

# WEEKLY WEATHER AND CROP BULLETIN

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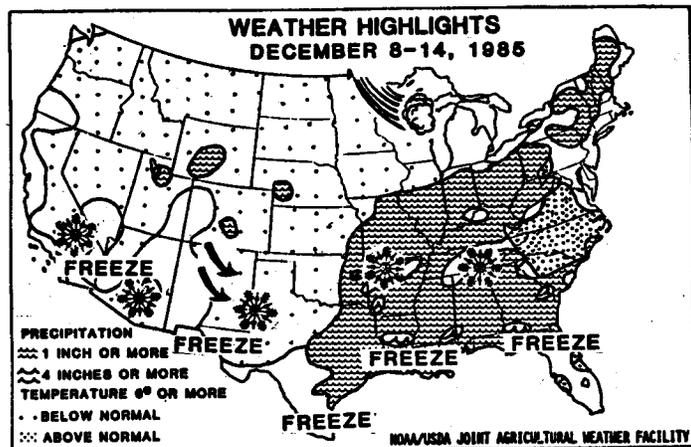
WASHINGTON, D.C.

Dec. 17, 1985

## National Weather Summary

December 8 to 14, 1985

# Merry Christmas And Happy New Year



**HIGHLIGHTS:** Winter-like weather, which had dominated the northern and central Plains and the West for the past several weeks, spread eastward to cover the entire Nation. Freezing temperatures reached into southern California, the Gulf Coast, and northern Florida. Snow covered the lower Great Lakes States, New York, and New England. Snow fell as far south as west central Texas, Arkansas, and Tennessee. Precipitation was light to moderate from eastern Texas to southern Iowa and eastward to New England and the east coast. Lighter snow was frequent through the northern and central Plains.

**SUNDAY...**A winter storm brought snow to the northern and central Rockies. Heavy amounts accumulated in parts of northern Utah and Wyoming. Lighter snow fell across the northern Plains and through the upper Great Lakes to western New York. Freezing drizzle fell in parts of New York. Light rain fell in the central Plains and along the Northwest Coast.

**MONDAY...**Heavy snow fell in parts of Wyoming and Colorado with lighter amounts throughout the Rockies and central Plateau. Snow also fell from the northern and central Plains through the upper Great Lakes. Freezing rain fell from eastern Kansas through northern Missouri. Later in the day, moderate rain fell from northwestern Arkansas into central Illinois with lighter amounts spreading through the lower Great Lakes States. Light rain fell in the southern Plains.

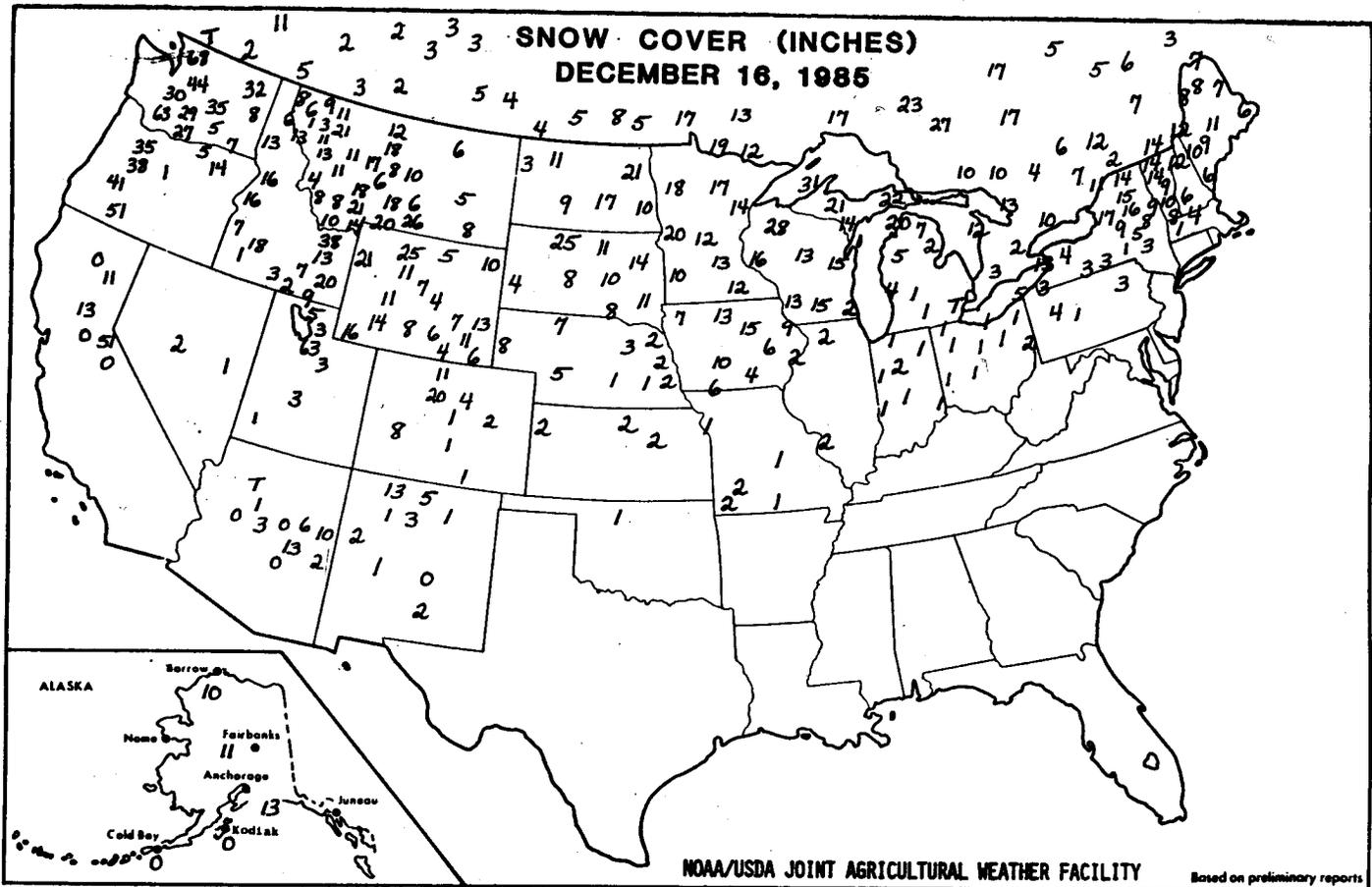
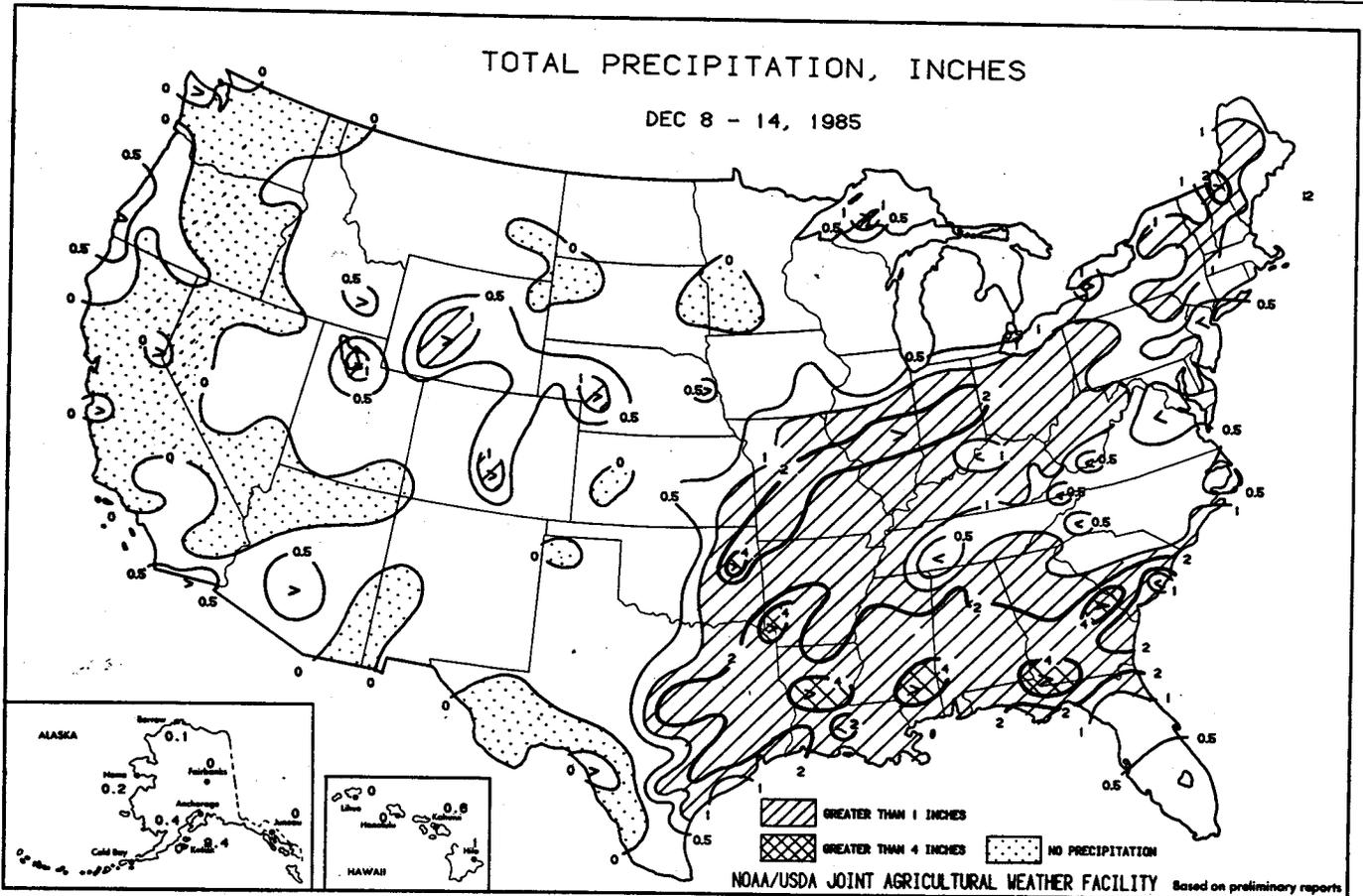
**TUESDAY...**Snow continued in the central and southern Rockies, most of the central Plains, and parts of the southern Plains. A band of freezing rain reached from west central Texas to northwestern Illinois. Showers and thunderstorms reached from eastern Texas and Louisiana through eastern Oklahoma and Arkansas to southern Illinois. Rain covered the lower Great Lakes States, Pennsylvania, and eastern New York. Showers fell in southern California with some snow at higher elevations.

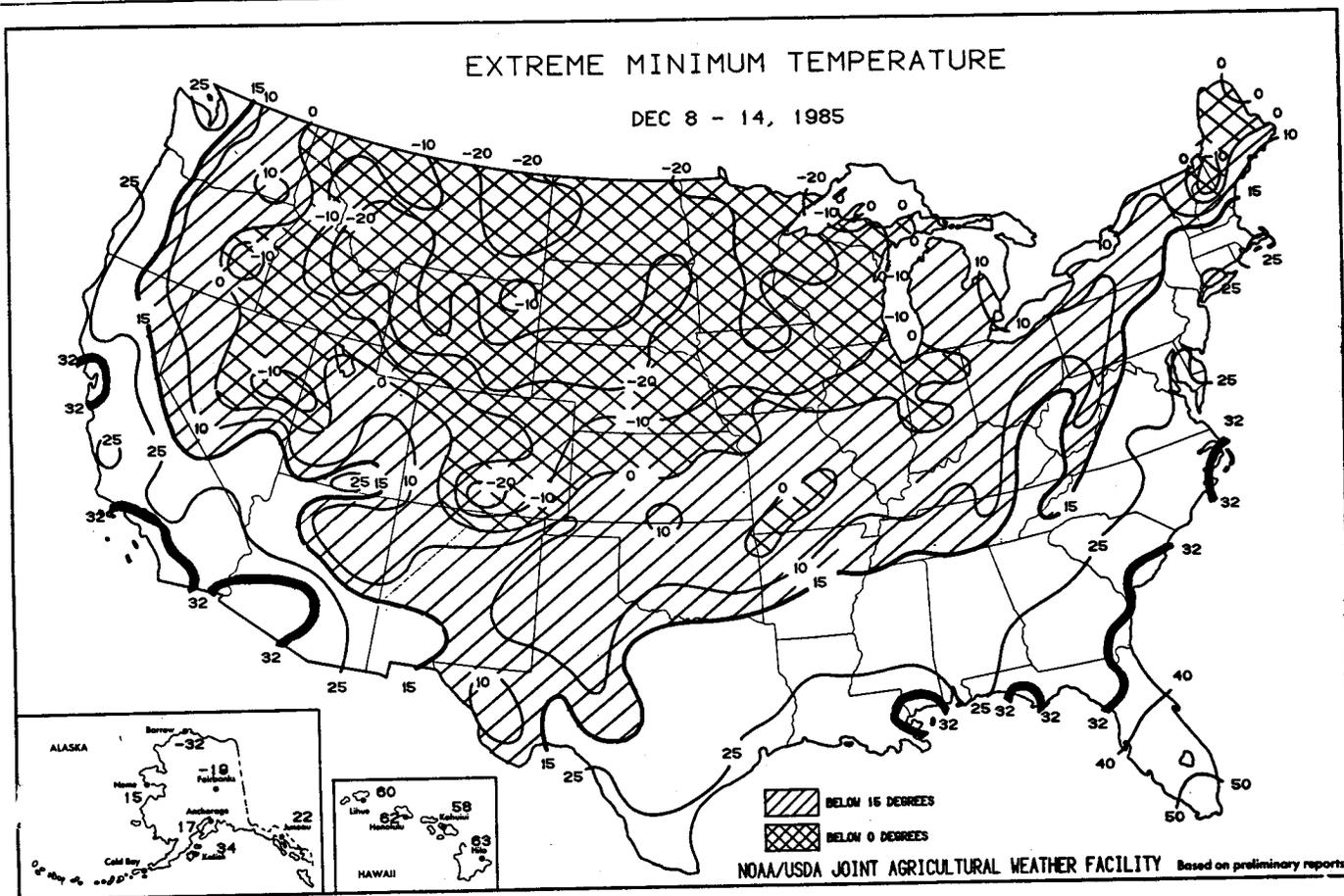
**WEDNESDAY...**Rainshowers, with snow at higher elevations, spread from southern California into Arizona. Freezing temperatures reached into central California. Light snow covered the northern Plains and through western Oklahoma to northwestern Texas. Freezing drizzle fell from eastern Oklahoma to northwestern Illinois. Showers developed across the South from eastern Texas through Georgia and northward to Virginia. Thunderstorms produced heavy showers through the lower Mississippi Valley, and steady rain fell from the Tennessee and Ohio Valleys to southern New England. Another blast of cold air brought subzero temperatures to the northern Rockies and Plains.

**THURSDAY...**Rain was widespread from eastern Texas to the Florida Panhandle, northward to the mid-Atlantic States, through the Tennessee Valley, and to the central Appalachians. Snow fell throughout the Rockies, northwestern Texas, and from eastern Oklahoma into southern Missouri. Snow also fell through the Great Lakes to New England.

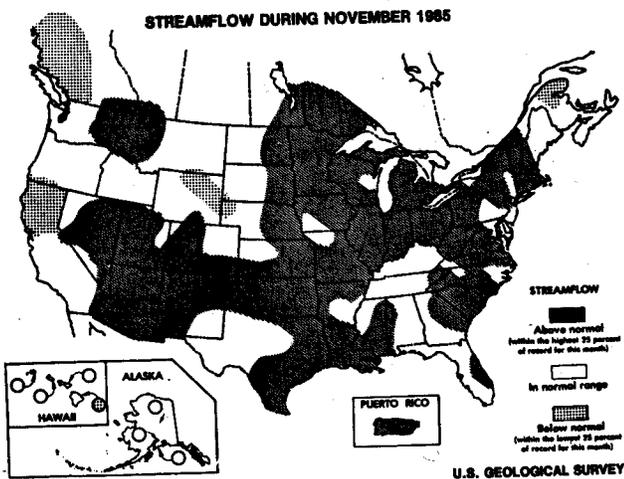
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**NOVEMBER WAS A RECORD-BREAKER FOR MANY OF NATION'S STREAMS**



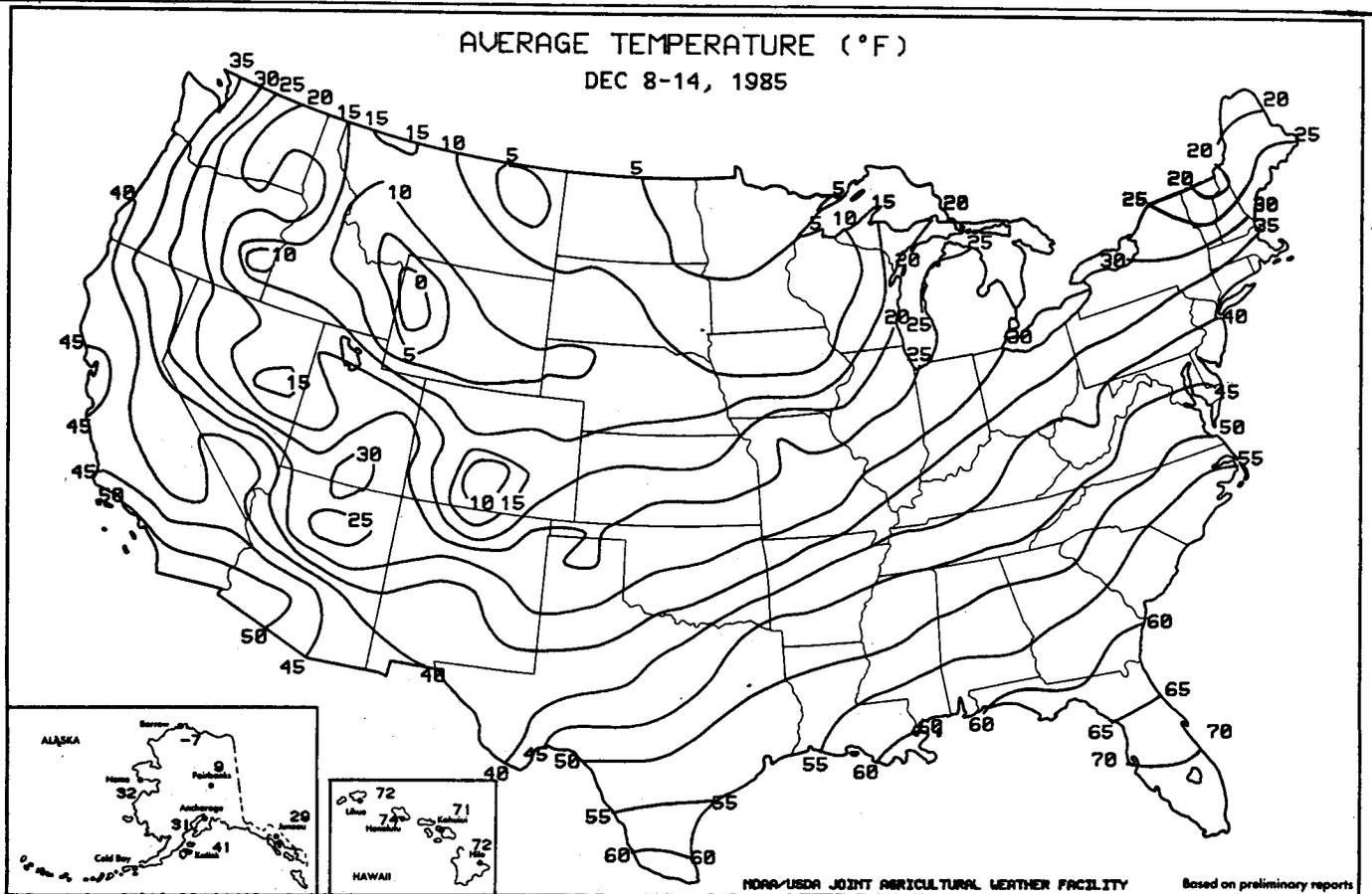
It was a wet November for much of the United States as 25 of the Nation's key index stream-gaging stations reported new record-high flows for the month. According to U.S. Geological Survey hydrologists, 96 percent of the key index stations reported streamflows that were in the normal or above-normal range. Only 12 stations, most of them in the West, reported well-below-average streamflows for November. Of the 173 index stations reporting for the month, 107 stations (62

percent) reported well-above-average flows and 59 stations (34 percent) reported flows in the normal range.

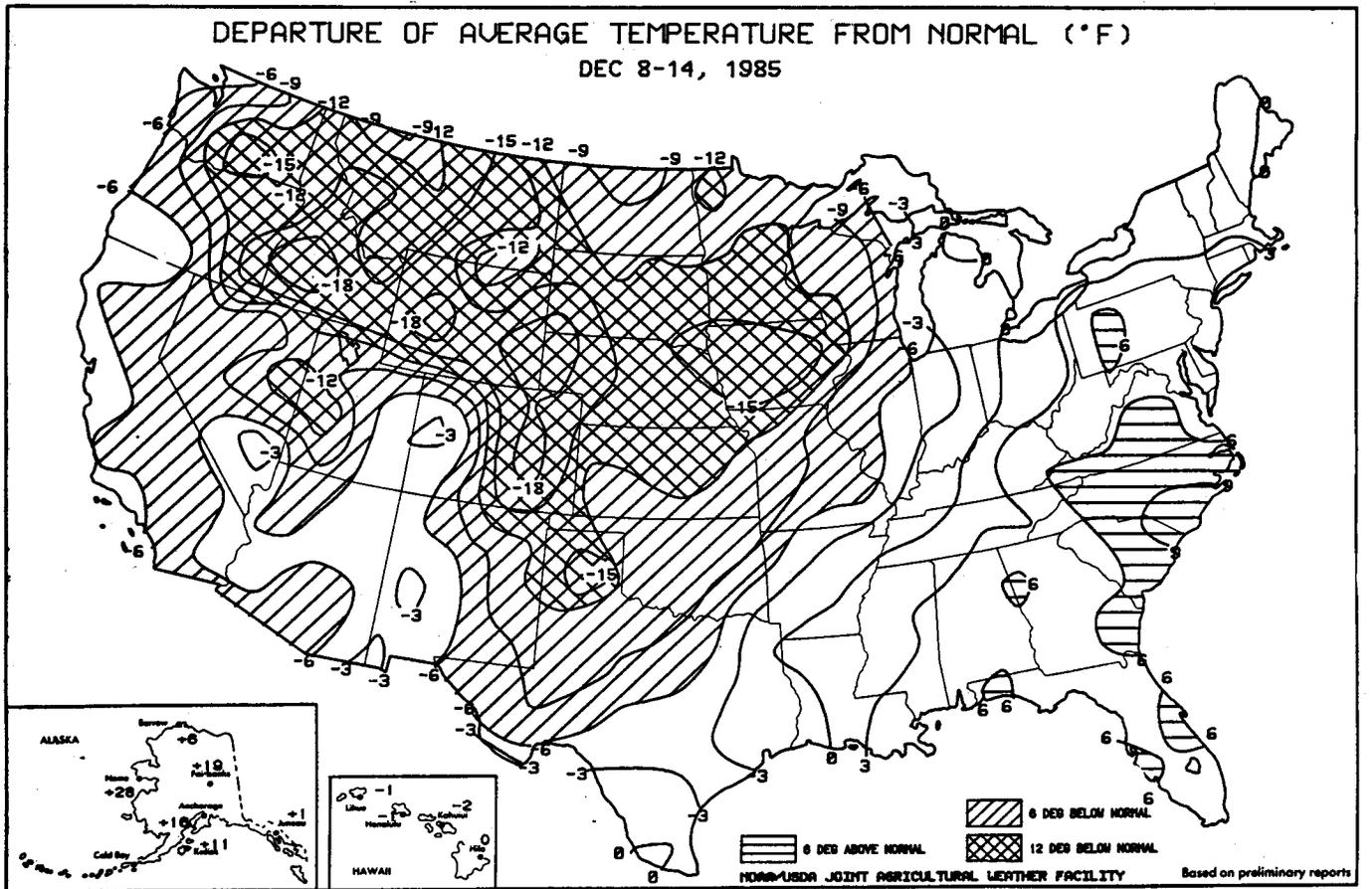
New record-high flows were set for streams in West Virginia, Virginia, North Carolina, Pennsylvania, Ohio, Kentucky, Indiana, Illinois, Michigan, Wisconsin and Montana. "November was an unusual month for the Nation's streams," said Tom Ross, a USGS hydrologist and chief of the hydrologic information unit, Reston, Va. "We'd have to go back many years to find a November when so many streams set records. Most of the streams that had new November high flows have records that go back over 50 years and two have records that go back about 90 years."

The combined flow of the Nation's three largest rivers—Mississippi, St. Lawrence and Columbia—was 744 billion gallons per day (bgd), 75 percent above the long-term November average, reflecting the generally wet picture. These three rivers, which drain more than half of the conterminous United States, serve as a useful indicator of streamflow conditions across the country.

The wetter-than-normal conditions in much of the East also brought additional storage to the New York City reservoir system, which was at 65 percent of full storage capacity. The improved storage level, which equals the long-term November average, allowed New York City to lift all mandatory water restrictions Nov. 27. Nationwide, storage in 54 percent of the 100 key index reservoirs was above the long-term average for November.



Point values may differ on these computerized maps from the reported values in the tables.



Weather Data for the Week Ending December 14, 1985

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 Dec. 1	PCT. NORMAL SINCE Dec. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	60	40	71	18	50	4	1.6	.5	1.0	2.0	94	49.1	95	94	58	0	2	2	2
MOBILE	67	49	77	27	58	4	2.7	1.4	1.6	2.9	118	68.5	111	95	66	0	1	2	2
MONTGOMERY	65	42	77	24	53	4	2.5	1.4	1.4	3.1	148	45.9	99	95	58	0	1	2	2
AK ANCHORAGE	36	26	47	17	31	16	.4	.1	.3	.4	64	14.5	99	97	77	0	6	0	0
BARROW	0	-14	11	-32	-7	6	.1	0	.1	.1	75	3.7	79	85	77	0	7	2	0
FAIRBANKS	17	0	36	-19	9	19	T	T	T	T	0	11.6	116	91	80	0	7	0	0
JUNEAU	32	27	37	21	29	1	.5	-.6	-.4	1.6	71	34.5	70	92	73	0	7	3	0
KODIAK	43	38	46	34	41	11	9.4	8.1	3.7	12.5	468	74.2	105	99	86	0	6	3	5
NOME	37	28	42	15	32	28	.2	.2	.2	.3	87	20.2	140	90	62	0	6	3	0
AZ PHOENIX	57	39	68	35	48	-6	.8	.6	.8	.8	253	7.8	118	83	34	0	7	1	0
PRESCOTT	44	20	52	17	32	-6	.2	-.3	.1	.2	3	15.1	84	82	31	0	7	1	0
TUCSON	57	32	72	26	44	-8	.2	-.1	.1	.2	36	12.9	122	84	33	0	5	0	0
YUMA	61	40	73	35	51	-6	.2	-.1	.2	.2	157	2.7	130	95	67	0	6	5	0
AR FORT SMITH	45	26	65	9	35	-7	.4	-.3	.1	.4	27	50.1	130	95	67	0	6	5	2
LITTLE ROCK	51	33	70	12	42	-2	2.8	1.9	1.6	3.4	179	50.9	115	97	73	0	3	5	0
CA BAKERSFIELD	49	34	52	29	42	-2	T	T	T	.2	75	4.2	78	95	58	0	3	1	0
EUREKA	52	36	54	31	44	-.5	.4	-1.0	.4	2.7	98	23.0	66	84	62	0	4	0	0
FRESNO	47	33	55	29	40	-.6	.4	-.4	0	.6	80	8.2	85	97	71	0	4	0	0
LOS ANGELES	62	44	69	40	53	-.1	.1	-.2	.1	.4	69	9.3	84	66	27	0	0	2	0
RED BLUFF	51	32	57	24	41	-.4	T	T	T	2.1	137	13.8	71	80	41	0	3	2	0
SACRAMENTO	52	32	57	27	42	-.4	0	-.6	0	1.4	115	10.5	68	93	47	0	4	0	0
SAN DIEGO	60	43	66	38	52	-.3	.3	-.1	.2	1.1	189	8.8	104	83	39	0	0	2	0
SAN FRANCISCO	53	37	57	33	45	-1.5	0	-.7	0	.9	63	11.8	67	75	44	0	0	0	0
CO DENVER	28	5	49	-6	16	-17	.7	.5	.3	.7	232	16.4	109	83	49	0	7	4	0
GRAND JUNCTION	33	17	40	9	25	-5	.2	.1	.1	.5	204	12.0	156	92	55	0	7	3	0
PUEBLO	28	3	45	-10	15	-18	.2	.2	.2	.2	171	13.2	123	92	58	0	7	3	0
CT BRIDGEPORT	42	34	47	25	38	-.6	.6	-.2	.5	1.0	59	35.7	87	82	58	0	4	6	1
HARTFORD	40	27	46	18	33	-.3	.8	-.2	.4	1.0	52	36.6	90	90	52	0	2	2	0
DC WASHINGTON	53	35	65	23	44	.4	.5	-.3	.4	.5	34	35.7	96	96	70	0	2	2	2
FL APALACHICOLA	69	52	78	32	60	1.7	.9	.9	1.1	2.7	172	67.1	127	96	57	0	0	1	1
DAYTONA BEACH	76	54	81	39	65	.9	.9	-.4	.7	1.7	167	44.9	95	98	58	0	0	2	1
JACKSONVILLE	72	51	81	33	61	2.9	2.3	2.9	3.3	3.3	302	58.2	113	97	58	0	0	1	0
KEY WEST	80	69	82	59	75	3	.1	-.3	.1	1.1	125	41.0	106	89	67	0	0	0	0
MIAMI	80	64	84	50	72	3	.1	-.3	.1	2.5	294	55.1	98	85	55	0	0	0	0
ORLANDO	78	57	82	43	68	5	.9	-.5	.5	3.0	361	46.8	100	98	55	0	0	2	0
TALLAHASSEE	70	45	77	25	57	4	5.1	4.0	3.3	6.2	305	62.1	100	98	59	0	1	2	0
TAMPA	77	59	82	40	68	7	.5	-.1	-.5	.5	55	44.1	97	92	58	0	0	2	0
WEST PALM BEACH	80	65	84	48	72	5	.1	-.4	.1	.5	50	46.9	80	88	55	0	0	2	1
GA ATLANTA	62	42	73	22	52	1.3	.4	-.9	.9	1.6	89	49.2	106	92	55	0	1	2	0
AUGUSTA	67	40	77	27	53	6	1.5	.9	1.2	1.9	145	38.5	93	92	50	0	2	2	2
MACON	66	41	77	25	53	4	2.0	1.1	1.2	2.2	133	35.3	83	96	53	0	2	2	2
SAVANNAH	69	47	78	31	58	6	1.5	.9	1.2	2.0	166	38.9	81	94	53	0	1	1	1
HI HILO	80	65	82	63	72	0	1.0	-2.2	.8	2.0	30	111.3	91	90	65	0	0	0	0
HONOLULU	83	65	84	62	74	-1	0	-.8	0	T	2	16.7	77	90	54	0	0	0	0
KAHULUI	79	63	82	58	71	-2	.6	0	.3	.7	60	15.6	86	95	69	0	0	0	0
LIHUE	80	64	85	60	72	-1	0	-1.2	0	T	0	25.7	63	91	60	0	0	2	0
ID BOISE	21	5	35	-6	13	-20	.3	.1	.3	1.2	214	11.2	103	94	74	0	7	1	0
LEWISTON	28	18	36	9	23	-12	.1	-.2	.1	.3	45	9.6	80	95	73	0	7	0	1
POCATELLO	18	0	30	-19	9	-19	.7	.5	.7	1.2	279	11.8	115	94	73	0	7	3	0
IL CHICAGO	30	13	40	-8	21	-8	.3	-.2	.2	1.3	133	39.9	124	87	65	0	7	2	0
MOLINE	25	9	35	-9	17	-11	.4	-.1	.2	1.9	212	40.9	113	90	69	0	7	3	1
PEORIA	29	16	46	-1	22	-7	1.0	.5	.8	2.0	205	43.6	129	92	74	0	7	3	0
QUINCY	29	15	45	2	22	-10	1.3	.9	1.1	2.2	256	42.8	116	92	78	0	7	3	0
ROCKFORD	25	10	35	-11	17	-9	.3	-.1	.3	1.8	195	39.7	111	91	70	0	7	3	0
SPRINGFIELD	32	18	48	1	25	-7	1.9	1.4	1.4	2.2	227	38.7	118	87	70	0	4	3	1
IN EVANSVILLE	44	27	59	3	35	-2	1.3	.5	1.0	1.7	102	45.9	116	94	67	0	4	4	1
FORT WAYNE	33	22	45	-1	27	-3	1.8	1.3	.9	2.2	196	35.6	108	95	79	0	6	3	2
INDIANAPOLIS	37	22	51	-2	29	-3	2.7	2.0	1.5	3.0	214	46.7	125	93	74	0	5	4	0
SOUTH BEND	30	21	38	-2	26	-5	.6	-.2	.3	1.6	117	38.3	105	94	73	0	7	4	0
IA DES MOINES	20	3	30	-13	11	-16	.3	.1	.2	.8	156	28.0	92	83	65	0	7	2	0
STOUC CITY	19	-1	33	-15	9	-16	.1	-.1	.1	.3	63	23.1	92	88	72	0	7	2	0
WATERLOO	18	-1	28	-19	8	-15	.2	-.1	.1	1.2	198	30.0	93	89	69	0	7	2	0
KS CONCORDIA	26	8	41	-8	17	-15	.3	.2	.2	.3	94	25.6	96	89	66	0	7	2	0
DODGE CITY	32	14	48	1	23	-12	.1	-.1	.1	.1	29	22.6	111	92	66	0	7	3	0
GOODLAND	26	7	44	-5	17	-15	.3	.2	.2	.3	121	22.0	137	91	68	0	7	2	0
TOPEKA	28	14	42	1	21	-12	.5	.2	.4	.6	94	44.5	136	90	68	0	7	3	0
WICHITA	31	16	45	4	23	-12	.6	.3	.4	.6	118	33.5	119	93	66	0	7	3	0
KY BOWLING GREEN	48	28	63	10	38	-1	1.2	.2	.8	1.6	79	40.3	87	97	69	0	4	3	1
LEXINGTON	46	29	63	9	38	0	.9	.6	.6	1.1	60	37.7	86	93	68	0	4	2	1
LOUISVILLE	46	29	65	8	38	-1	.6	-.2	.5	.9	57	37.7	90	93	66	0	4	1	1
LA ALEXANDRIA	61	44	74	27	52	0	4.6	3.5	2.6	5.2	233	66.1	127	85	61	0	0	4	2
BATON ROUGE	66	47	81	28	56	3	2.9	1.8	2.0	3.2	140	58.8	111	97	63	0	1	3	2
LAKE CHARLES	62	45	77	26	53	-1	2.0	.8	1.3	2.2	97	51.3	102	97	69	0	1	3	2
NEW ORLEANS	68	50	81	29	59	4	3.4	2.2	2.9	3.7	155	65.8	116	94	63	0	1	3	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending December 14, 1985

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 DEC. 1	PCT. NORMAL SINCE DEC. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F				
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	58	39	77	18	49	-1	2.7	1.8	2.3	3.4	188	51.2	122	97	64	0	2	2	1	
ME CARIBOU	26	11	29	0	19	1	1.6	-1	0.4	1.3	84	28.2	81	91	64	0	7	3	0	
PORTLAND	37	20	42	12	29	2	1.1	0	0.6	2.2	101	33.8	82	90	54	0	7	4	0	
MD BALTIMORE	52	34	62	19	42	4	1.6	-2	0.6	0.7	45	36.6	92	90	49	0	4	2	1	
SALISBURY	56	34	66	23	45	5	1.5	-3	0.4	0.6	36	37.3	87	96	48	0	4	2	1	
MA BOSTON	42	30	44	22	36	1	0.9	-1	0.4	1.1	52	36.4	88	88	55	0	4	5	0	
CHATHAM	45	32	48	22	39	2	0.8	-4	0.5	0.9	41	42.0	95	—	—	0	0	0	0	
MI ALPENA	28	21	34	6	25	0	0	0	0	1.9	209	33.1	119	95	74	0	3	3	0	
DETROIT	32	25	41	9	29	-1	0.3	-3	0.2	0.9	73	39.4	133	90	90	0	7	3	0	
FLINT	30	23	37	9	27	-2	0.2	-3	0.2	0.2	86	39.9	141	93	81	0	4	4	0	
GRAND RAPIDS	29	24	35	11	26	-2	0.2	-5	0.1	1.1	89	40.1	122	93	73	0	7	3	0	
HOUGHTON LAKE	26	21	34	7	24	-1	0.1	-3	0.1	1.1	132	32.7	122	91	74	0	7	2	0	
LANSING	29	24	36	11	27	-2	0.1	-3	0.1	1.2	132	32.7	122	91	74	0	7	2	0	
MARQUETTE	20	4	30	-14	12	-7	0.2	-4	0.1	0.6	60	33.3	117	94	77	0	7	2	0	
MUSKOGON	32	25	37	11	28	-1	0.2	-4	0.1	3.1	265	51.0	142	97	70	0	7	5	0	
SAULT STE. MARIE	25	14	31	-1	20	-2	0.4	-2	0.2	1.2	94	40.4	134	90	70	0	6	3	0	
MN ALEXANDRIA	12	-4	21	-16	4	-13	0.1	-2	0.2	1.6	125	37.5	116	93	63	0	7	6	0	
DULUTH	9	-3	24	-22	5	-11	0.1	-2	0.1	1.1	295	25.8	107	88	77	0	7	0	0	
INT'L FALLS	12	-4	21	-16	4	-13	0.1	-2	0.2	1.6	125	37.5	116	93	63	0	7	6	0	
MINNEAPOLIS	17	-1	26	-17	3	-8	0.1	-2	0.1	0.9	31	29.9	126	91	73	0	7	3	0	
ROCHESTER	16	-1	27	-20	7	-13	0.2	-1	0.1	1.1	212	31.4	121	86	66	0	7	1	0	
MS GREENWOOD	58	39	76	19	49	2	2.8	1.6	1.1	0.8	186	27.4	99	90	74	0	7	3	0	
JACKSON	61	40	78	20	50	1	2.4	1.2	1.4	3.0	124	46.8	94	98	58	0	2	2	2	
MERIDIAN	63	41	76	21	52	3	2.4	1.1	1.2	2.9	119	50.8	101	98	58	0	2	2	2	
MO CAPE GIRARDEAU	44	27	57	8	36	—	1.3	-4	0.8	1.7	92	47.3	111	96	69	0	4	4	1	
COLUMBIA	32	18	52	3	25	-10	2.8	2.3	1.7	3.3	366	55.7	159	95	76	0	7	3	2	
KANSAS CITY	27	12	47	-1	20	-14	0.9	-6	0.6	1.1	157	52.6	152	91	73	0	7	3	1	
SAINT LOUIS	37	22	57	1	29	-6	3.2	2.2	1.8	3.6	323	50.6	154	92	62	0	5	4	3	
SPRINGFIELD	34	19	54	-5	27	-11	2.8	2.2	1.5	2.9	224	56.3	147	96	80	0	6	5	3	
MT BILLINGS	21	4	37	-12	13	-16	0.2	0	0.1	0.2	62	12.8	88	85	66	0	7	3	0	
GLASGOW	15	-10	33	-29	2	-17	0.2	0	0.1	0.1	36	12.4	110	89	74	0	7	1	0	
GREAT FALLS	23	7	32	-4	15	-12	0.4	-3	0.2	0.4	148	17.0	116	92	72	0	7	4	0	
HAVRE	19	-5	33	-18	8	-13	0.1	-1	0.1	0.1	22	11.1	103	87	63	0	7	1	0	
HELENA	21	-1	35	-21	9	-16	0.3	-1	0.2	0.4	135	9.2	84	93	65	0	7	4	0	
KALISPELL	23	4	36	-9	13	-12	0.1	-1	0.1	0.4	57	14.4	96	94	70	0	7	2	0	
MILES CITY	21	-8	33	-25	7	-17	0.1	-1	0.1	0.1	4	11.8	87	86	62	0	7	0	0	
MISSOULA	19	0	36	-15	9	-16	0.1	-3	0.1	0.4	78	12.5	99	91	70	0	7	0	0	
NE GRAND ISLAND	24	3	38	-15	14	-14	0.2	0	0.1	0.2	52	28.6	124	87	66	0	7	1	0	
LINCOLN	25	5	37	-10	15	-13	0.2	-1	0.2	0.3	81	30.8	116	86	62	0	7	2	0	
NORFOLK	21	0	39	-17	11	-15	0.2	-1	0.2	0.3	103	25.6	109	89	66	0	7	2	0	
NORTH PLATTE	24	0	39	-18	12	-16	0.6	-5	0.5	0.6	246	19.2	99	78	55	0	7	3	0	
OMAHA	21	3	31	-14	12	-15	0.1	-1	0.1	0.2	45	22.2	75	75	59	0	7	2	0	
SCOTTSSBLUFF	21	-3	36	-22	9	-20	0.9	-7	0.5	0.9	307	11.5	80	90	72	0	7	4	1	
VALENTINE	23	-3	35	-23	10	-15	0.1	-1	0.1	0.1	75	14.9	88	84	64	0	7	2	0	
NV ELY	27	0	37	-12	14	-13	0.1	0	0.1	0.5	161	9.7	113	87	58	0	7	3	0	
LAS VEGAS	51	32	58	24	41	-5	0	-1	0.1	0.1	7	1.3	33	57	22	0	4	0	0	
RENO	36	17	40	11	26	-7	0.1	-3	0.1	0.3	64	4.8	71	87	45	0	7	0	0	
WINNEMUCA	31	12	37	3	22	-9	0.1	-2	0.1	0.2	63	6.4	86	90	52	0	7	0	0	
NH CONCORD	36	20	41	14	28	3	0.9	-1	0.5	1.5	88	30.7	88	93	60	0	7	4	1	
NJ ATLANTIC CITY	53	30	63	20	42	5	0.3	-6	0.3	0.6	34	29.6	74	94	52	0	4	1	0	
NM ALBUQUERQUE	42	21	60	14	31	-5	0.1	0	0.1	0.1	47	10.7	137	80	39	0	4	1	0	
CLOVIS	38	17	60	7	27	-13	0.2	0	0.2	0.2	61	27.8	166	74	46	0	2	2	0	
ROSWELL	47	20	72	9	34	-9	0.2	0	0.1	0.1	58	12.5	130	74	37	0	6	6	0	
NY ALBANY	35	26	39	17	30	2	0.9	-2	0.5	1.6	115	29.4	86	97	73	0	4	4	0	
BINGHAMTON	33	27	37	12	30	3	0.9	-2	0.4	1.6	113	33.0	93	100	88	0	6	6	0	
BUFFALO	35	28	39	12	31	1	1.2	-4	0.4	1.8	110	42.9	120	98	80	0	5	6	0	
NEW YORK	46	37	50	24	42	4	0.2	-6	0.2	0.6	37	36.9	90	79	51	0	5	2	0	
ROCHESTER	34	28	37	11	31	1	0.6	0	0.2	0.9	71	29.4	98	97	76	0	5	5	0	
SYRACUSE	35	29	37	14	32	2	1.0	-2	0.4	1.3	86	32.0	85	99	81	0	5	7	0	
NC ASHEVILLE	58	32	67	15	45	5	0.4	-4	0.2	0.7	43	36.1	79	97	56	0	4	4	0	
CHARLOTTE	62	38	69	24	50	5	0.6	-2	0.5	0.7	50	49.2	119	89	53	0	4	2	0	
GREENSBORO	59	38	65	23	48	7	1.0	-2	0.7	1.2	81	37.0	91	90	56	0	2	3	1	
HATTERAS	66	46	71	33	56	6	0.3	-7	0.3	0.6	27	67.0	126	99	58	0	2	3	0	
NEW BERN	69	43	74	30	56	9	0.4	-4	0.2	0.5	29	53.2	104	97	50	0	2	2	0	
RALEIGH	61	39	67	25	50	7	0.7	0	0.6	0.7	51	38.2	96	84	48	0	2	2	1	
WILMINGTON	72	45	77	30	59	10	1.0	-2	0.6	1.1	73	43.7	85	98	52	0	2	2	1	
ND BISMARCK	19	-6	34	-18	7	-11	0.1	-1	0.1	0.1	71	17.6	117	87	68	0	7	3	0	
FARGO	12	-4	24	-16	4	-11	0.1	-1	0.1	0.1	21	16.9	94	86	66	0	7	1	0	
GRAND FORKS	10	-7	23	-18	1	-12	0.1	-1	0.1	0.1	131	18.9	98	84	71	0	7	3	0	
WILLISTON	16	-4	33	-21	6	-11	0.1	-1	0.1	0.1	19	12.0	89	87	71	0	7	3	0	
OH AKRON-CANTON	38	26	49	6	32	1	1.8	1.2	0.7	2.3	184	38.4	111	95	81	0	5	3	1	
CINCINNATI	42	26	57	3	34	-1	1.1	0.5	1.0	1.4	101	44.0	114	93	66	0	4	3	1	
CLEVELAND	37	27	48	7	32	0	1.4	0.8	0.9	1.9	151	40.5	119	93	75	0	4	3	1	
COLUMBUS	41	27	48	7	34	1	1.2	0.6	0.7	1.6	130	38.3	108	88	67	0	4	3	1	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

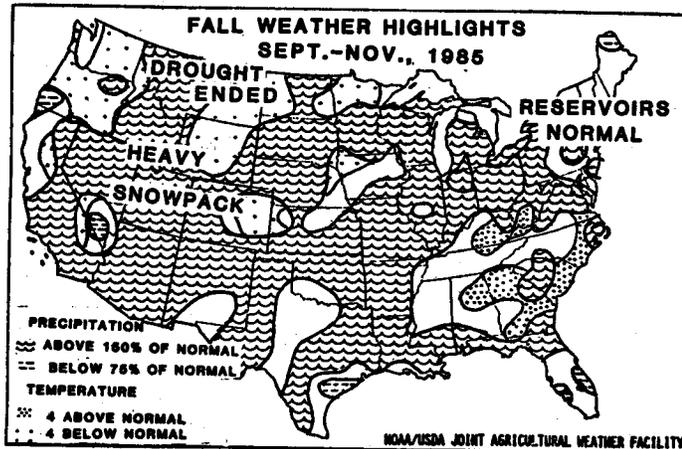
Weather Data for the Week Ending December 14, 1985

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 Dec. 1	PCT. NORMAL SINCE Dec. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE		PRECIPITATION	
																		°F	°F	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	39	25	52	1	32	-1	1.6	1.0	1.0	2.0	172	35.5	106	91	72	0	5	3	1	1	
TOLEDO	34	25	45	6	30	0	.9	.3	.5	1.2	97	37.9	125	95	75	0	4	3	1	1	
YOUNGSTOWN	37	27	48	8	32	0	1.1	.4	.8	1.7	132	39.3	110	95	80	0	5	3	1	1	
OK OKLAHOMA CITY	38	21	65	8	30	-11	1.3	0	.1	.3	46	44.3	146	90	65	0	6	4	0	1	
TULSA	38	23	59	8	30	-11	1.4	T	1.0	1.4	147	51.2	135	93	69	0	6	4	1	0	
OR ASTORIA	45	27	50	22	36	-7	.7	T	-2.6	2.4	47	41.2	65	99	68	0	6	1	0	0	
BURNS	20	-1	33	-14	9	-19	0	T	.7	174	8.6	118	94	50	0	6	7	0	0		
MEDFORD	44	26	47	20	35	-3	.3	T	-1.8	.8	52	10.7	60	97	78	0	6	0	0	0	
PENDLETON	25	14	32	8	20	-17	.1	T	-1.1	1.0	140	11.0	98	94	50	0	6	0	0	0	
FORTLAND	40	27	43	22	34	-8	.1	T	-1.4	2.2	77	22.4	66	94	61	0	6	1	0	0	
SALEM	42	24	48	18	33	-8	.1	T	-1.5	2.2	70	23.3	64	95	63	0	6	0	0	0	
PA ALLENTOWN	44	31	48	18	37	.5	.6	T	-2.2	1.4	79	46.5	110	95	72	0	4	3	6	0	
ERIE	38	31	47	11	35	.3	.9	T	-2.4	1.4	86	44.0	117	94	66	0	2	2	0	0	
HARRISBURG	45	33	51	17	39	.5	.5	T	-3.4	1.1	73	34.0	91	86	56	0	3	2	2	1	
PHILADELPHIA	50	31	60	21	41	.4	.6	T	-2.5	.8	51	35.1	89	93	55	0	4	4	1	1	
PITTSBURGH	42	29	51	10	35	.3	3	T	-2.7	1.8	158	38.0	109	88	70	0	5	4	4	1	
SCRANTON	40	31	47	15	36	.5	5	T	-1.6	1.6	130	39.8	118	93	69	0	4	4	4	0	
RI PROVIDENCE	43	29	46	22	36	.8	.8	T	-2.3	1.5	73	40.9	95	94	55	0	6	4	4	1	
SC CHARLESTON	69	46	76	34	58	.4	.4	T	-3.3	1.0	73	50.1	101	97	57	0	0	2	2	0	
COLUMBIA	66	39	75	24	52	.5	.6	T	-2.0	.8	54	47.7	101	96	45	0	3	3	2	2	
FLORENCE	70	43	76	30	57	.6	.6	T	.0	.9	68	33.7	80	93	51	0	2	2	0	1	
GREENVILLE	61	38	67	21	49	.5	.5	T	.7	.9	52	44.5	92	94	58	0	2	2	3	1	
SD ABERDEEN	15	-5	33	-20	5	-13	T	T	-1.1	.4	139	18.5	106	89	73	0	7	7	1	0	
HURON	16	-4	33	-21	6	-15	T	T	-1.1	.3	96	24.6	134	86	66	0	7	2	2	0	
RAPID CITY	21	1	39	-15	11	-16	T	T	-1.1	.2	14	12.9	80	91	70	0	7	7	2	0	
STIOUX FALLS	17	-2	33	-17	7	-14	T	T	-2.2	.2	55	26.8	113	86	96	0	3	3	3	1	
TN CHATTANOOGA	58	34	68	19	46	.4	4	T	.6	1.6	70	38.7	78	96	62	0	4	4	3	1	
KNOXVILLE	56	32	65	15	44	.2	.8	T	-3.5	1.4	66	35.5	79	97	65	0	2	3	3	1	
MEMPHIS	53	34	73	14	43	-1	1.0	T	-1.1	.6	90	46.4	95	95	63	0	2	3	3	1	
NASHVILLE	52	32	68	12	42	.0	.5	T	-5.3	.8	40	30.7	67	93	60	0	3	3	3	0	
TX ABILENE	48	28	73	16	38	.9	.2	T	-2.2	.3	7	22.2	97	90	59	0	5	5	2	0	
AMARILLO	32	15	54	5	23	-16	.3	T	.1	.3	137	22.4	119	94	68	0	7	2	2	0	
AUSTIN	56	38	78	24	47	.6	1.0	T	.6	.9	1.1	108	32.6	107	88	62	0	2	2	3	1
BEAUMONT	62	46	76	26	54	-2	1.9	T	.9	1.4	2	32.5	131	96	61	0	2	1	3	2	
BROWNSVILLE	69	50	84	30	60	.3	.3	T	-3.9	1.1	187	36.2	123	96	66	0	1	3	3	1	
CORPUS CHRISTI	64	48	79	28	56	-4	1.1	T	.8	.9	1.1	17.4	103	85	48	0	3	1	1	0	
DEL RIO	59	37	75	20	48	.6	.1	T	-1.1	.1	4	8.2	108	75	26	0	5	4	1	1	
EL PASO	54	25	70	11	39	-6	.1	T	.1	.1	36	30.6	107	90	61	0	1	3	3	1	
FORT WORTH	51	32	74	16	41	-7	.6	T	.2	.5	71	40.6	106	94	73	0	2	2	2	1	
GALVESTON	59	49	72	30	54	-3	1.5	T	.6	1.2	1.8	109	49.0	114	89	64	0	1	2	2	0
HOUSTON	62	44	77	25	53	-2	3.6	T	2.9	3.8	224	49.0	114	89	56	0	6	6	4	0	
LUBBOCK	41	20	70	8	31	-12	.2	T	.1	.2	100	23.1	132	92	56	0	6	4	1	0	
MIDLAND	50	25	76	14	37	.1	.1	T	.1	.1	18	16.4	121	94	53	0	6	6	0	0	
SAN ANGELO	51	28	74	10	40	.9	.1	T	-1.1	.1	3	21.9	122	95	58	0	1	1	1	0	
SAN ANTONIO	59	40	78	23	50	.1	.1	T	-2.1	.1	13	41.3	145	87	58	0	2	2	2	1	
VICTORIA	62	44	78	24	53	.4	2.0	T	1.8	2.2	215	39.8	111	95	65	0	0	2	2	0	
WACO	53	35	76	20	44	.7	2.0	T	1.7	2.0	220	32.9	110	93	67	0	4	6	3	1	
WICHITA FALLS	46	25	76	12	35	.9	.1	T	-2.1	.1	20	30.6	117	88	55	0	7	7	1	0	
UT BLANDING	35	16	38	11	25	-5	.5	T	.3	.3	4	15.9	146	88	67	0	7	7	0	0	
CEDAR CITY	31	11	40	3	21	-11	.3	T	.1	.1	87	9.7	98	92	59	0	6	6	0	1	
SALT LAKE CITY	31	13	39	2	22	-9	1.1	T	.8	1.0	1.2	205	16.8	116	82	55	0	6	6	0	1
VT BURLINGTON	30	21	36	5	26	.1	.8	T	.3	.4	1.4	114	33.0	102	93	71	0	7	6	1	0
VA NORFOLK	60	39	71	29	50	.5	.5	T	-2.5	.6	40	44.6	103	92	51	0	1	1	1	0	
RICHMOND	59	37	72	24	48	.7	.4	T	-4.4	.4	23	49.0	116	92	44	0	2	2	2	0	
ROANOKE	55	33	64	17	44	.5	.5	T	-1.1	.3	.6	44	49.6	132	90	49	0	3	2	0	0
WA COLVILLE	23	11	38	0	17	-11	0	T	-6.6	.7	63	13.4	83	89	80	0	6	1	0	0	
QUILLAYUTE	44	25	49	19	35	.6	.6	T	-3.7	3.0	41	59.4	62	99	70	0	6	6	0	0	
SEATTLE-TACOMA	42	29	45	26	36	.6	.6	T	-1.4	1.8	63	25.1	72	89	59	0	6	6	0	0	
SPOKANE	25	8	37	-1	17	-13	0	T	-1.6	.6	52	11.0	72	94	70	0	7	7	0	0	
YAKIMA	26	8	35	-1	17	-16	T	T	-3.3	1.0	182	5.8	81	93	68	0	7	7	1	1	
WV BECKLEY	48	30	62	10	39	.5	.9	T	.2	.5	1.4	100	35.9	89	93	66	0	3	5	4	1
CHARLESTON	51	33	64	18	42	.4	1.5	T	.8	.9	2.1	149	40.4	100	87	58	0	3	4	2	2
HUNTINGTON	49	33	62	16	41	.3	1.2	T	.6	.6	1.7	124	44.3	114	94	64	0	3	3	3	0
PARKERSBURG	47	30	57	13	39	.3	1.2	T	.6	.6	1.4	113	34.7	88	96	64	0	5	3	2	0
WI GREEN BAY	21	5	33	-17	13	-10	.2	T	-2.2	.1	1.4	194	38.0	139	89	67	0	7	3	0	0
LA CROSSE	18	2	30	-16	10	-13	.3	T	.0	.2	.9	166	28.6	96	85	66	0	7	2	0	0
MADISON	21	6	32	-12	13	-11	.2	T	-2.1	.1	1.9	261	38.4	128	93	71	0	7	2	0	0
MILWAUKEE	25	13	37	-7	19	-7	.2	T	-3.3	.2	2.0	206	36.6	122	89	67	0	7	2	0	0
WAUSAU	18	1	32	-17	10	-10	.2	T	-1.1	.1	1.0	153	33.9	109	87	62	0	7	2	0	0
WY CASPER	18	1	30	-19	10	-17	.9	T	.8	.5	1.0	364	11.6	104	88	73	0	7	4	4	0
CHEYENNE	22	-4	36	-15	13	-17	.6	T	.5	.8	375	19.7	150	87	65	0	7	4	2	2	
LANDER	14	5	31	-16	4	-20	1.6	T	1.5	.3	1.6	586	10.6	83	90	71	0	7	7	0	0
SHERLDAN	28	2	39	-16	15	-11	.2	T	.0	.1	.2	59	11.0	75	91	54	0	7	2	4	0
PR SAN JUAN	83	71	84	66	77	-1	.3	T	-8.1	1.2	52	43.6	84	95	65	0	0	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS



## FALL WEATHER REVIEW



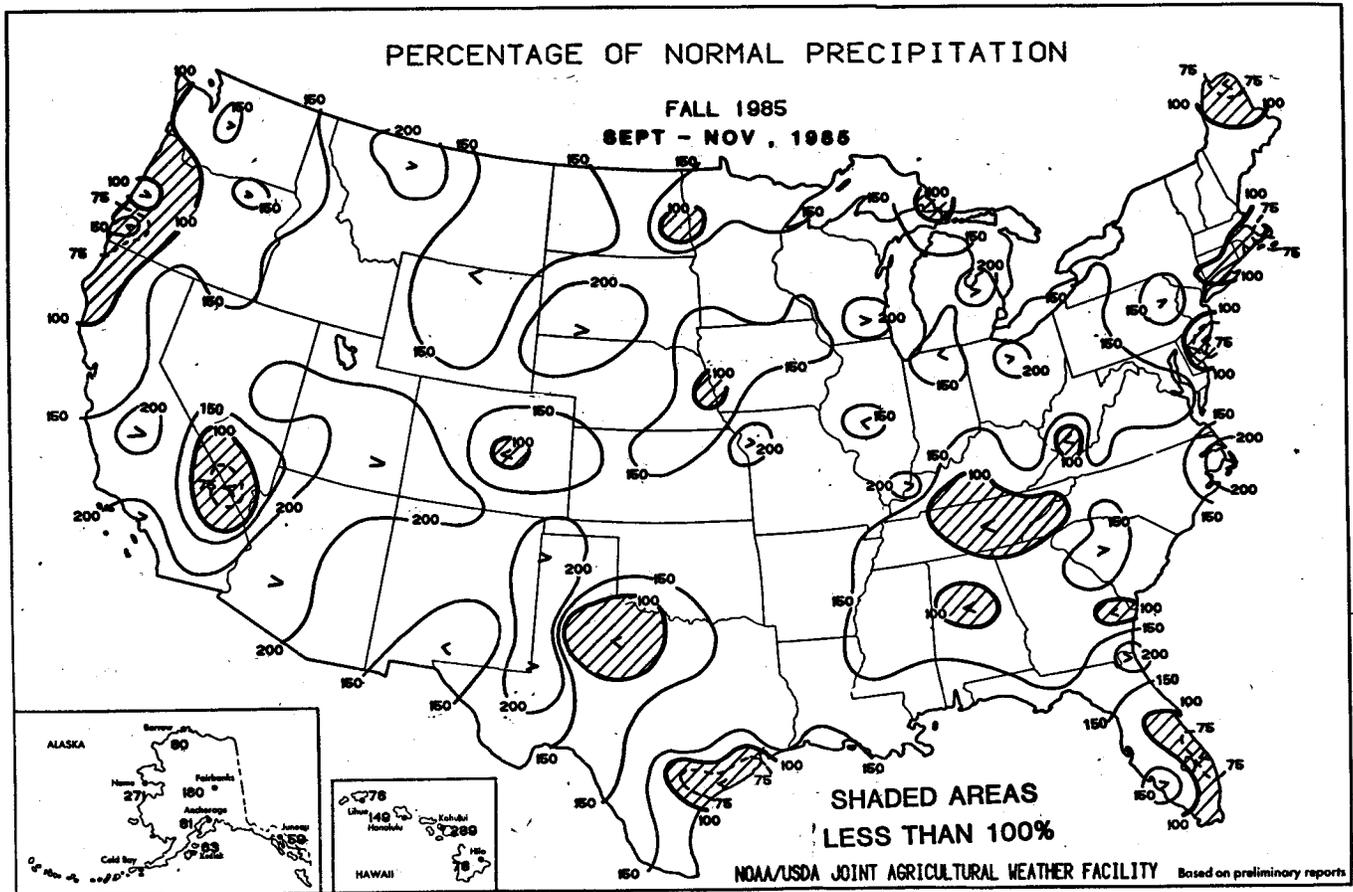
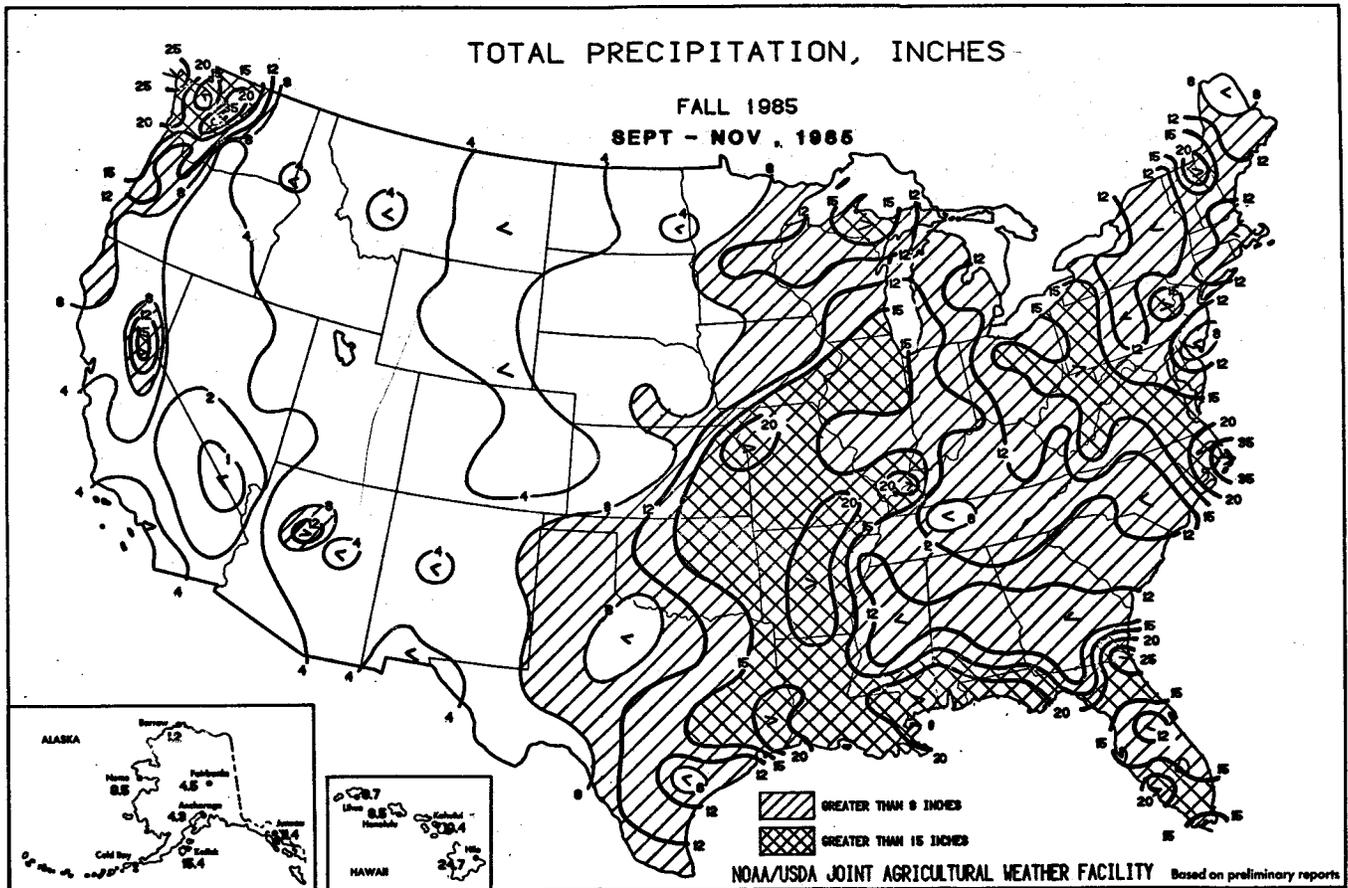
**HIGHLIGHTS:** Precipitation was above normal in most of the Nation. Some pockets of slightly below normal precipitation were interspersed around the country; however, there were no large areas of dryness. Dry weather in the eastern Corn Belt and much of the Piedmont area of the eastern Seaboard, early in the season, posed some problems for agriculture, but later rain brought most of that area to above normal for the season. Temperatures were cooler than normal in most of the Nation early in the season, but the latter two-thirds of the season was marked by a pattern of cold in the West and warm in the East. While record cold temperatures were being set in the Northwest and the northern Plains, record warm days were seen in the East. Parts of the northern High Plains and intermountain region averaged as much as 12 degrees colder than normal. Freezing temperatures reached into much of California's crop areas.

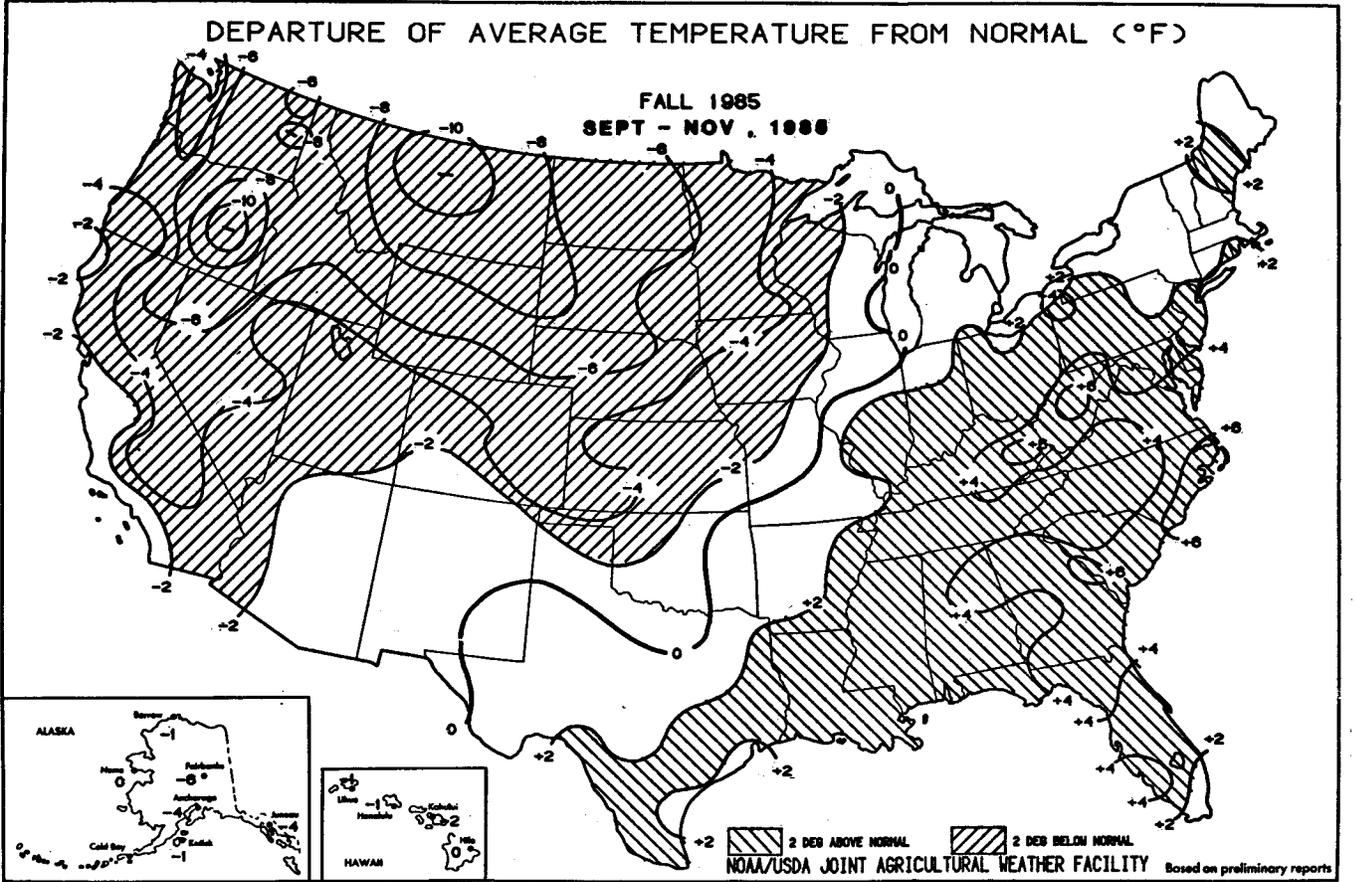
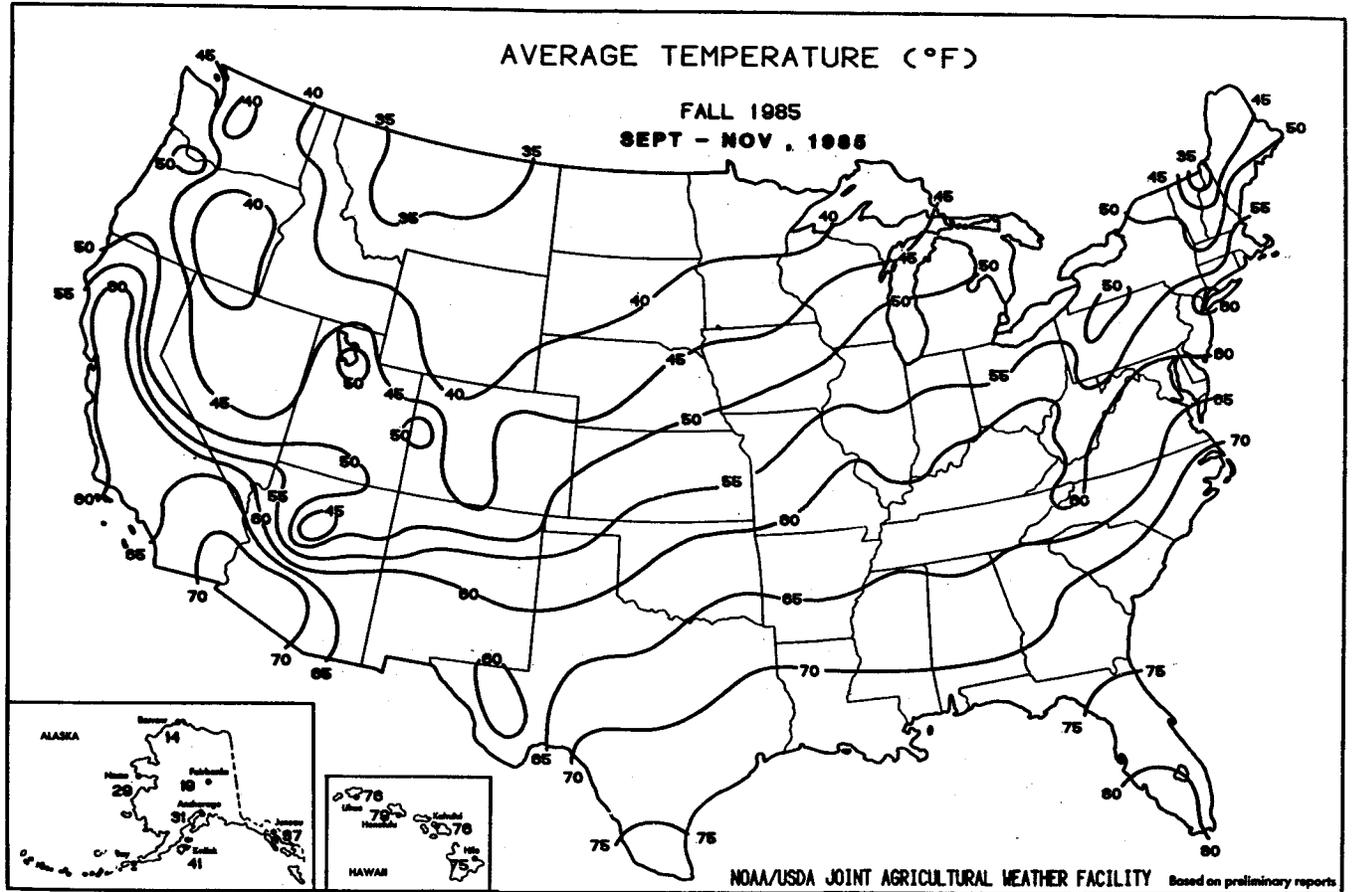
**SEPTEMBER...**Three tropical systems invaded the Nation during the month. Early in the month Tropical Storm Elena spread heavy rain over the northeastern gulf coast and through the Mississippi Delta. In the last week of the month Tropical Storm Henri, then Hurricane Gloria moved up the east coast into New England. Henri spread showers from North Carolina to New England, immediately behind it, Gloria moved over the outer banks of North Carolina and stayed just off the east coast, lashing the coastline with hurricane winds and dumping torrential rain inland. The hurricane followed Henri into New England. In spite of the heavy rain near the coast, the Piedmont from Georgia to Pennsylvania remained dry. The dryness extended through the eastern Corn Belt. Rain continued to fall in the previously dry Montana area. Very light showers fell early in the month in the valleys of California where raisins were spread to dry, but most of the drying period remained rain-

less. The first snow of the season fell in western Montana and in the upper Mississippi Valley. Cooler-than-normal temperatures covered most of the Nation. It was much cooler than normal in the West.

**OCTOBER...**The coldest weather of the season spread through the Plains as far south as the Texas Panhandle at the beginning of the month. Snow fortunately covered the ground in most of the very cold areas. In the second week of the month, remnants of Hurricane Waldo, from the Pacific Ocean, spread moisture northward and triggered showers and thunderstorms from western Texas and New Mexico northeastward into Michigan. Torrential rain fell from the Lubbock, Texas area to southern Iowa. The month was colder than normal in the West, and the northern and central Plains, and warmer in the East. As the month ended Hurricane Juan, in the Gulf of Mexico, meandered along the coast of Louisiana and spread torrential rain from southeastern Texas to the Florida Panhandle.

**NOVEMBER...**A cold outbreak early in the month was preceded by snow which covered most of the important grain areas of the Nation. A second outbreak pushed deep into the West. Freezing temperatures reached into much of California's crop areas. Precipitation was above normal in most of the Nation. However, some areas such as southwestern Texas and New Mexico, parts of the Mississippi Delta and Tennessee Valley, and parts of Florida measured well-below-normal amounts. An unusual late season hurricane, Hurricane Kate, developed northeast of Cuba. Kate wreaked havoc along Cuba's northern coast and then made landfall in the Florida Panhandle and brought high winds, tornadoes, and deluges of rain to northern Florida and southern Georgia. The remnants of the storm triggered heavy rain northward to southern Pennsylvania.







## National Agricultural Summary

December 9 to 15, 1985

**HIGHLIGHTS:** Precipitation across the Corn Belt and Southeast provided moisture for winter wheat and small grains but slowed row crop harvest. Harvest advanced rapidly across the Southeast early in the week but was slowed by rain the second half of the week. Open weather across much of the Plains and Northern Rockies allowed some harvest progress, but snow depth prevented harvesting in some areas. Soil moisture was generally adequate across the Nation. Fieldwork was almost nonexistent in the Corn Belt, averaged 3 to 4 days in the Delta and in the Southeast, and greater than 4 days in most other areas.

Winter wheat was mostly good to fair. Cold weather limited growth across the Corn Belt, the Plain States, and the northern Rockies. Cotton was 87 percent (%) harvested, equaling the average and 7 points ahead of last year. Corn harvest was up 2 points from last week to 91% finished, trailing the average by 8 points. Soybean harvest inched forward 2 points from last week, but sizeable gains were accomplished in the Southeast. Harvest stands at 92% finished compared with 99% normally. Livestock was mostly good, but supplemental feeding increased as the cold weather moved further south. Pastures were mostly good to fair. Below-normal temperatures limited growth across the western two-thirds of the Nation.

**SMALL GRAINS:** Rain slowed winter wheat planting in the Southeast and Southwest. Plantings were 77% complete in Georgia compared with 95% normally. Alabama's wheat seedings were 92% finished, 4 points below normal. Wheat stands were mostly good to fair. Below-normal temperatures slowed growth in the western two-thirds of the Nation. Small grains and wheat benefited and suffered from the cold weather in Texas. The low temperatures slowed greenbug populations and rust infestation but limited growth. Rain and snow provided moisture for wheat in Kansas, but temperatures were too cold for much growth. Most of the wheat in the major producing area was under snow and protected from the low temperatures.

**CORN:** Corn harvest was up 2 points from last week to 91% complete, trailing the average by 8 points. Most of the corn yet to be harvested is in the Corn Belt. Some of the remaining corn in the Corn Belt and other areas may remain in the field until next spring. Harvest in South Dakota and Wisconsin was 21 points behind-normal in both States. Some progress was made in the Corn Belt with harvest up 5 points from the previous week in both Michigan and Ohio. Indiana corn producers were 3 points ahead of last week while Iowa producers harvested 2% of their acreage. Pennsylvania corn harvest surged 8 points in 1 week to 93% completion, 7 points below the average.

**SOYBEANS:** Soybean harvest was up only 2 points from the previous week in the 19 major producing States, but sizeable gains were accomplished in the Southeast. Harvest was 90% finished or greater in all States except Georgia, Missouri, North Carolina, and South Carolina. Harvest jumped 26 points in 1 week in South Carolina with harvest now 56% complete, but still 29 points below the average. North Carolina harvest went from 47% finished to 63% this week. Normally 87% would be cut by this time, and last year 90% was harvested. In Georgia, harvest was 76% complete compared with 97% normally. Missouri's harvest reached 71% completion, 28 points behind average.

**COTTON:** In the 14 major producing States, cotton acreage was 87% harvested, equaling the average. Last year's harvest was 80% complete at this time. Harvest was complete or neared completion in all States except New Mexico, North Carolina, Oklahoma, and Texas. Oklahoma registered the largest departure from normal, down by 10 points. New Mexico and North Carolina were 5 and 6 points behind normal, respectively. In Texas, harvest was slightly behind normal. Harvest made good progress in the Plains and Cross-Timbers areas, but cold weather and snow halted operation midweek.

**OTHER CROPS:** Texas peanut harvest was 10 points slower than normal. The cold weather damaged peanuts in Cross-Timbers area. Yields held steady in south Texas, but could go down if wet weather continues.

Burley marketings continued as producers await the seasonal shut-down for Christmas.

Florida's sugarcane harvest made good progress. Sucrose content was low in early harvested cane. Louisiana sugarcane was 87% harvested compared with the 89% average. Cold weather slowed sugarbeet harvest in Texas.

**VEGETABLES:** Florida's vegetable producers began irrigating to maintain adequate moisture. Shipments of most fall vegetables were steady to increasing. Cucumbers showed seasonal declines. Planting and seeding of spring crops was underway. Intermittent showers in Texas interrupted vegetable harvest in the Rio Grande Valley. Cabbage, peppers, tomatoes, broccoli, lettuce, and other greens were picked. Despite low temperatures some cabbage, spinach, and carrots were picked in the San Antonio-Winter Garden area. Lettuce was harvested in all producing areas in Arizona. Harvest slowed in the Parker-Poston region but gained momentum in Yuma. In western Arizona, Romaine and Leaf lettuce, cauliflower, Bok Choy, and Napa was shipped. California producers harvested a variety of vegetables consisting mostly of carrots, cauliflower, lettuce, broccoli, cantaloupe, and honeydew melons. The wet weather benefited winter vegetables but slowed harvest in the San Joaquin Valley. Land preparation and cultivation for next year's vegetables continued in the northern and central areas.

**FRUIT AND NUTS:** In Florida, cold weather caused no significant tree damage to citrus orchards but was beneficial in slowing tree growth rate. Orange, Dancy tangerine, and grapefruit harvests increased. Early orange harvest in Texas slowed as supplies were exhausted. In Arizona citrus packing consisted of lemons, grapefruit, and tangerines at Yuma and Navel oranges and grapefruit at Phoenix. The cold weather caused very little damage to fruit in southern California and in the San Joaquin Valley even with freezing temperatures. Frost damaged Navel oranges in the Sacramento Valley. Navel orange harvest progressed with good sugar level and demand. Quality of citrus fruit from the desert was good.

**PASTURES AND LIVESTOCK:** Pastures were mostly good to fair. Below-normal temperatures limited growth across the western two-thirds of the Nation. Livestock was mostly good, but supplemental feeding increased as the cold weather moved further south. Hay and roughage supplies were becoming extremely short in some northern areas.

**CROP PROGRESS**

FOR WEEK ENDING DEC 15, 1985

THIS WILL BE THE FINAL ISSUE OF CROP PROGRESS TABLES FOR THE 1985 GROWING SEASON. PUBLICATION OF CROP PROGRESS TABLES WILL RESUME WITH SPRING PLANTING.

COTTON				CORN				SOYBEANS				WINTER WHEAT			
% HARVESTED				% HARVESTED				% HARVESTED				% EMERGED			
	1985	1984	AVG.		1985	1984	AVG.		1985	1984	AVG.		1985	1984	AVG.
ALA	100	100	99	COLO	94	95	94	ALA	95	99	97	ARK	95	NA	NA
ARIZ	92	96	89	GA	100	100	100	ARK	93	96	99	CALIF	60	45	55
ARK	99	97	99	ILL	96	98	100	GA	76	95	97	COLO	98	95	94
CALIF	95	99	97	IND	90	94	100	ILL	98	97	100	GA	65	NA	NA
GA	93	97	99	IOWA	94	100	100	IND	95	97	100	IDAHO	100	100	100
LA	99	95	98	KANS	100	100	100	IOWA	99	100	100	ILL	100	100	100
MISS	99	93	97	KY	97	98	99	KANS	95	100	100	IND	100	100	100
MO	99	95	99	MICH	80	100	100	KY	90	91	99	KANS	90	100	100
N MEX	85	80	90	MINN	87	99	98	LA	99	98	98	MICH	100	NA	NA
N C	90	96	96	MO	86	99	99	MICH	90	100	100	MO	91	85	94
OKLA	55	60	65	NEBR	97	100	100	MINN	99	99	99	MONT	80	100	100
S C	98	100	100	N C	100	100	100	MISS	96	91	96	NEBR	100	100	100
TENN	97	91	97	OHIO	90	92	98	MO	71	96	99	OHIO	100	100	100
TEX	78	65	79	PA	93	100	100	NEBR	100	100	100	OKLA	95	97	97
14 STATES	87	80	87	S DAK	79	100	100	N C	63	90	87	OREG	92	95	98
				TEX	100	100	100	OHIO	99	100	100	S DAK	100	100	100
				WIS	74	100	95	S C	56	89	85	TEX	90	98	96
								S DAK	100	100	100	WASH	100	100	100
								TENN	98	90	98				
THESE 14 STATES PRODUCED 100% OF THE 1984 COTTON CROP.				17 STATES	91	98	99	19 STATES	92	97	99	18 STATES	93	NA	NA
				THESE 17 STATES PRODUCED 93% OF THE 1984 CORN CROP.				THESE 19 STATES PRODUCED 94% OF THE 1984 SOYBEAN CROP.				EXCL. STATES WITH NA	93	97	98
											THESE 18 STATES PRODUCED 88% OF THE 1984 WINTER WHEAT CROP.				
											NA - NOT AVAILABLE				

**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 SRS State Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Rainfall totals averaged under 1.00 in. northwest; 1.50 to 3.00 in. elsewhere. Temperatures averaged 20 below normal over northwest; 20 above normal over southeast. Fieldwork 3.3 days. Soil moisture 27% adequate, 73% surplus. Soybeans harvested 95%, 99% 1984, 97% avg. Cotton harvested 100%, 100% 1984, 99% avg. Winter wheat planted 92%, 99% 1984, 96% avg.; 34% fair, 59% good, 7% excellent. Pasture 11% poor, 40% fair, 47% good, 2% excellent. Livestock 36% fair, 62% good, 2% excellent. Primary activities: Harvesting soybeans; planting winter wheat, fertilizing, grazing winter cover crops; soil testing; routine care of livestock, poultry.

**ARIZONA:** Major cold winter storm 11th to 12th with rain. Snow confined to southern two-thirds. Snow level down to 1,100 ft. over south central section, 1 to 4 in. common over southeast, central basins; 4 to 12 in. over eastern part of Mogollon Rim, White Mountains. Moisture amounts between 0.10 to 1.00 in. Maximum temperature readings in 40s and lower 50s in lower deserts, 20s and 30s in higher elevations. Averages varied from 4 to 120 below seasonal normals. Cotton 92% harvested, 96% 1984, 89% avg. Harvest progress slowed due to wet field conditions. Stalk shredding, plowdown generally moderate to active. Wheat, barley growers planted 30% of acreage. Seedbed preparation, planting active, although slowed by rain. Alfalfa in fair to good condition. Cutting continued in west, central areas, finished in southeast. Frost damage reported in west, hay quality not adversely affected. Corn progressing normally. Citrus packing consisted of lemons, grapefruit, tangerines at Yuma; Navel oranges, grapefruit at Phoenix. No frost damage reported. Pecan harvest

advanced. Lettuce harvested in all producing areas. Harvest slowing down Parker-Poston but strong Yuma. In western areas, Romaine, Leaf lettuce; cauliflower; Bok Choy; Napa shipped. In Salt River Valley, Aguila, mixed vegetables harvested.

**ARKANSAS:** Temperatures 1 to 90 below normal. Very warm first of week with heavy rainfall some areas. Very cold air moved in by midweek with snowstorm in northwest portion 12th. Temperature extremes -20; 75. Precipitation 0.40 to 5.89 in.

Days suitable for fieldwork 2.0. Soil moisture 60% adequate, 40% surplus. Cotton 99% harvested, 97% 1984, 99% avg. Winter wheat 95%, Soybeans 93% harvested, 96% 1984, 99% avg.

**CALIFORNIA:** Temperatures averaged well below normal; precipitation spotty for past week. Cold dry northerly flow responsible for cool weather as all locations in State recorded below normal temperature averages. Precipitation amounts mostly light with only Eureka receiving 1.00 in. or more. State currently locked in a dry pattern as high pressure hangs over western U.S. Wet, cold conditions delayed fieldwork. Cotton 95% harvested, 99% 1984, 97% avg.; shredding and discing slowed by wet conditions. Preparation of fields for small grains continued as soil conditions allowed. Good growth for winter wheat. Winter wheat 60% emerged, 45% 1984, 55% avg. Cold, rainy weather slowed all activities. Frost damage reported in northern Sacramento Valley to Navel oranges. No damage in San Joaquin Valley or southern California even with freezing temperatures. Peaches sprayed for shothole and leaf curl. Insecticide spraying and pruning continued. Navel orange harvest progressed, good

sugar levels and demand. Desert grapefruit, lemon, and tangerine harvests continued; good quality. Vegetable preparation, cultivation for next year's crop continued northern, central areas. Wet weather benefited winter crops but slowed harvesting San Joaquin Valley. Artichokes moderate supply, quality generally good central coast. Broccoli moderate; variable quality both Salinas, Santa Maria. Harvesting increased Imperial Valley. Cantaloup, honeydews Imperial Valley, Palo Verde Valley virtually complete. Carrot fairly light Salinas; variable quality. Harvesting continued Coachella Valley, Imperial Valley. Cauliflower very light Salinas as most shippers finished; light supply, variable quality in Santa Maria. Wet weather slowed harvest San Joaquin Valley. Harvesting active Imperial Valley. Celery light, moderate variable quality both Salinas, Santa Maria. Lettuce finished Salinas, Santa Maria; cutting Palo Verde Valley increased to meet strong demand. Most cellars running potatoes limited basis Tulelake-Butte Valley. Movement sweetpotatoes from storage continued San Joaquin Valley. Cold temperatures northern, central districts slowed grass growth. Rains southern areas improved range prospects. Calving, lambing continued active. Movement bee hives San Joaquin Valley for overwintering continued.

**COLORADO:** Large Arctic air mass kept State temperatures below normal first 3 days with moderation to near normal last 4 days. Eastern temperatures 15° below normal. Western temperatures 40° below normal. San Luis Valley and Rio Grande River Basin 17° below normal. North central mountains 5° below normal. Precipitation averaged from 0.50 to 1.00 in. in eastern part with trace to 0.75 in. in other areas of State.

Winter wheat emerged 98%, 95% 1984, 94% avg. Corn harvested 94%, 95% 1984, 94% avg.

**FLORIDA:** Moderate to warm temperatures until weekend, then much colder as cold front moved through 13th, 14th. Temperatures well above normal before front, then freezing as far south as central Peninsula morning of 15th. Rainfall of 1.00 in. Panhandle, 0.50 to 1.00 in. northern Peninsula, 0.25 to 0.50 in. central Peninsula, less than 0.25 in. south.

Soil moisture generally adequate statewide. Soybean harvest nearing completion. Late beans damage by adverse weather, some abandoned. Cotton harvest virtually complete. Sugarcane harvest excellent progress, sucrose low in some early harvested fields. Small grain planting continued after rain delays west Panhandle. Most small grain fields good progress; disease insect problems few fields. Pasture good to excellent Lower Peninsula, fair to good elsewhere. Late week showers stimulated forage growth. Supplemental feeding became more active as cooler weather reduced grazing on native and perennial grass. Cattle good south, fair to good elsewhere. Weekend rains improved citrus tree condition. Irrigation temporarily stopped. Cold temperatures caused no tree damage; beneficial in slowing tree growth rate. Harvest active, increasing for oranges, Dancy tangerines, grapefruit. Robinson tangerine movement over for this season. Warm days, mild nights prevailed vegetable areas. Rainfall very light. Irrigation active to maintain soil moisture. Shipments most fall crops steady to increasing. Cucumbers showing seasonal decline. Good volume continued snap beans, celery, sweet corn, eggplant, peppers, radishes, squash, tomatoes. Increasing supplies for cabbage, carrots, cauliflower, escarole, lettuce, strawberries, planting, seeding spring crops underway.

**GEORGIA:** Temperatures 3 to 40° above normal. Readings well above normal early, well below normal late. Extremes 70° at Blairsville; 800 at Jesup, Waycross. Temperatures below freezing on 2 to 3 days. Rainfall about 1.00 in. except 2.00 and 3.00 in. west central and southern areas. Rain on 3 days.

Days suitable for fieldwork 3.5. Soil moisture 5% short, 50% adequate, 45% surplus. Main activities: Harvesting soybeans, cotton, grain sorghum; planting small grains. Cotton 93% harvested, 97% 1984, 99% avg.; 13% very poor, 36% poor, 31% fair, 18% good, 2% excellent. Grain sorghum 97% harvested; 6% very poor, 32% poor, 45% fair, 17% good. Soybeans 76% harvested, 95% 1984, 97% avg.; 31% very poor, 41% poor, 23% fair, 5% good. Wheat 77% planted, 92% 1984, 95% avg.; 65% emerged; 5% poor, 31% fair, 63% good, 1% excellent. Rye 93% planted, 99% 1984, 97% avg.; 9% poor, 37% fair, 53% good, 1% excellent. Other small grains 93% planted, 98% 1984, 97% avg. Pecans 87% harvested, 87% 1984, 88% avg.; 9% very poor, 35% poor, 45% fair, 11% good. Pastures 14% poor, 40% fair, 45% good, 1% excellent. Cattle 33% fair, 66% good, 1% excellent. Hogs 27% fair, 71% good, 2% excellent.

**HAWAII:** Major crop growing areas enjoyed favorable weather conditions. Winds variable in 5 to 15 mph range. Showers light, occurring mainly over windward and mountain areas. Vegetables regaining normal planting schedules after being disrupted by rainy conditions over past several weeks. Production of fruit-type crops also showed improvement after minor wind damage two weeks ago.

**IDAHO:** Cold trough of low pressure moved through State early in week producing heavy, wet snow across State 7th, 8th. By 11th a ridge of high pressure built over Pacific northwest bringing northerly flow of cold, dry air over State dropping low temperatures into subteens and below zero. During remainder of week trapped air in valleys stagnated bringing fog and smoke to most valleys.

Farm activity limited due to weather. Primarily livestock care, feeding, and marketing. Livestock good. Feed supplies adequate. Some early lambing. **ILLINOIS:** Temperatures 12 to 14° below west and northeast; 6 to 8° below remainder of State. Precipitation above normal for southern three-fourth of State. Precipitation totals none to 3.12 in., heaviest south central.

Soil moisture 19% adequate, 81% surplus. Corn harvested for grain 96%, 98% 1984, 100% avg. Soybeans harvested 98%, 97% 1984, 100% avg. Winter wheat emerged 100%, 100% 1984, 100% avg.; 2% poor, 23% fair, 65% good, 10% excellent. Sorghum harvested for grain 93%, 90% 1984, 100% avg.

**INDIANA:** Cold week with temperatures 5 to 6° below normal north and central, 8 to 10° below normal south. Precipitation generally less than 0.25 in. except northwest amounts 0.50 to 0.75 in. mostly as snow.

Fieldwork averaged 0.7 days. Topsoil moisture 3% adequate, 97% surplus. Subsoil moisture 15% adequate, 85% surplus. Corn 90% harvested, 94% 1984, 100% avg. Corn moisture 22%, 21% 1984. Soybeans 95% combined, 97% 1984, 100% avg. Wheat 100% emerged, 100% 1984, 100% avg. Wheat 25% fair, 67% good, 8% excellent. Spring cropland 37% tilled, 43% 1984, 65% avg. Pasture 31% poor, 35% fair, 32% good, 2% excellent.

**IOWA:** Very cold; 4th consecutive week. One and 4 week departures minus 14° F. Precipitation light north, west to seasonal southeast. Snowcover 1 in. southeast to 10 in. or more central, north central, northeast.

Corn 94% harvested, 100% 1984, 100% avg.  
Soybeans 99% harvested, 100% 1984, 100% avg.

**KANSAS:** Precipitation averaged little to none extreme southwest, 1.00 in. southeast and east central, 0.20 to 0.50 in. elsewhere. Temperatures averaged 18° north central, 25° southeast, 19 to 23° elsewhere, ranging 9 to 14° below normal.

Additional rain and snow hindered harvesting progress. Soybeans 95% harvested, 100% 1984, 100% avg. Corn 100% harvested, 100% 1984, 100% avg. Wheat 95% emerged, 100% 1984, 100% avg.; too cold for much growth.

**KENTUCKY:** Temperatures early well above normal. Cold front with scattered showers, moved through dropping temperatures to near normal on 10th. Second system on 13th with rain changing to snow. Snow amounts 1 to 2 in. north with lesser amounts elsewhere. Temperatures on weekend fell to well below normal. Temperatures averaged 1 to 4° below normal; extremes lower 60s to about 5° above zero. Precipitation totals ranged from around 0.50 to 1.50 in.

Corn 97% harvested, 98% 1984, 99% avg. Soybeans 90% harvested, 91% 1984, 99% avg. Quality of beans still in field reduced by mold. Some soybean plants badly lodged, others still standing fairly well. Extreme cold stressed livestock and greatly increased need for supplemental feed.

**LOUISIANA:** Temperatures averaged normal to 4° above normal. Temperature extremes 17°; 82°. Rain totals averaged 1.95 to 3.52 in.

Days suitable for fieldwork 3.3. Soil moisture 5% short, 54% adequate, 41% surplus. Cotton 99% harvested, 95% 1984, 98% avg. Soybeans 99% harvested, 98% 1984, 98% avg. Pecans 95% harvested, 82% 1984, 83% avg. Sweetpotatoes 98% harvested, 100% 1984, 100% avg. Vegetables fair. Sugarcane 100% planted, 100% 1984, 100% avg.; 87% harvested, 92% 1984, 89% avg. Winter wheat fair. Winter wheat 92% planted, 95% 1984, 95% avg.; 81% emerged, 86% 1984, 91% avg. Pasture fair; livestock fair to good.

**MARYLAND & DELAWARE:** Maryland: Temperatures 5 to 8° above normal; lows mostly upper 20s to low 30s; highs mostly mid to upper 60s. Precipitation averaged 0.56 in., ranging from 0.21 to 1.08 in.

Fieldwork 4.3 days suitable. Topsoil moisture surplus north, adequate south. Subsoil moisture adequate throughout State. Soybean harvest 90% complete, 100% 1984. Harvest of soybeans slowed by continued wet soils and high moisture beans. Small grains remain good. Tobacco stripping continued.

Delaware: Temperatures 4 to 8° above normal; lows mid to upper 20s; highs mostly in mid 60s. Precipitation averaged 0.41 in., ranging from 0.21 to 0.64 in.

Fieldwork 4.3 days suitable. Topsoil moisture surplus. Subsoil moisture adequate. Soybean harvest 90% complete, 100% 1984, 100% avg. Wet soils and high moisture in beans have slowed harvest and deteriorated quality.

**MICHIGAN:** Temperatures averaged 2° below normal over State. Lowest temperatures -14° at Marquette in Upper Peninsula; high only 41° at Detroit. Moderate amounts of snow over Upper Peninsula, northern Lower Peninsula. Precipitation (water equivalent) ranged from 0.15 to 0.80 in. Most stations recorded about 0.25 in.

Days suitable for fieldwork 1.0. Soil moisture supplies 5% adequate, 95% surplus. Corn 80% harvested, 100% 1984, 100% avg. Soybeans 90% harvested, 100% 1984, 100% avg. Winter wheat emerged 100%; 5% poor, 20% fair, 55% good, 20% excellent. Corn harvesting limited to localities

without snow and with frozen ground. Across Upper Peninsula, northern Lower Peninsula deep snow virtually ended 1985 harvest. Most localities in southern Lower Peninsula fields too soft for combines to run on. Substantial corn acreage will be left to harvest in Spring. Yields will be cut by lodging and by deer and birds feeding.

**MINNESOTA:** Temperatures averaged 12 to 15° below normal. Temperature extremes -27°; 32°. Precipitation averaged 0.06 to 0.24 in. below normal. Snowfall averaged trace to 2 in. Snow depth, weeks end averaged 10 to 19 in.

Practically no field activity during week; too cold plus persistent heavy snowcover with some blowing snow. Little new snow so most roads, yards, etc. now plowed out. Livestock condition good. Feed usage heavy. Hay movement up as some feeders running short.

**MISSISSIPPI:** Warm weather early in week, cold later in week; average for week near normal. Temperature extremes 12°; 78°. Freezing rain, sleet and snow flurries northern areas of State, amounts very light. Greatest 24-hour rainfall 3.33 in.

Fieldwork 2.2 days suitable, 3.5 1984, 2.6 avg. Soil moisture surplus. Soybeans 96% harvested, 91% 1984, 96% avg. Cotton 99% harvested, 93% 1984, 97% avg. Pecans: 85% harvested, 83% 1984, 89% avg. Winter wheat good to fair; 86% seeded, 80% 1984, 90% avg. Pasture, livestock good to fair. Hay, roughage supplies adequate to surplus. Feed grain adequate.

**MISSOURI:** Temperatures averaged 10° below normal throughout State except Bootheel which averaged 1° above normal. Precipitation ranged from 1.00 to 2.00 in. southern two-thirds and averaged 0.50 in. in northern third. Rain during cold weather changed to ice at midweek northern half of State.

Days suitable for fieldwork 0.9. Topsoil moisture 12% adequate, 88% surplus. Corn harvested 86%, 99% 1984, 99% avg. Soybeans harvested 71%, 96% 1984, 99% avg. Grain sorghum harvested 84%, 98% 1984, 99% avg. Cotton harvested 99%, 95% 1984, 99% avg. Winter wheat emerged 91%, 85% 1984, 94% avg. Winter wheat 5% poor, 55% fair, 40% good. Pastures 19% poor, 32% fair, 47% good, 2% excellent.

**MONTANA:** Rather cold week again as temperatures averaged from 9 to 17° below normal. Coldest temperatures over high valleys of west and southwest and over extreme east, where minimum readings 20° to 30° below zero. Very dry in west, extreme east. Moderate to heavy precipitation over parts of central areas with heaviest over southern portions of south central where amounts ranged from 0.33 to 0.75 in.

Topsoil moisture supplies 96% adequate, 4% surplus. Subsoil moisture supplies 29% short, 71% adequate. Winter wheat crop 5% poor, 66% fair, 29% good. Winter wheat emerged 80%, 100% 1984, 100% avg. Snowcover 27% fair, 70% good, 3% excellent. Wind damage 36% none, 61% light, 3% moderate. About 90% livestock receiving supplemental feed. Hay, roughage feed supplies for winter 79% short, 21% adequate. Cattle, calves general condition 32% fair, 68% good. Sheep, lambs general condition 42% fair, 58% good.

**NEBRASKA:** Very cold week, however ended mild. Temperatures 13 to -21° below normal. Snowfall widespread during first half. Precipitation amounts 0.01 to 0.75 in.

Corn harvested 97%, 100% 1984, 100% avg.; from 10 to 40% of corn still unharvested in a number of Panhandle, north central, and northeastern counties. Snow depth in north central and

Panhandle districts will prohibit harvesting in near future. Wheat emerged 100%, 100% 1984, 100% avg. Soybeans harvested 100%, 100% 1984, 100% avg.

**NEVADA:** Arctic air dropped temperatures well below normal throughout period. Most precipitation in form of snow northeast. Other areas received light, scattered snow showers. Northeast coldest with average temperatures 19°. Extreme south average 38°, remainder of State only in 20s.

Cold weather intensified livestock feeding. Movement potatoes to market also slowed by freezing temperatures.

**NEW ENGLAND:** Precipitation evenly distributed across region ranging from 0.75 to 1.00 in. Precipitation as snow in northern areas. Average temperatures ranged from around 20s near Canadian border to mid 30s along south coast which are near normal.

Farm activities limited by snow northern areas. Farmers tending livestock, marketing produce from storage.

**NEW JERSEY:** Temperatures above normal, averaging 35° north, 38° south, 42° coastal. Extremes 12°; 64°. Precipitation below normal; averaging 0.65 in. north, 0.41 in. south, 0.28 in. coastal. Heaviest 24-hour total 0.58 in. on 11th, 12th.

Fall sown grains, cover crops making good growth. Some harvest of soybeans, corn for grain continued. Fruit tree pruning active. Growers selling Christmas trees; cider and other crops from storages and caring for livestock.

**NEW MEXICO:** Snow over northwest, freezing rain over northeast, on 10th. Snow over south on 12th. Precipitation trace northern mountains, eastern Plains to 0.68 in. northwest Plateau western mountains. Average temperatures 5 to 15° below normal. Temperatures -11° northern mountains to 76° southeastern Plains.

Days suitable for fieldwork 6.4. Soil moisture 50% short, 50% adequate. Cotton 10% poor, 10% fair, 80% good; 85% harvested, 80% 1984, 90% avg. Barley 22% fair, 78% good. Irrigated wheat 20% fair, 80% good. Dryland wheat 50% fair, 50% good. Irrigated grain sorghum 43% fair, 43% good, 14% excellent. Dryland grain sorghum 33% fair, 34% good, 33% excellent. Pecans 14% fair, 86% good. Chile 50% fair, 50% good. Cattle 7% fair, 93% good. Sheep 8% fair, 92% good. Range 60% fair, 33% good, 7% excellent.

**NEW YORK:** Temperatures averaged a bit above normal, about 2 to 6°. Temperatures in mid 20s to 30s, with exception of New York City, Long Island, they averaged around 40°. Extremes -6° in Newcomb, 50° New York City. Precipitation most areas near or above normal, ranging from 0.50 to 1.50; some isolated spots like New York City, Johnstown only near 0.25 in. Bulk of precipitation from middle to end of week, mostly in form of snow.

Farm activities included tending livestock, marketing of crops from storage, routine farm chores.

**NORTH CAROLINA:** Temperatures averaged 7 to 9° above normal statewide. Rainfall ranged from 0.25 to 1.67 in. across State.

Days suitable for fieldwork 4.0. Soil moisture 68% adequate, 32% surplus. Pasture 5% poor, 28% fair, 67% good. Wheat 24% fair, 75% good, 1% excellent. Oats 2% poor, 20% fair, 78% good. Barley 16% fair, 84% good. Rye 22% fair, 78% good. Harvest: Soybeans 63%, 90% 1984, 87% avg. Cotton 90%, 96% 1984, 96% avg. Farm feed supplies: Hay and roughage 96% adequate, 4%

surplus. Feed grains 2% short, 91% adequate, 7% surplus. Major farm activities: Harvesting soybeans, seeding small grains, fall plowing, picking cotton, preparing tobacco plant beds, tending livestock, conservation work, cutting firewood and general farm maintenance.

**NORTH DAKOTA:** Cold weather continued across State. Temperatures averaged 7 to 13° below normal. Lowest temperatures reported -26° northeast; high from week 38° south central. Precipitation light with most locations receiving only a trace of snow.

Cold weather continued to stress livestock. Hay supplies low.

**OHIO:** Temperatures averaged 2 to 4° below normal; lows from 20s north to 30 south, highs from freezing to 40s. Precipitation even, averaging 1.00 in. Four inch bare soil temperatures remained above freezing, frost in surface layers.

Corn harvested 90%, 92% 1984, 98% avg. Soybeans harvested 99%, 100% 1984, 100% avg. Frozen ground allowing access to fields. Lodging remains a problem. Winter wheat emerged 100%, 100% 1984, 100% avg.

**OKLAHOMA:** Temperatures averaged 6° below normal southeast to 14° below normal central. Precipitation averaged 0.12 in. Panhandle to 1.44 in. southeast.

Wheat mostly good condition. Snow, cold weather limited wheat pasture growth. Wheat 95% emerged, 97% 1984, 97% avg. Cotton harvest prolonged by weather conditions. Ginners working backlog of stored seed cotton. Cotton 55% harvested, 60% 1984, 65% avg. Cattle good condition. Supplemental feeding across State.

**OREGON:** Entire State below normal temperatures; eastern half greatest departures from normal. Eastern locations ranged from 9 to 18° below normal; western areas 3 to 8° below normal. Precipitation generally below normal. Northeast mountains snow flurries and 0.50 in. precipitation. Coastal areas received 0.50 to 1.00 in., near normal precipitation. Elsewhere, precipitation ranged between a trace and 0.10 in.

Soil moisture 100% adequate. Winter wheat 92% emerged, 95% 1984, 98% avg. Eastern region mainly snow covered; crops entered winter in good condition. Very little fieldwork west. Fruit and vegetable activity virtually complete for this season. Livestock condition generally good. Snowcover required early hay feeding.

**PENNSYLVANIA:** Week began mild and dry; ended cold and wet. Temperatures averaged 35°, 5° above normal. End of week low temperatures coldest of season. Average precipitation 0.80 in., 0.10 in. above normal. Northern tier counties received 3 to 7 in. of snow end of week.

Days suitable for fieldwork 4.0. Moisture mostly surplus to adequate. Activities: Harvesting corn, soybeans; hauling manure; cutting firewood; machinery maintenance. Corn for grain 93% harvested, 100% 1984, 100% avg. Soybeans 95% harvested, 100% 1984, 100% avg.

**PUERTO RICO:** Island average rainfall 0.57 in., 0.49 in. below normal. Highest weekly total 2.40 in. Highest 24-hour total 1.35 in. Temperature averaged about 75 to 76° on coasts and 71 to 74° Interior Divisions. Mean station temperature ranged from 65 to 80°. Extremes 55°; 92°. Total rainfall 0.34 in., minus 0.63 in.

**SOUTH CAROLINA:** Temperatures averaged above normal early week; below normal weekend. Rain began upstate on 11th ended along coast on 13th. Rainfall excessive few locations south midlands. Allendale recorded 6.00 in. in 24-hours.

Soybeans 56% harvested, 89% 1984, 85% avg. Cotton 98% harvested, 100% 1984, 100% avg. Soybean harvest active early in week stopped again by late week rainfall. Condition of soybeans remaining for harvest poor - additional deterioration expected. Active harvest should resume quickly in areas of light rainfall. Small grain planting delayed again - some acreage will likely not be planted. Small grains fair to good.

**SOUTH DAKOTA:** Average temperatures ranged 7 to 16° below normal. Extremes -26°; 43°. Precipitation widespread and light. Snow depths ranged 2 in. southeast, 25 to 30 in. north central and east central.

Corn harvest continued slowly. Corn 79% harvested, 100% 1984, 100% avg. Winter wheat 100% emerged, 100% 1984, 100% avg. Soybeans 100% harvested, 100% 1984, 100% avg. Livestock good condition. Feed supplies short west, adequate elsewhere. Stubble remains covered with snow; livestock feeding continued.

**TENNESSEE:** Temperatures warm early week but turned cold by midweek. Rain midweek; amounts ranged from 0.50 to 1.75 in.

Cotton 97% harvested, 91% 1984, 97% avg. Soybeans 98% harvested, 90% 1984, 98% avg.

**TEXAS:** Arctic air surged into State early week, interacted with upper air disturbances to produce snow High Plains; some freezing rain Rolling Plains, northern Blacklands. Snow accumulations reached several inches Panhandle. Some heavy rains East, Central. Another Arctic blast 13th. No precipitation accompanied surge, light freeze lower Rio Grande Valley broke low temperature records many southern stations. Cold, dry conditions through weekend. Temperatures below normal all areas. Precipitation above normal east, along Upper Coast, slightly above normal central, near to slightly below normal elsewhere.

Crops: Cotton 100% open bolls, 99% 1984, 100% avg.; 78% harvested, 65% 1984, 79% avg. Cotton 1% failure, 1% poor, 50% fair, 44% good, 4% excellent. Harvest good progress Plains, Cross-Timbers early week; good yield, grades. Midweek cold temperatures, snow halted operations. Break in good weather allowed many gins to catch up on cotton on hand. Cotton remaining in fields may be hurt by snow, ice. Stringing-out increasing, grades could go down. Harvesting good progress most week Trans-Pecos. Sorghum 98% harvested, 99% 1984, 100% avg. Most fields harvested High Plains. Remaining fields severe lodging from snow, ice, may not be harvested. Wheat 97% planted, 100% 1984, 99% avg.; 90% emerged, 98% 1984, 96% avg. Wheat 3% poor, 28% fair, 53% good, 16% excellent. Small grains benefitted, suffered from most recent cold weather. Growth wheat, oats across State slowed by cold temperatures. Damaged to wheat fields High Plains less than expected. Cold temperatures slow greenbug populations, rust infestations. Grazing light many areas because cold temperatures burned plant tips, wet fields caused boggy conditions. Most fields need sunshine, open weather to continue good progress. Peanuts 86% harvested, 94% 1984, 96% avg. Harvesting some progress before cold, wet weather arrived. Some areas Cross-Timbers damage from cold temperatures. Yields south holding steady, but could go down if bad weather persisted. Soybeans 80% harvested, 99% 1984, 97% avg. Some harvesting last week; fields remained too wet to harvest. Yields, quality low. Other Field Crops: Sugarbeets 88% harvested, 100% 1984, 98%

avg. Harvest slowed by cold weather, moisture accumulations. Some damage from inclement weather. Pecans 66% harvested, 83% 1984, 77% avg. Sunflowers 93% harvested, 93% 1984, 96% avg. Oats 88% planted, 100% 1984, 98% avg. Sugarcane harvest continuing, good yields; quality declining.

**Commercial Vegetable:** Rio Grande Valley, harvest continued at slow pace because intermittent showers. Good supplies cabbage, peppers, tomatoes, broccoli, lettuce, other greens. Harvest started carrots. Harvest early oranges slowing because exhausted cabbage, spinach harvested, despite cold temperatures. Carrot harvest also beginning. Demand spinach light. Trans-Pecos, harvest chilies continued. Cold temperatures could hurt quality. Pecan harvest slowed by cold weather, rain many areas. Quality later nuts not good.

**Range and Livestock:** Freezing temperatures northern, central areas slowed growth pastures, ranges. Portions central, east received rainfall, which prevented grazing small grains because boggy conditions. Most producers increased supplemental feeding operations. Most hay growth over. Cold weather hard on livestock Plains causing significant shrinkage. Markets good levels.

**UTAH:** Cold week. Maximum temperatures 3 to 12° below normal in north and south central, 5° below in Dixie, 3° below in southeast. Minimums 3 to 6° below in north, 1 to 2° below in south and Uintah Basin. Precipitation heavy in north central and northern mountains, light elsewhere.

Taking care of farm chores, attending association meetings major activities.

**VIRGINIA:** Cloudy, cool, windy beginning of period; warm mid period; very cold, sunny end of period. Temperatures mid period reached 70s fell to low teens overnight end of period. Overall, temperatures 5 to 10° above normal. Only light precipitation received in most areas.

Days suitable for fieldwork averaged 3.6. Topsoil moisture 2% short, 55% adequate, 43% surplus. Soybean harvest 78% complete, 94% 1984, 90% avg. Yields, quality declining due to wet fall weather; delayed harvest. Some late planting of wheat. Marketing burley, fire-cured, sun-cured tobacco. Pasture land, winter grains, grazing crops mostly excellent. Livestock mostly excellent. Feeding livestock. Feed supplies adequate most areas. Calving, lambing active. Other activities: Fencing, record keeping, meetings, cutting firewood.

**WASHINGTON:** Significantly drier, cooler than normal with most of week's precipitation deposited early in week.

Days suitable for fieldwork less than 1.0. Soil moisture 10% short, 90% adequate. Range and pasture 80% short, 20% adequate. Hay supplies 40% short, 60% adequate. Winter wheat 100% emerged, 100% 1984, 100% avg. Snowcover still adequate on fall crops. Pruning continued. Some concern over possible hay shortages. Few operations started lambing.

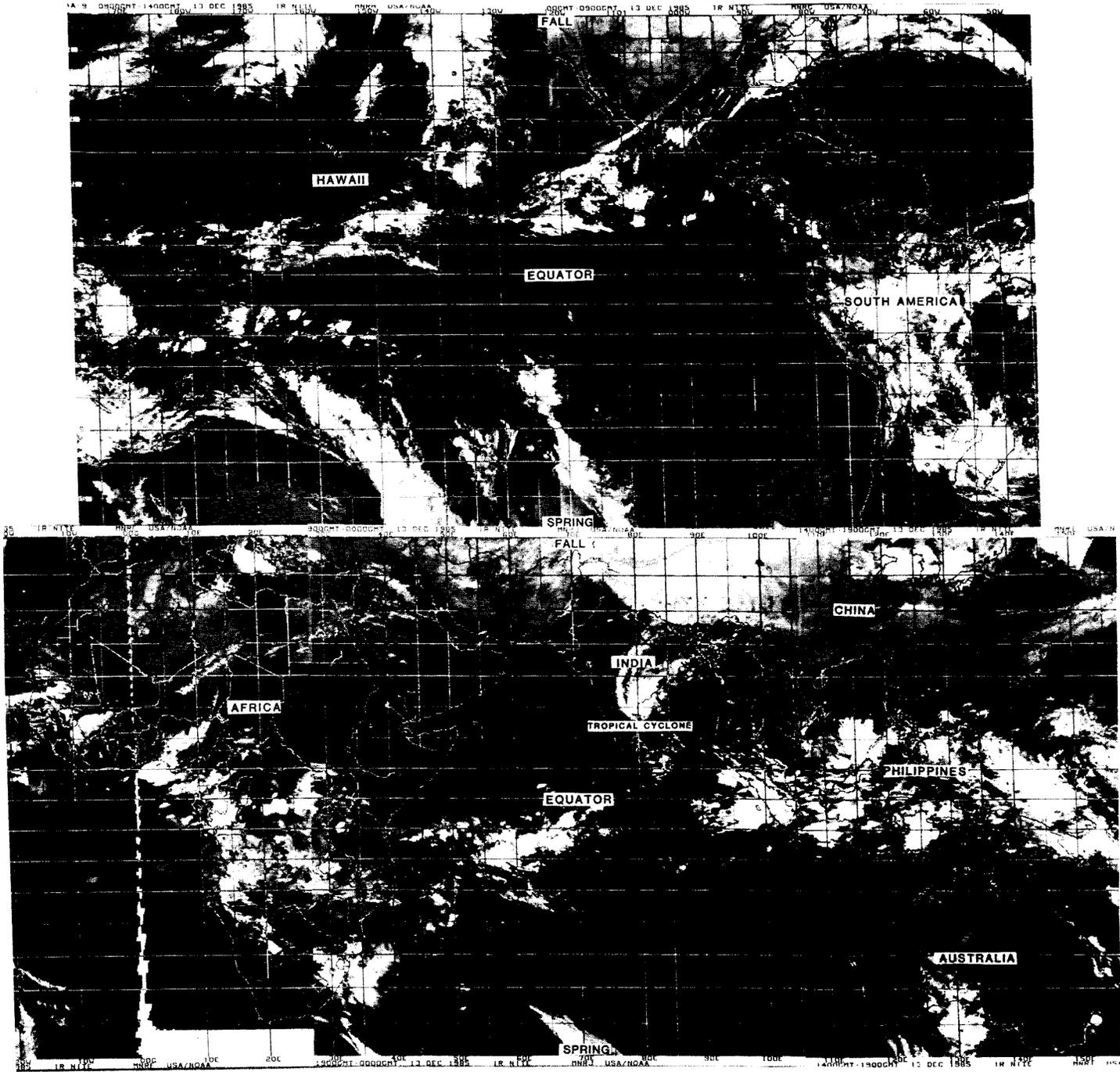
**WEST VIRGINIA:** Temperatures averaged 1 to 6° above normal. Low 5° at Belington; high 65° at Williamson. Statewide average temperature 38°. Precipitation averaged 0.10 to 0.60 in. above normal at all locations except northeast division normal precipitation. Precipitation extremes ranged from 1.59 in. at Parkersburg to 0.41 in. at Bluefield. Statewide average precipitation 0.97 in.

Days worked averaged 4.0. Soil moisture surplus to adequate. Feed supplies adequate to short.

(Continued to back cover)

# GLOBAL WEATHER SATELLITE IMAGE

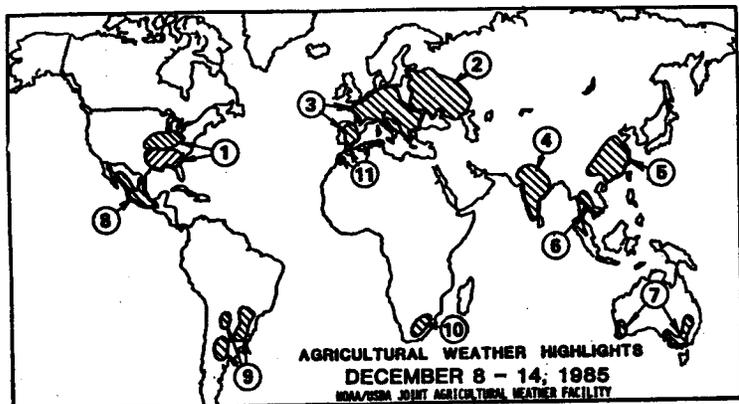
December 13, 1985



International Weather and Crop Summary

December 8-14, 1985

MONTHLY DATA FROM SELECTED FOREIGN CITIES  
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA  
\*\*\* = DATA NOT AVAILABLE



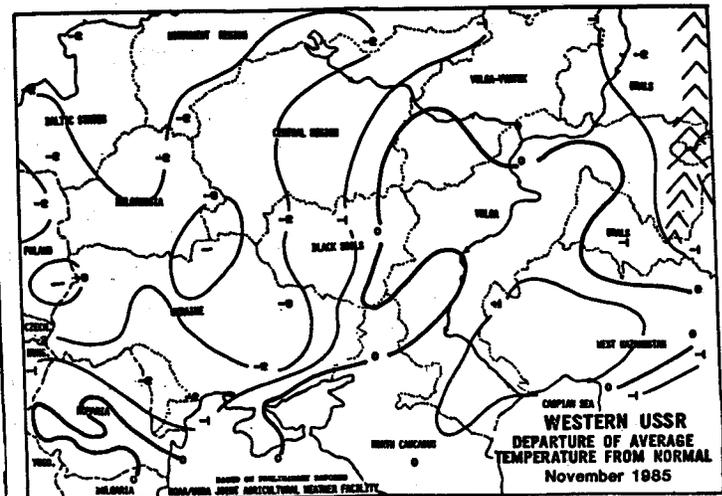
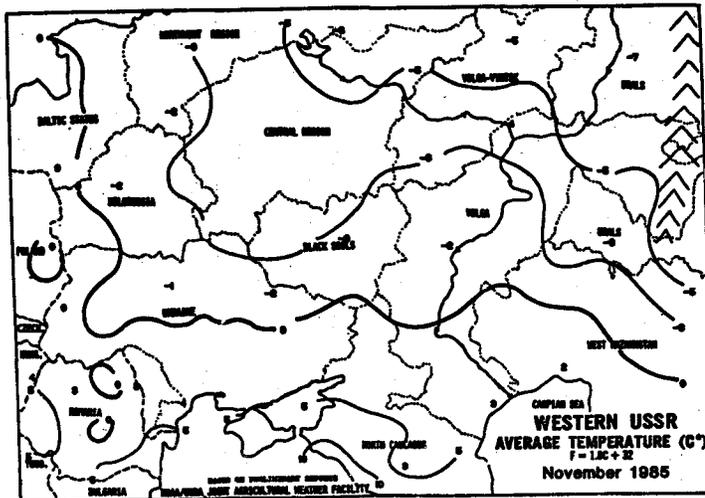
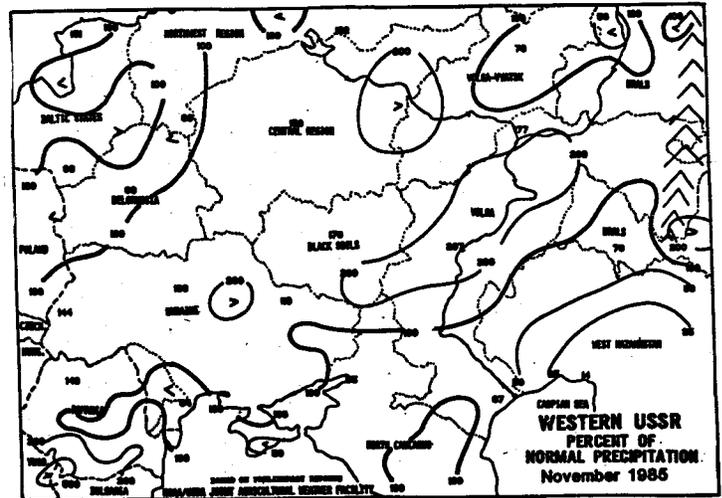
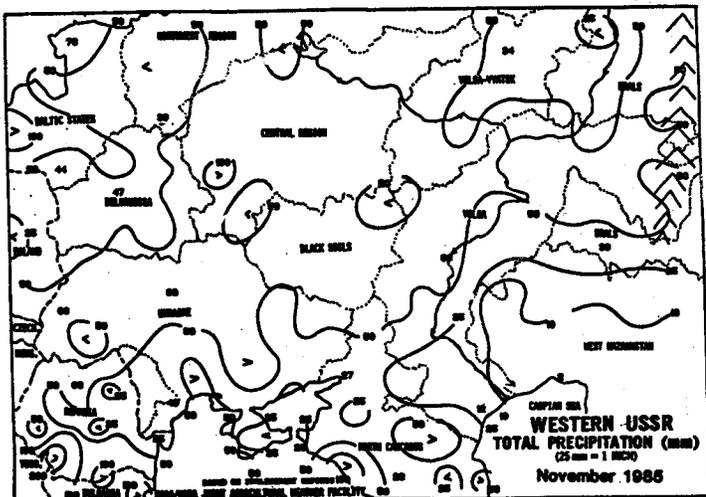
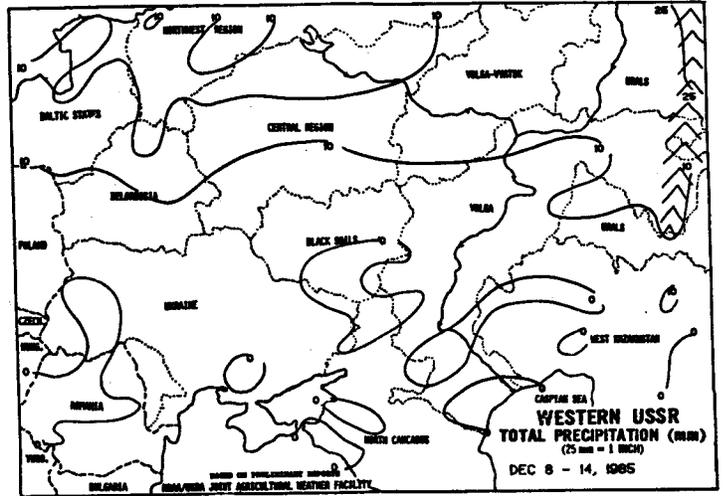
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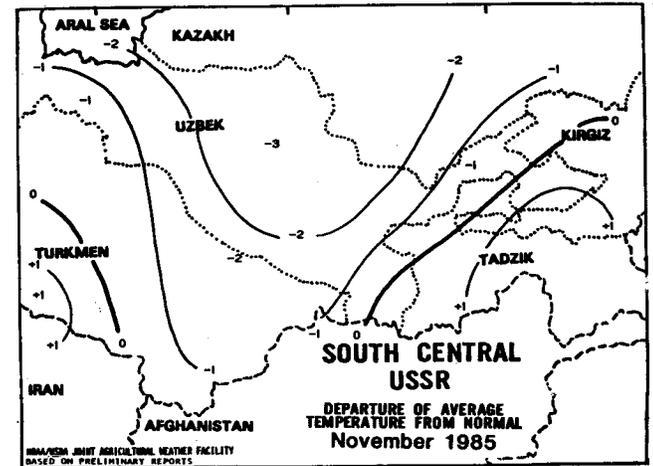
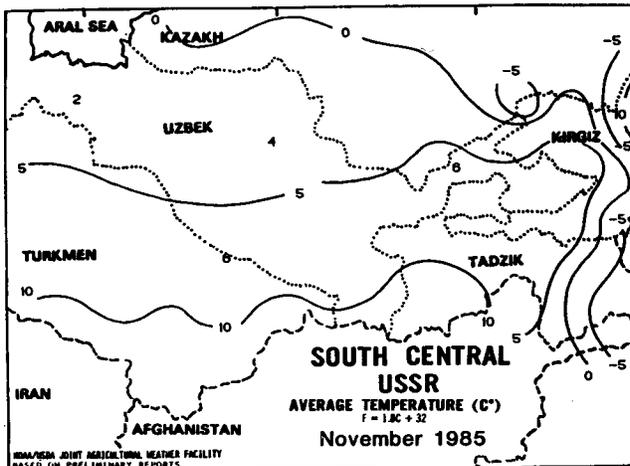
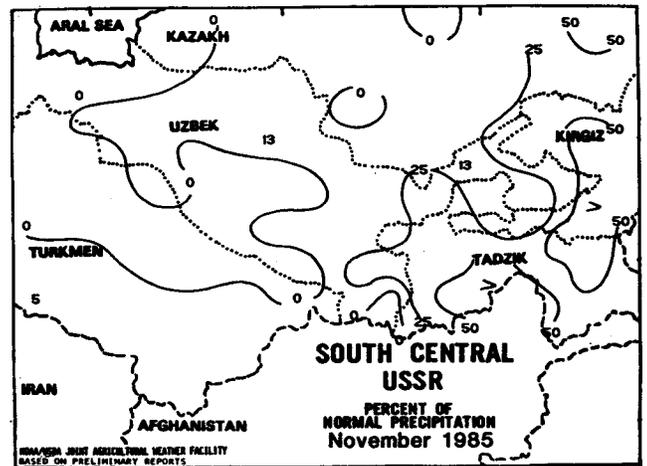
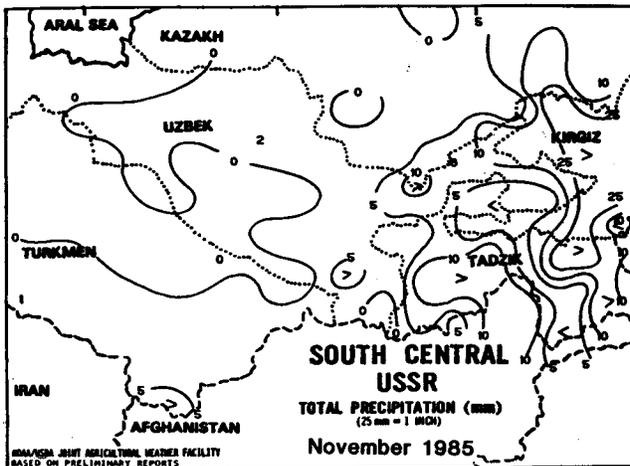
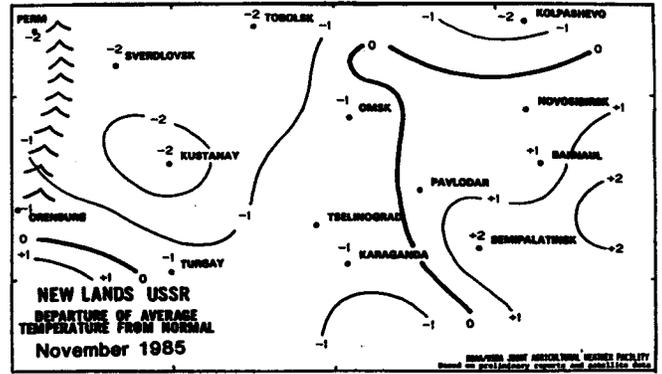
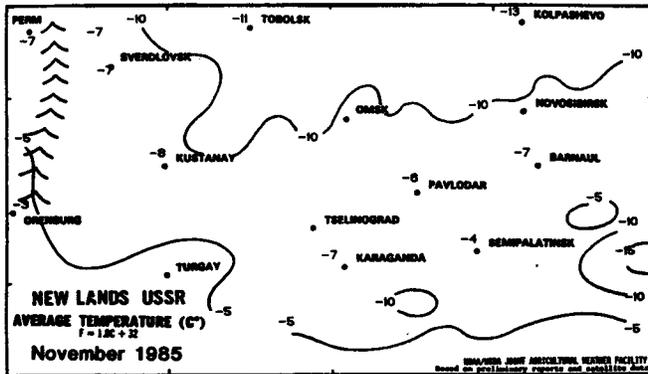
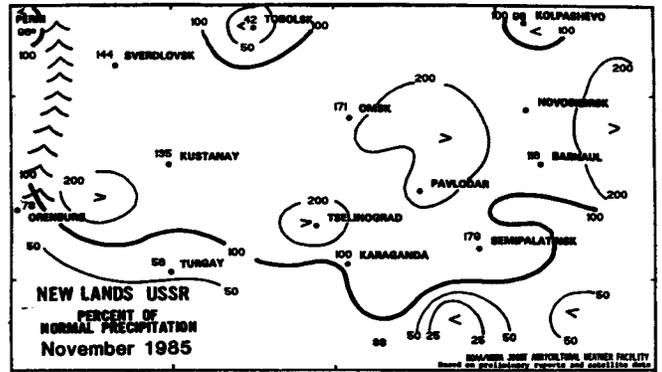
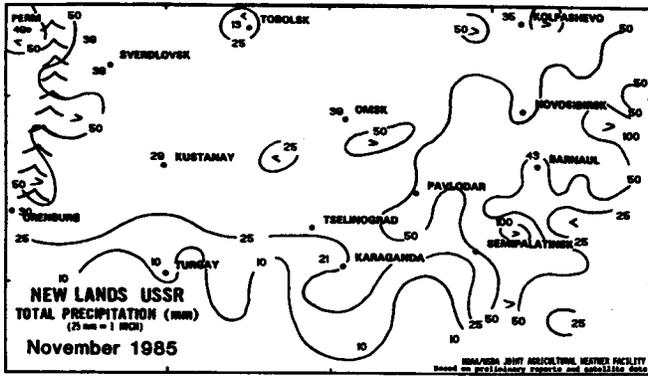
1. **UNITED STATES** ... Precipitation across the Corn Belt and the Southeast provides moisture for winter wheat but slows harvest. Freezing temperatures reach to southern California, the gulf coast, and northern Florida.
2. **WESTERN USSR** ... Overwintering conditions are mostly favorable for the winter grain crop.
3. **EUROPE** ... Moist maritime air continues to cover winter grains over the region. Showers in Spain moisten topsoils for winter grain planting.
4. **SOUTH ASIA** ... Rain benefits northern wheat. A tropical storm inundates maturing winter rice in the south.
5. **EASTERN ASIA** ... Cold weather possibly damages some northern winter wheat.
6. **SOUTHEAST ASIA** ... Dry weather favors Thai rice harvesting.
7. **AUSTRALIA** ... Rain continues in much of the eastern wheat belt, but some harvesting occurs in central New South Wales.
8. **MEXICO** ... Mostly dry weather benefits crop harvesting.
9. **SOUTH AMERICA** ... Beneficial rain improves planting conditions in Brazil's southern soybean area. More rain in Argentina delays wheat harvesting and soybean planting.
10. **SOUTH AFRICA** ... Moderate rain improves the northern corn region. Light showers favor the central Maize Triangle.
11. **NORTHWESTERN AFRICA** ... Light showers cover most winter grain areas, increasing planting moisture.

COUNTRY	CITY	TEMPERATURE (C)				PRECIPITATION (MM)	
		AVG	HI	LOW	DPART	TOTAL	DPART
NORWAY	OSLO	-4	6	-23	-2.3	57.0	-35.1
SWEDEN	STOCKHOLM	0	8	-8	-2.4	64.9	13.8
FINLAND	HELSINKI	-1	8	-16	-1.9	100.7	33.1
U KINGDOM	GLASGOW	3	12	-9	-3.9	60.3	-53.0
	EDINBURGH	3	11	-10	-3.0	39.9	-24.3
	BIRMINGHAM	4	15	-7	-2.3	74.0	11.8
	LONDON	4	15	-7	-2.0	52.6	-29.9
IRELAND	DUBLIN	5	14	-3	-1.9	32.7	-36.4
ICELAND	REYKJAVIK	0	8	-8	-1.3	70.0	-8.8
DENMARK	COPENHAGEN	3	12	-5	-2.4	34.1	-13.9
LUXEMBOURG	LUXEMBOURG	1	14	-6	-3.6	69.8	-3.8
SWITZERLAND	ZURICH	2	18	-5	-2.4	131.8	52.0
	GENEVA	3	20	-7	-1.9	69.2	-27.3
FRANCE	PARIS	4	17	-10	-2.9	38.2	-16.6
	STRASBOURG	2	18	-7	-2.7	49.1	1.5
	BOURGES	4	18	-5	-2.7	53.7	-7.9
	BORDEAUX	6	25	-6	-1.9	72.0	-24.5
	TOULOUSE	6	23	-5	-1.8	48.4	-6.3
SPAIN	MARSEILLE	8	23	-5	-2.5	28.7	-34.5
	VALLADOLID	7	23	-5	-0.1	55.2	4.6
	MADRID	9	23	-7	-0.3	32.0	-34.0
	SEVILLA	16	29	2	1.6	56.5	-21.6
E GERMANY	LEIPZIG	1	18	-7	-3.2	18.5	-18.0
	DRESDEN	1	16	-7	-2.9	42.4	0.4
W GERMANY	HAMBURG	2	14	-5	-2.8	106.7	43.0
	BERLIN	2	17	-5	-2.7	28.0	-19.1
	DUSSELDORF	3	16	-4	-3.2	61.0	-2.0
	STUTTGART	1	17	-15	-3.6	69.1	21.5
	NURNBERG	1	15	-10	-2.8	55.8	14.6
	MUNICH	0	16	-11	-3.1	100.2	42.9
AUSTRIA	VIENNA	2	14	-13	-2.6	90.0	48.1
	INNSBRUCK	1	15	-13	-2.5	41.5	-17.4
CZECH	PRAGUE	0	16	-9	-2.9	49.7	22.0
POLAND	WARSAW	1	14	-9	-2.6	20.7	-19.1
	LODZ	1	14	-10	-1.9	26.5	-12.6
	KATOWICE	1	15	-13	-1.8	48.4	7.5
	PRZEMYSL	1	14	-7	-2.7	71.8	27.3
HUNGARY	BUDAPEST	4	13	-5	-1.3	107.3	52.7
YUGOSLAVIA	SARAJEVO	6	22	-5	-0.1	119.8	8.8
ROMANIA	BUCHAREST	5	20	-4	-1.2	62.2	15.1
BULGARIA	SOFIA	6	21	-6	-0.3	90.3	40.0
ITALY	MILAN	6	19	-3	-0.5	105.8	-5.2
	VERONA	7	19	-2	0.3	81.4	1.5
	VENICE	7	15	-2	-1.5	50.6	-46.2
	GENOA	10	21	1	-2.9	63.2	-96.1
	ROME	13	22	3	0.9	185.4	78.7
GREECE	NAPLES	13	23	2	0.6	214.4	61.0
	THESSALONIKA	12	19	2	0.6	180.2	128.9
	LARISSA	12	21	0	0.4	158.0	104.0
	ATHENS	17	23	9	0.7	36.3	-20.1
TURKEY	ISTANBUL	12	19	0	0.9	139.5	51.5
	ANKARA	7	20	-5	1.4	36.1	11.1
CYPRUS	LARNACA	18	25	10	0.5	16.2	-21.9
USSR	TALLINN	-1	9	-10	-1.6	80.6	23.6
	LENINGRAD	-1	7	-14	-1.1	47.0	-5.5
	KAUNAS	0	12	-8	-2.1	42.9	-7.0
	MINSK	-2	8	-12	-2.1	45.6	-2.1
	KAZAN	-4	4	-15	0.0	71.1	34.4
	MOSCOW	-3	6	-18	-1.8	73.7	24.9
	SVERDLOVSK	-8	3	-26	-2.9	27.9	0.8
	OMSK	-9	1	-26	-0.6	18.7	-4.1
	KUSTANAY	-8	3	-23	-2.4	21.2	-0.2
	KRASNOYARSK	-7	7	-26	1.9	13.5	-21.2
	NOVOSIBIRSK	-9	1	-27	1.0	39.7	11.8
BARNAUL	-7	4	-23	0.5	29.3	-7.8	
KHABAROVSK	-8	9	-22	0.2	27.8	12.0	
VLADIVOSTOK	-1	11	-12	-0.1	11.7	-22.4	
KIEV	-2	9	-15	-3.7	59.1	7.8	
LVOV	0	12	-11	-2.5	69.4	21.3	
KIROVOGRAD	0	13	-12	-1.9	36.9	1.6	

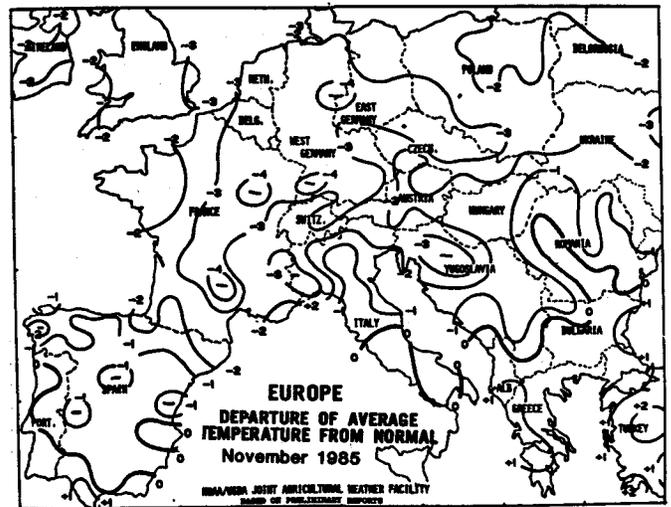
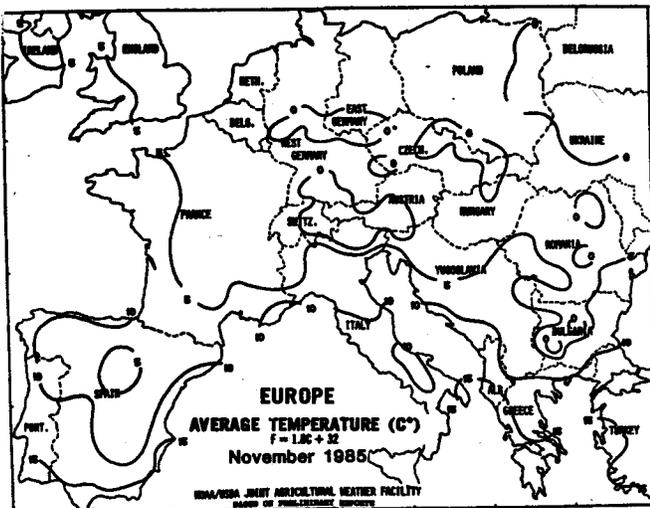
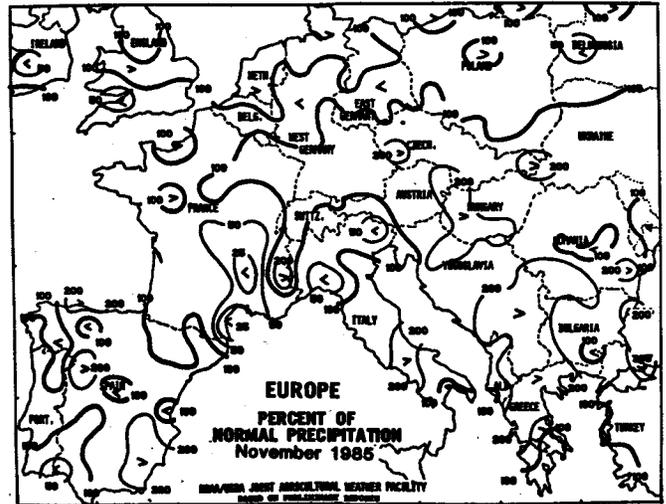
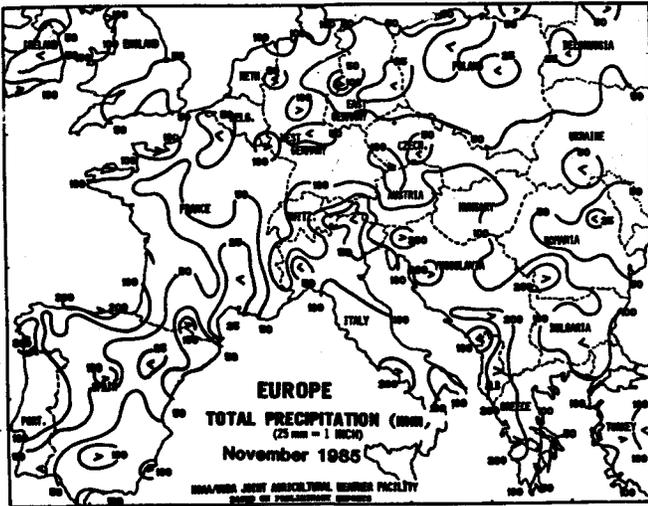
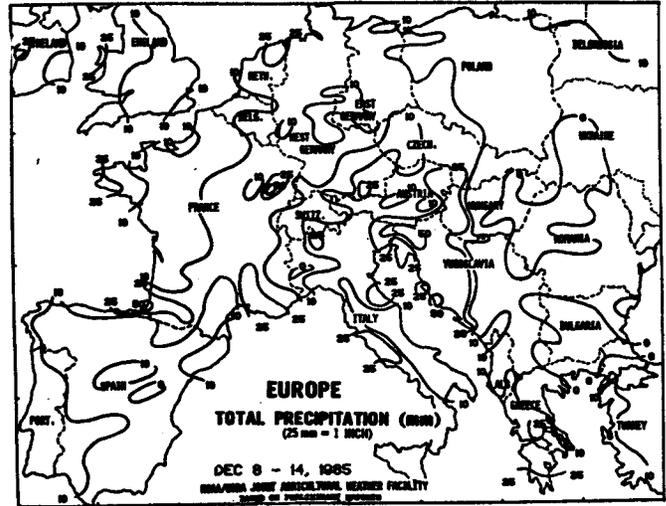
COUNTRY	CITY	TEMPERATURE (C)				PRECIPITATION (MM)		COUNTRY	CITY	TEMPERATURE (C)				PRECIPITATION (MM)		
		HI	LOW	DPART	DPART	TOTAL	F/NRM			HI	LOW	DPART	DPART	TOTAL	F/NRM	
		AVG	MAX	MIN						F/NRM	AVG	MAX				MIN
USSR	ODESSA	4	20	-5	-1.9	33.9	-15.2	TANZANIA	DAR ES SALAAM	26	33	19	-0.1	50.8	-64.0	
	YALTA	9	20	-2	-0.4	49.5	-11.5	GABON	LIBREVILLE	26	30	21	0.2	133.5	-389.3	
	VORONEZH	-2	10	-17	-1.5	79.3	35.2	TOGO	LOME	28	34	21	0.8	57.4	35.0	
	SARATOV	-1	8	-12	0.8	71.9	41.4	UPPER VOLTA	OUAGADOUGOU	28	39	16	0.4	0.0	-1.5	
	KHARKOV	-2	15	-18	-3.0	49.9	8.8	IVORY COAST	ABIDJAN	28	33	21	0.9	86.8	-72.3	
	VOLGOGRAD	1	11	-12	0.8	32.9	-0.7	MOZAMBIQUE	MAPUTO	25	35	17	1.2	90.8	23.7	
	ROSTOV	3	21	-10	0.2	28.6	-20.3	ZAMBIA	KABWE	23	34	14	0.3	37.1	-65.2	
	ASTRAKHAN	3	17	-16	0.7	11.5	-2.3	ZIMBABWE	HARARE	21	30	12	-0.2	64.7	-46.1	
	KRASNODAR	7	23	-8	0.9	36.6	-23.9	S AFRICA	PRETORIA	23	34	9	2.1	167.6	58.2	
	ORENBURG	-3	5	-17	-0.8	28.8	-9.7		KROONSTAD	22	35	8	1.4	54.7	-27.3	
	TSELINOGRAD	-8	3	-23	0.7	35.5	24.0		JOHANNESBURG	20	32	9	2.0	150.1	30.6	
	KARAGANDA	-6	4	-18	-0.4	21.6	0.5		BETHAL	18	30	7	0.4	127.0	0.0	
	TBILISI	10	23	0	2.1	49.6	20.6		DURBAN	23	30	17	1.9	122.5	19.1	
	TASHKENT	8	22	-6	0.7	7.3	-40.5		CAPE TOWN	20	33	9	2.6	3.0	-14.7	
	ASHKHABAD	10	26	-5	1.5	1.0	-19.9	CANADA	TORONTO	3	19	-5	0.1	161.1	98.3	
SYRIA-	DAMASCUS	14	27	1	0.7	3.3	-23.9		MONTREAL	1	18	-10	-0.8	74.8	-6.3	
ISRAEL	JERUSALEM	16	31	7	0.7	5.0	-53.7		WINNIPEG	-12	9	-34	-7.6	43.7	18.5	
PAKISTAN	KARACHI	25	39	12	0.6	0.0	-5.6		REGINA	-14	7	-32	-8.7	23.2	9.6	
INDIA	AMRITSAR	18	30	5	-0.2	2.3	-3.9		SASKATOON	-15	7	-33	-9.1	8.3	-10.5	
	NEW DELHI	21	33	10	0.0	0.0	-4.9		LETHBRIDGE	-13	16	-34	-12.1	33.5	16.7	
	AHMEDABAD	25	35	13	-0.1	0.0	-8.7		CALGARY	-13	12	-34	-10.1	11.5	-1.2	
	INDORE	21	32	12	-0.3	0.0	-20.1		EDMONTON	-13	8	-34	-9.3	14.4	-1.4	
	CALCUTTA	24	32	13	0.4	6.0	-9.8		VANCOUVER	0	13	-14	-5.8	84.0	-66.0	
	VERAVAL	25	35	16	-0.7	0.0	-6.3	MEXICO	GUADALAJARA	17	28	3	-0.9	13.6	0.2	
	BOMBAY	27	36	16	0.0	0.0	-7.3		MEXICO CITY	16	33	6	2.0	1.4	-12.3	
	POONA	21	32	2	-1.6	110.2	80.4		ACAPULCO	27	34	19	-1.1	0.0	-53.1	
	BEGAMPET	23	32	10	0.6	0.0	-15.9		BERMUDA	ST. GEORGES	22	26	17	0.6	15.0	-103.9
	MADRAS	25	32	20	-0.7	724.0	375.5		BAHAMAS	NASSAU	25	31	14	1.3	21.3	-43.7
	MANGALORE	27	35	12	-0.5	58.4	-12.7		CUBA	HAVANA	25	31	19	1.5	****	****
HONG KONG	HONG KONG	23	27	15	1.2	45.8	11.3		JAMAICA	KINGSTON	27	33	22	0.4	42.2	-30.8
NORTH KOREA	PYONGYANG	2	16	-11	-1.9	38.8	-10.2		PUERTO RICO	SAN JUAN	26	32	20	-0.3	106.3	-35.7
SOUTH KOREA	SEOUL	6	19	-5	-0.3	92.4	56.3		GUADELOUPE	RAIZET	27	31	20	1.2	42.4	-95.1
JAPAN	SAPPORO	4	15	-8	0.1	73.5	-30.2		MARTINIQUE	LAMENTIN	***	***	***	***	2.6	-172.4
	NAGOYA	12	23	0	0.3	102.5	28.0		BARBADOS	BRIDGETOWN	26	30	19	-0.8	73.4	-72.5
	TOKYO	13	25	4	0.9	86.5	-6.7		TRINIDAD	PORT OF SPAIN	27	34	20	1.0	94.4	-114.0
	YOKOHAMA	13	23	4	1.1	133.5	22.5		COLOMBIA	BOGOTA	13	30	4	0.1	****	****
	KYOTO	12	23	0	1.0	65.5	-17.8		VENEZUELA	CARACAS	27	32	15	-0.2	59.8	8.3
	OSAKA	13	23	2	0.5	72.5	-1.0		FR GUIANA	CAYENNE	26	32	21	0.1	48.6	-105.0
THAILAND	PHETCHABUN	26	35	16	1.3	7.7	-11.4		BRAZIL	FORTALEZA	27	33	23	-0.5	13.4	-11.2
	BANGKOK	28	37	20	1.2	17.5	-30.3			RECIFE	26	32	20	-0.2	33.3	0.7
MALAYSIA	KUALA LUMPUR	27	33	23	0.6	292.8	13.9			BELO HORIZONTE	23	33	15	0.7	265.0	17.9
VIETNAM	HANOI	23	31	15	0.9	88.9	45.7			CAMPO GRANDE	27	40	17	2.9	199.8	35.7
CHINA	HARBIN	-7	13	-22	0.1	19.3	12.5			FRANCA	22	34	11	1.3	189.6	-16.4
	HAMI	0	16	-13	0.6	4.0	2.6			RIO DE JANEIRO	24	34	19	0.2	63.7	-45.4
	LANCHOW	3	16	-10	0.9	0.0	-5.5			LONDRINA	25	39	14	2.5	137.2	-26.2
	BEIJING	4	16	-7	0.2	3.0	-3.7			SANTA MARIA	24	40	12	3.0	16.0	-95.0
	TIENTSIN	5	17	-4	-0.1	13.0	3.4			PORTO ALEGRE	25	41	13	3.8	10.0	-64.9
	LHASA	3	16	-8	0.0	0.2	-1.6		PERU	LIMA	20	26	15	1.2	0.0	0.0
	KUNMING	12	21	2	0.9	11.3	-27.3		BOLIVIA	LA PAZ	7	18	0	-3.1	162.1	112.0
	CHENGCHOW	9	20	-5	1.1	0.2	-30.4		CHILE	SANTIAGO	18	32	5	0.6	0.6	-6.6
	YEHCHANG	13	23	3	1.2	15.4	-29.3		ARGENTINA	IGUAZU	26	40	12	***	113.8	****
	HANKOW	12	22	1	1.3	26.4	-24.3			FORMOSA	27	41	11	2.3	81.6	-56.4
	CHUNGKING	13	23	3	-1.5	57.3	7.1			CERES	24	36	14	1.1	144.3	38.7
	CHIHKIANG	14	23	3	1.5	33.4	-36.0			CORDOBA	21	36	10	0.7	129.6	20.1
	WU HU	12	21	3	-0.4	50.0	-6.9			RIO CUARTO	20	33	7	0.8	76.4	-39.8
	SHANGHAI	12	21	2	-0.1	51.1	2.3			ROSARIO	22	36	9	1.9	45.6	-60.3
	NANCHANG	14	24	6	0.8	74.9	22.7			BUENOS AIRES	20	36	7	1.2	248.7	163.0
	TAIPEI	21	30	16	1.2	48.9	-15.1			SANTA ROSA	19	32	3	-0.2	67.1	-19.7
	CANTON	21	30	13	1.8	2.7	-34.2			TRES ARROYOS	18	29	3	0.9	112.7	44.8
	NANNING	20	29	11	1.7	118.4	80.6	MIDWAY IS	MIDWAY ISLAND	22	28	17	-0.2	70.9	-47.9	
CANARY IS	LAS PALMAS	21	34	15	1.5	46.0	17.0	N CALEDONIA	NOUMEA	24	31	19	0.1	249.7	192.1	
MOROCCO	CASABLANCA	18	35	8	2.6	20.0	-43.7	FIJI	NAUSORI	25	31	21	0.6	87.9	-170.7	
	MARRAKECH	18	33	8	2.4	23.0	-11.0	SAMOA	PAGO PAGO	27	31	21	0.1	186.4	-94.3	
ALGERIA	ALGER	17	32	4	2.0	93.7	-7.2	TAHITI	PAPEETE	26	31	20	0.3	184.6	39.6	
	BATNA	12	29	-1	2.1	47.9	11.8	NEW ZEALAND	AUCKLAND	16	23	7	-0.2	108.6	24.7	
TUNISIA	TUNIS	17	30	1	1.8	24.2	-40.3		WELLINGTON	13	21	5	-0.2	100.6	7.8	
NIGER	NIAMEY	29	39	17	1.1	0.0	0.0	PAPUA N GUI	PORT MORESBY	27	32	22	-0.3	163.4	95.3	
MALI	TIMBUKTU	26	39	10	-0.6	0.0	0.0	AUSTRALIA	DARWIN	30	36	23	0.8	57.2	-78.9	
	BAMAKO	-29	40	18	2.4	0.5	-6.6		MOREE	23	33	15	0.2	65.6	16.8	
MAURITANIA	NOUAKCHOTT	28	41	16	2.4	0.0	-5.3		BRISBANE	23	31	16	-0.3	56.6	-39.7	
SENEGAL	DAKAR	25	33	18	-0.3	0.0	-2.7		PERTH	20	42	11	1.2	87.0	67.0	
CHAGOS ARCH	DIEGO GARCIA	27	31	20	0.3	526.2	315.2		CEDUNA	19	38	8	0.2	8.7	-12.0	
LIBYA	TRIPOLI	20	39	1	2.1	6.0	-42.0		ADELAIDE	19	31	11	0.7	9.6	-20.1	
	BENGHAZI	19	30	11	0.8	27.7	2.7		MELBOURNE	16	27	7	0.3	73.6	22.2	
EGYPT	CAIRO	21	30	11	1.2	10.3	7.3		WAGGA	18	31	8	0.5	92.0	51.5	
	ASWAN	24	34	12	1.7	0.0	0.0		CANBERRA	15	26	4	0.2	74.6	14.6	
ETHIOPIA	ADDIS ABABA	14	24	2	-1.5	1.2	-7.0	INDONESIA	DJAKARTA	28	35	23	0.5	109.6	21.5	
KENYA	NAIROBI	20	28	11	0.3	40.2	-91.6	PHILIPPINES	MANILA	27	32	20	0.9	2.0	-111.1	

**WESTERN USSR...**Light rain and above-normal temperatures in the west and south reduced the snow cover. In the northeast, snow cover remained sufficient to protect winter crops from extreme cold. In November, above-normal precipitation increased moisture conditions over the Ukraine, Black Soils Region, Central Region, Volga Vyatsk, and the Volga. Precipitation was below normal in the North Caucasus. Early-month above-normal temperatures were replaced by a cold wave which began around November 15, causing temperatures to drop well-below-normal. In northern areas, a sufficient period of hardening proceeded the cold wave, allowing winter grains to become well-hardened before entering dormancy. However, in the southern Ukraine and North Caucasus, mid-November's sudden drop in temperatures forced winter grains into dormancy with minimal hardening, making the crop more vulnerable to extremely cold weather.

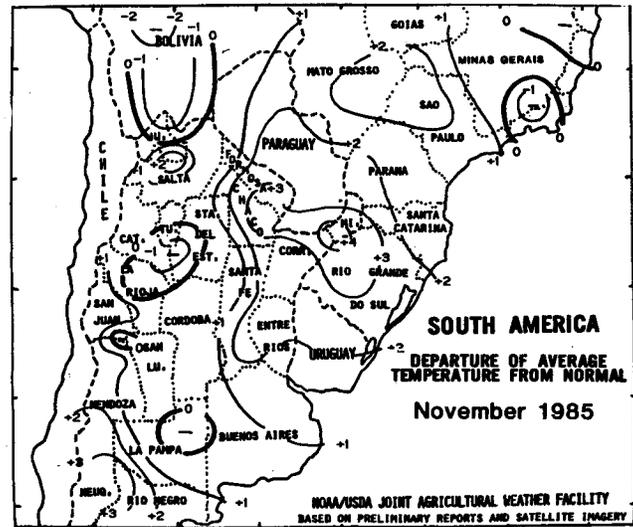
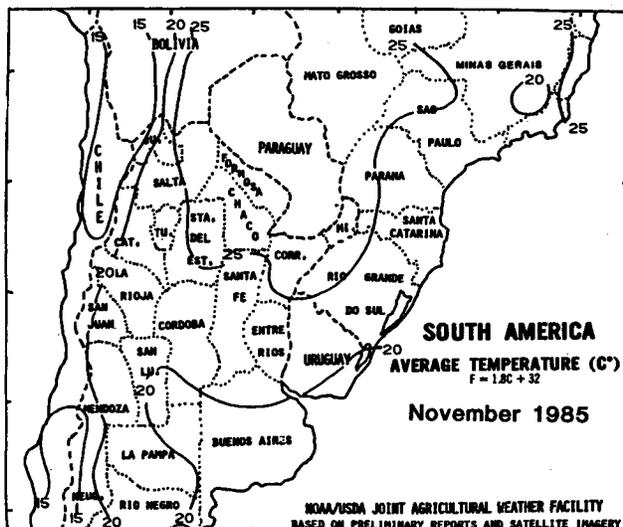
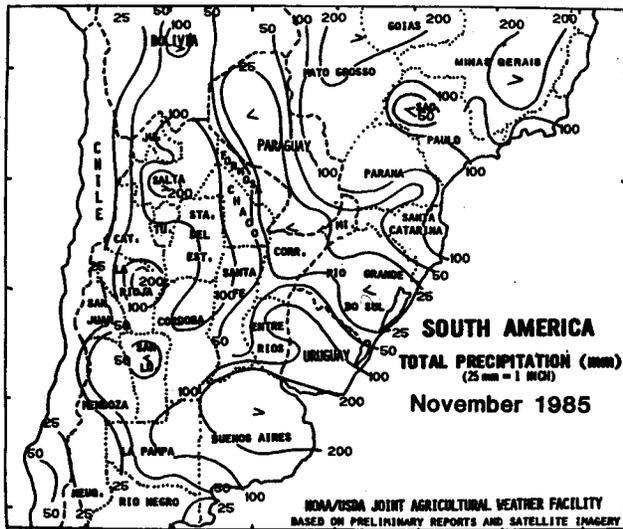
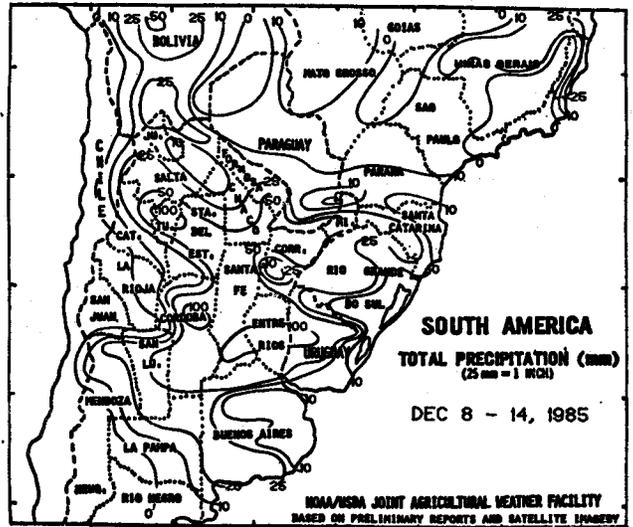




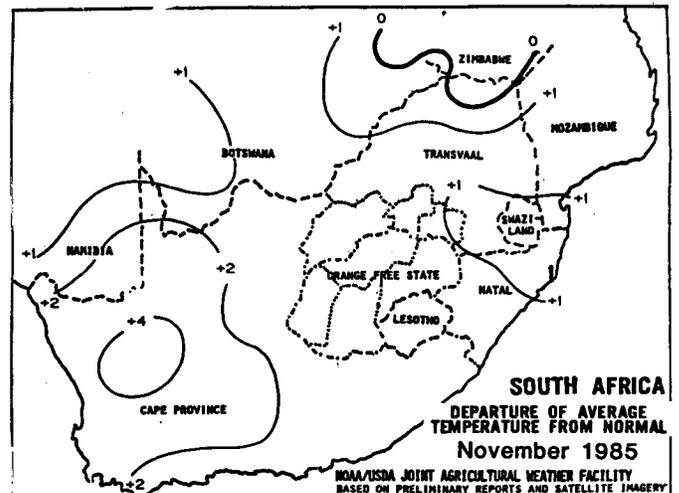
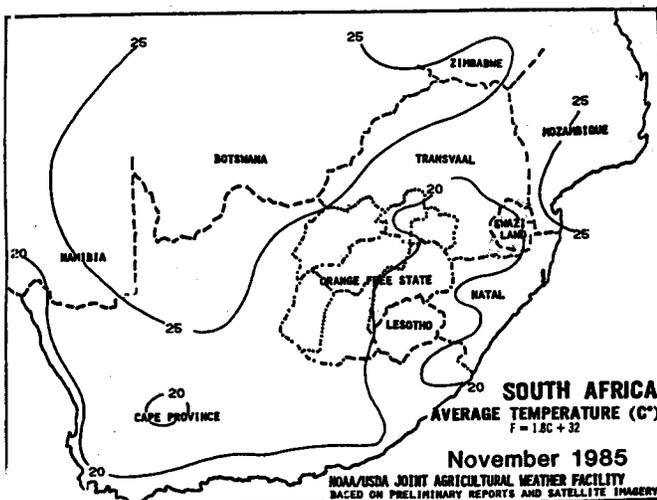
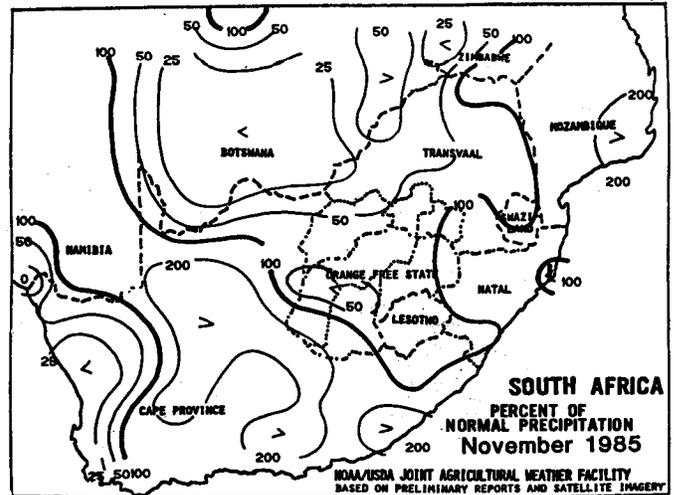
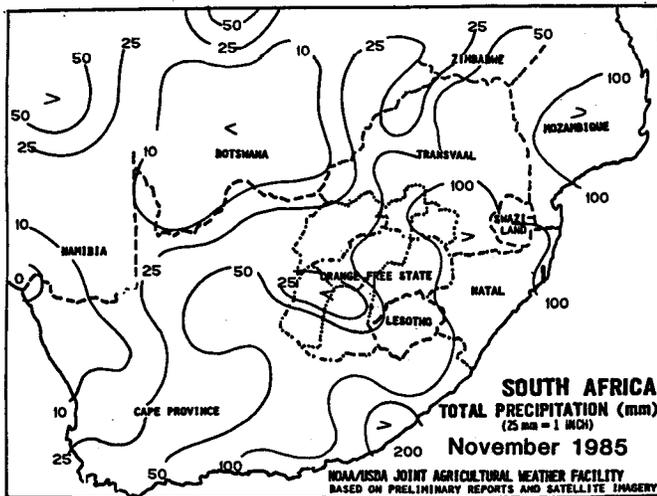
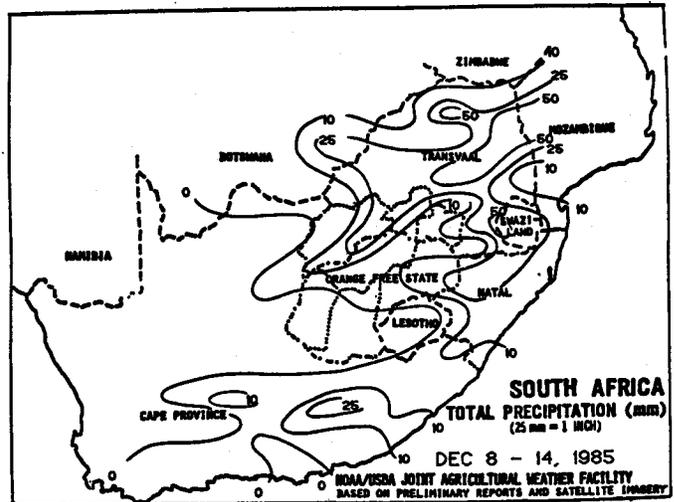
**EUROPE**...Moist, maritime air continued to cover the region, causing temperatures to remain above normal. Light showers (10-20mm) covered most crop areas except for Romania and Bulgaria where the weather was generally dry. In November, early month showers followed 2 months of well below-normal precipitation in England, France, East Germany, northern Italy, Czechoslovakia, Hungary, Romania, and Bulgaria. The moisture improved conditions for winter grain emergence and early growth. However, in mid-November, extremely cold weather halted crop growth in many areas, limiting crop establishment and making winter grains more susceptible to potential winterkill. Since late November, a warming trend has occurred over the region. In Spain, the first substantial rains of the autumn occurred in mid-November, increasing moisture for winter grain planting. Recent showers in Spain moistened topsoils for planting.



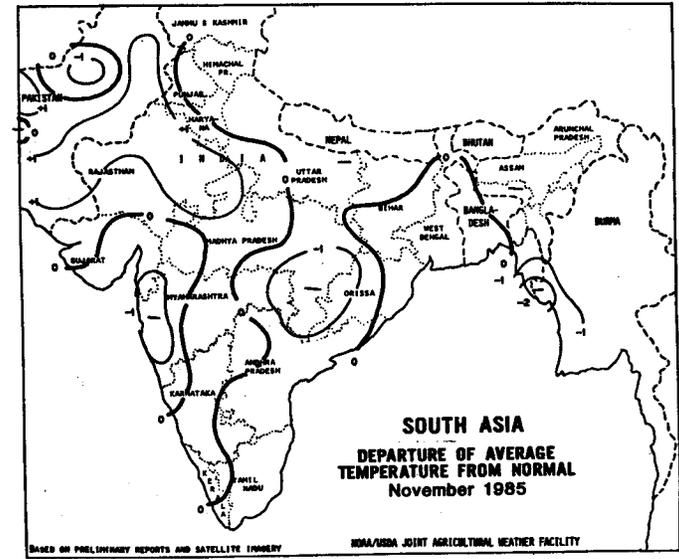
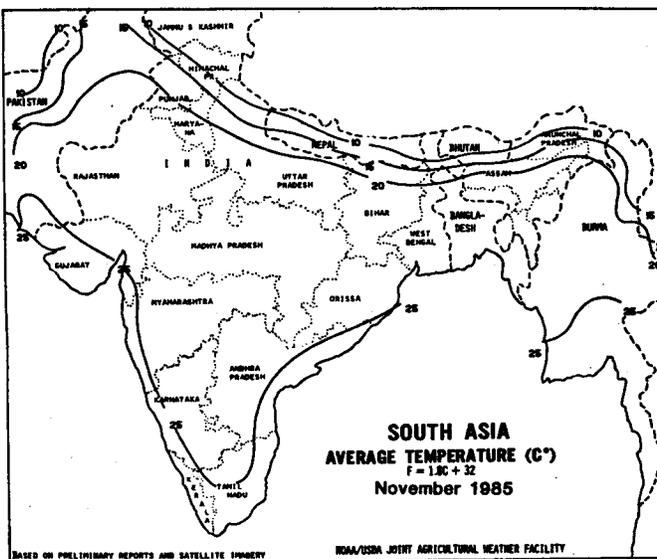
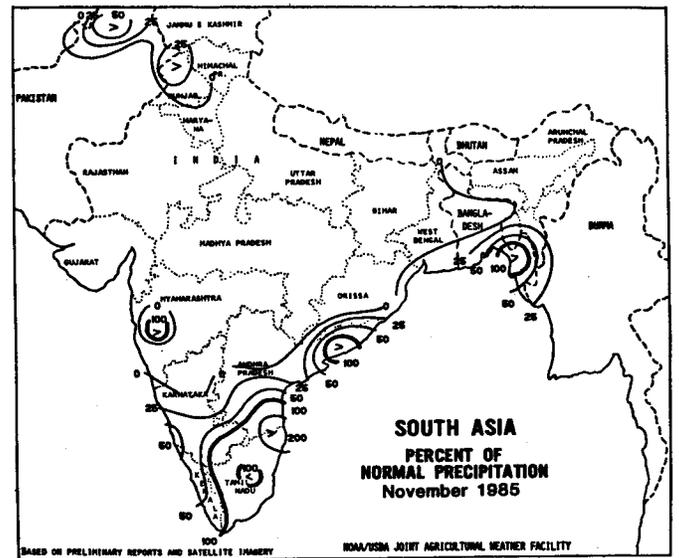
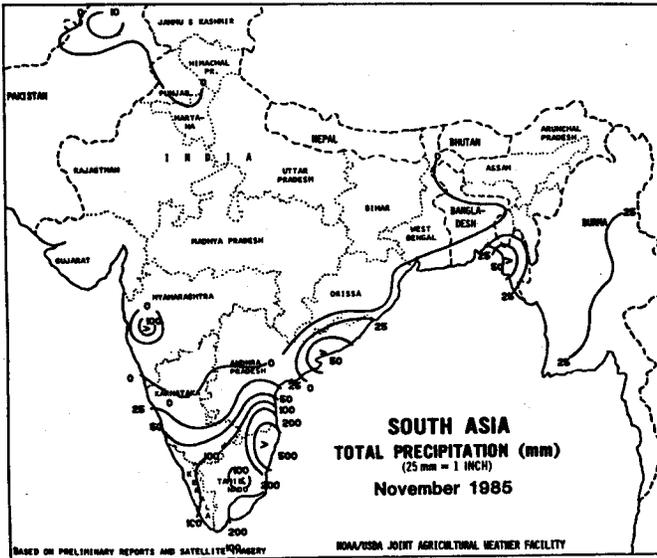
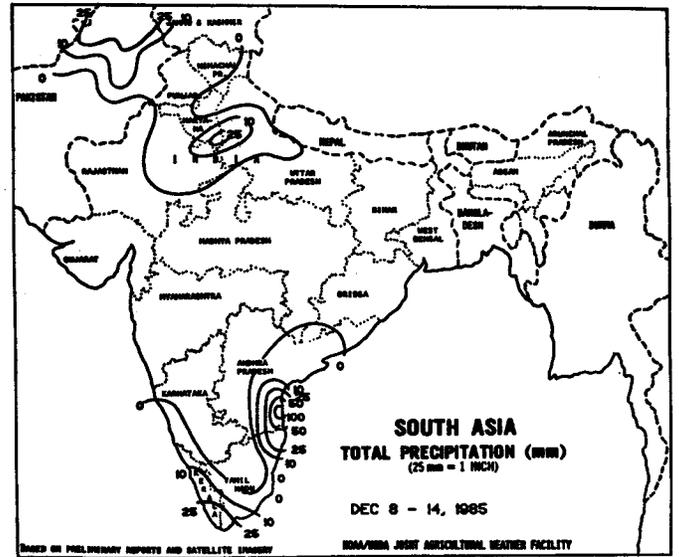
**SOUTH AMERICA...**Substantial rain (25-45mm) fell over Brazil's southern state of Rio Grande do Sul late in the week, improving topsoils for soybean planting which was only about 30 percent complete in early December. Planting progress lags significantly behind normal due to unseasonable warm, dry weather since October. November rainfall averaged less than 25 percent of normal in western Rio Grande do Sul. Below-normal November rains occurred over most of Braizil's soybean areas, except in Mato Grosso do Sul and eastern Minas Gerais where substantial rains fell early and again late in the month. Brazil's total soybean crop was only about 55 percent planted compared with 85 percent normally planted by early December. The recent moisture should increase the planting pace. In Argentina, widespread rain (25-75mm) fell over most crop areas, except eastern Buenos Aires where favorable drier weather prevailed. Heavy November rains inundated much of Buenos Aires delaying the wheat harvest and summer crop planting. The recent rain delayed soybean planting in Santa Fe.



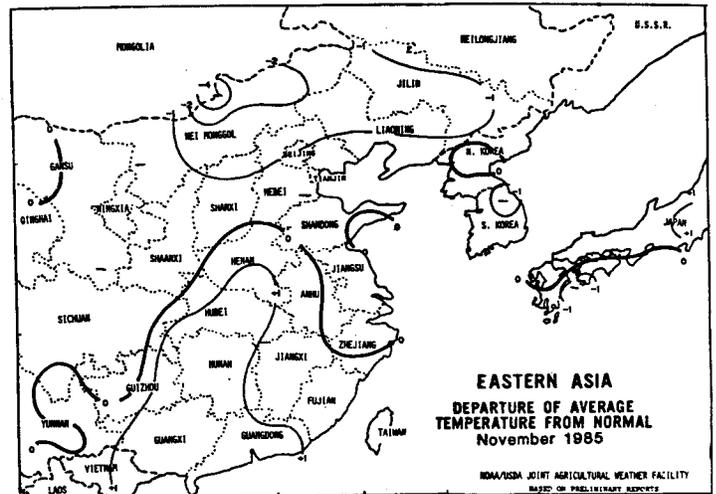
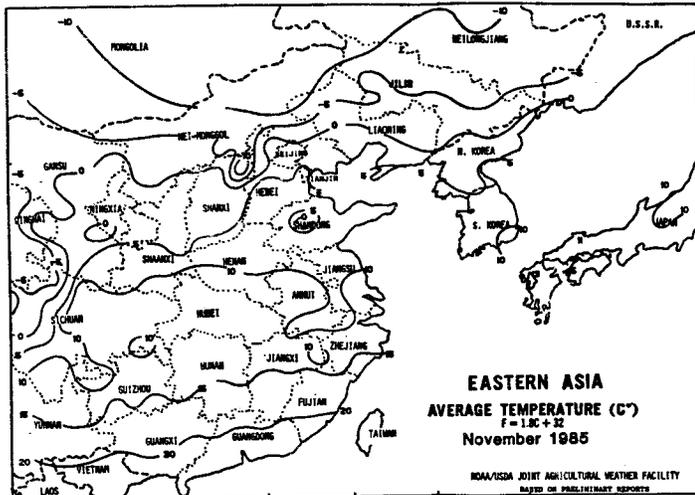
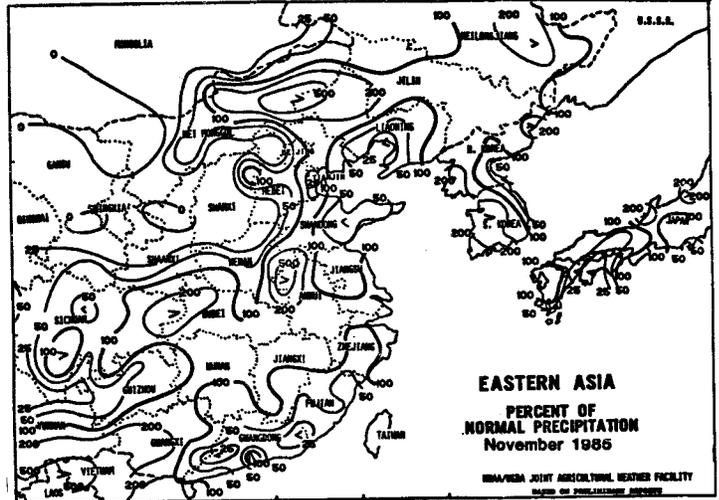
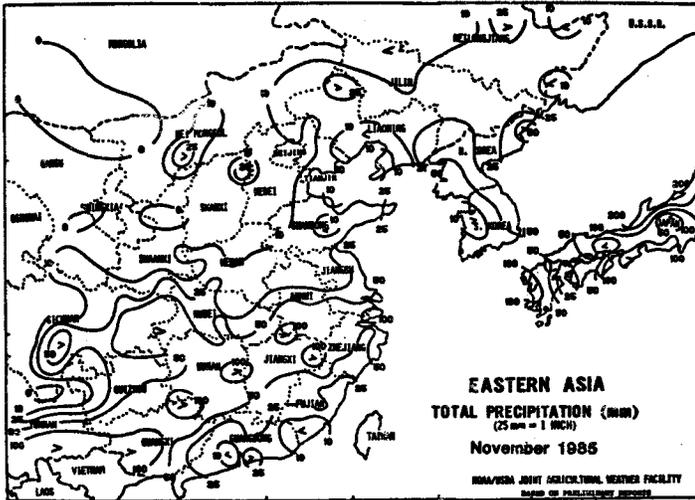
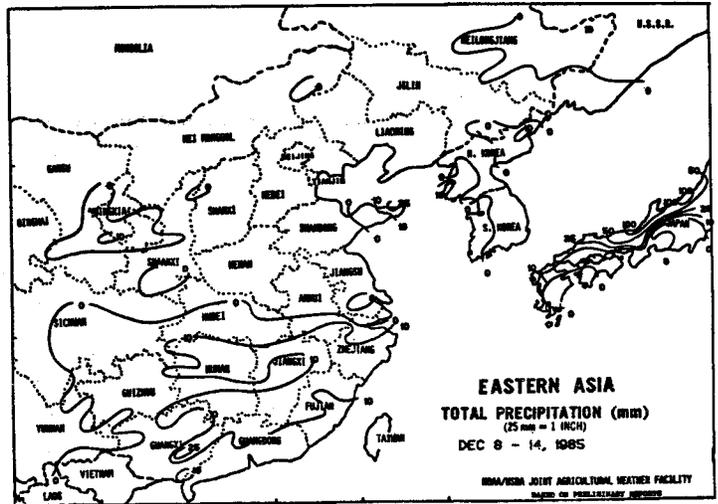
**SOUTH AFRICA...** Moderate rain was concentrated in the eastern and northern corn areas. The northern Transvaal has been the driest corn area, but this week 25-50mm of rain favored vegetative growth. Lighter showers (5-15mm) fell across the central Maize Triangle while mostly dry weather covered the south. Temperatures increased to slightly above normal, reaching 33C in the west. November rainfall was below normal in most of the Maize Triangle. A long dry, hot period in November stressed early corn growth. Increased rain and cooler temperatures in late November and the first half of December have improved corn prospects.



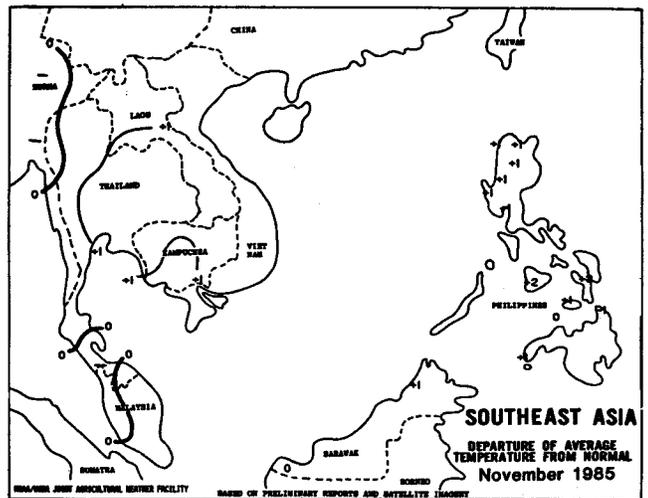
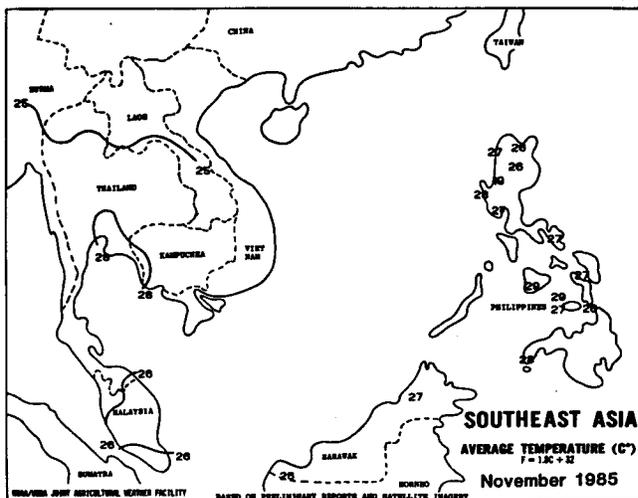
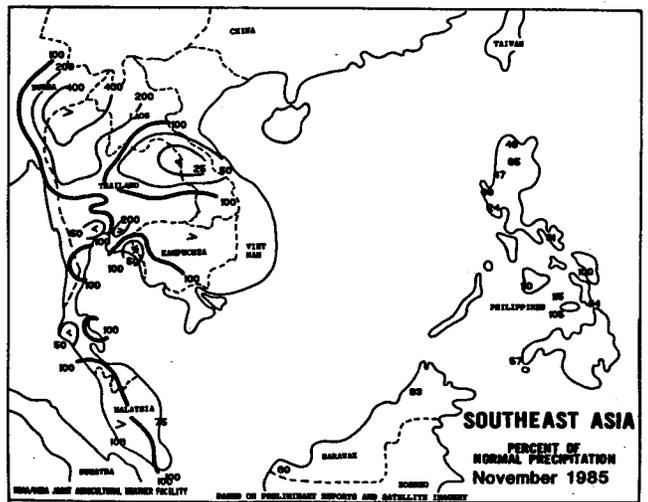
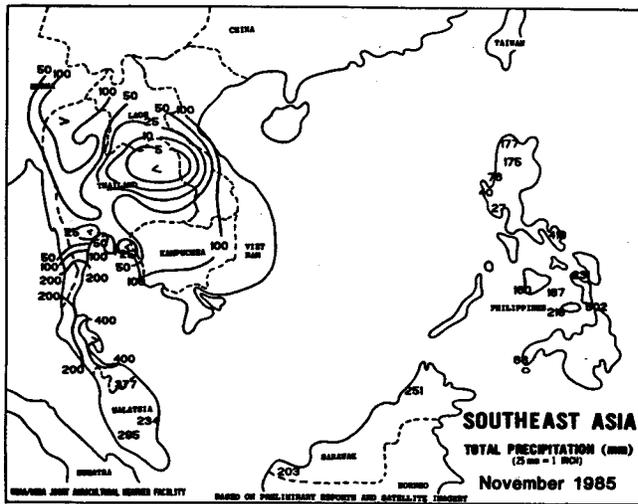
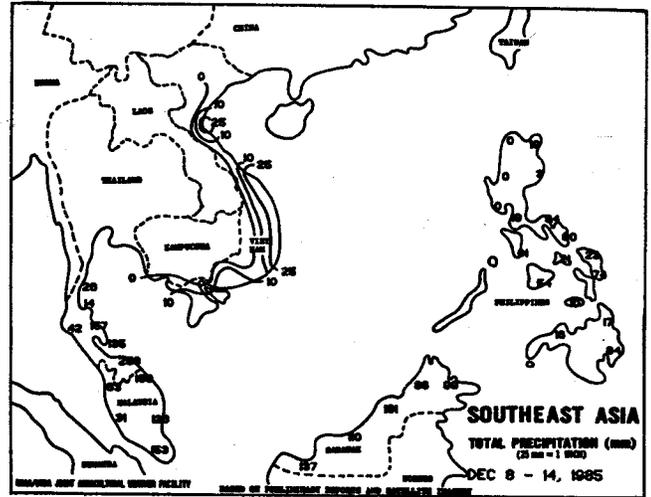
**SOUTH ASIA...**Light to moderate showers (5-35mm) benefited northern wheat in Pakistan and India. Eastern and southern wheat areas in India were mostly dry. Late in the week, a tropical storm struck the southeastern coast near Madras, Tamil Nadu. The moisture will benefit summer rice planting, but may have caused further damage to unharvested winter rice. November rainfall was well above normal in the southeast, resulting from unseasonable active tropical weather.



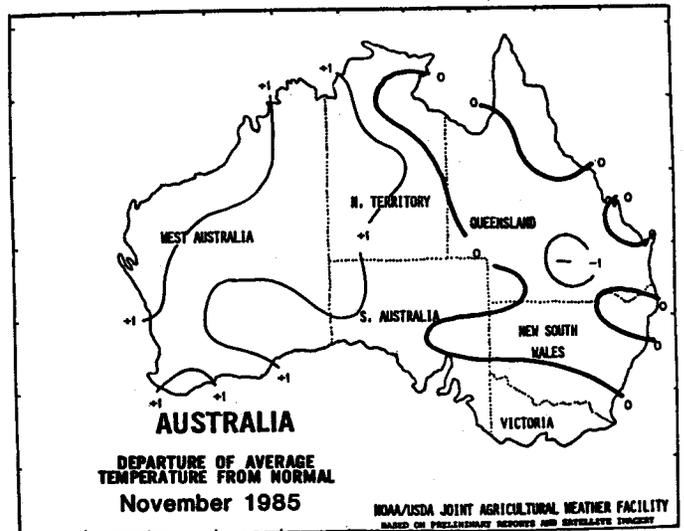
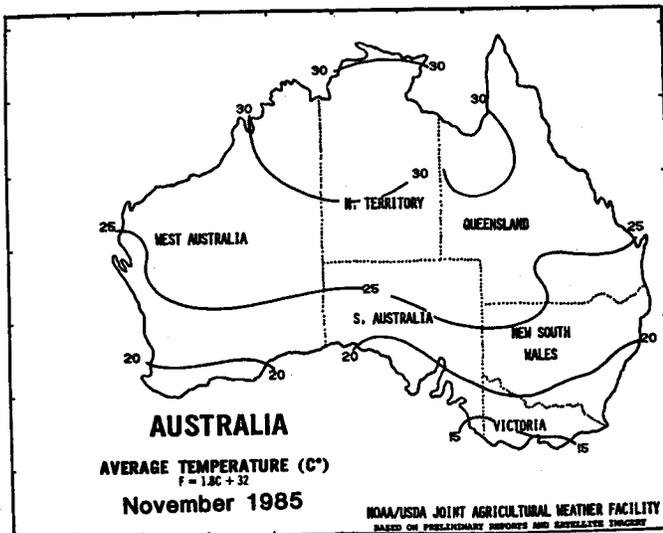
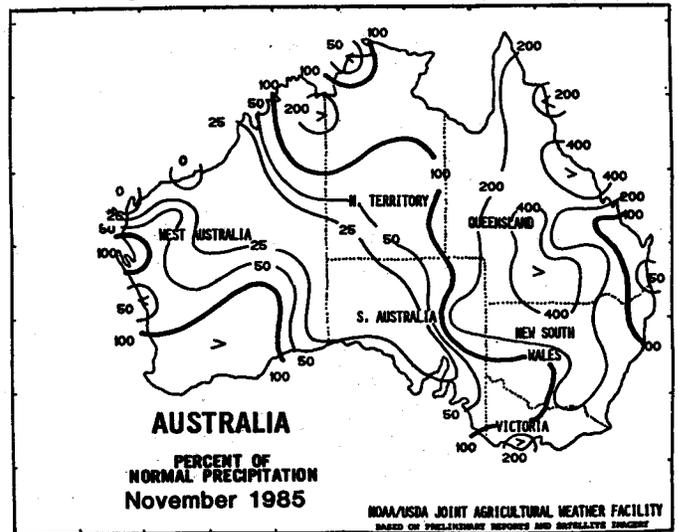
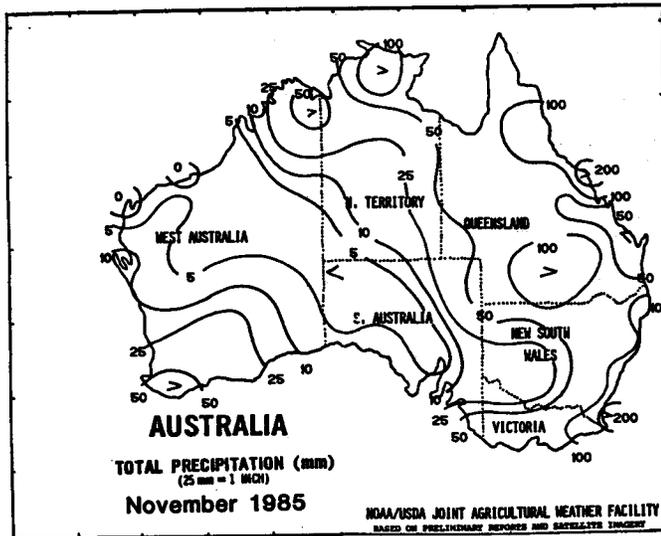
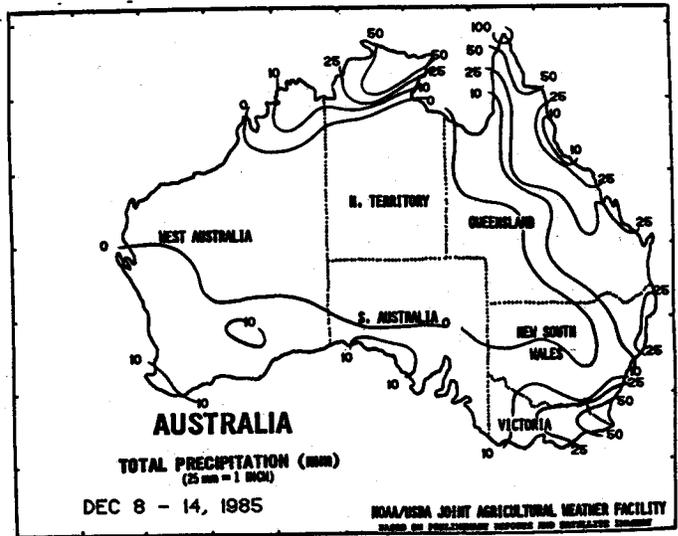
**EASTERN ASIA...**Very cold air pushed into the North China Plain early this week. Temperatures dropped as low as -19C in the northern winter wheat area. Variable snow cover protected much of the region, but little or no snow cover in parts of Hebei and Shandong left winter wheat vulnerable to potential winter kill. Freezing temperatures occurred south of the Yangtze River. Temperatures warmed by the end of the week. Moderate precipitation (10-25mm) fell south of the Yangtze River. Above-normal November rainfall in the North China Plain added to favorable moisture supplies. Relatively warm weather in November helped establish late planted winter wheat.



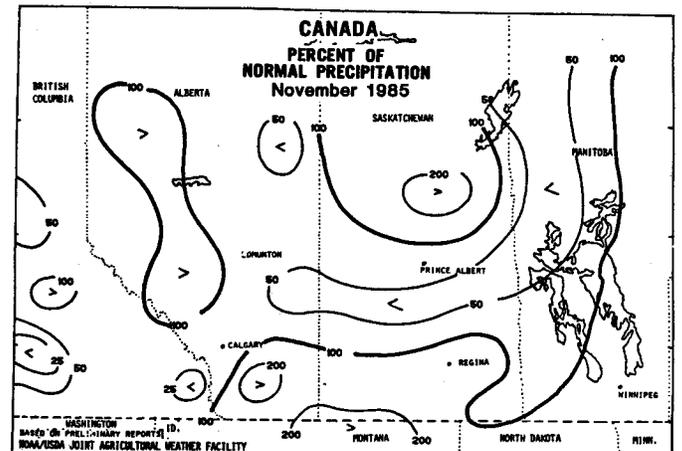
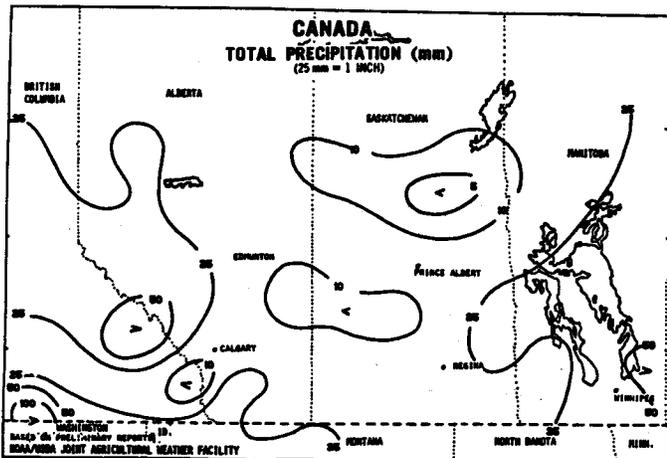
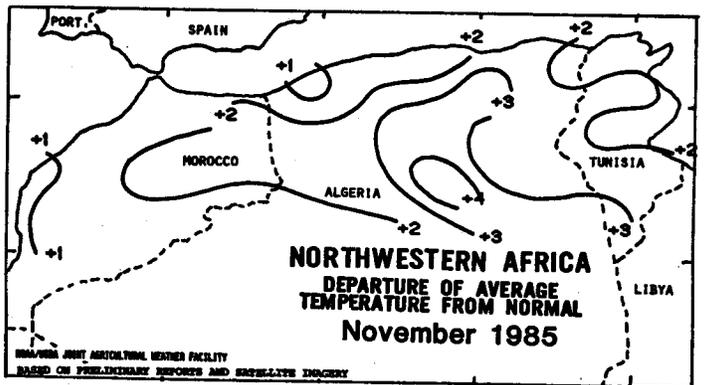
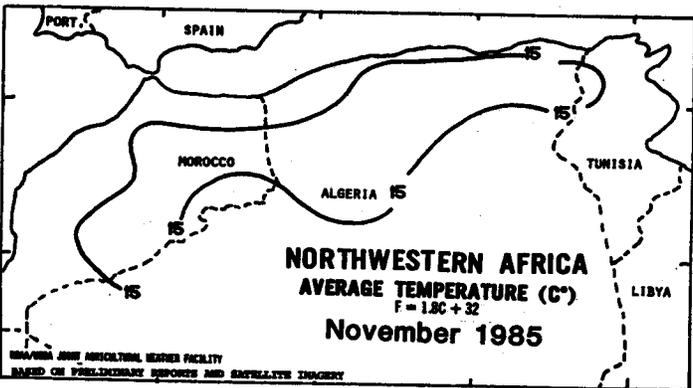
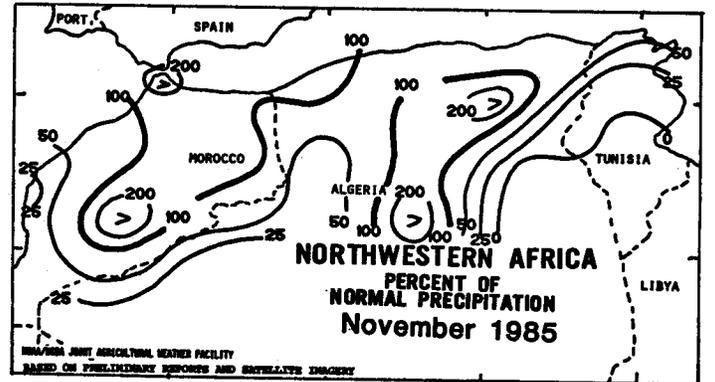
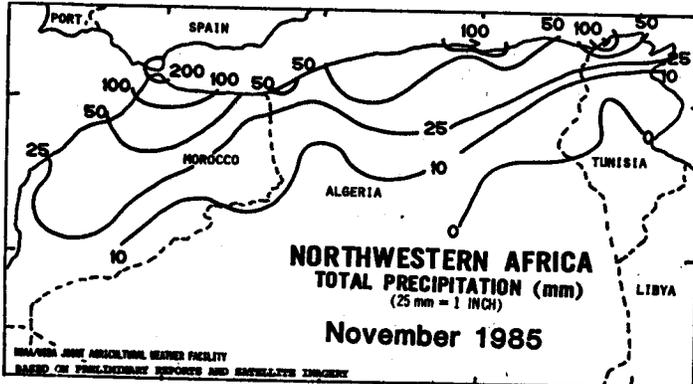
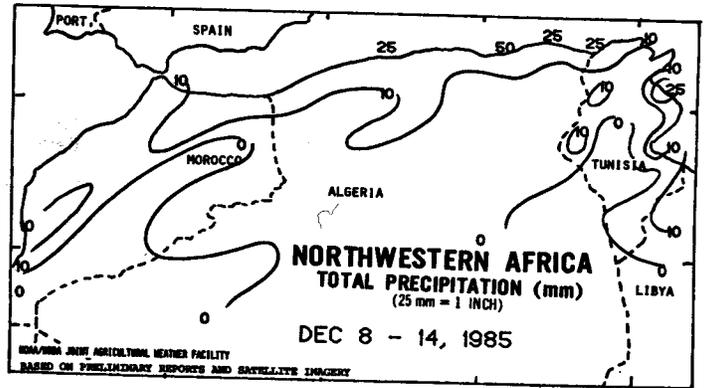
**SOUTHEAST ASIA...** Dry weather favored rice harvesting in most of Indochina. Moderate rain interrupted rice harvesting in Vietnam and the Philippines. November rainfall was above normal in northern and south-central Thailand, possibly damaging some maturing rice. Dry weather during November favored maturing rice in eastern Thailand. Weekly summaries will be discontinued until the main rice and corn planting season begins next spring.



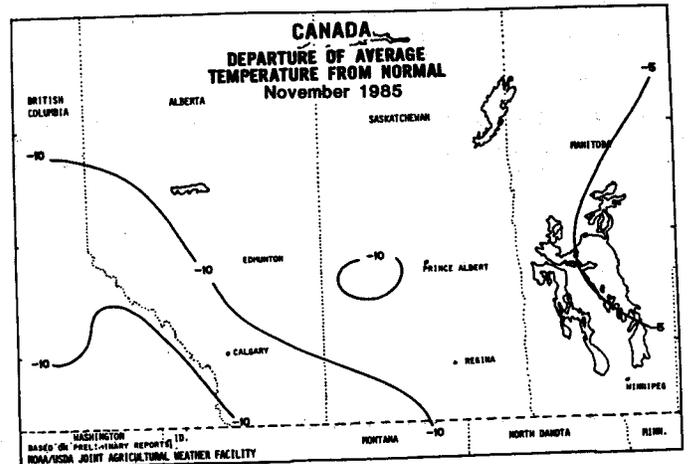
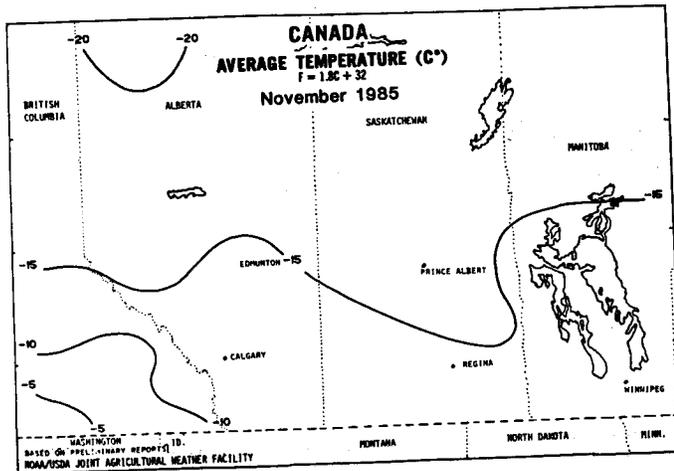
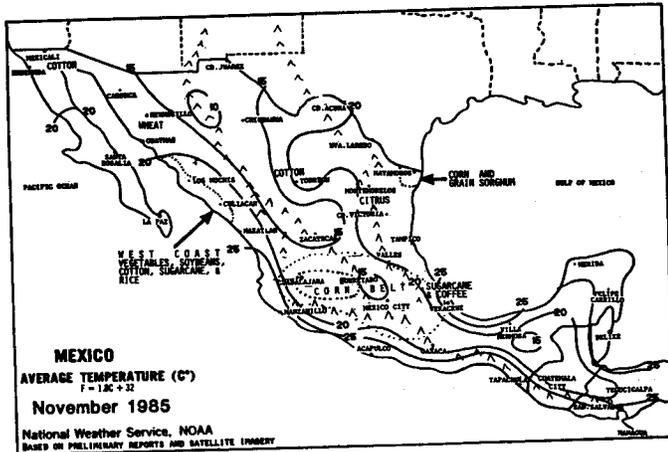
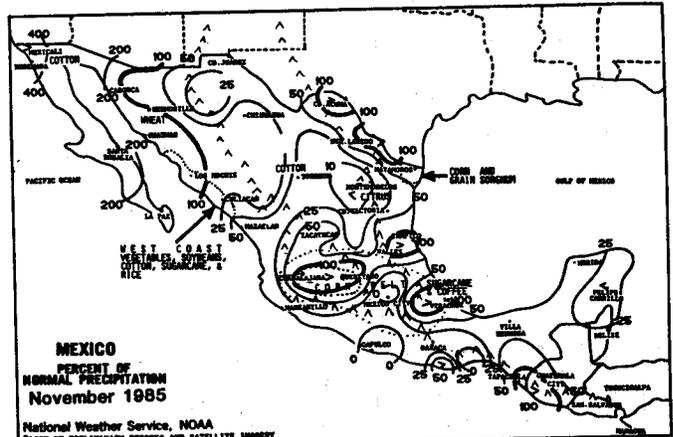
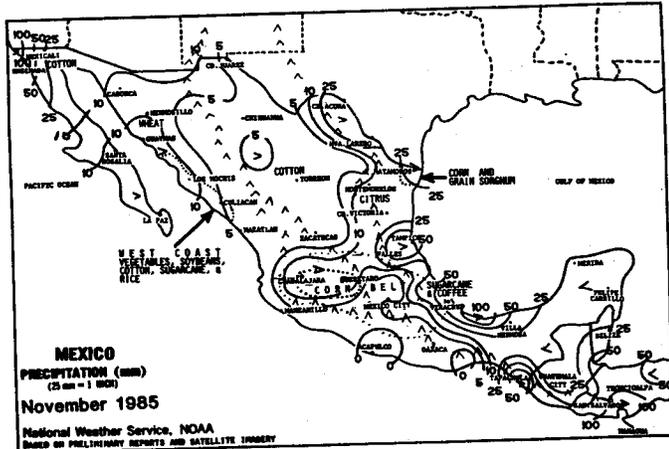
**AUSTRALIA...**Light to moderate showers fell over much of the wheat belt, maintaining unfavorable moist conditions for harvesting. Wheat harvesting may have progressed in central New South Wales where relatively drier weather occurred. Temperatures averaged below normal this week, reducing evaporation from the wet fields. Moderate rain benefited the northeast sugar region. November rainfall was much above normal in Queensland and New South Wales, interrupting wheat harvesting and lowering grain quality. The moisture has been mostly beneficial for summer crops.



**NORTHWESTERN AFRICA...**Light showers covered most winter grain areas with precipitation amounts varying around 10mm. The rain in Morocco and Algeria continued November's near-normal rainfall pattern, providing adequate moisture for winter grain planting. The precipitation in Tunisia (10-14mm) was the first substantial rain since October, increasing topsoil moisture for planting. The bulk of winter grain planting in Tunisia takes place during December, and more rain is needed for planting. At present, topsoil moisture is generally adequate for winter grain emergence and early growth in Morocco and Algeria. However, subsoil moisture is limited, and timely rains are needed during the remainder of the growing season to maintain favorable yield prospects.



**MEXICO**...Mostly dry weather prevailed, except for a few light showers in the extreme northwest, the west-central corn belt, and east-coastal areas from Tampico to the Yucatan Peninsula. Weekly rainfall was less than 5mm in all areas, causing no significant interruptions in fieldwork. Temperatures averaged a few degrees below normal in northwestern wheat areas, but seasonal temperatures occurred elsewhere. November monthly rainfall averaged near to slightly above normal along the northwest coast, most of the Southern Plateau corn belt and east coast sugarcane and coffee areas. Monthly rainfall was below average from Veracruz southward across the Yucatan Peninsula. Moisture is limited in the south for late corn growth.



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(Continued from front cover)

**FRIDAY...**A low pressure system in Tennessee combined with cold air from the Northwest to produce snow from Arkansas and Missouri through the lower Great Lakes States to New England. Rain fell through the Southeast and up the East Coast to southern New England. Freezing temperatures reached to southern California, south central Texas, central Arkansas, and to central Pennsylvania.

**SATURDAY...**Traces of snow fell from Tennessee through the middle and southern Appalachians and heavier amounts fell from the upper Mississippi Valley to Pennsylvania, New York, and New England. The freezing weather pushed southward through the lower Mississippi Valley and over the southern Appalachians. Subzero temperatures dipped deep into the lower Missouri Valley and over the western Great Lakes.

(Continued from p. 12)

**WISCONSIN:** Near normal temperatures midweek, below normal remainder of week. Light snow across many sections of State, 1 to 3 in. central, 1 to 5 in. south.

Corn harvested 74%, 100% 1984, 95% avg.; corn standing well in fields. Soybeans harvested 78%, 100% 1984, 96% avg.; quality in fields deteriorating under snowcover.

**WYOMING:** Very cold week. Precipitation above normal.

Bitter cold temperatures, snow slowed outside activities. Snowcover most areas. Winter wheat mostly good. Livestock fair to good. Bitter cold, snow increasing stress. Supplemental feeding necessary most areas. Hay supplies short some areas.

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