	0	7	0	0	0	0
MINNEAPOLIS	34	13	56	0	24	-6	.3	-.1	.3	3.0	56	22.7	91	89	50	0	7	3	0	0	0
ROCHESTER	35	11	59	-4	23	-7	.3	-.3	.0	3.2	47	22.4	82	85	58	0	7	2	0	0	0
MS GREENWOOD	63	40	72	30	52	1	.4	-.8	.3	8.8	90	60.5	129	91	41	0	2	2	0	0	0
JACKSON	67	41	75	30	54	1	1.1	-.1	1.1	12.1	134	48.0	105	97	51	0	2	1	1	1	1
MERIDIAN	68	38	76	28	53	0	.9	-.9	.9	15.5	174	63.4	135	97	43	0	3	1	1	1	1
MO CAPE GIRARDEAU	55	36	77	30	45	-	.9	-.9	.9	5.7	62	48.2	120	87	48	0	3	0	0	0	0
COLUMBIA	53	29	67	20	41	0	.0	-.5	.0	3.4	38	33.9	98	77	40	0	5	0	0	0	0
KANSAS CITY	53	30	69	14	41	0	.0	-.3	.0	11.7	130	37.1	108	78	38	0	3	0	0	0	0
SAINT LOUIS	54	35	71	29	44	3	.0	-.6	.0	3.2	46	27.9	90	71	37	0	3	0	0	0	0
SPRINGFIELD	57	35	70	21	46	4	.2	-.5	.2	3.7	38	30.7	84	85	38	0	3	0	0	0	0
MT BILLINGS	53	30	62	18	42	9	.0	-.2	.0	3.0	96	13.8	98	74	30	0	5	0	0	0	0
GLASGOW	43	24	63	13	33	7	.0	-.1	.0	1.3	74	9.9	95	85	49	0	6	0	0	0	0
GREAT FALLS	48	27	61	12	38	6	.0	-.2	.0	2.9	120	21.1	150	80	38	0	5	1	0	0	0
HAVRE	43	26	56	13	34	7	.0	-.1	.0	1.5	74	10.6	95	89	52	0	6	0	0	0	0
HELENA	50	22	67	12	36	7	.0	-.1	.0	2.0	102	11.8	110	84	38	0	6	0	0	0	0
KALISPELL	43	27	52	19	35	6	.2	-.1	.1	5.2	166	19.4	139	96	67	0	6	2	0	0	0
MILES CITY	48	27	70	17	38	9	.0	-.1	.0	1.3	51	13.7	102	77	42	0	6	0	0	0	0
MISSOULA	49	29	59	18	39	9	.0	-.2	.0	2.1	80	12.8	109	93	50	0	6	2	0	0	0
NE GRAND ISLAND	53	23	72	14	38	4	.0	-.2	.0	7.4	176	21.5	96	78	34	0	7	0	0	0	0
LINCOLN	53	21	72	10	37	2	.0	-.2	.0	9.1	168	23.2	89	78	31	0	7	0	0	0	0
NORFOLK	50	19	73	10	35	2	.0	-.1	.0	3.9	98	15.8	69	81	34	0	7	0	0	0	0
NORTH PLATTE	56	19	72	10	37	5	.0	-.1	.0	1.2	40	13.8	73	85	34	0	7	1	0	0	0
OMAHA	49	25	71	14	37	1	.0	-.3	.0	7.4	111	21.8	75	65	38	0	7	0	0	0	0
SCOTTSBLUFF	57	23	73	12	40	7	.0	-.1	.0	2.4	107	9.3	67	81	29	0	7	1	0	0	0
VALENTINE	51	21	70	7	36	5	.0	-.1	.0	2.6	99	12.0	72	65	31	0	7	0	0	0	0
NV ELY	59	19	72	13	39	8	.0	-.1	.0	.8	44	6.5	81	76	21	0	7	1	0	0	0
LAS VEGAS	72	46	75	45	59	8	.0	-.1	.0	.1	2.2	60	42	19	0	0	0	0	0	0	0
RENO	60	27	67	21	43	6	.3	-.2	.3	1.9	195	7.1	122	80	29	0	6	1	0	0	0
WINNEMUCCA	56	21	63	14	39	3	.5	-.4	.3	2.0	134	5.2	78	89	40	0	5	3	0	0	0
NH CONCORD	34	14	43	-5	24	-11	.4	-.5	.2	12.0	130	37.0	113	89	49	0	7	5	0	1	0
NJ ATLANTIC CITY	43	22	62	11	33	-11	.6	-.3	.6	13.2	147	48.8	130	76	40	0	6	2	0	1	0
NM ALBUQUERQUE	63	35	67	32	49	8	.0	-.1	.0	1.3	65	4.7	64	54	24	0	2	0	0	0	0
CLOVIS	65	35	72	25	50	6	.0	-.1	.0	1.5	37	14.1	86	56	23	0	3	0	0	0	0
ROSWELL	71	36	77	27	53	9	.0	-.1	.0	2.2	70	6.2	61	51	18	0	2	0	0	0	0
NY ALBANY	37	20	48	15	29	-8	.4	-.3	.3	10.2	118	38.8	121	82	44	0	7	3	0	0	0
BINGHAMTON	32	16	49	10	24	-12	.2	-.5	.1	9.4	105	36.9	111	88	54	0	7	4	0	0	0
BUFFALO	35	22	47	16	28	-10	.3	-.6	.2	11.0	119	38.2	115	89	53	0	7	3	0	0	0
NEW YORK	41	30	59	26	36	-9	.5	-.4	.3	12.9	132	53.4	140	68	43	0	6	3	0	0	0
ROCHESTER	36	19	51	13	27	-11	.4	-.2	.4	7.7	103	30.9	109	84	54	0	7	2	0	0	0
SYRACUSE	36	21	51	13	29	-10	.7	-.1	.6	12.6	137	34.6	99	87	52	0	7	4	1	1	1
NC ASHEVILLE	52	27	71	19	39	-5	1.1	-.4	1.1	15.5	163	57.2	143	90	35	0	7	1	1	1	1
CHARLOTTE	52	33	68	23	43	-6	1.1	-.4	1.1	14.4	168	46.1	118	84	36	0	4	2	1	1	1
GREENSBORO	50	29	66	19	39	-7	.9	-.3	.9	14.0	157	47.1	122	81	40	0	5	1	1	1	1
HATTERAS	59	38	68	28	49	-6	1.3	-.2	1.0	33.1	226	83.7	166	92	46	0	2	2	1	1	1
NEW BERN	54	33	68	26	44	-9	.1	-.6	.1	15.2	131	57.7	118	91	39	0	3	1	0	0	0
RALEIGH	51	30	69	20	40	-8	1.2	-.5	.9	11.4	136	50.8	134	80	34	0	5	2	1	1	1
WILMINGTON	58	33	71	27	45	-8	.6	-.2	.5	15.9	141	59.4	120	88	37	0	3	2	1	1	1
ND BISMARCK	43	16	65	-3	29	4	.1	-.1	.1	1.9	75	10.9	75	89	47	0	6	1	0	0	0
FARGO	34	11	60	-6	22	-2	.3	-.1	.3	3.1	81	18.4	99	92	64	0	7	2	0	0	0
GRAND FORKS	33	9	58	-7	21	-1	.1	-.1	.1	1.3	35	11.5	65	88	60	0	7	1	0	0	0
WILLISTON	41	16	62	-8	29	-4	.1	-.1	.1	2.7	109	11.1	86	90	52	0	6	1	0	0	0
OH AKRON-CANTON	38	22	56	17	30	-8	.2	-.5	.1	8.1	111	37.0	114	88	51	0	7	4	0	0	0
CINCINNATI	47	28	67	19	37	-4	.2	-.7	.1	9.0	113	47.5	131	76	42	0	5	1	0	0	0
CLEVELAND	40	26	57	19	33	-6	.3	-.4	.1	12.3	162	41.8	131	78	48	0	5	3	0	0	0
COLUMBUS	43	26	61	19	35	-5	.1	-.6	.1	7.1	104	41.8	124	80	45	0	5	3	0	0	0

Weather Data for the Week Ending November 25, 1989

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	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	42	25	60	17	34	-6	.1	-5	.1	10.4	159	47.1	149	82	52	0	5	1	0
TOLEDO	40	24	57	15	32	-5	.1	-5	0	6.5	102	36.2	127	81	50	0	5	3	0
YOUNGSTOWN	38	24	56	17	31	-7	.1	-6	0	10.9	136	41.3	122	85	52	0	6	3	0
OK OKLAHOMA CITY	66	40	78	23	53	7	T	T	T	7.9	106	40.5	138	82	31	0	2	1	0
TULSA	64	41	81	25	53	6	.2	-4	.2	6.3	63	29.4	81	75	33	0	2	1	0
OR ASTORIA	52	41	56	36	47	1	1.6	-9	.5	12.6	71	47.9	85	97	79	0	0	6	0
BURNS	49	17	57	15	33	0	.3	-1	.1	1.3	60	9.3	110	98	54	0	7	3	1
MEDFORD	52	30	57	26	41	1	.6	-1	.3	3.3	69	14.1	90	100	65	0	7	3	0
PENDLETON	54	35	68	30	45	1	.1	-3	.1	2.2	83	12.2	121	85	53	0	2	1	0
PORTLAND	53	41	56	34	47	3	1.2	-1	.6	6.1	69	25.9	87	98	76	0	0	4	1
SALEM	53	42	58	36	48	4	1.3	-2	.5	6.4	67	23.6	74	97	79	0	0	3	1
PA ALLENTOWN	40	21	60	16	31	-9	.5	-4	.2	11.9	117	43.4	109	76	43	0	7	3	0
ERIE	39	26	54	22	32	-7	.4	-5	.2	10.1	95	38.4	107	87	49	0	6	5	0
HARRISBURG	42	24	65	21	33	-9	.4	-4	.3	9.8	109	45.3	128	74	39	0	7	2	0
PHILADELPHIA	42	26	62	19	34	-10	.5	-4	.2	10.1	113	47.4	127	85	50	0	7	3	0
PITTSBURGH	40	23	58	16	32	-8	.1	-5	0	8.0	111	39.9	120	80	49	0	6	3	0
SCRANTON	36	21	53	17	28	-10	.3	-4	.1	12.1	142	37.9	119	80	45	0	6	3	0
RI PROVIDENCE	40	22	55	6	31	-10	.5	-5	.3	17.3	161	54.0	135	78	44	0	7	2	0
SC CHARLESTON	67	41	76	33	54	-1	.7	.2	.5	19.2	200	50.6	106	86	39	0	0	2	1
COLUMBIA	60	32	72	25	46	-6	.5	-2	.3	9.3	105	46.6	103	94	36	0	5	2	0
FLORENCE	58	31	72	24	45	-8	1.0	.4	.9	11.4	139	46.8	115	93	33	0	5	2	1
GREENVILLE	54	30	71	20	42	-8	1.5	.7	1.5	12.2	115	45.7	99	85	34	0	4	1	1
SD ABERDEEN	40	16	68	5	28	3	T	T	T	3.2	108	18.0	106	91	47	0	7	3	0
HURON	43	21	69	10	32	2	T	T	T	2.5	76	13.9	78	82	37	0	7	0	0
RAPID CITY	52	23	75	12	38	6	T	T	T	4.7	211	12.4	80	85	35	0	6	1	0
STOIX FALLS	44	16	65	11	30	1	T	T	T	4.2	83	15.3	66	83	36	0	7	0	0
TN CHATTANOOGA	55	33	72	24	44	-3	1.5	.5	1.5	18.4	173	68.1	146	92	44	0	4	1	1
KNOXVILLE	51	30	67	20	41	-6	.9	0	.9	15.3	175	53.1	127	89	46	0	4	1	1
MEMPHIS	60	41	73	31	50	1	.7	-4	.7	12.1	130	56.9	124	86	40	0	2	2	1
NASHVILLE	56	34	76	21	45	-1	.6	-3	.6	13.4	147	54.6	127	80	37	0	3	1	1
TX ABILENE	71	44	82	28	57	6	.2	-1	.2	5.3	81	27.5	124	83	34	0	1	2	0
AMARILLO	68	33	77	24	51	8	0	-1	0	2.5	71	19.0	104	61	19	0	3	0	1
AUSTIN	70	49	79	36	60	3	1.0	.5	.9	3.6	41	25.6	89	95	59	0	0	3	1
BEAUMONT	68	52	76	38	60	1	1.5	.4	.9	5.4	43	62.9	127	96	69	0	0	2	2
BROWNSVILLE	77	58	88	46	68	2	T	-3	T	6.3	63	19.3	81	96	61	0	0	0	0
CORPUS CHRISTI	72	55	81	46	64	0	T	-3	T	3.9	37	17.3	58	96	67	0	0	0	0
DEL RIO	69	50	75	40	60	2	.2	.1	.2	2.7	47	8.4	51	81	46	0	0	1	0
EL PASO	69	41	73	32	55	6	T	-1	T	.7	30	7.1	89	68	25	0	1	0	0
PORT WORTH	70	45	78	29	57	4	.5	0	.5	4.9	60	39.5	136	91	45	0	1	1	0
GALVESTON	70	56	76	42	63	2	1.1	.3	.9	5.8	52	40.8	112	92	75	0	0	3	1
HOUSTON	68	50	79	36	59	0	.7	-1	.6	6.3	53	56.5	135	97	67	0	0	2	1
LUBBOCK	70	36	78	27	53	7	0	-1	0	3.8	87	14.7	86	64	22	0	3	0	0
MIDLAND	72	40	81	29	56	6	T	-1	T	3.0	74	7.9	61	82	27	0	1	0	0
SAN ANGELO	71	44	85	28	58	5	.3	.1	.2	3.5	59	17.2	100	85	38	0	1	2	0
SAN ANTONIO	69	51	78	35	60	3	.9	.4	.8	8.9	104	21.4	79	96	59	0	0	2	1
VICTORIA	70	53	80	40	62	1	.6	.1	.3	8.0	70	24.4	71	95	67	0	0	0	0
WACO	70	47	79	32	59	4	.2	-3	.2	1.5	18	27.9	98	89	53	0	1	2	0
WICHITA FALLS	70	41	81	26	56	6	T	-3	T	7.6	106	36.4	145	85	33	0	2	1	0
UT CEDAR CITY	80	30	65	22	45	9	0	0	0	.7	30	6.2	66	71	27	0	5	0	0
SALT LAKE CITY	49	30	53	26	40	3	.2	0	.2	2.5	86	10.1	74	98	55	0	5	2	0
VT BURLINGTON	33	16	42	4	24	-9	.3	-4	.2	10.9	131	34.2	112	88	52	0	7	3	0
VA NORFOLK	52	34	68	26	43	-7	1.9	1.3	1.3	11.7	117	53.6	130	73	35	0	3	2	2
RICHMOND	49	28	67	19	39	-8	1.0	.2	.7	11.9	119	47.1	118	77	40	0	6	2	1
ROANOKE	49	29	67	20	39	-6	.7	.1	.7	17.0	195	51.8	145	78	37	0	6	2	1
WA QUILLAYUTE	49	39	52	32	44	1	3.7	.4	1.2	26.0	96	75.8	88	100	83	0	1	6	4
SEATTLE-TACOMA	50	41	54	39	46	2	1.5	.2	.6	9.6	96	29.9	96	99	77	0	0	6	1
SPOKANE	45	31	55	23	38	5	.3	-2	.1	3.0	87	12.6	92	98	69	0	3	4	0
YAKIMA	50	28	59	23	39	3	.2	-1	.1	1.3	84	5.2	82	97	62	0	5	2	0
WV BECKLEY	43	24	62	16	33	-7	.4	-3	.3	10.4	120	40.9	106	79	40	0	6	2	0
CHARLESTON	48	28	66	22	38	-5	.1	-6	.1	13.8	173	55.7	145	80	39	0	6	2	0
HUNTINGTON	48	28	66	21	38	-6	.2	-5	.2	12.7	165	57.4	155	74	38	0	6	2	0
PARKERSBURG	45	26	62	19	35	-7	T	-6	T	12.2	168	51.2	148	73	38	0	6	0	0
WI GREEN BAY	37	17	48	6	27	-4	T	-4	T	5.7	84	18.9	73	80	42	0	7	0	0
LACROSSE	39	16	60	4	27	-5	.2	-1	.2	5.4	79	21.9	76	91	48	0	7	1	0
MADISON	39	16	52	3	27	-5	.1	-3	.1	3.2	47	23.6	82	85	53	0	7	2	0
MILWAUKEE	38	20	52	7	29	-5	.7	.2	.7	7.8	115	30.0	106	85	53	0	6	2	1
WAUSAU	33	14	46	1	23	-5	T	-4	T	5.3	69	21.5	72	84	53	0	7	1	0
WY CASPER	53	28	61	19	41	10	.1	0	.1	4.6	216	13.3	126	82	29	0	6	2	0
CHEYENNE	55	29	69	19	42	9	T	-1	T	2.2	98	12.0	93	79	26	0	5	1	0
LANDER	54	27	62	19	40	12	0	0	0	3.4	127	14.8	120	73	27	0	6	0	0
SHERIDAN	52	23	68	13	38	8	.1	-1	.1	3.8	126	12.6	89	87	36	0	6	1	0

National Agricultural Summary

November 20-26, 1989

HIGHLIGHTS: Lack of moisture continued to slow winter wheat growth in the **Great Plains**. Soil moisture was mostly short. Rain slowed harvests in the **Delta and Southeast**, where soil moisture was adequate to surplus. Soil moisture was also adequate to surplus in the **East**.

Winter wheat was mostly fair to good with 94 percent (%) of the acres emerged, 1 percentage point ahead of the 5-year average. Soybean harvest was 97% complete, 5 points ahead of normal. Cotton harvest was 86% complete, 17 points ahead of normal.

SMALL GRAIN: Winter wheat was mostly fair to good with 94% of the acres emerged, 1 point ahead of normal. Crop emergence lagged 12 points behind normal in Georgia and 7 points behind in Texas. Emergence was near or ahead of normal in the other major producing States. Lack of moisture continued to slow growth in the Great Plains. High winds continued to damage winter wheat in western Nebraska. A few fields were sprayed for Russian wheat aphids. Wind damage was light in Montana. In Texas, rain improved growth in the Blacklands and central area, but the Plains remained dry. High winds further depleted soil moisture in the Plains area late in the week. Rain was needed in Oklahoma and Kansas to promote growth for grazing. In Arkansas, rain improved emergence and growth.

CORN: Corn harvest was nearly complete except in the eastern Corn Belt. Ohio's harvest was 88% complete, 2 points ahead of normal. Pennsylvania's harvest was 75% complete, 5 points behind normal. In Indiana, harvest continued where field conditions allowed.

SOYBEANS: Soybean harvest was 97% complete, 5 points ahead of normal. Harvest was complete or nearly complete except in the Southeast. Harvest advanced 10 or more points in Alabama, Georgia, North Carolina, and South Carolina. Harvest lagged 5 points behind normal in South Carolina but was near or ahead of normal in other States. In Alabama, rain at midweek slowed harvest.

COTTON: Cotton harvest was 86% complete, 17 points ahead of normal. Harvest was complete in Louisiana, Missouri, and Tennessee and nearly complete in Alabama, Arkansas, California, and Mississippi. Harvest was near or ahead of normal in all the

States. Harvest advanced 10 or more points in Georgia, New Mexico, Oklahoma, and Texas. Rain at midweek slowed harvest in Alabama. Harvest progressed well in the Plains area of Texas and was nearly complete in the Blacklands. Texas' harvest was 77% complete, 31 points ahead of normal. Oklahoma's harvest was 40 points ahead of the 30% average. Stalk shredding and disking were active in Arizona and California.

OTHER FIELD CROPS: In Texas, sorghum harvest was 97% complete, 4 points ahead of normal. Oklahoma's harvest was 90% complete, 10 points ahead of normal. Rain slowed peanut harvest in central Texas. Texas' harvest was 81% complete, 2 points ahead of normal. Oklahoma's peanut harvest was 92% complete, 2 points ahead of normal. Burley tobacco stripping continued in Kentucky and Tennessee.

FRUIT AND NUTS: In Florida, most citrus areas received some rain. New growth was slowing. Fruit color was good. Fruit for processing harvest activity increased. Grapefruit, tangerine, and tangelo harvests were active. Pecan harvest continued in Alabama, Arkansas, Louisiana, Mississippi, and Texas. Harvest lagged behind normal in Texas. Quality was good but yields were down. Citrus harvest continued in the Rio Grande Valley. Some leaf discoloring was evident in younger groves. Citrus and pecan harvests were active in Arizona and California. In California, date harvest was nearly complete.

VEGETABLES: Fall crop harvests gained momentum in central and southern Florida. Iceberg lettuce harvest began in the Belle Glade area. Scattered showers slowed vegetable plantings and harvests in the Rio Grande Valley, Texas. Rain at midweek slowed vegetable harvests in the San Antonio-Winter Garden area. Vegetable harvests were active in Arizona. In California, desert lettuce harvest began. In the Kern District, winter crop potato harvest was underway. Onion and garlic planting began in the San Joaquin Valley.

PASTURES AND LIVESTOCK: Pasture condition was good to fair in the East. Lack of moisture continued to limit winter wheat grazing in the central and southern Great Plains. Open weather has allowed extensive grazing of crop residue in Iowa.

Crop Progress

FOR WEEK ENDING NOVEMBER 26, 1989

SOYBEANS % HARVESTED			
	1989	1988	AVG.
ALA	86	79	84
ARK	97	86	82
GA	80	85	80
ILL	100	100	97
IND	99	99	97
IOWA	100	100	100
KANS	100	99	90
KY	94	92	87
LA	99	91	92
MICH	100	80	90
MINN	100	99	99
MISS	92	75	82
MO	100	100	84
NEBR	100	100	100
N C	62	60	55
OHIO	100	99	98
S C	51	63	56
S DAK	100	100	100
TENN	100	94	82
19 STATES	97	95	92

THESE 19 STATES PRODUCED 95% OF THE 1988 SOYBEANS CROP.

COTTON % HARVESTED			
	1989	1988	AVG.
ALA	95	94	94
ARIZ	84	79	86
ARK	98	96	94
CALIF	98	97	96
GA	92	86	90
LA	100	97	96
MISS	96	94	93
MO	100	100	95
N MEX	80	70	60
N C	82	82	82
OKLA	70	65	30
S C	90	92	91
TENN	100	96	92
TEX	77	55	46
14 STATES	86	75	69

THESE 14 STATES PRODUCED 99% OF THE 1988 COTTON CROP.

Crop Condition
PERCENT

FOR WEEK ENDING NOVEMBER 26, 1989

WINTER WHEAT % EMERGED			
	1989	1988	AVG.
ARK	87	73	NA
CALIF	40	30	34
COLO	100	100	100
GA	28	38	40
IDAHO	100	100	100
ILL	100	100	91
IND	97	97	95
KANS	98	98	95
MICH	100	97	95
MO	98	97	85
MONT	97	95	92
NEBR	100	100	100
N C	56	65	NA
OHIO	96	96	96
OKLA	95	95	95
OREG	97	90	90
S DAK	100	100	100
TEX	84	99	91
WASH	99	97	97
19 STATES	93	95	NA

EXCL. STATES WITH NA 94 96 93

THESE 19 STATES PRODUCED 87% OF THE 1989 WINTER WHEAT CROP.
NA - NOT AVAILABLE.

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	0	6	15	75	4
CALIF	NA				
COLO	2	5	30	60	3
GA	0	1	21	77	1
IDAHO	0	3	9	70	18
ILL	0	0	6	77	17
IND	0	0	13	78	9
KANS	0	22	38	32	8
MICH	0	3	12	60	25
MO	1	9	48	42	0
MONT	0	2	23	56	19
NEB	1	19	69	11	0
N C	0	3	22	72	3
OHIO	0	2	25	59	14
OKLA	0	10	35	55	0
OREG	0	10	35	55	0
S DAK	0	7	25	54	14
TEX	4	34	39	22	1
WASH	0	0	45	55	0
19 STATE	1	14	34	45	6
PREV WEEK	1	10	39	45	5
PREV YEAR	1	8	37	47	7

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 0.50 to 1.00 in. south; 1.00 to 2.00 in. north, central. Temperatures within 1 to 2° of normal.

Days suitable for fieldwork 3.9. Soil moisture 64% adequate, 36% surplus. Heavy rains mid week slowed field activities. Cotton 95% harvested, 94% 1988, 94% avg. Soybeans 86% harvested, 79% 1988, 84% avg. Winter wheat 72% seeded, 74% 1988, 74% avg. Livestock mostly good; pastures mostly fair. Primary activities: Harvesting cotton, soybeans, pecans, late fall vegetable crops; preparing land, planting winter annuals; shredding cotton stalks; building, repairing fences; maintaining harvest equipment; general care of livestock, poultry.

ARIZONA: Scattered rainfall early in period, first rainfall since October 25th, none to 0.18 in.; mostly clear. Temperatures 4 to 10° above normal. Extremes 20°; 87°.

Cotton harvest, stalk shredding, plow down active. Alfalfa hay harvest completed southeast, near completion elsewhere; light activity; new stands, renovations normal. Sheeping off moderate west, light central. Small grains 23% planted, 18% 1988, 11% avg. Harvest, packing lemons, oranges, grapefruit, tangerines continued west, central; boston, leaf, romaine lettuce, broccoli, cauliflower, bok choy, spinach harvests continued west. Apple packing continued east. Harvest, packing pecans continued Statewide.

ARKANSAS: Temperatures slightly above normal, scattered showers mid week. Extremes 20°; 87°. Rainfall 0.11 to 1.44 in.

Days suitable for fieldwork 5.0. Soil moisture 51% short, 40% adequate, 9% surplus. Soybeans 100% mature, 96% 1988, 97% avg.; 86% fair, 14% good. Cotton 82% fair, 18% good. Wheat 96% planted, 87% 1988, 79% avg. Oats 95% planted, 94% 1988, 90% avg. Main activities: Cotton, soybean harvest; wheat, oat seeding; pecan harvest; disking; cleaning, storing farm equipment; livestock chores. Cotton scrapping remains. Few scattered soybean fields to be harvested. Mid week showers helped wheat emergence, growth. Oat stands good. Pecan harvest full swing, yield, quality down. Pastures below average. Hay feeding increased. Some water ponds dry northwest. Livestock good.

CALIFORNIA: Storm brought cooler temperatures, wet weather northern areas 24th, 25th.

Fieldwork progress good thru 22nd. General storms, except Desert areas remainder. Late cotton, rice harvests progressed. Burning rice stubble, shredding, discing cotton stalks. Seeding winter forage, grain increased. Harvest late corn, dry beans. Grain sorghum harvest. Sheep grazing alfalfa. Date harvest nearing end. Susan, Zutano avocados harvested. Dormancy in vineyards increased pruning activities. Kiwi harvest ongoing. Pruning, fertilizing, weed control continued in fruit, nut orchards. Pecans harvested. Picking, packing of navel oranges proceeded good quality, color. Lemons, mandarins harvested. Grapefruit harvest continued good yields, quality. Broccoli moderate supply, generally good quality. Cauliflower moderate supply, variable quality. Carrots harvested Kern district. Celery moderate supply. Head lettuce moderate supply, Huron district. Desert lettuce

harvest began. Harvest winter crop potatoes underway Kern district. Onion, garlic planting underway San Joaquin Valley. Livestock good, statewide. Range, pasture fair to poor most areas. Rainfall received 25th improved conditions for grass germination. Supplemental feeding continued. Fall calving slowing.

COLORADO: Very little precipitation over the State. Temperatures mild with record highs being set in southeast. Heavy snow in northern, central mountains on weekend, precipitation lower elevations mostly a trace to 0.10 in. Temperatures 4 to 7° above normal statewide.

FLORIDA: Temperatures 4° above normal, to 3° below normal. Extreme highs upper 70s Panhandle to around 80° elsewhere, north with low 80s central, upper 80s southeast coast. Overnight lows cold as low 30s Panhandle, Big Bend to mid 40s central, southern interior, mid 50s southeast coast. Rainfall around 0.50 in. Panhandle; around 1.00 in. many locations elsewhere. However, amounts varied; some locations less than 0.25 in.

Panhandle soil moisture short few areas, mostly adequate. Light rains over much of Peninsula relieved moisture shortages somewhat; more rain needed, especially extreme northern Peninsula. Cotton, soybean harvests well advanced. Sugarcane harvest continued active. Land preparation, some small grain seeding continued. Most Panhandle, northern, central Peninsula pastures vary from fair to good. Limited grazing on winter small grain pastures, Panhandle. Southern Peninsula grazing still good to excellent. Cattle generally good. Some rain most citrus areas. Irrigation all areas before rain. New growth slowing. Good natural on tree fruit color. Processing harvest increasing. Grapefruit movement active for Thanksgiving. Tangerine, tangelo harvest increasing. Caretakers busy preparing for winter. Temperatures mostly cooler, scattered rain major vegetable producing areas. Fall crop harvest gaining momentum, especially Dade County. Volume leaders: Tomatoes, cucumbers, squash, peppers, snap beans, sweet corn, radishes, celery, eggplant. Also available: Mini carrots, escarole, specialty lettuce, strawberries. First iceberg lettuce harvested, Belle Glade.

GEORGIA: Strong cold front mid week producing widespread rain. Rainfall 1.00 to 3.00 in. north. Elsewhere rain mostly 0.50 to 1.00 in. Remainder of week dry. Temperatures within couple degrees of normal. Freezing temperatures 24th, lows teens mountains, low, mid 30s southeast. Warmest temperatures 60s mountains, upper 70s extreme south.

Days suitable for fieldwork 4.7. Soil moisture 18% short, 78% adequate, 4% surplus. Sorghum harvest near completion. Wheat 45% planted, 61% 1988, 63% avg.; with colder temperatures, seeding will become more active. Rye, other small grains good, plantings near avg. Pecans 69% harvested, 57% 1988, 64% avg.; quality fair. Pastures fair to mostly good. Cattle, hogs good.

HAWAII: Mostly sunny conditions prevailed throughout State. Some showers, mostly nocturnal. Winds gusty 5 to 25 mph. Temperatures lower 60s to lower 80s. Rainfall none to 2.40 in.

Days suitable for farm work 7.0. Sugar, pineapple, papaya harvesting continuous. Coffee, macadamia nut, ginger root harvesting very active. Compressed nut drop causing storage problems for macadamia nut processors.

IDAHO: Temperatures above normal. Light precipitation fell statewide, below normal in most areas.

Winter wheat good. Fieldwork included plowing, bedding, fertilizing. Other activities: Evaluating field pests, weeds and insects; shopwork. Livestock good. Early winter lambs in south central. Other activities: Marketing culled cows, weaned calves, moving cattle to lower elevations, preparing for calving. Hay, roughage supplies adequate, short in far north.

ILLINOIS: Temperatures 1 to 4° below normal north, near normal other areas. Rainfall small amounts extreme north, extreme South.

Wheat good. Livestock good.

INDIANA: Temperatures 1 to 5° below normal. Lows mid 20s to low 30s, highs low 40s to 50°. Precipitation 0.20 in.

Corn harvest continued where permitted. Soybean harvest is nearing completion. Other activities: Spreading fertilizer, plowing, tilling, hauling grain, moving hay, processing tobacco, hauling manure, machinery repair, care of livestock. Soils still wet making harvest difficult in some areas.

IOWA: Temperatures 1° above normal south to 5° below normal north. Extremes -4°; 62°. No precipitation southwest to 0.27 in. extreme northeast. Average 0.02 in.

Livestock good. Open weather allowing extensive grazing on stalk, stubble fields. Winterizing machinery, bookkeeping, planning for next year main activities.

KANSAS: Temperatures 2 to 6° above normal. No precipitation except trace southeast.

Days suitable for fieldwork 6.5. Topsoil 92% short, 8% adequate. Subsoil 38% short, 62% adequate. Corn, soybean harvest complete. Sorghum virtually complete except for counties in south central. Grazing wheat continues at 5% acreage compared to 10% normal. Cattle movement to sorghum, corn stubble continues. Supplies hay, forage, feed grains adequate.

KENTUCKY: Summer like weather early, highs mid 60s to lower 70s. Cold front brought showers, cooler temperatures 22nd. Daytime temperatures 23rd struggled to reach upper 30s. Weekend, temperatures again begin moderate, daytime highs mid to upper 50s. Rainfall 0.10 in to 0.40 in.

Soil moisture generally ample for pasture, fall seeded crops. Wheat mostly seeded, emerged, condition generally good. First 3 days burley market sold 102 million pounds, avg. \$166.84 per cwt. Cattle good, ample feed supplies.

LOUISIANA: Statewide temperatures 1 to 2° above normal. Extremes 28°; 80°. Rainfall 0.81 to 2.54 in.

Days suitable for fieldwork 3.7. Soil moisture 35% short, 46% adequate, 19% surplus. Cotton harvested 100%, 97% 1988, 96% avg. Pecans harvested 71%, 49% 1988, 64% avg. Soybeans harvested 99%, 91% 1988, 92% avg. Sugarcane harvested 67%, 66% 1988, 63% avg. Sweet potatoes harvested 97%, 98% 1988, 97% avg. Wheat planted 89%, 74% 1988, 66% avg.; emerged 73%, 60% 1988, 54% avg.; 7% poor, 53% fair, 33% good, 7% excellent. Livestock 2% poor, 35% fair, 63% good.

Pasture 17% poor, 46% fair, 37% good. Vegetable 5% very poor, 14% poor, 60% fair, 21% good.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.49 in. Temperature 36°, normal 44°. Extremes 9°; 69°.

Days suitable for fieldwork 3.3. Topsoil 63% adequate, 37% surplus. Subsoil 68% adequate, 32% surplus. Field corn harvested for grain 92%, 99% 1988, 98% avg. Soybeans fair to good; 82% harvested, 90% 1988, 82% avg. Pasture good. All hay supplies adequate. Wheat 92% seeded, 95% 1988, 97% avg. Rye 90% seeded, 100% 1988, 99% avg. Oats 70% seeded, 100% 1988, 100% avg.

DELAWARE: Precipitation 0.41 in. Temperature 36°, normal 44°. Extremes 14°; 63°.

Days suitable for fieldwork 3.2. Topsoil 29% adequate, 71% surplus. Subsoil 86% adequate, 14% surplus. Soybeans fair to good; 78% harvested, 89% 1988, 80% avg. Pasture good. All hay supplies short to adequate. Wheat 85% seeded, 95% 1988, 96% avg. Rye 97% seeded, 91% 1988, 92% avg.

MICHIGAN: Temperatures 2 to 6° below normal. Extremes -2°; 57°. Precipitation none to 0.60 in. across State. Snow cover virtually eliminated in most central, southern areas.

Soybeans 100% harvested, 80% 1988, 90% avg. Winter wheat 100% emerged, 97% 1988, 95% avg.; 3% poor, 12% fair, 60% good, 25% excellent. Major activities: Concluding corn harvest, fall tillage, moving hay bales to storage, pruning orchards, repairing machinery. Livestock good. Cattle grazing harvested corn fields southern areas. Feed supplies excellent. Abundant hay supplies most areas.

MINNESOTA: Temperatures 3 to 6.5° below normal. Extremes -12°; 64°. Precipitation 0.10 to 0.30 in. Greatest weekly total 0.41 in.

Soybeans 100% harvested, 99% 1988, 99% avg.

MISSISSIPPI: Not available.

Days suitable for fieldwork 3.0, 3.5 1988, 2.5 avg. Soil moisture 5% short, 60% adequate, 30% surplus, 5% excessive. Cotton harvested, 96%, 94% 1988, 93% avg. Pecans 53% harvested, 48% 1988, 58% avg. Soybeans 92% harvested, 75% 1988, 82% avg. Wheat good; 92% planted, 77% 1988, 69% avg., emerged 78%, 69% 1988. Harvest of all other major crops complete. Activities: Scrapping cotton, planting wheat, harvesting soybeans, fall tillage.

MISSOURI: Temperatures near normal. Rainfall restricted to southern third, mostly less than 0.25 in.

Fieldwork mostly done for year. Topsoil short to adequate, majority short. Pastures providing feed, becoming dry. Wheat crop, especially late seedlings need rain before winter.

MONTANA: Precipitation west of the divide up to 0.42 in. Little precipitation east of divide. Warmer than normal temperatures with 6 to 11° above.

Topsoil 21% short, 78% adequate, 1% surplus. Subsoil 33% short, 66% adequate, 1% surplus. Wind damage to winter wheat 69% none, 20% light, 11% moderate. Cattle, calves on supplemental feed 30%. Sheep, lambs on supplemental feed 44%.

NEBRASKA: Temperatures 1 to 5° above normal. Extremes 7°; 69°. Little or no precipitation.

Topsoil 97% short, 3% adequate. Subsoil 95% short, 5% adequate. Eastern growers spraying alfalfa, winter wheat fields for pennycress, other mustards. Few western fields sprayed for Russian wheat aphids. High winds causing problems with wheat in several areas. Limited amount of fall

tillage work, fertilizer application done in east, northwest. Main activities: Equipment maintenance, storage; planning for 1990 season; tax planning. Pastures, range feed supplies 16% very short, 62% short, 22% adequate. Hay, roughage supplies 14% very short, 44% short, 42% adequate. Cattle grazing stalks, hay supplies short. Northern cattle shipped to other areas to graze stalks. Feedlots remained dry, dusty.

NEVADA: Dry, no precipitation early. Temperatures above normal. Late in period series of storms brought temperatures back to normal. Snow fell higher elevations, rain at valley floors. Gusty winds accompanied storms most areas. South escaped storms with only gusty winds.

Main ranch activities feeding, caring livestock. First storm of season hard on newborn calves, lambs. Feed lots muddy most areas. Marketing potatoes continues strong. Prices holding steady.

NEW ENGLAND: Precipitation (rainfall, water equivalent of snow) 0.50 to 1.00 in. across region. Highest amounts recorded coastal, southern interior Maine. Temperatures teens near Canadian border to low 30s south coast.

Major farm activities: Machinery repair, fall clean up, getting ready for winter.

NEW JERSEY: Temperatures much below normal; 32° north, 34° south, 36° coastal. Extremes 7°; 65°. Precipitation below normal; 0.38 in. north, 0.58 in. south, 0.69 in. coastal. Heaviest 24-hour total 0.67 in. on 22nd, 23rd.

Snow on 22nd, 23rd further delayed harvest of soybeans, corn for grain. Strong winds knocked some corn down making it difficult to harvest. Some losses expected. Road stands busy with Thanksgiving demand for turkeys, sweet potatoes, turnips, squash, cider, apples, pumpkins. Some fruit pruning activity begun. Christmas tree cutting, digging begun.

NEW MEXICO: Temperatures well above normal most locations; light precipitation southern areas.

Days suitable for fieldwork 6.9. Soil moisture 90% short, 10% adequate. Cotton 80% harvested; 10% poor, 55% fair, 35% good. Wheat 100% emerged. Cattle 70% fair, 30% good. Sheep 60% fair, 40% good. Ranges, pastures 14% very poor, 70% poor, 16% fair.

NEW YORK: Unusually cold week. Temperatures 5 to 10° below normal. Week started cool, warmed on 20th, cold returned late on 20th, remained. With warmup on 20th came 0.25 to 0.50 in. rainfall. Lake effect snow common 21st, 22nd. On 23rd a coastal storm dumped a half foot of snow on New York City, Long Island. Hudson Valley and Catskills received 1.00 to 4.00 in.

Fruit growers grading, packing crops. Winter pruning underway. Some corn for grain yet to be harvested.

NORTH CAROLINA: Temperatures 4 to 6° below normal across State. Extremes 13°; 72°. Precipitation none to 1.53 in.

Days suitable for fieldwork 4.7. Soil moisture 2% short, 90% adequate, 8% surplus. Pasture 9% poor, 17% fair, 69% good, 5% excellent. Livestock feed from pasture 71%. Crop condition: wheat 3% poor, 22% fair, 72% good, 3% excellent; oats 2% poor, 20% fair, 78% good; barley 2% poor, 24% fair, 74% good; rye 4% poor, 21% fair, 75% good; Hay, roughage supplies 2% short, 89% adequate, 9% surplus. Feed grain supplies 2% short, 97% adequate, 1% surplus. Harvesting completed: sorghum 83%, 95% 1988, 92% avg. Plantings completed: wheat 74%, 83% 1988, 79% avg.; oats

85%, 91% 1988, 89% avg.; barley 88%, 95% 1988, 91% avg.; rye 80%, 89% 1988, 85% avg. Major activities: Planting small grains, cover crops; soybean harvest, Christmas tree harvest. Other activities included: Harvesting cotton; cutting wood; tending livestock, general farm maintenance.

NORTH DAKOTA: Temperatures 1° below normal northeast, east central to 7° above normal southwest. Precipitation in the form of snow 0.03 to 0.18 in.

Soil moisture short. Additional snow cover needed for adequate protection of fall seeded crops, alfalfa. Hay supplies adequate. Warm weather has induced insect infestations in some stored grain.

OHIO: High temperatures upper 50s to mid 60s, overall temperatures 5° below normal. Precipitation less than 0.50 in. snowbelt, generally less than 0.10 in. outside snowbelt. Soil temperatures reached freezing marks at many northern sites, maximums mostly in 40s, overall mid to upper 30s.

OKLAHOMA: Temperatures 4° above normal central to 1° above normal southwest. Precipitation none northwest third to 0.53 in. east central.

Days suitable for fieldwork 6.7. Topsoil 98% short, 2% adequate. Lowest level of year. Subsoil 40% short, 60% adequate. Wheat 10% poor, 35% fair, 55% good; 95% emerged, 95% 1988, 95% avg.; 30% grazed, 30% 1988, 25% avg. Growth slowed by dry weather. Nitrogen deficiency appearing. Cotton 70% harvested, 65% 1988, 30% avg. Some still waiting for bolls to open. Sorghum 90% harvested, 85% 1988, 80% avg. Soybeans 90% harvested, 85% 1988, 75% avg. Peanuts 92% harvested, 90% 1988, 90% avg. Pastures fair to good. Cattle good; marketings stable.

OREGON: Heavy rainfall end of week 2.00 in. west, except southwestern valleys 1.00 in. East side light precipitation of 0.10 to 0.20 in. Most areas 2 to 4° above normal. However north, south central areas 6° above normal with maximum temperatures in the 60s.

Soil moisture short to adequate west, adequate east. Russian wheat aphid in some fields, no major damage Columbia Basin. Most fieldwork completed. Christmas tree harvest underway west. Some tree, caneberry pruning being done. Vegetable harvest activity essentially finished. Livestock good. Cattle remain on low elevation pasture in most of east. Range, pasture fair to good.

PENNSYLVANIA: Cold, dry. Temperature 31°, 9° below normal. Extremes 9°; 65°. Precipitation 0.30 in., 0.47 in. below normal.

Days suitable for fieldwork 4. Soil moisture 10% short, 70% adequate, 20% surplus. Corn 75% harvested, 75% 1988, 80% avg.; 1% very poor, 9% poor, 25% fair, 42% good, 23% excellent. Soybean harvest 72% complete, 77% 1988, 86% avg.; 1% very poor, 8% poor, 32% fair, 49% good, 10% excellent. Fourth cutting alfalfa 90% complete, 96% 1988. Quality of hay made during week fair to poor. Amount of feed being obtained from pastures average. Activities: Harvesting hay, haylage, corn, soybeans; maintaining machinery, spreading manure, caring for livestock.

PUERTO RICO: No data Available.

SOUTH CAROLINA: Temperatures 3 to 5° colder than usual. Precipitation 0.50 in. in eastern to more than 1.00 in. northwestern parts of State.

Days suitable for fieldwork 5.1. Soil moisture 18% short, 79% adequate, 3% surplus. Cotton 1% very poor, 1% poor, 63% fair, 35% good; 90% harvested, 92% 1988, 91% avg. Soybeans 3% poor, 72% fair, 25% good; 51% harvested, 63% 1988, 56% avg. Sorghum fair to good, 73% harvested, 81% 1988, 84% avg. Pasture, livestock good.

SOUTH DAKOTA: Temperatures mostly above normal, 7° below normal to 9° above normal. Extremes -5°; 75°. Precipitation for the year above normal northeast, parts of northwest, below normal elsewhere. Range 3.47 in. above normal to 8.32 in. below normal. Weekly precipitation light. Many areas with no precipitation. Maximum 0.22 in. snow on ground from storm beginning 26th; 1.00 to 18.0 in.

TENNESSEE: Above normal temperatures early week. Cold front 22nd brought more normal temperatures. Temperatures near or slightly below normal. Scattered light rain 23rd. Widespread rain 24th. Light rainfall again over weekend. Soil moisture mostly adequate. Burley stripping, winter preparation main activities.

TEXAS: Overrunning moisture brought steady rains south beginning week. Temperatures turned cool, warmed during late week. Temperatures above normal while precipitation slightly below normal. Sizeable rains Edwards Plateau area accounted for only area total above normal for week. Temperatures mostly to 4° above normal with greatest departures stretching from Edwards Plateau eastward. Rainfall 1.00 to 0.30 in. below normal.

Crops: Grain sorghum harvest coming to end in Plains. Some later fields showing lower yields because series early frosts. Irrigated yields remained good. Some producers beginning to wrap up operations. Yields continued vary across area. Cold temperatures during past month stopped many bolls from opening. Most harvest now over Blacklands. Harvest progress also good Trans Pecos. Cotton 100% open bolls, 100% 1988, 94% avg. Small grains most parts Plains continued need moisture. High winds during latter half week further depleted soil moisture. A few fields died back. Irrigation steady to continue growth. Most grazing supplied on irrigated fields. Moisture late week Blacklands. Central should increase growth, allowing planting finish out. Some greenbugs showing up. Weeds increasing with rain. Some stand losses occurring where rain too late. Wheat 98% planted, 100% 1988, 97% avg. Peanut harvest slowed some central by rain. The moisture could affect grades. Harvest continued wind down Cross Timbers, Low Plains. Wet ground slowed progress some Cross Timbers. Soybean harvested slowed some along Upper Coast. Harvest continued High Plains. Other crops: Peanuts harvested 81%, 90% 1988, 83% avg. Pecans 44%, 53% 1988, 53% avg. Soybeans harvested 86%, 94% 1988, 83% avg. Sugarbeets 85%, 83% 1988, 77% avg. Sunflowers harvested 75%, 92% 1988, 87% avg. Oats planted 91%, 90% 1988, 91% avg.

Commercial Vegetables: Rio Grande Valley, planting harvesting slowed some by scattered showers. Harvest citrus continued. Some leaf discoloring seen younger groves. San Antonio Winter Garden, mid week rainfall slowed operations some. Progress good planted fields. Trans Pecos, land preparations, planting continued. Pecan harvested continued all areas State. Quality continued good; however, yields down. Prices improved some.

Range and Livestock: Ranges, pastures perked up some Blacklands, central; however, more rain needed. Pastures becoming very dry Plains, Trans Pecos. Irrigated wheat supplying most small grain pastures. Some stockers pulled off short pastures, being sold early. Feeding remained heavy most areas.

UTAH: Temperatures 7° above normal southeastern two third, 4° above normal northwestern third. Precipitation light western half of State, mostly zero in eastern half.

Rain, snow improved soil conditions Salt Lake Valley. Tillage continued where possible. Field activity slowly winding down. Winter wheat emergence near normal. Livestock on winter ranges. Some winter ranges appear good, some poor, depending on location. Building maintenance, equipment winterization continued.

VIRGINIA: Week began mild temperatures, ended unseasonably cold, 5 to 10° below normal. Extremes 11°; 71°. Scattered rain, sleet, snow.

Days suitable for fieldwork 4.0. Topsoil 9% surplus, 79% adequate, 11% short, 1% very short. Grain corn 95% harvested, 92% 1988, 92% avg. Soybeans 74% harvested, 69% 1988, 65% avg. Wheat 84% seeded, 79% 1988, 81% avg. Winter grains, grazing crops 13% excellent, 61% good, 26% fair. Pastures 17% excellent, 63% good, 18% fair, 2% poor. Forage from pastures, winter grazing crops dairy cattle 15%, beef cattle 74%, sheep 78%. Marketing burley tobacco, cattle, fall plowing, taking soil samples.

WASHINGTON: Temperatures 1 to 6° above normal east; 2 to 4° above normal, west. Precipitation 0.02 to 0.23 in., east; 0.78 to 1.80 in., west.

Days suitable for fieldwork 4.0. Soil moisture 29% short, 70% adequate, 1% surplus. Range, pasture 60% short, 40% adequate. Hay, other roughage 95% adequate, 5% surplus. Winter weather, snow have halted most field activity. Most emerged winter wheat was looking good with crop conditions 45% fair, 55% good. Winter wheat emerged 99%, 97% 1988, 97% avg. Corn for grain harvest 72%, 84% 1988, 92% avg. Some other activities included orchard clean up; fruit tree, grape vine planting, pruning; caneberry pruning; carrot digging; fumigation.

WEST VIRGINIA: Temperature 35°, 2 to 8° below normal. Extremes 10°; 68°. Precipitation 0.36 in., well below normal.

Days suitable for fieldwork 3.1. Soil moisture 5% short, 70% adequate, 25% surplus. Corn good; 82% harvested. Hay good to fair; 3rd cut complete. Pasture good to fair. Wheat seeding 89% complete. Cattle, calves, sheep, lambs good. Farm activities: Corn, hay harvest, stripping tobacco, livestock care, farm maintenance.

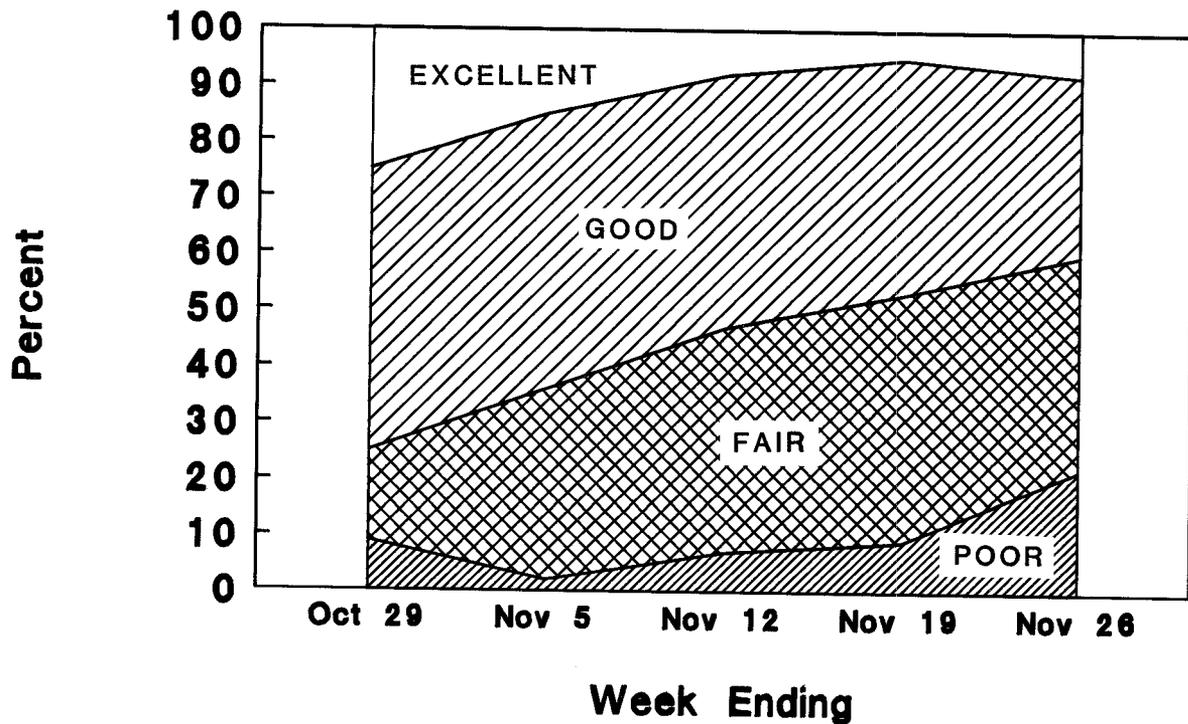
WISCONSIN: Temperature 26°. Extremes -12°; 55°. Precipitation 0.10 to 0.50 in. Snow 1.00 to 4.00 in. southern, lighter amounts north, 21st, 22nd.

Most farmers getting ready for winter, hauling manure, cutting firewood.

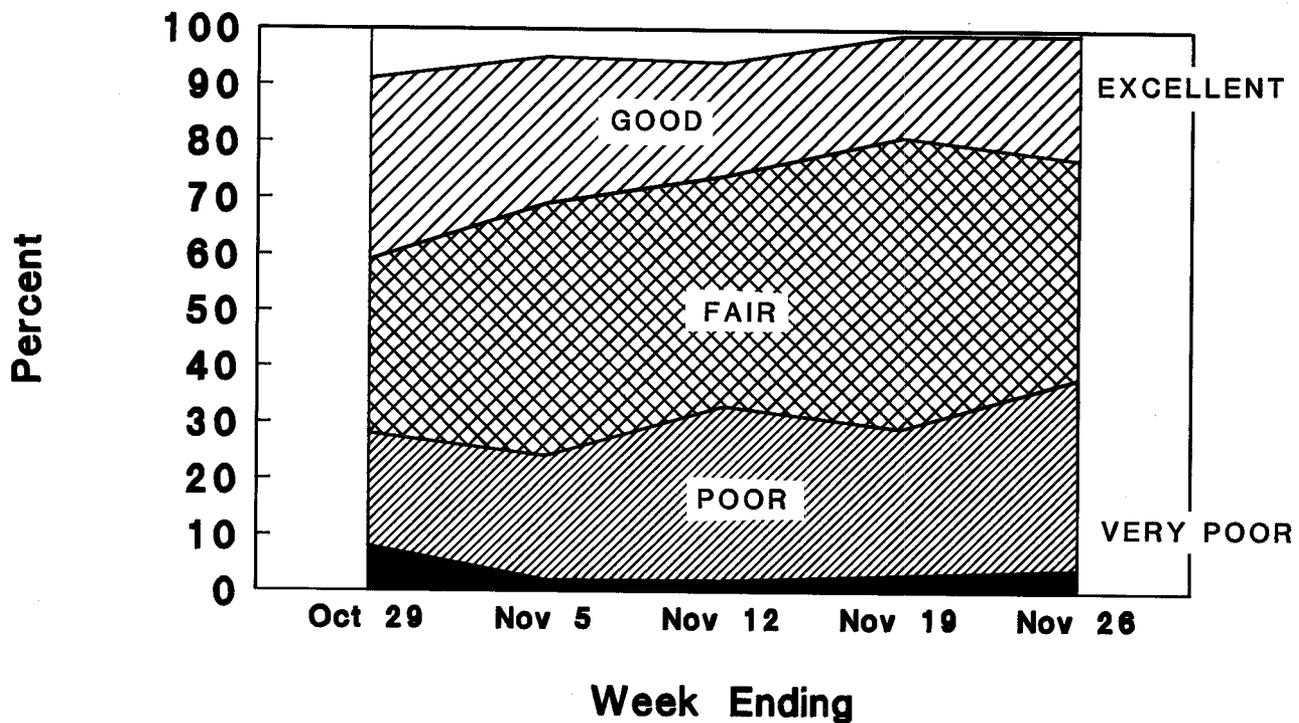
WYOMING: Temperatures 2 to 9° above normal. Precipitation below normal.

Topsoil short most areas. Snow pack starting to build up at higher elevations. Winter wheat fair to good. Most corn for grain harvested. Mild fall weather reduced stress to livestock, feeding. Livestock good. Movement to winter pastures, market continues.

Crop Condition Kansas Winter Wheat



Crop Condition Texas Winter Wheat



International Weather and Crop Summary

November 19-25, 1989

HIGHLIGHTS

USSR ... Snow cover increases and advances southward. Winter grains continue to enter dormancy as far south as the Black Sea coast, where growth continues.

NORTHWESTERN AFRICA ... Widespread beneficial precipitation continues over Moroccan winter grain areas. Unfavorable dryness continues to slow planting in Algeria and Tunisia.

EUROPE ... Heavy rain and flooding continue in the Iberian Peninsula. Low temperatures and snow cover northeastern crop areas.

SOUTH ASIA ... Excessive rain persists over local areas of the southern tip, causing local flooding and slowing crop harvests.

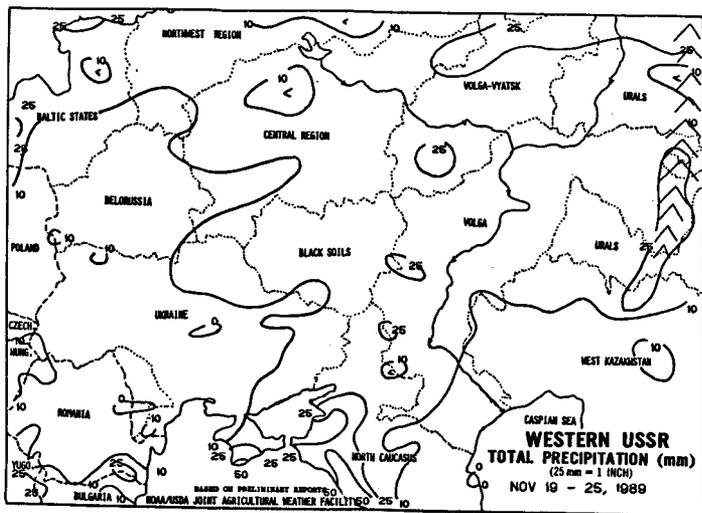
EASTERN ASIA ... Dry weather covers most crop areas. Rain in far eastern sections causes fieldwork delays.

SOUTHEAST ASIA ... Typhoon Hunt crosses the northern Philippines. Rainfall diminishes somewhat over Malaysia and Indonesia.

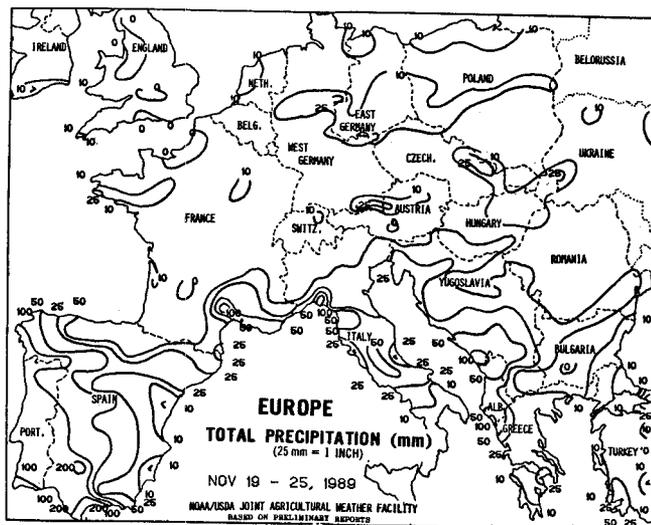
SOUTH AFRICA ... Dry, warm weather allows rapid planting progress across the primary corn regions.

SOUTH AMERICA ... Widespread rain benefits crop planting in Argentina. Soaking rain delays fieldwork in south-central Brazil.

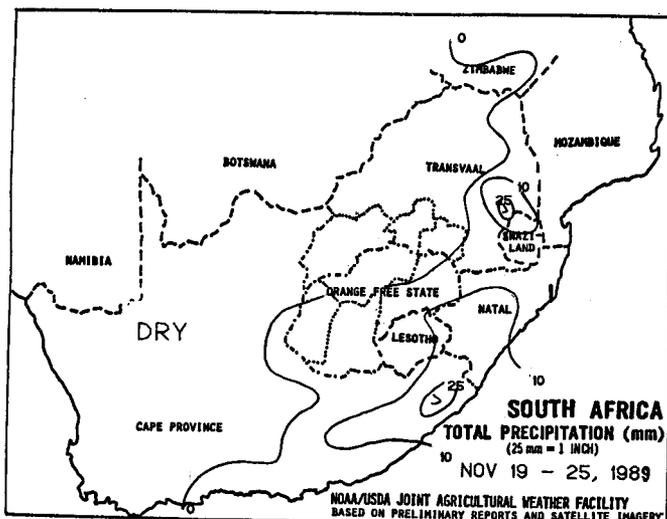
AUSTRALIA ... Torrential rain causes flooding and late sugarcane harvest delays in northeastern Queensland. Mostly dry and warm weather favors winter grains harvest in the east and south.



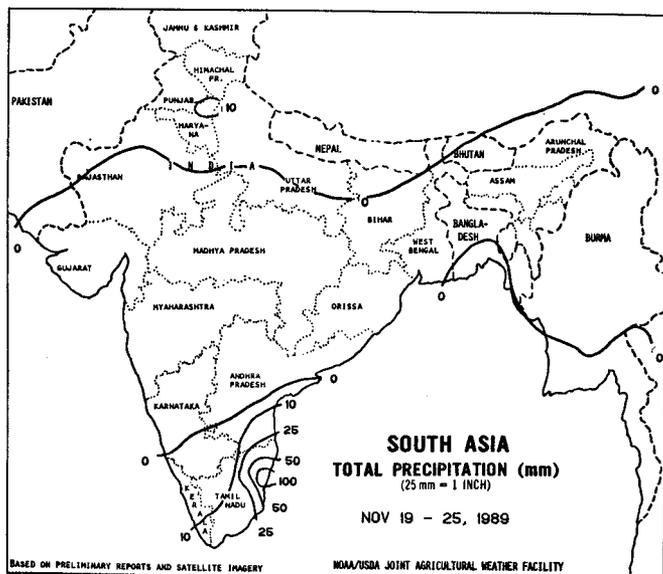
WESTERN USSR ... Widespread light precipitation covered winter grains over most of the region. Precipitation amounts generally ranged from 5 to 20mm, with isolated locations receiving rainfall in excess of 25mm. The precipitation fell as snow in the Baltic States, Belorussia, the Central Region, Black Soils Region, the northern Ukraine, northern North Caucasus, Volga, and Volga Vyatsk Region, increasing snow cover. Mixed rain and snow covered the southern Ukraine and the central North Caucasus. Weekly average temperatures were 3-5 degrees Celsius (C) below normal in the west and near normal in the east. Winter grains continued to enter dormancy as far south as the Black Sea coast, where growth continued.



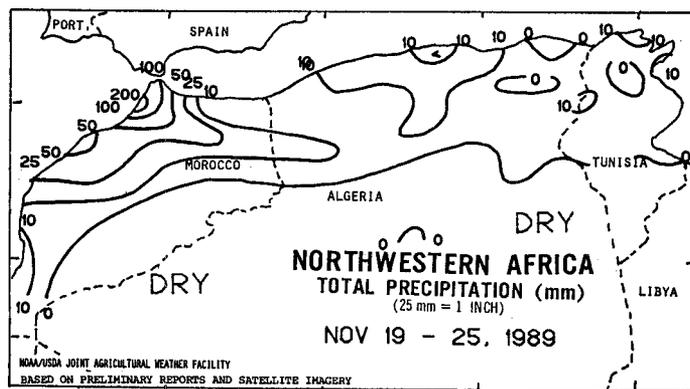
EUROPE ... Widespread rain (10-60mm, with scattered amounts in excess of 60mm) continued for the second consecutive week across the Iberian Peninsula, maintaining mostly favorable soil moisture for vegetative winter grains. Very heavy rains (100-244mm) on previously saturated soils, however, caused flooding in sections of Portugal and southern Spain. Heavy rain (25-80mm, with isolated amounts in excess of 80mm) also fell in sections of central Italy, southern Yugoslavia, and Albania. In the northeast, colder-than-normal weather (2-5 degrees C below normal) continued, causing winter grains to become dormant. Light to moderate snow and rain (5-20mm, with isolated amounts greater than 20mm) covered northeastern crop areas, while mostly light rain (less than 10mm) fell across the northwest.



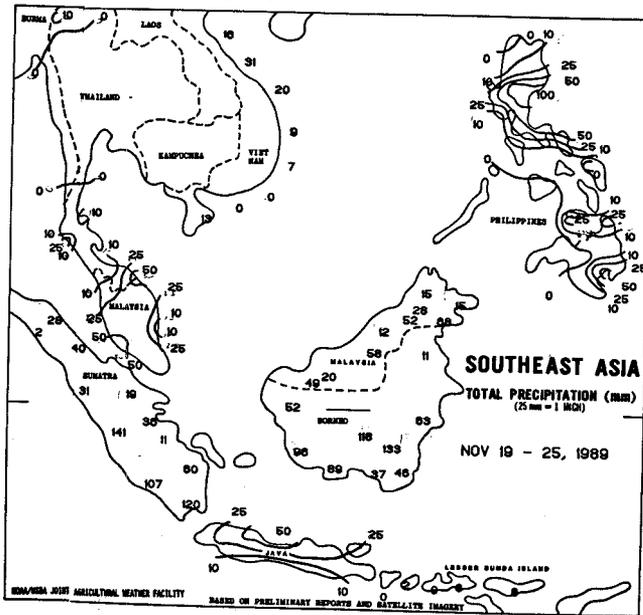
SOUTH AFRICA ... Mostly dry, warm weather covered the Maize Triangle, allowing rapid planting progress. Although cumulative rainfall amounts for the early growing season have been below normal over much of the northwestern Maize Triangle, timely rains in mid-November improved topsoil conditions for planting. More rain will be needed in upcoming weeks for normal crop establishment as seasonal warming increases crop growth rates. Light to moderate rain (4-37mm) continued over the crop regions of Natal and the eastern Cape Province as drier weather returned to the southern Cape Province. The light rain (10mm or less) over Natal's sugarcane region continues a drying trend that began in early November.



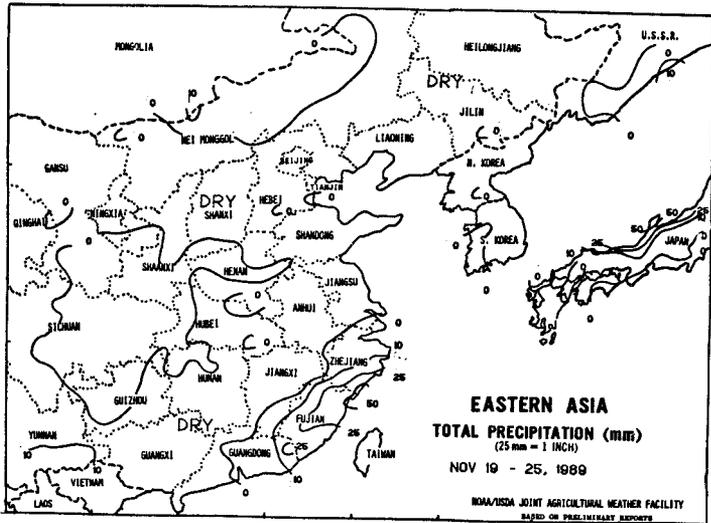
SOUTH ASIA ... Light to moderate showers (10-25mm or more) fell over portions of India's southern tip early in the week, with locally heavy rain (149mm) persisting over crop areas of northeastern Tamil Nadu. Excessive rainfall in recent weeks over northeastern Tamil Nadu caused local flooding and slowed rice and summer crop harvests but boosted local irrigation reserves for fall crops. Scattered, light rain (1-12mm) fell over winter wheat regions of Pakistan and north-central India, but dry, warm weather elsewhere favored summer crop harvests.



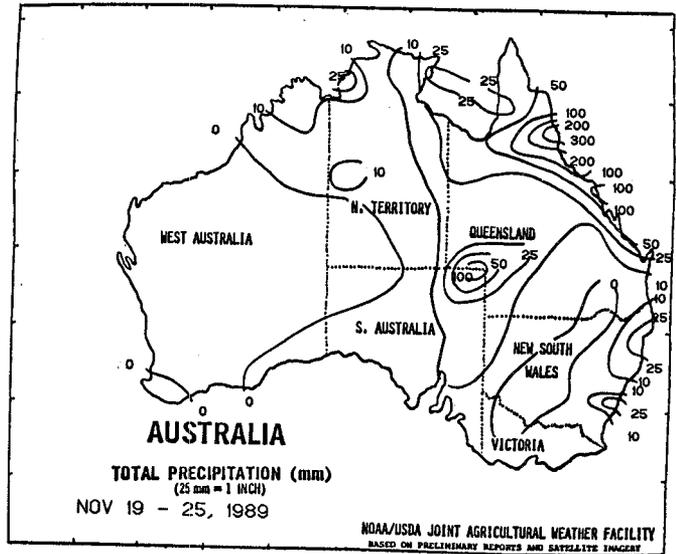
NORTHWESTERN AFRICA ... Widespread precipitation (13-50mm) continued to cover Moroccan winter grain areas, providing abundant topsoil moisture for planting. Although the first widespread rain of the season covered winter grain areas in western and central Algeria, rainfall amounts were generally less than 11mm and were insufficient for promoting widespread planting. However, the rain helped to condition soils, initiating fieldwork. Further east, mostly dry weather in eastern Algeria and Tunisia continued to slow planting. Weekly average temperatures ranging from 3 to 5 degrees C above normal over most of the region increased evaporation rates, causing further drying of topsoils.



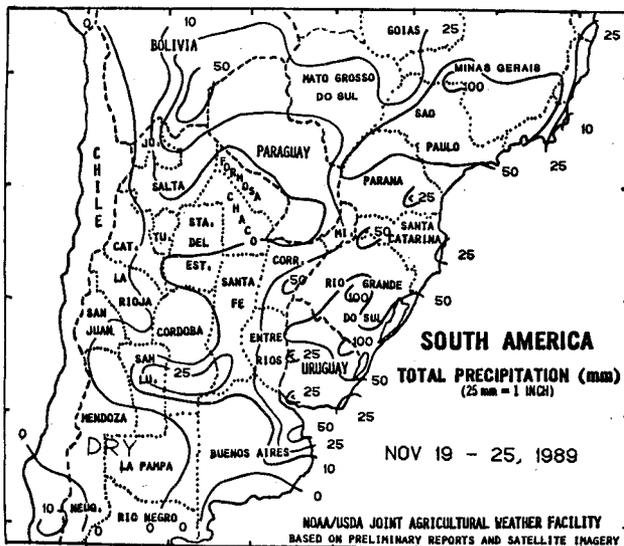
SOUTHEAST ASIA ... Typhoon Hunt crossed central Luzon Island, Philippines, with maximum sustained winds ranging from 55 to 90 knots. Heavy rain (50-100mm or more) fell from southeastern to west-central Luzon, where main season rice is usually being harvested. Although Hunt was the first storm to hit the Philippines in about a month, it was the fourth since early October to hit the northern half of the islands. Further west, seasonably dry and warm weather continued to favor maturing summer crops over northern Thailand. To the south, rainfall tapered off from the previous week over peninsular Thailand and Malaysia, with most areas receiving 10-50mm. Rainfall was also lighter over Indonesia, but heavy showers (50-100mm or more) continued over west-central Sumatra and Borneo.



EASTERN ASIA ... Mostly dry weather covered much of China, allowing a resumption of late season fieldwork in previously wet sections of the Yangtze Valley. Late week rain (10-40mm, with isolated amounts in excess of 40mm) caused delays in late crop rice harvest across sections of Fujian, Zhejiang, and Taiwan. Late rice harvest is nearing completion in most growing areas. Moderate to heavy rain (15-40mm) also caused late season fieldwork delays in sections of western Honshu and Hokkaido in Japan. Warmer-than-normal temperatures (1-5 degrees C above normal) in northern and central China allowed further vegetative growth of winter crops in sections of the North China Plain, following colder-than-normal weather the previous week.



AUSTRALIA ... Mostly dry weather covered eastern winter grain areas, favoring rapid harvest progress. In contrast, torrential rains (50-200mm, with isolated rainfall up to 354mm) in coastal areas of eastern Queensland caused flooding and delays in late sugarcane harvest. Heavy seasonal rainfall in the region normally does not occur until late December or January. In the west, scattered light showers (less than 10mm) caused only minor delays in winter grains harvest. Above-normal temperatures (1-5 degrees above normal) accelerated maturation and drydown of winter grains across most southern growing areas.



SOUTH AMERICA ... In Argentina, widespread light showers (less than 10mm) fell over most summer crop areas, with heavier rain (10-32mm) benefiting grains and oilseeds in southern Cordoba, Santa Fe, and the northern and eastern extremities of Buenos Aires. The improvement in soil moisture in recent weeks has accelerated corn, sorghum, and oilseed crop plantings. Dry weather prevailed over southwestern Buenos Aires and La Pampa, where wheat is maturing. Early wheat harvesting is underway in northern margins. Mostly light rain fell over northern cotton areas. Widespread soaking rain (20-50mm) fell over Uruguay, and much of south-central Brazil for the second consecutive week, with locally heavier rain (50-100mm or more) delaying fieldwork in northern Uruguay, southeastern Rio Grande do Sul, and from northwestern Parana to southeastern Minas Gerais. The ample moisture is sufficient for soybean planting and emergence, and coffee tree flowering.

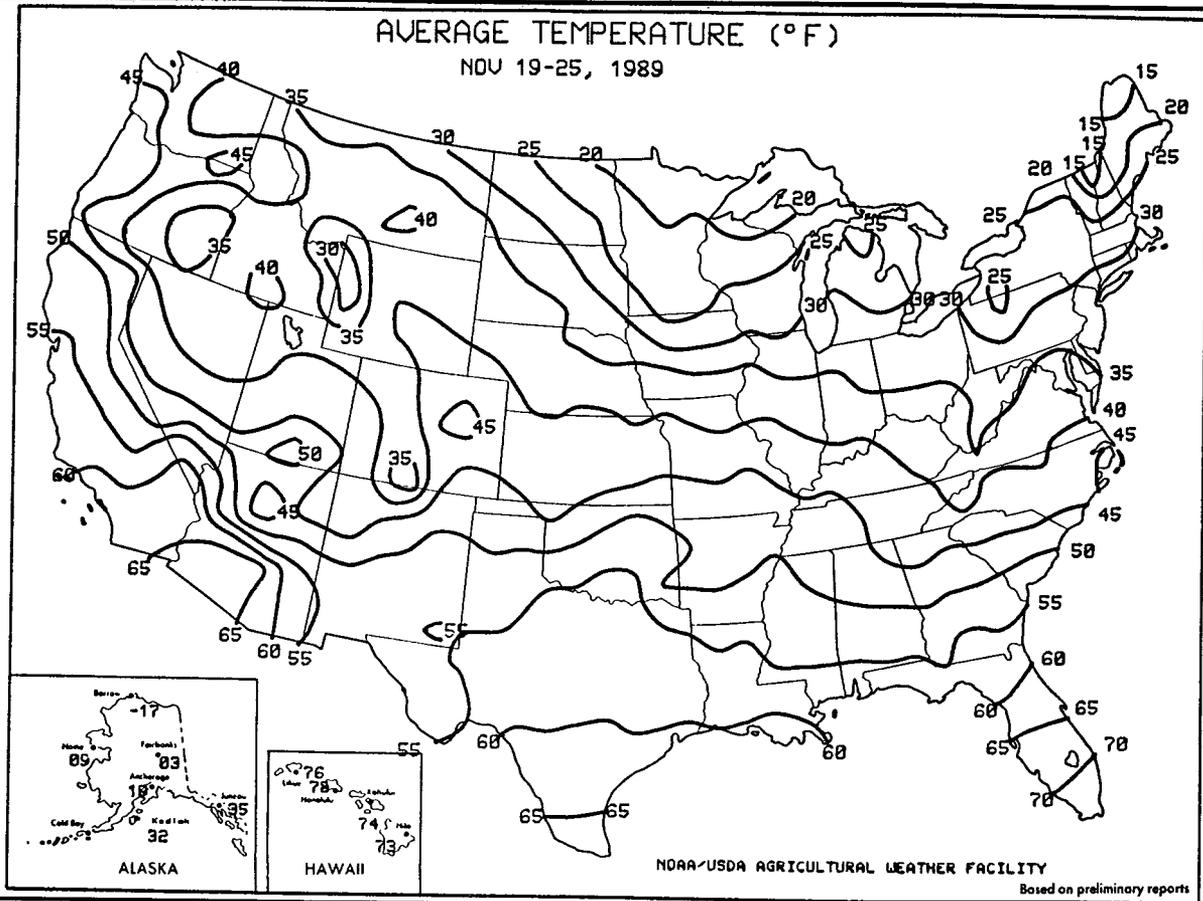
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