

# WEEKLY WEATHER AND CROP BULLETIN

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

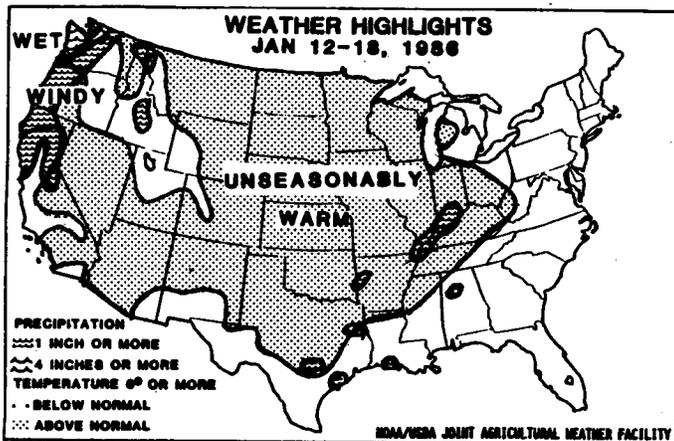
U.S. DEPARTMENT OF AGRICULTURE  
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January 12 to 18, 1986



Appalachians. A storm system off the central Pacific coast caused rains and high winds from California to Washington. Skies were mostly sunny from the Great Plains to the Southeast.

WEDNESDAY...Very-cold temperatures and brisk winds continued over the Northeast. Snow developed ahead of a warm front moving across the upper Great Lakes. Rain continued along the west coast, and scattered rain and snow showers fell over much of the Plateau and central Rockies as a storm system moved inland along the central Pacific coast. Skies were clear over the Great Plains and much of the eastern half of the Nation.

THURSDAY...A frontal system brought windy and wet weather to the Northwest from central California to Washington. Snow fell in the higher terrain from northern California to western Montana. Rain and thunderstorms were scattered from southern Texas to western Ohio. Mild temperatures occurred across the southern half of the Nation.

FRIDAY...A storm system moved across the northern and central Rockies bringing howling winds and some heavy snow. Rain showers were scattered along the northern Pacific coast. Scattered showers fell from the western Gulf coast to the lower Great Lakes. Early spring weather generally prevailed as most of the Nation enjoyed above-freezing temperatures.

SATURDAY...Another Pacific storm brought widespread rain and snow to the Northwest. The high winds continued in the northern Plateau and northern Rockies. Rain and thunderstorms were scattered from the central Gulf coast to the lower Great Lakes, while the upper Great Lakes had snow. Temperatures were unseasonably mild over virtually the entire Country.

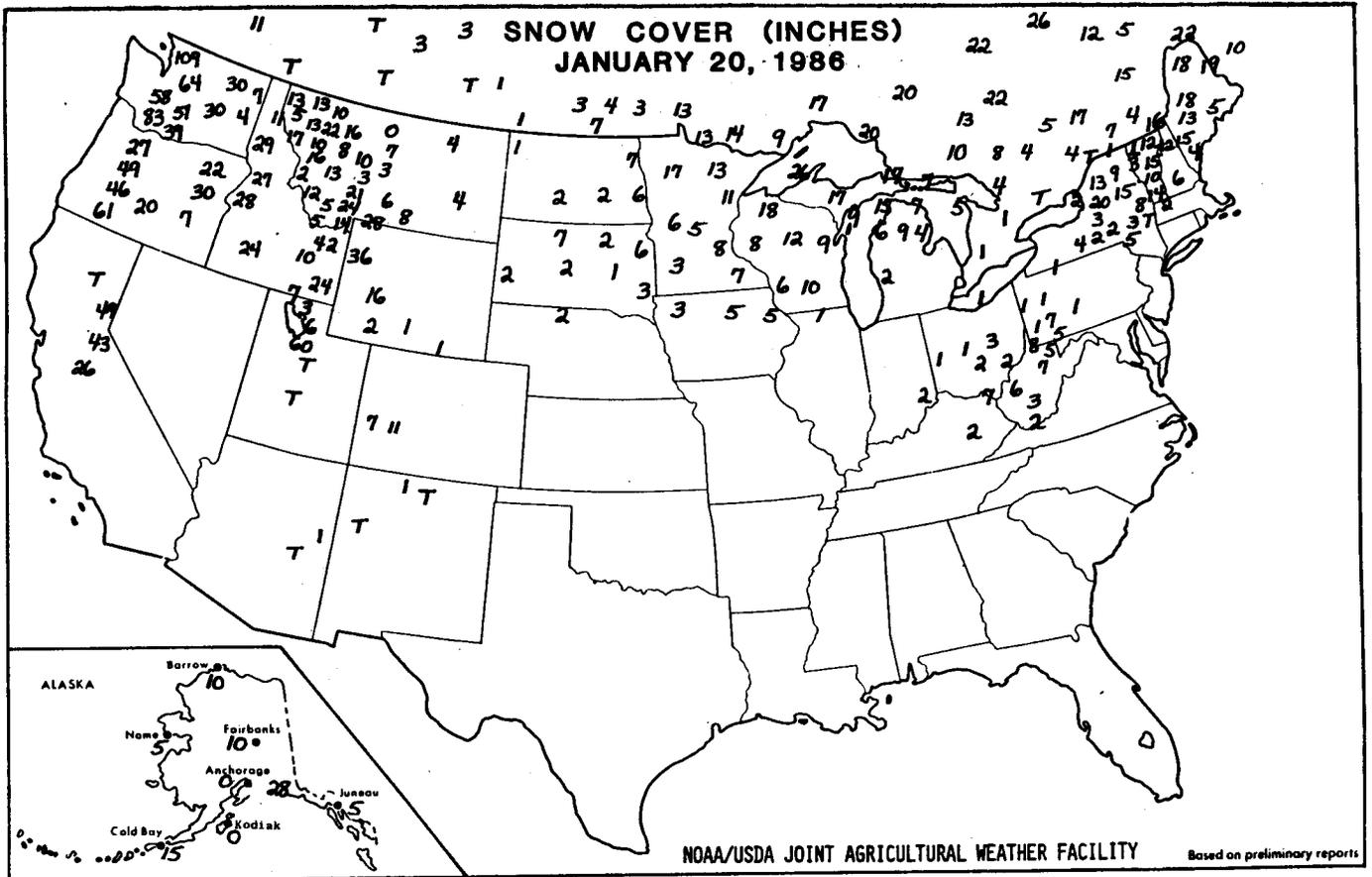
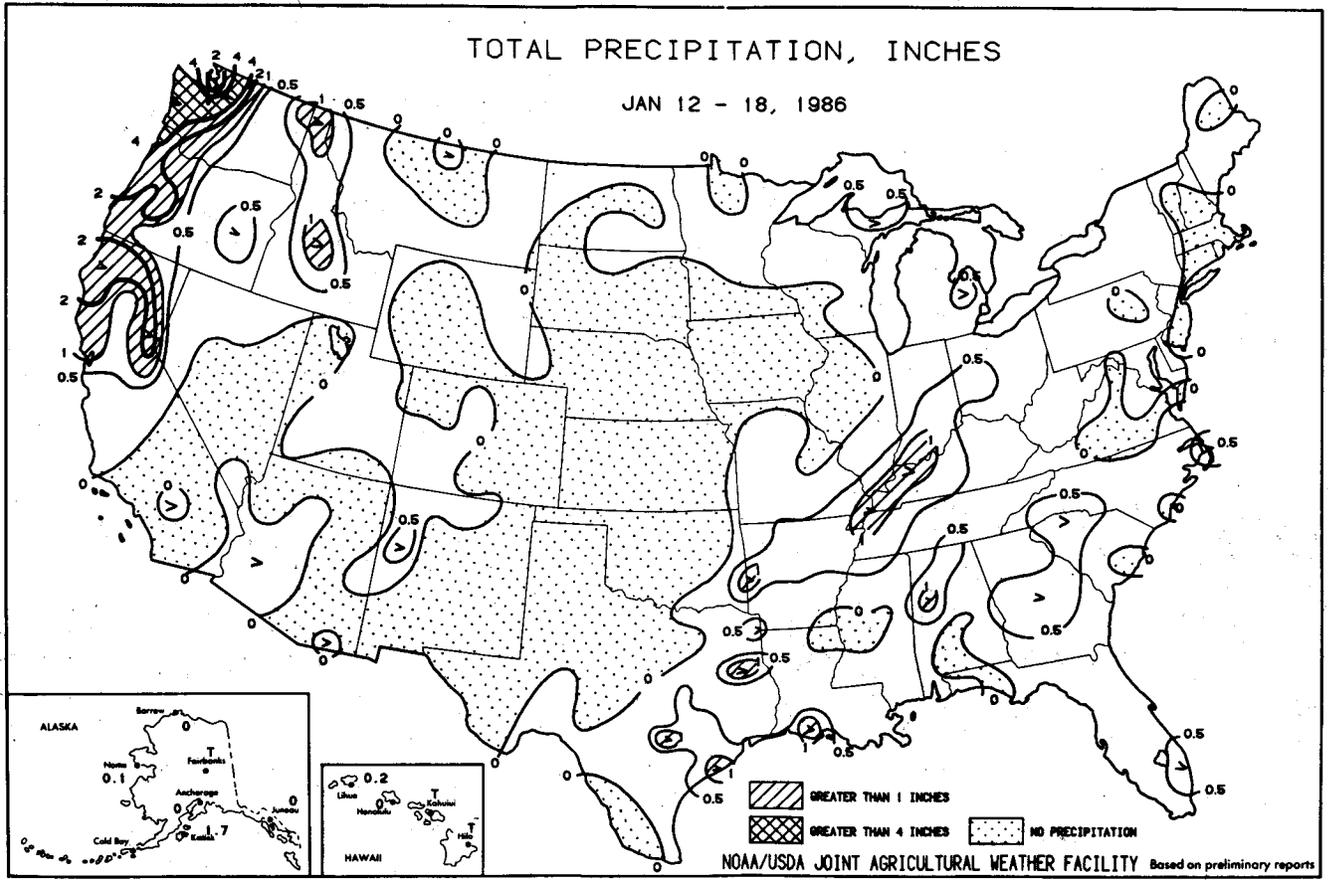
**HIGHLIGHTS:** An intense low-pressure system was responsible for snow, blustery winds, and very cold temperatures early in the week from the Upper Mississippi Valley to New England. Several strong Pacific storms kept the Northwest wet and windy. Later in the week, howling winds blew over the northern and central Rockies, and a frontal system caused scattered rain and thundershowers from the Gulf coast to the lower Great Lakes. Unseasonable warm temperatures prevailed over much of the Nation at the end of the week.

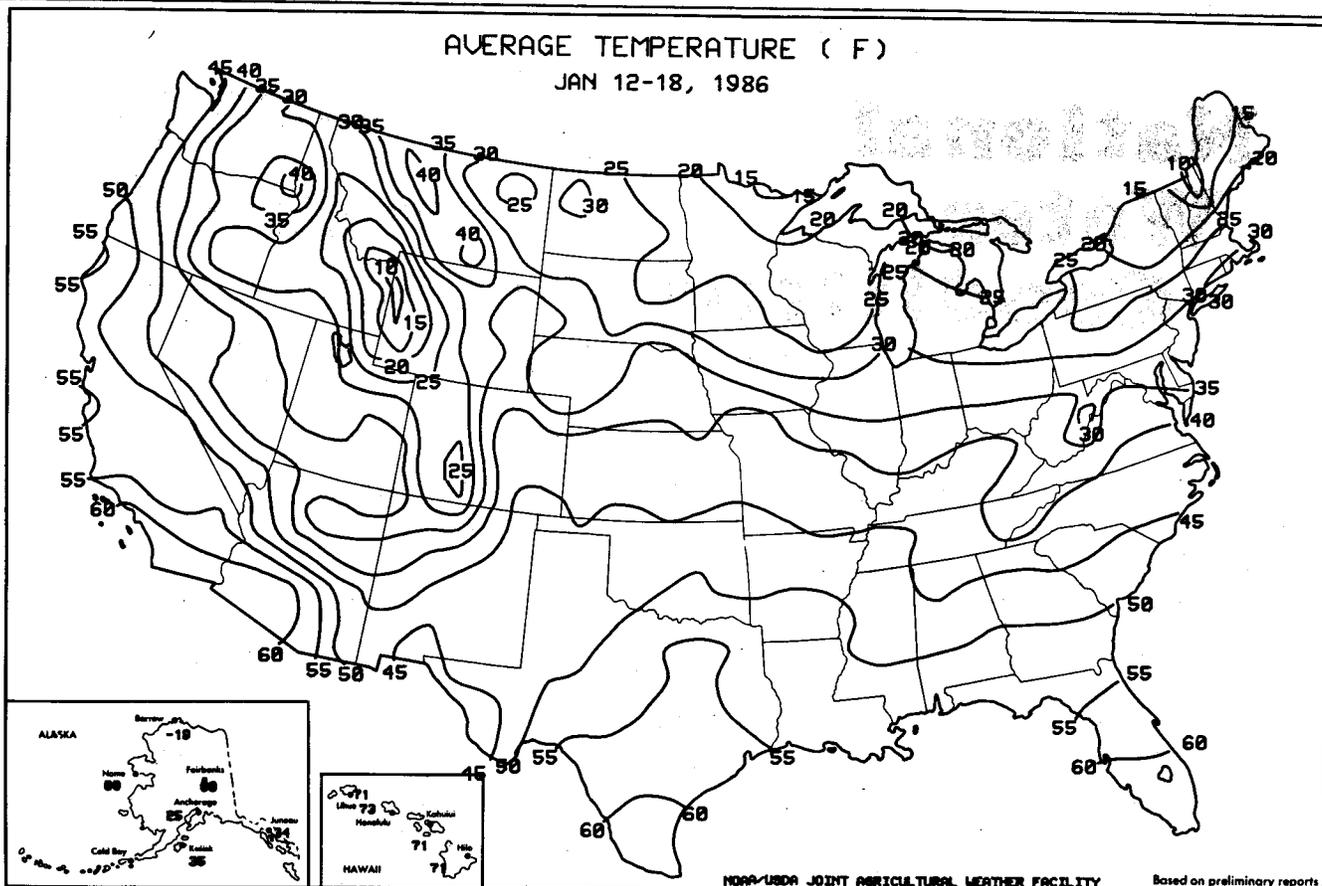
**SUNDAY...**An intense low pressure system brought strong gusty winds and snow showers to the upper Mississippi Valley and the Great Lakes. Sunshine and mild temperatures prevailed from southern New England to the South Atlantic Coast States and to eastern Texas. Scattered afternoon rains fell over southern Florida. Sunny and warm weather continued across the Southwest.

**MONDAY...**A storm system brought snow and gusty winds to the Northeast. Snow fell over the Appalachians, the Ohio Valley, and the Great Lakes as temperatures plummeted. An intense Pacific storm approached the central and northern west coast causing strong southeasterly breezes, unseasonable warm temperatures, and rain. Skies were generally clear from the Rockies to the Southeast.

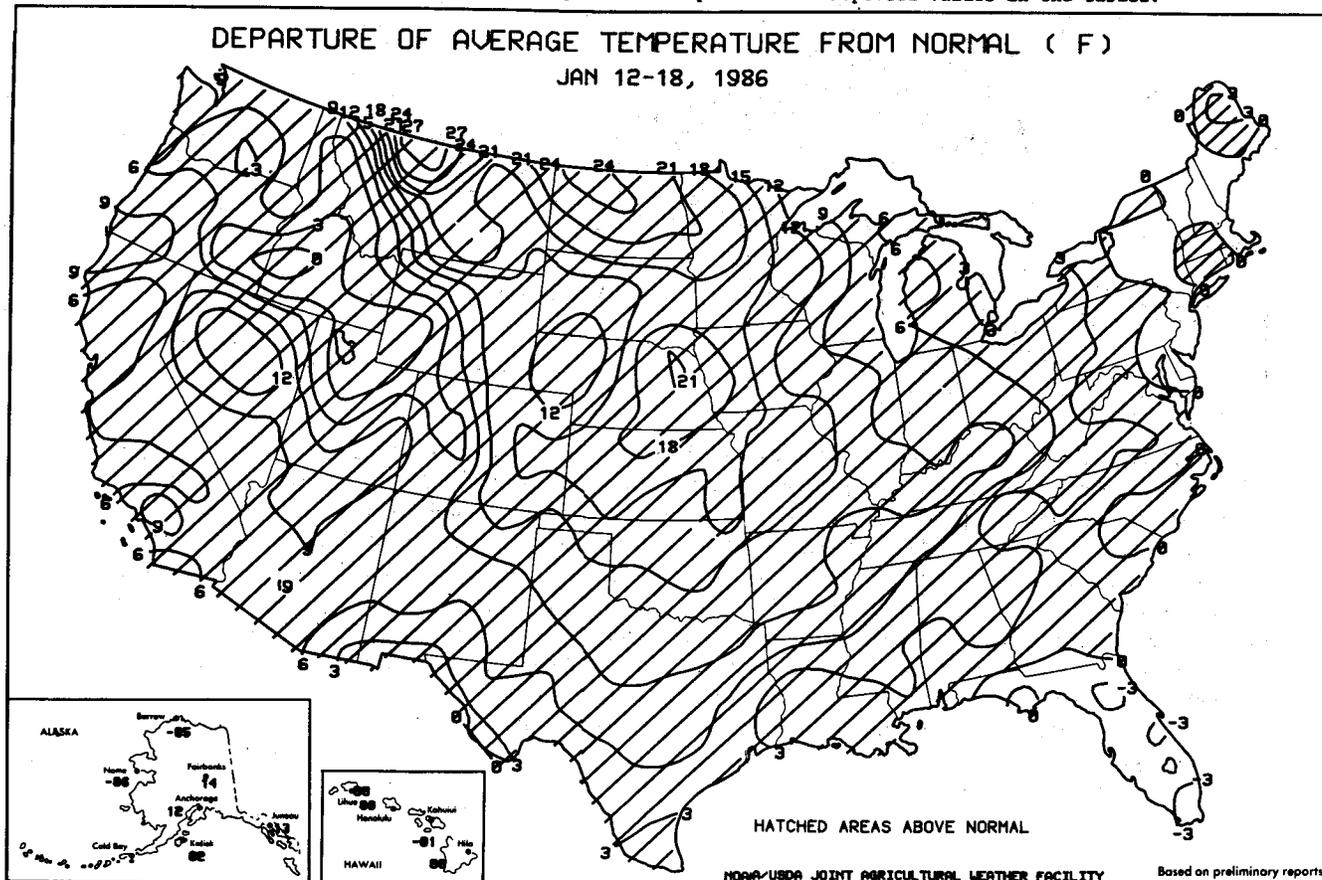
**TUESDAY...**A cold front off the New England coast brought cold air and blustery winds to the Northeast. Snow fell from the Great Lakes to the

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

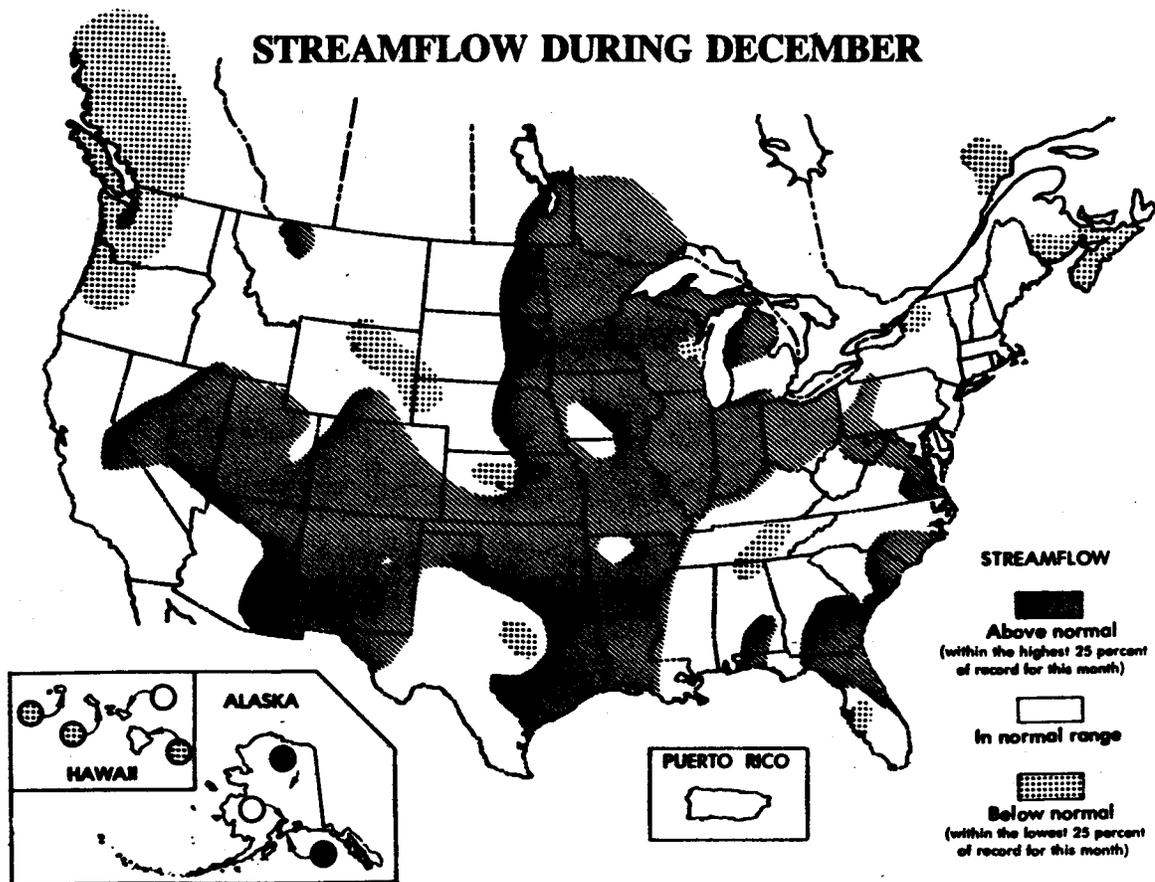


# National Water Conditions

UNITED STATES  
Department of the Interior  
Geological Survey

CANADA  
Department of the Environment  
Water Resources Branch

DECEMBER 1985



The combined flow of the 3 largest rivers in the lower 48 States—Mississippi, St. Lawrence, and Columbia—averaged 1,527,500 cubic feet per second (cfs) during December, a record high for the month. Mississippi River at Vicksburg, Mississippi, also set a record high for the month—1,184,200 cfs—about 78 percent of the combined flow of the 3 rivers.

Streamflow generally increased in Alaska, Oregon, California, Nevada, Arizona, Indiana, Kentucky, Tennessee, Alabama, Georgia, and Saskatchewan; was variable in Idaho, Wyoming, New Mexico, Texas, Arkansas, Mississippi, and the Carolinas, and generally decreased in the rest of the United States and southern Canada. About 86 percent of the index stations had flows in the normal to above-normal range, down from the 94 percent in those ranges for November.

The Snow River glacier-dammed lake on Alaska's Kenai Peninsula broke out and peaked at 12,000 cfs on December 3. The breakout occurs every three to four years, usually in September or October.

Contents of 72 percent of reporting reservoirs were at or above average for the end of December and only 26 percent reported a significant decline in contents during December. New York City's reservoir system was below average for the end of December despite an increase in contents during the month. The Delaware River Basin Commission terminated the basin's drought emergency, which had been in effect since May 13, 1985, on December 18. Contents of New York City's reservoir system on December 17 were at about 74 percent of normal maximum, the same as those for the end of December.

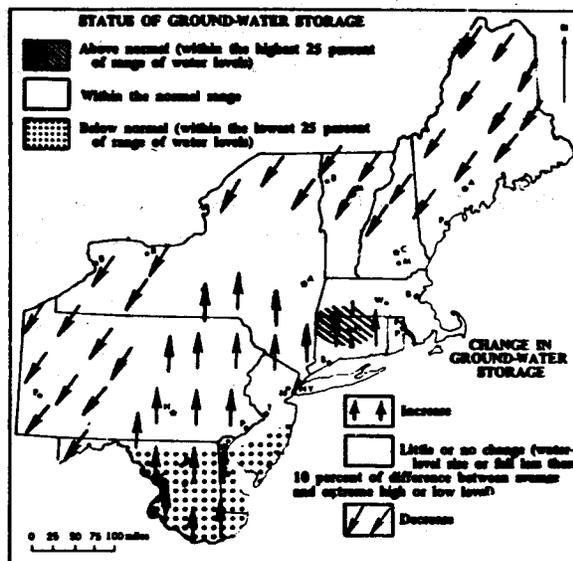
**GROUND-WATER CONDITIONS DURING DECEMBER 1985**

Ground-water levels continued to rise in most of Connecticut, and in south-central Massachusetts, southeastern New York State, eastern Pennsylvania, and eastern Maryland. (See map.) Elsewhere in the Northeast, levels fluctuated only slightly except for a predominantly declining trend in most of northern New England, northern and western New York, and western Pennsylvania. Near the end of the month, levels in most wells were within the normal range of levels for this time of year. Exceptions included above-average levels in northern Connecticut and below-average levels in Delaware, southern New Jersey, and eastern and central parts of Maryland.

In the southeastern States, ground-water levels rose in Virginia and rose in most key wells in Georgia; trends were mixed in other States. Water levels were above average in Kentucky and North Carolina, and below average in Arkansas. Levels were mixed with respect to average in other southeastern States. A new low level for December was reached in the key well near Memphis, Tennessee.

Among the central and western Great Lakes States, ground-water showed mixed trends in Minnesota, Wisconsin, and Michigan, and declined in other States. Water levels were normal or above normal in Wisconsin and Michigan, and in most of Indiana. Levels were mixed

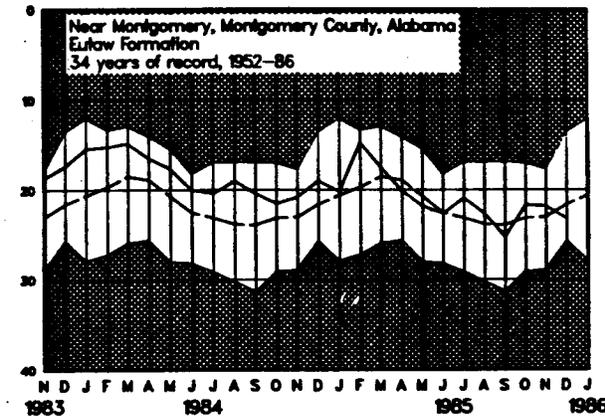
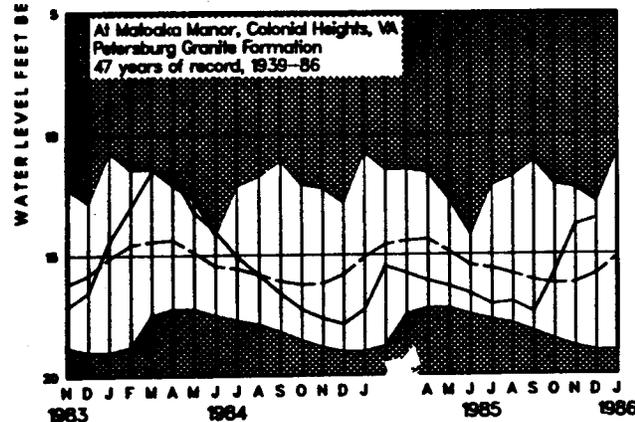
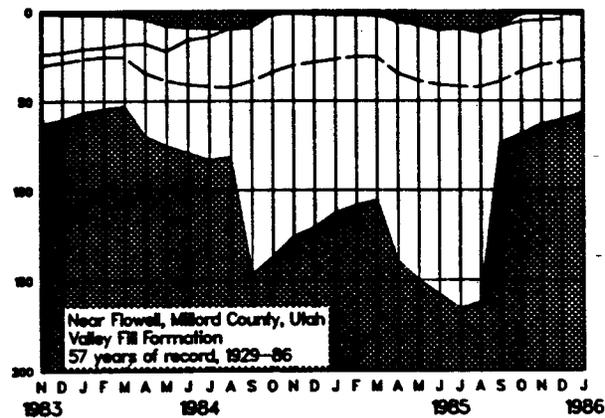
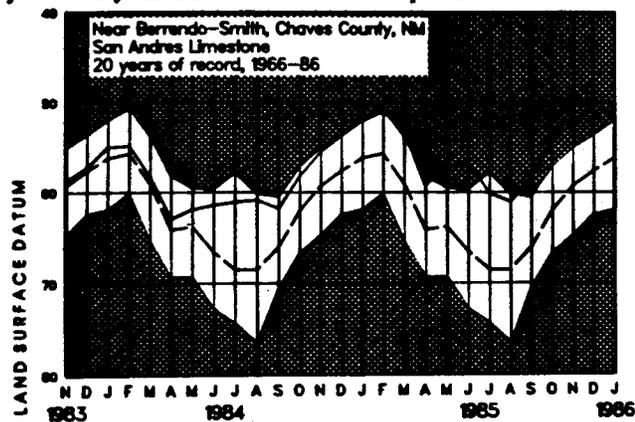
with respect to average in other States. Two new December high ground-water levels were recorded in Michigan.



Map shows ground-water storage near end of December and change in ground-water storage from end of November to end of December.

**MONTH-END GROUND-WATER LEVELS IN KEY WELLS**

Unshaded area indicates range between highest and lowest record for the month. Dashed line indicates average of monthly levels in previous years. Heavy line indicates level for current period.



In the western States, ground-water levels rose in Nevada, and declined in Idaho and North Dakota. Water levels showed mixed trends in other western States. Levels were above average in Washington and Nebraska, and below average in North Dakota. Levels were mixed with

respect to average in other western States. New high water levels for December were established in Nevada, Utah, and New Mexico. New December low levels were recorded in Kansas, New Mexico, and Texas.

Provisional data; subject to revision

### WATER LEVELS IN KEY OBSERVATION WELLS IN SOME REPRESENTATIVE AQUIFERS IN THE CONTERMINOUS UNITED STATES—DECEMBER 1985

Aquifer and Location	Water level in feet with reference to land-surface datum	Departure from average in feet	Net change in water level in feet since:		Year records began	Remarks
			Last month	Last year		
Glacial drift at Hanska, south-central Minnesota.	-6.12	+2.30	-0.90	+1.32	1942	
Glacial drift at Roscommon in north-central part of Lower Peninsula, Michigan.	-3.70	+1.15	+0.34	+0.65	1935	December high.
Glacial drift at Marion, Iowa.....	-4.14	+2.21	-0.93	-0.78	1941	
Glacial drift at Princeton in northwestern Illinois.	-6.38	+7.53	-0.18	+2.57	1943	December high.
Petersburg Granite, southeastern Piedmont near Fall Zone, Colonial Heights, Virginia.	-13.50	+2.48	+0.29	+4.39	1939	
Glacial outwash sand and gravel, Louisville, Kentucky (U.S. well no. 2).	-17.29	+8.28	-0.25	-0.46	1946	
500-foot sand aquifer near Memphis, Tennessee (U.S. well no. 2).	-104.50	-15.33	-0.03	-0.53	1941	December low.
Granite in eastern Piedmont Province, Chapel Hill, North Carolina (U.S. well no. 5).	-42.10	+1.43	+0.72	-1.33	1931	
Sparta Sand in Pine Bluff industrial area, Arkansas.	-220.50	-14.85	-4.80	+8.40	1958	
Eutaw Formation in the City of Montgomery, Alabama (U.S. well no. 4).	-23.2	-1.7	-1.5	-4.2	1952	
Limestone aquifer on Cockspur Island, Savannah area, Georgia (U.S. well no. 6).	-31.60	+5.06	+2.62	+1.10	1956	
Sand and gravel in Puget Trough, Tacoma, Washington.	-101.96	+8.17	+0.74	-1.48	1952	
Pleistocene glacial outwash gravel, North Pole, northern Idaho (U.S. well no. 3).	-460.6	+0.8	-1.0	-6.5	1929	
Snake River Group: Snake River Plain Aquifer, at Eden, Idaho (U.S. well no. 4).	-121.8	-4.5	.....	-0.1	1957	
Alluvial valley fill in Flowell area, Millard County, Utah (U.S. well no. 9).	-4.27	+23.22	+0.55	-4.87	1929	
Alluvial sand and gravel, Platte River Valley, Ashland, Nebraska (U.S. well no. 6).	-5.90	+0.30	-0.10	-1.20	1935	
Alluvial Valley fill in Steptoe Valley, Nevada (U.S. well no. 3).	-7.78	+5.24	+0.37	+0.54	1950	December high.
Pleistocene terrace deposits in Kansas River valley, at Lawrence, northeastern Kansas.	-16.44	+4.52	-0.78	+3.91	1953	
Alluvium and Paso Robles clay, sand, and gravel, Santa Maria Valley, California (U.S. well no. 11).	-135.31	+ 9.17	-8.00	-38.57	1957	
Valley fill, Elfrida area, Douglas, Arizona (U.S. well no. 15).	-104.8	-25.3	0	+0.2	1951	
Hueco bolson, El Paso area, Texas.....	-265.06	-19.06	-0.62	-2.61	1965	December low.
Evangeline aquifer, Houston area, Texas.....	-313.70	-12.31	+1.48	-0.90	1965	

Weather Data for the Week Ending January 18, 1986

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		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	61	31	65	20	46	4	.3	-.9	.3	3.2	40	.3	10	83	36	0	4	1	0
MOBILE	67	38	73	30	52	2	.1	-.9	.1	5.9	72	1.6	59	92	40	0	2	1	0
MONTGOMERY	65	33	73	23	49	3	0	-.9	0	5.2	72	.5	20	84	29	0	5	0	0
AK ANCHORAGE	29	21	34	8	25	12	T	-.1	T	1.6	105	.2	40	87	67	0	7	0	0
BARROW	-15	-23	-13	-27	-19	-5	T	-.1	T	.2	62	T	0	73	64	0	7	0	0
FAIRBANKS	8	-8	27	-17	0	13	T	-.1	T	.1	13	.1	25	86	75	0	7	0	0
JUNEAU	37	31	45	23	34	13	T	-.8	T	11.7	171	2.4	109	93	75	0	4	0	0
KODIAK	39	32	42	23	35	3	1.7	-.2	.8	23.7	215	4.9	104	98	84	0	4	4	2
NOME	9	-9	20	-29	0	-6	.1	-.1	.1	1.5	135	.2	40	85	63	0	7	2	0
AZ PHOENIX	74	50	80	47	62	10	T	-.1	T	.8	64	0	0	68	25	0	0	0	0
PRESCOTT	60	28	66	22	44	8	.1	-.4	.1	.1	3	.1	9	86	33	0	6	1	0
TUCSON	73	45	78	40	59	8	T	-.2	T	.2	10	T	0	53	19	0	0	0	0
YUMA	76	52	80	50	64	8	T	-.1	T	.2	37	T	0	63	29	0	0	0	0
AR FORT SMITH	62	32	68	21	47	10	.2	-.2	.1	.6	15	.2	18	92	38	0	4	2	0
LITTLE ROCK	61	40	67	28	50	11	.5	0	.5	.5	43	.3	60	97	58	0	0	0	0
CA BAKERSFIELD	63	42	68	34	52	4	0	-.2	0	.5	74	4.9	120	87	69	0	0	6	2
EUREKA	65	51	78	42	58	11	3.1	1.5	1.5	7.7	74	4.9	150	94	64	0	0	1	0
FRESNO	61	46	68	36	53	8	T	-.5	T	1.3	46	.6	55	84	43	0	0	0	0
LOS ANGELES	73	54	82	50	63	7	0	-.7	0	1.0	30	.6	35	98	83	0	0	6	0
RED BLUFF	52	43	59	34	48	3	.8	-.3	.3	3.8	62	1.5	58	98	78	0	0	4	0
SACRAMENTO	56	46	68	40	51	6	.7	-.2	.4	3.8	73	1.5	65	82	47	0	0	0	0
SAN DIEGO	72	53	82	49	62	5	T	-.5	T	1.1	41	T	0	82	47	0	0	0	0
SAN FRANCISCO	59	48	63	39	53	5	.9	-.2	.4	4.0	63	2.3	85	98	78	0	0	4	0
CO DENVER	59	29	62	24	44	15	0	-.1	0	.9	110	.2	67	56	21	0	6	0	0
GRAND JUNCTION	45	26	50	22	35	11	T	-.2	T	.9	89	.1	25	90	49	0	7	0	0
PUEBLO	61	25	69	19	43	14	0	-.1	0	.5	106	.3	150	85	21	0	6	0	0
CT BRIDGEPORT	39	19	54	4	30	1	0	-.7	0	2.3	41	1.0	50	78	46	0	6	0	0
HARTFORD	37	13	59	-1	25	0	0	-.8	0	2.4	38	1.1	52	87	44	0	6	0	0
DC WASHINGTON	46	26	66	17	36	1	1	-.6	T	.7	15	.1	6	85	39	0	6	1	0
FL APALACHICOLA	64	42	67	30	53	1	.1	-.6	.1	7.4	134	3.1	155	92	56	0	0	1	0
DAYTONA BEACH	68	45	76	36	57	-1	.1	-.4	.1	10.6	307	8.6	662	97	46	0	0	1	0
JACKSONVILLE	66	40	75	29	53	0	.1	-.7	.1	7.5	175	3.9	229	95	42	0	1	1	0
KEY WEST	71	61	76	53	66	-3	.2	-.2	.2	3.4	127	1.1	122	86	62	0	0	1	1
MIAMI	72	55	78	45	64	-3	.8	-.3	.8	9.0	296	5.5	458	85	48	0	0	0	0
ORLANDO	70	49	74	40	59	-1	.1	-.4	.1	10.5	349	7.0	636	91	47	0	0	1	0
TALLAHASSEE	66	33	72	22	50	1	.1	-1.0	.1	9.5	132	2.3	85	97	35	0	5	1	0
TAMPA	71	47	77	35	59	-1	.1	-.4	.1	3.2	97	2.1	175	94	45	0	0	1	0
WEST PALM BEACH	72	54	76	41	63	-2	.8	-.2	.4	7.7	202	6.3	420	91	50	0	0	2	0
GA ATLANTA	60	35	67	24	48	6	.4	-.7	.4	2.7	38	.4	14	75	38	0	4	1	1
AUGUSTA	62	31	71	21	46	1	.5	-.4	.5	2.6	48	1.0	43	89	38	0	5	1	0
MACON	62	33	71	24	48	2	.7	-.2	.7	4.5	69	1.5	63	90	40	0	5	1	1
SAVANNAH	63	37	73	27	50	1	.1	-.6	.1	6.1	68	1.1	61	89	42	0	2	1	0
HI HILO	79	63	85	61	71	0	T	-1.9	T	6.4	36	4.0	78	85	56	0	0	0	0
HONOLULU	82	64	84	59	73	0	T	-.9	T	.1	1	T	0	85	52	0	0	1	0
KAHULUI	80	61	82	55	70	-1	T	-1.0	T	1.4	28	.6	25	94	56	0	0	2	0
LIHUE	77	65	78	59	71	0	.2	-1.3	.1	.7	8	.2	5	88	65	0	0	0	0
ID BOISE	35	19	44	1	27	-3	.3	-.2	.2	2.0	87	.8	80	91	69	0	4	3	0
LEWISTON	47	34	54	28	41	10	T	-.3	T	.4	20	.1	11	80	47	0	0	0	0
POCATELLO	35	15	45	-2	25	2	.1	-.2	0	1.6	98	.4	57	90	66	0	5	3	0
IL CHICAGO	39	18	54	4	29	8	T	-.3	T	1.8	57	.3	30	87	55	0	6	0	0
MOLINE	41	22	53	14	32	13	T	-.4	T	2.4	82	.2	20	84	55	0	6	0	0
PEORIA	43	23	58	14	33	12	T	-.4	T	2.4	82	.2	20	86	53	0	6	0	0
QUINCY	47	25	63	16	36	13	T	-.3	T	2.5	96	.1	13	84	49	0	6	0	0
ROCKFORD	35	15	43	0	25	7	T	-.4	T	2.9	103	.6	67	96	72	0	6	0	0
SPRINGFIELD	45	26	62	17	35	11	T	-.4	T	2.5	83	0	0	83	48	0	5	0	0
IN EVANSVILLE	50	29	63	18	40	10	1.1	-.4	1.1	2.8	52	1.1	61	86	46	0	5	1	1
FORT WAYNE	40	24	51	11	32	9	.1	-.4	.1	2.9	78	.2	15	91	62	0	5	3	0
INDIANAPOLIS	43	25	57	13	34	9	.6	-.1	.4	3.9	85	.6	38	88	56	0	5	4	0
SOUTH BEND	38	22	51	11	30	7	.1	-.4	.1	2.8	63	.3	20	94	64	0	5	2	0
IA DES MOINES	43	25	53	16	34	16	0	-.2	0	1.4	89	.1	20	81	55	0	5	0	0
SIoux CITY	47	24	54	15	35	20	0	-.1	0	.6	56	.1	33	92	47	0	7	0	0
WATERLOO	37	18	43	7	27	14	0	-.1	0	1.5	93	.3	60	86	59	0	6	0	0
KS CONCORDIA	56	29	67	20	43	19	0	-.1	0	.4	40	0	0	78	28	0	6	0	0
DODGE CITY	61	29	67	25	45	16	0	-.1	0	.1	13	0	0	71	22	0	0	0	0
GOODLAND	59	27	69	22	43	16	0	-.1	0	.5	68	0	0	79	21	0	7	0	0
TOPEKA	54	26	64	19	40	15	0	-.2	0	.7	38	0	0	87	35	0	7	0	0
WICHITA	57	29	64	21	43	14	0	-.1	0	.6	43	T	0	87	31	0	5	0	0
KY BOWLING GREEN	54	30	64	18	42	9	.9	-.2	.9	2.6	36	.9	33	83	36	0	4	2	1
LEXINGTON	51	30	63	18	40	9	.1	-.8	.1	1.2	20	.1	5	77	35	0	4	2	0
LOUISVILLE	50	31	64	18	41	9	.6	-.2	.5	1.5	28	.6	30	81	39	0	4	2	1
LA ALEXANDRIA	65	39	69	30	52	0	T	-1.0	T	6.8	88	1.1	41	80	48	0	2	1	0
BATON ROUGE	66	39	70	29	53	3	.1	-.9	.1	6.0	77	1.3	50	94	41	0	2	1	0
LAKE CHARLES	67	41	69	32	54	3	.4	-.5	.4	5.2	69	1.5	60	99	50	0	1	1	0
NEW ORLEANS	65	39	69	30	52	0	.1	-1.2	.1	7.0	87	2.2	79	96	48	0	2	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending January 18, 1986

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		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	68	38	73	27	53	7	.2	-.7	.2	3.7	60	.3	13	89	44	0	4	2	0
ME CARIBOU	24	-1	40	-25	12	1	.1	-.5	T	4.2	92	2.0	133	79	54	0	7	7	0
PORTLAND	34	8	53	-8	21	0	.1	-.8	T	4.3	64	1.9	86	80	41	0	7	1	0
MD BALTIMORE	45	21	68	10	33	0	T	-.6	T	1.0	19	.1	6	82	36	0	6	6	0
SALISBURY	46	23	65	13	35	0	T	-.8	T	2.0	35	1.0	50	94	38	0	6	0	0
MA BOSTON	39	17	58	1	28	-2	T	-.9	T	2.1	31	.9	39	77	37	0	6	0	0
CHATHAM	36	21	46	1	28	-3	T	-1.0	T	2.4	31	.8	32	---	---	0	6	0	0
MI ALPENA	31	8	50	-7	20	2	.2	-.2	.1	3.4	114	.8	80	91	60	0	7	7	0
DETROIT	36	18	51	-2	27	4	.3	-.1	.1	2.2	59	.7	64	93	59	0	5	5	0
FLINT	35	16	49	-6	26	5	.6	-.3	.5	2.3	79	.9	100	90	53	0	5	5	0
GRAND RAPIDS	36	17	46	3	27	5	.2	-.3	.2	2.8	74	.8	67	94	65	0	5	3	1
HOUGHTON LAKE	31	18	44	4	24	7	.1	-.2	.1	2.8	99	.7	78	91	67	0	5	1	0
LANSING	36	13	49	-5	25	3	.1	-.3	.1	1.9	57	.6	55	94	64	0	5	3	0
MARQUETTE	29	12	43	9	21	5	.9	-.5	.4	5.3	144	1.3	108	97	72	0	5	7	0
MUSKEGON	37	19	46	3	28	9	.1	-.5	0	3.7	91	.7	50	94	64	0	5	3	0
SAULT STE. MARIE	26	5	40	-10	15	2	.5	0	.2	4.4	115	.9	69	94	65	0	5	2	0
MN ALEXANDRIA	33	15	41	6	24	19	.1	-.2	.1	1.5	118	.2	40	93	69	0	7	7	0
DULUTH	29	10	40	-8	19	14	.1	-.3	T	.9	43	.7	14	95	67	0	7	1	0
INT'L FALLS	25	8	34	-7	16	18	.1	-.1	T	.7	50	.2	40	95	72	0	7	2	0
MINNEAPOLIS	33	17	40	6	25	15	.1	-.2	T	1.4	99	.2	20	89	66	0	7	0	0
ROCHESTER	31	17	37	4	24	7	.1	-.2	T	1.3	99	.2	40	91	73	0	7	0	0
MS GREENWOOD	66	35	69	25	50	14	.5	-.7	.5	4.3	51	.5	16	84	32	0	5	1	0
JACKSON	66	33	72	24	50	5	0	-1.1	0	3.8	45	.2	7	94	34	0	5	0	0
MERIDIAN	64	31	69	22	48	7	.4	-.7	.4	5.1	59	.8	27	100	41	0	5	1	0
MO CAPE GIRARDEAU	54	30	62	18	42	13	.5	-.1	.5	2.2	40	.5	29	89	52	0	5	1	0
COLUMBIA	52	29	68	19	40	1	.1	-.3	.1	3.4	120	.1	11	86	40	0	4	1	0
KANSAS CITY	51	29	61	19	40	15	.1	-.2	T	1.3	61	0	0	85	41	0	5	1	0
SAINT LOUIS	52	33	68	22	42	14	.1	-.4	T	3.7	116	0	0	81	41	0	4	0	0
SPRINGFIELD	55	33	66	22	44	13	.1	-.3	T	3.2	90	.1	11	86	38	0	4	0	0
MT BILLINGS	51	30	58	23	41	21	.1	-.2	.1	.3	20	.1	17	56	25	0	5	1	0
GLASGOW	32	14	40	10	23	16	.1	-.1	T	7	115	.2	100	95	69	0	7	1	0
GREAT FALLS	52	32	58	28	42	25	T	-.3	T	.5	36	.2	17	62	28	0	7	0	0
HAVRE	43	29	48	24	36	26	.1	-.1	0	.2	18	0	0	87	59	0	5	0	0
HELENA	36	15	47	6	26	9	0	-.1	.1	.6	59	.2	50	96	60	0	6	1	0
KALISPELL	32	17	45	4	24	6	.3	-.1	.2	1.6	61	.9	90	96	73	0	7	2	0
MILES CITY	39	20	43	10	30	17	.1	0	.2	.9	93	.4	133	89	61	0	7	1	0
MISSOULA	32	15	42	5	23	3	.2	-.1	.1	.9	44	.5	56	97	71	0	7	3	0
NE GRAND ISLAND	53	23	60	18	38	18	0	0	0	.3	29	0	0	87	33	0	7	0	0
LINCOLN	53	23	64	13	38	19	0	-.1	0	.4	37	0	0	85	32	0	6	0	0
NORFOLK	50	27	57	16	38	22	0	-.1	0	.5	54	0	0	84	38	0	6	0	0
NORTH PLATTE	46	23	50	19	34	14	0	-.1	0	.8	130	0	0	93	50	0	7	0	0
OMAHA	49	28	58	17	38	20	0	-.1	0	.4	31	0	0	81	49	0	6	0	0
SCOTT'S BLUFF	46	23	51	16	35	11	0	-.1	0	1.2	143	0	0	91	48	0	7	1	0
VALENTINE	39	20	43	9	29	11	T	-.1	T	.3	56	0	0	81	64	0	7	0	0
NV ELY	49	25	54	18	37	13	T	-.1	T	.6	51	0	0	86	46	0	7	0	0
LAS VEGAS	64	40	71	38	52	8	.1	-.1	.1	.1	18	.1	50	72	34	0	0	2	0
RENO	52	31	57	24	41	9	.1	-.2	0	.9	48	.4	57	90	44	0	4	2	0
WINNEMUCCA	49	34	57	29	42	12	.1	-.1	.1	1.1	79	.3	60	89	51	0	4	2	0
NH CONCORD	34	2	55	-14	18	-2	T	-.6	T	3.0	59	1.3	81	86	43	0	7	0	0
NJ ATLANTIC CITY	44	19	67	5	31	-1	T	-.8	T	1.7	30	.7	35	85	38	0	6	0	0
NM ALBUQUERQUE	56	28	59	24	42	7	0	-.1	0	.4	46	.2	67	79	31	0	7	0	0
CLOVIS	60	31	64	27	45	8	0	-.1	0	.2	17	T	0	64	22	0	4	0	0
ROSWELL	64	31	71	27	48	7	0	0	0	.4	100	.3	300	86	24	0	0	0	0
NY ALBANY	32	8	52	-5	20	-1	T	-.5	T	2.5	56	.5	33	88	48	0	5	7	0
BINGHAMTON	31	14	49	-7	23	2	T	-.6	T	2.4	54	.2	13	78	53	0	6	1	0
BUFFALO	35	20	50	-3	28	4	T	-.3	T	1.5	28	.9	50	60	34	0	6	0	0
NEW YORK	41	23	62	7	32	0	.4	-.7	.2	6.2	118	1.3	72	87	58	0	5	5	0
ROCHESTER	34	16	54	-4	25	2	.2	-.3	.1	2.7	70	.7	54	88	55	0	5	3	0
SYRACUSE	33	12	54	-11	22	-1	.1	-.5	.1	2.3	49	.5	33	83	54	0	5	1	0
NC ASHEVILLE	55	23	62	13	39	3	.6	-.1	.6	1.3	24	.6	30	87	36	0	5	1	1
CHARLOTTE	55	26	66	17	40	0	.5	-.3	.5	1.5	26	.5	23	80	40	0	5	1	1
GREENSBORO	53	27	64	20	40	3	.2	-.6	.2	1.7	31	.2	10	76	39	0	5	1	0
HATTERAS	53	32	68	22	43	-2	.6	-.5	.6	1.7	24	1.1	41	88	47	0	4	1	1
NEW BERN	58	30	72	23	44	0	T	-.9	T	.8	13	.2	9	80	28	0	5	1	0
RALEIGH	53	31	64	22	42	3	T	-.8	T	1.0	19	.2	10	76	38	0	5	1	0
WILMINGTON	59	32	73	25	45	0	T	-.8	T	1.6	30	.3	14	82	35	0	5	0	0
ND BISMARCK	37	16	42	10	27	21	.1	-.1	.1	.6	63	.2	50	98	66	0	7	1	0
FARGO	31	14	37	6	23	20	.2	0	.1	.8	81	.2	50	93	74	0	7	3	0
GRAND FORKS	32	12	38	5	22	21	T	-.2	T	.5	41	.2	40	95	78	0	7	1	0
WILLISTON	37	18	40	12	28	22	T	-.1	T	.9	111	.3	100	95	67	0	7	1	0
OH AKRON-CANTON	37	21	54	1	29	4	.4	-.2	.2	3.4	81	.6	40	94	60	0	5	5	0
CINCINNATI	46	28	59	14	37	8	.4	-.3	.3	2.0	41	.5	28	83	42	0	5	2	0
CLEVELAND	37	21	53	1	29	4	.3	-.3	.1	3.1	74	.5	36	92	60	0	5	5	0
COLUMBUS	43	26	55	13	35	8	.4	-.2	.3	2.3	54	.5	31	92	50	0	5	4	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending January 18, 1986

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		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	43	26	55	13	34	8	.9	-.2	.7	3.1	76	.9	60	89	49	0	5	3	1
TOLEDO	38	20	52	2	29	6	.2	-.3	.1	2.0	52	.4	33	92	61	0	5	5	0
YOUNGSTOWN	37	20	55	-5	28	4	.1	-.5	.1	2.3	51	.2	13	91	55	0	5	3	0
OK OKLAHOMA CITY	61	37	67	26	49	14	0	-.2	0	.3	15	0	0	81	35	0	2	0	0
TULSA	61	39	67	27	50	16	0	-.3	0	1.4	53	0	0	80	26	0	0	0	0
OR ASTORIA	56	43	61	37	49	9	4.6	2.0	1.7	10.6	58	7.9	116	93	60	0	0	6	3
BURNS	—	8	-999	8	—	—	0	-.1	0	.9	74	.2	50	—	—	0	1	0	0
MEDFORD	57	39	65	33	48	11	.9	.2	.8	2.1	38	1.3	62	96	49	0	0	3	1
PENDLETON	41	30	63	23	35	3	.1	-.3	.1	1.9	71	.7	64	93	71	0	4	2	0
PORTLAND	50	36	63	32	43	5	1.4	-.1	.5	5.3	52	3.1	84	97	62	0	4	4	0
SALEM	51	38	63	29	45	6	1.8	.1	.7	6.3	56	3.8	88	98	72	0	1	1	0
PA ALLENTOWN	40	15	62	4	27	0	T	-.8	T	2.0	35	.3	15	74	38	0	7	1	0
ERIE	38	22	52	-1	30	5	T	-.3	T	3.4	71	.6	40	84	52	0	5	4	0
HARRISBURG	40	18	60	10	29	0	T	-.7	T	1.4	27	0	0	75	40	0	7	0	0
PHILADELPHIA	42	20	63	1	31	0	T	-.7	T	1.7	32	.8	42	80	41	0	6	1	0
PITTSBURGH	41	21	59	1	31	4	T	-.5	T	2.6	61	.3	18	82	47	0	5	4	0
SCRANTON	36	16	53	0	26	1	T	-.5	T	2.0	51	-.1	7	77	46	0	6	1	0
RI PROVIDENCE	41	15	61	1	28	0	0	-.9	0	2.6	38	1.2	50	79	32	0	6	0	0
SC CHARLESTON	61	36	73	25	49	1	0	-.7	0	2.2	43	.9	47	90	42	0	2	0	0
COLUMBIA	61	29	70	19	45	1	.2	-.8	.2	1.1	19	.3	12	91	32	0	5	1	0
FLORENCE	61	32	73	18	47	2	T	-.8	T	.9	19	0	0	89	40	0	5	1	0
GREENVILLE	57	29	67	18	43	2	.5	-.4	.5	2.0	31	.5	21	77	34	0	5	1	0
SD ABERDEEN	34	14	40	6	24	17	T	-.1	T	.6	91	.1	50	96	75	0	7	0	0
HURON	35	16	40	8	26	16	T	-.1	T	.9	121	.2	100	89	68	0	7	0	0
RAPID CITY	43	24	50	18	34	14	0	-.1	0	.9	148	.2	100	84	46	0	7	0	0
STOUX FALLS	37	19	42	10	28	17	0	-.1	0	.7	76	.3	150	91	67	0	7	0	0
TN CHATTANOOGA	58	27	64	19	43	5	.2	-1.0	.2	2.6	31	.2	6	92	38	0	5	1	0
KNOXVILLE	55	22	64	14	39	1	.2	-.9	.2	2.5	35	.2	7	90	36	0	3	1	0
MEMPHIS	59	38	66	26	48	9	.6	-.5	.5	3.8	51	.6	22	76	38	0	6	2	1
NASHVILLE	58	31	68	21	45	8	.1	-.9	.1	1.1	15	.1	4	78	33	0	5	1	0
TX ABILENE	67	38	73	25	53	10	T	-.2	T	.3	3	0	0	69	27	0	1	0	0
AMARILLO	62	30	67	25	46	11	0	-.1	0	.3	36	0	0	67	19	0	5	0	0
AUSTIN	70	46	73	34	58	9	.1	-.2	.1	1.5	53	.5	63	82	44	0	0	2	0
BEAUMONT	67	41	71	31	54	3	.3	-.7	.3	4.0	57	1.1	46	98	50	0	2	0	0
BROWNSVILLE	74	47	80	36	61	1	.2	-.1	.2	1.5	82	1.1	157	98	46	0	0	1	0
CORPUS CHRISTI	72	45	76	35	59	3	.2	-.2	.2	3.3	144	1.7	189	96	46	0	0	1	0
DEL RIO	68	42	76	34	55	4	.1	0	.1	1.7	223	1.7	850	87	39	0	0	2	0
EL PASO	63	26	68	18	45	1	0	-.1	0	.1	11	0	0	71	23	0	6	0	0
FORT WORTH	67	.9	71	32	53	10	T	-.4	T	.6	23	0	0	85	40	0	3	0	0
GALVESTON	66	50	69	41	58	5	.5	-.2	.5	3.9	72	1.4	78	89	54	0	0	1	0
HOUSTON	70	43	73	32	56	5	.1	-.6	.1	4.6	84	.8	44	86	46	0	0	2	0
LUBBOCK	64	30	69	25	47	9	0	-.1	0	.3	30	0	0	71	21	0	4	0	0
MIDLAND	66	33	70	25	49	6	0	-.1	0	.3	44	.2	100	82	26	0	3	0	0
SAN ANGELO	69	35	73	26	52	7	0	-.1	0	.3	31	.3	75	87	27	0	3	0	0
SAN ANTONIO	70	41	75	31	56	6	.1	-.2	.1	.9	40	.8	100	86	40	0	0	1	0
VICTORIA	72	45	76	36	59	6	.3	-.1	.3	3.5	110	1.1	110	92	44	0	2	0	0
WACO	69	40	72	30	54	8	.1	-.3	.1	2.1	74	.1	11	87	47	0	2	1	0
WICHITA FALLS	66	35	68	25	51	11	0	-.2	0	.1	6	0	0	79	31	0	2	0	0
UT BLANDING	47	24	53	23	36	9	.1	-.2	.1	.1	6	.1	13	90	59	0	7	1	0
CEDAR CITY	53	25	58	19	39	10	T	-.1	T	.5	47	.1	25	94	45	0	6	0	0
SALT LAKE CITY	35	24	45	18	30	2	.1	-.2	0	1.7	82	.3	43	92	70	0	6	3	0
VT BURLINGTON	29	6	49	-12	18	1	.1	-.4	.1	2.0	56	.4	36	79	48	0	7	1	0
VA NORFOLK	51	30	69	22	41	1	T	-.8	T	1.4	26	.5	23	83	38	0	5	1	0
RICHMOND	52	26	69	18	39	3	.1	-.7	.1	.7	14	.2	11	85	38	0	6	1	0
ROANOKE	52	26	63	18	39	4	T	-.6	T	.9	19	0	0	73	34	0	5	0	0
WA COLVILLE	55	27	43	20	31	7	1.1	-.6	.5	2.6	69	1.9	136	97	85	0	4	4	1
QUILLAYUTE	53	42	65	39	48	9	5.2	1.8	3.0	15.4	61	11.8	131	99	73	0	0	6	3
SEATTLE-TACOMA	53	39	59	33	46	7	4.1	2.7	3.2	8.3	84	6.5	181	92	60	0	0	5	1
SPOKANE	38	26	44	14	32	7	.7	-.2	.4	2.2	56	1.5	107	94	71	0	5	3	0
YAKIMA	38	23	53	13	31	3	.6	-.2	.2	2.1	97	1.1	122	100	74	0	3	3	0
WV BECKLEY	45	26	58	10	35	5	.1	-.7	.1	1.9	36	.2	10	75	34	0	5	4	0
CHARLESTON	52	26	67	13	39	6	.1	-.7	.1	2.9	54	.2	10	74	34	0	4	4	0
HUNTINGTON	51	29	64	15	40	8	.3	-.5	.1	2.4	47	.3	16	79	38	0	4	3	0
PARKERSBURG	47	26	63	11	36	6	.1	-.8	0	2.0	41	.2	10	86	45	0	4	2	0
WI GREEN BAY	32	12	41	1	22	9	T	-.3	T	2.2	104	.4	57	89	63	0	7	1	0
LA CROSSE	35	15	44	5	25	12	T	-.2	T	1.2	71	0	0	88	63	0	7	0	0
MADISON	33	10	41	-1	22	7	T	-.3	T	3.0	131	.6	86	91	60	0	7	1	0
MILWAUKEE	35	18	46	5	27	9	T	-.3	T	3.2	107	.7	70	88	62	0	5	1	0
WAUSAU	32	13	43	0	23	12	T	-.2	T	1.3	73	.1	20	89	61	0	7	0	0
WY CASPER	43	27	45	21	35	13	0	-.1	0	1.3	172	.2	100	70	45	0	7	0	0
CHEYENNE	.71	29	54	25	40	15	0	-.1	0	.9	144	.1	33	60	25	0	5	0	0
LANDER	32	11	48	2	22	3	0	-.1	0	1.9	249	.2	100	85	55	0	7	0	0
SHERIDAN	49	25	58	21	37	18	T	-.1	T	.4	42	.1	25	83	39	0	6	1	0
PR SAN JUAN	83	69	86	66	76	-1	.5	-.2	.2	4.7	74	2.6	137	95	59	0	0	4	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

HEATING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 1-18-1986
ACCUMULATIONS ARE FROM JULY 1
\*\* = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM, CUM CUM, CUM CUM, CUM CUM, CUM CUM, STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM, CUM CUM, CUM CUM, CUM CUM, CUM CUM. It lists weather data for various cities across the United States, including Birmingham, Mobile, Montgomery, and others.

## National Agricultural Summary

January 12 to 18, 1986

**HIGHLIGHTS:** Unusual warmth across most of the Nation eased livestock stress and allowed small grain growth in the southern half of the Nation. However, even with the warm temperatures, the lack of moisture limited small grain growth in most areas. Wheat was mostly fair to good, but limited snow cover or no snow cover left wheat unprotected from cold weather from the Central Plains southward. The mild weather allowed farmers to continue row crop harvest in most areas. Precipitation was sparse during the week, leaving most areas a little short on moisture.

Cotton harvest neared end in Texas and Oklahoma. A few fields remained to be harvested in Arizona and California. Land preparation was active in the Southeast. Vegetable and citrus harvest continued active in the West and in Florida. Florida vegetable growers received frost in the Everglades and southwest, but damage was minimal. Livestock were mostly good. The warm temperatures eased supplemental feeding and opened some areas in the northern States for grazing. Farmers welcomed the easing of supplemental feeding, but hay shortages are becoming more pronounced as winter progresses.

**SMALL GRAINS:** Winter wheat was fair to good. Warm temperature promoted growth across the southern half of the Nation, but the lack of moisture was the major factor limiting growth. Wheat and other small grains lacked snow cover as far north as Nebraska. Winter damage has been minimal thus far, as temperatures have remained above normal. Texas' wheat was mostly fair to good. Small grains responded well to warm temperatures but a good rain would benefit fields in most areas of the State. Farmers were side-dressing nitrogen in the Blacklands. Wheat was good in Oklahoma, but alfalfa weevil and greenbugs were observed in some wheat. Soil moisture was adequate and abnormally-warm temperatures benefited wheat. Kansas wheat started greening in some areas. Producers began early applications of fertilizer on wheat. In Nebraska, warm weather melted snow, but more moisture would be beneficial to wheat. The crop was mostly good, but more snow will be needed for protection when the cold weather returns. Some wheat in North Dakota was exposed as snow melt continued.

**OTHER CROPS:** Cotton harvest neared completion in Texas and Oklahoma. Texas harvest was 99 percent (%) complete compared with 97% normally. In Arizona and California, a few fields of cotton remained to be harvested.

Corn and soybean harvest progressed with the mild weather. Michigan producers finished corn harvest, but a few soybeans were still in the field. North Carolina's soybeans were 99%

harvested. South Dakota's corn harvest was 92% complete. Normally, the crop would have been harvested by now. In Wisconsin, corn harvest was 16 points behind normal at 80% completion. However, the remaining corn was standing well in fields.

Kentucky's burley tobacco markets closed, because dry conditions prevented stripping. Tobacco seedbed preparation was active throughout the Southeast. Tobacco plants in Georgia were in good conditions, and land preparation continued in Georgia and Florida.

**FRUIT AND NUTS:** Florida's citrus groves were good. There was very little new growth, and moisture was adequate in most areas. Most irrigation pumps were idle this past week. Harvest was active with most of the fruit going for processing. Texas citrus harvest was over with the exception of a few Valencia oranges. Arizona citrus harvest consisted of lemons, tangerines, grapefruit, and Navel oranges. Valencia orange harvest is expected to start the last week of January. California desert area citrus harvest continued. Fruit droppage was still prevalent in some San Joaquin Navel orange orchards. Lemons were picked in the San Joaquin Valley, and tangerine harvest is expected to begin next week. Early almond blooms were present in San Luis Obispo County, and bud swelling was observed in other areas. Rain delayed some orchard cleanup and spraying.

**VEGETABLES:** Frost caused no significant damage to vegetables in the Everglades and Southwest areas of Florida. Drier weather improved field conditions in most areas. Tomato production increased in Dade County. Strawberry volume was below normal but quality was mostly good. Spring vegetable planting was active in southern Florida. Wet fields hampered vegetable harvest in the San Antonio-Winter Garden area of Texas. Carrots, cabbage, cauliflower, broccoli, and celery were harvested in the Rio Grande Valley. Lettuce, asparagus, broccoli, cauliflower, and mixed vegetables were shipped from Yuma, Arizona. Central Valley vegetable producers picked cauliflower, broccoli, Romaine lettuce, carrots, beets, green onions, and mixed vegetables. Lettuce harvest was heavy in California's Imperial Valley while low demand slowed harvest in the Palo Verde Valley. Broccoli harvest was fairly light in Salinas and moderate in Santa Maria. Carrot harvest increased in the Coachella and Imperial Valleys.

**PASTURES AND LIVESTOCK:** Warm weather eased livestock stress and supplemental feeding. Livestock were mostly good. Melting snow allowed grazing in some Northern States. Hay shortages were becoming more widespread.

## 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 between 0.33 to 0.66 in. over north, 0.25 in. or less elsewhere. Temperatures averaged 3 to 5° above normal. Soil moisture normal throughout State. Livestock, poultry generally good.

**ARIZONA:** Weak storm system 14th, 15th. Moisture varied from traces to 0.02 in., with snow level 7,000 to 8,000 ft. Sunny, warm days and clear, mild nights rest of week. Average temperatures varied from 3 to 10° above seasonal normals.

Cotton harvested 99%; plowdown, stalk shredding continued. Alfalfa fair to good condition. Harvest light, sheep grazing continued. Leaf spot fungus, aphid infestations central area not considered severe. Corn harvested west. Wheat, barley seeding 80%, 75%, 85% avg. Stands good to excellent condition. Lemons, tangerines, grapefruit, Navel oranges picked. Valencia harvest may start 27th. Pecan harvest virtually completed. Lettuce, asparagus, broccoli, cauliflower, mixed vegetables shipped from Yuma. Cauliflower, broccoli, Romaine, carrots, beets, green onions, mixed vegetables shipped from Central Valley. Rapini harvested Eloy-Marana district. Dry onion crop progressed. Potato planting active.

**ARKANSAS:** Unseasonably mild and dry with some precipitation northern sections late week. Temperature extremes 19°; 73°. Rainfall none to 1.05 in.

Wheat and oats fair condition. Rain needed. Pasture rated average. Livestock condition average.

**CALIFORNIA:** Week quite mild across State with temperature averages well above normal many locations. Northeast corner of State, Alturas 13° above normal. Thermal's weekly high 85°. Rainfall very heavy northwest zone, Ukiah received 4.63 in. for week. Locations south recorded little to no rainfall.

Growth of small grains hampered by foggy weather, cool temperatures and lack of moisture. Spraying small grains and alfalfa to control broadleaf weed active as weather permitted. Herbicides being applied for next year's crops. Wet conditions prevented harvest and tillage of a few cotton fields. Pruning, brush clearance and spraying major activities northern areas. Recent rains delayed some orchard cleanup and spraying. Haas, Fuerte avocados harvested south good quality. Desert areas citrus harvest continued. Fruit droppage continued San Joaquin Navel orange orchards, ranging from none to 40%. No serious damage to Navels from earlier frost, fruit quality good. San Joaquin Valley lemon harvest continued, tangerine harvest expected next week. Early almond bloom noted San Luis Obispo County, bud swelling observed other areas. Digging for nurse stock continued Sacramento Valley. Artichokes moderate Salinas. Quality good, frosted appearance. Asparagus increased desert. Broccoli fairly light Salinas, moderate Santa Maria variable quality. Harvest continued San Joaquin, Palo Verde Valleys. Carrot increased Coachella, Imperial Valleys. Cauliflower fairly heavy Coachella, Imperial Valleys. Harvest active San Joaquin. Cauliflower finished Salinas. Celery Santa Maria light, variable quality. More harvesting done desert, south coast. Lettuce very heavy Imperial Valley improved quality, while slow

Palo Verde, light demand. Fall potato storages Tulelake-Butte Valley operating full time low demand. Shipments behind last year. White Rose, Red potato continued Hemet-San Jacinto. Fall bedded tomato ground San Joaquin Valley being sprayed weed control. Ranges improved warmer weather. More moisture needed sustain growth. Stock ponds continued low or empty. Supplemental feeding continued heavy northern, central districts. Calving, lambing remain active.

**COLORADO:** Generally dry condition reported over State during period. Precipitation sparse some areas of eastern Plains have high rangeland fire danger index. Few snow showers north and central mountains but only trace amounts of precipitation statewide. Temperatures mostly above normal most locations. Average temperatures 10 to 15° above normal.

Some drying of topsoil, areas with no snow cover due to warm weather and winds. Major activities care and feeding of livestock.

**FLORIDA:** Few light showers lower east coast, 13th. Cold, dry 14th to 16th; freeze north, scattered to patchy frost central, northern Everglades morning of 14th. Patchy frost again central, northern Everglades 15th. Showers returned late week. Rain amounts generally light, under 1.10 in. except for isolated amounts of 1.00 to 3.00 in. few farming areas lower east coast. Temperatures averaged 4 to 6° below normal north and central, 1 to 3° below normal south.

Soil moisture surplus much of northern Peninsula and a few mostly coastal Panhandle areas; adequate elsewhere. Winter grazing crops growing well following heavy rains of a week earlier. Some additional rainfall during week. Rains slowed land preparation for planting spring crops some areas but fieldwork increased as soils permit. Sugarcane harvest resumed rapidly after fields dried from heavy rains previous week. Weather favorable for improvement of winter pastures, forage production. Grazing conditions varied from very poor to good depending upon localities, but continue predominately fair north, fair to good Lower Peninsula. Cattle, calves fair to good. Citrus trees good condition. Very little new growth. Moisture adequate most areas, very little irrigation. Harvest active, mostly for processing. Some frost Everglades and southwest resulted little or no damage to vegetables. Temperatures overnight 30s and 40s midweek moderate by weekend with light rain, overcast skies. Winds mostly light to moderate. Field conditions generally improved most areas with drier weather. Good supply most crops southern areas. Tomato production increasing Dade County. Size mostly heavy. Strawberry harvest active, volume below normal, quality mostly good. Planting for spring vegetable harvest active southern areas.

**GEORGIA:** Temperatures low 40s mountains, mid and upper 40s north, near 50 central and low 50s south. Averaged 4° above normal. Extremes 74° on 17th, 19th; 11° on 14th. Rainfall near 0.50 in. north, 0.33 in. central under 0.25 in. south. Totals up to 1.50 in. at few east central locations. Rain on one day most locations.

Soil moisture short north, north central; adequate southeast, southwest; surplus central. Land preparation delayed central, active most

other areas. Small grains improved, mostly fair to good. Tobacco plants good condition. Pastures poor to mostly fair. Cattle mostly fair to good. Hogs good.

**HAWAII:** Crops made fair progress under generally dry conditions. Island sunny during beginning of week with northeasterly winds 10 to 20 mph. Some areas experienced light rainfall and cloudy conditions toward end of week as winds turned southerly and diminished slightly. Cool night temperatures continued to slow crop growth and maturity. Banana and papaya orchards fair to good condition. Active harvesting of bananas continued. Papaya production on an upturn. Vegetable output low to moderate.

**IDAHO:** After cool first half of week southern sections of State warmed into seasonal norms. Northern portions of State remained above normal throughout week. Precipitation generally below normal for week statewide; however, spot location central and north reported close to 1.00 in.

Farm maintenance, livestock care, machinery repair, financial preparation for coming year underway. Calving, lambing continued. Freeze-damaged potatoes continue to be culled from storage. Livestock fair to good. Adequate feed supply most areas; some spot shortages north and east.

**ILLINOIS:** Temperatures 5 to 15° above normal. Precipitation 0.30 to 0.60 in. below normal. Light amounts southeast.

Soil moisture 5% short, 78% adequate, 17% surplus. Winter wheat 4% poor, 32% fair, 59% good, 5% excellent; very little snow cover. Livestock mostly good. Hay supplies adequate.

**INDIANA:** Temperatures mild averaging 6 to 10° above normal. Precipitation variable. Totals from none to 0.30 in. north to 0.75 to 1.25 in. south.

Corn and soybean harvesting continued early period but mild weather caused fields to become muddy later. Activities: Spreading lime, fertilizer, and manure, cutting wood, getting equipment ready for 1986 season, attending farm sales, caring for livestock and usual chores. Little snow cover remains for protection of overwintering crops, but temperatures remain mild.

**IOWA:** Warm, dry week. Temperatures averaged about 15° above normal. Warmest 17th, 58° Burlington, 57° Shenandoah. Coolest 15th, 8° Waterloo, Dubuque. Snow cover diminished to about 6 in. northeast, diminishing to little or none south half State and west central.

Late row crop harvesting continued. Livestock mostly good. Farmers doing bookkeeping.

**KANSAS:** Local traces to few hundredths inch precipitation east; otherwise, no precipitation. Temperatures averaged 43 to 46°, ranging 13 to 19° above normal. Common lows, mid 30s to lower 40s central and east. Highs 50s, 60s to 70s.

Wheat starting to green some areas. If temperatures gradually turn colder wheat will rehardens. Extremely low temperatures could subject wheat to freeze damage. Late planted fields with little growth and root system subject to damage from freezing and soil blowing because of dry surface. Some early application fertilizer on wheat. Weather favorable early lambing, calving.

**KENTUCKY:** Widespread rain latter part of week. Rainfall averaged 0.75 to 1.00 in. with most west. Normal precipitation for week about 1.00 in. Mean temperatures upper 30s and lower 40s. High temperatures 60s and lows from 10 to 20°.

Burley markets closed 14th as remaining burley too dry to strip. Moisture received over weekend, and higher humidity brought some burley into order. First significant moisture this year. Field activity minimal, but warm weather brings talk of an early spring.

**LOUISIANA:** Temperatures averaged 20° below normal to 40° above normal. Temperature extremes 24°; 73°. Rain totals averaged none to 0.20 in.

Main activities: Winter chores, caring for livestock.

**MARYLAND & DELAWARE:** Maryland: Temperatures averaged 20° below normal over State; lowest temperatures -5° Oakland; highest temperature 62° Hancock. Precipitation averaged 0.06 in., ranging from a trace to 0.70 in.

Fieldwork 4.0 days suitable. Soil moisture adequate north, adequate to dry south. Small grains fair. Farmers main activities; equipment maintenance, soil testing, hauling manure, attending trade meetings, stripping tobacco, making tobacco beds, cleaning chicken houses, cutting firewood.

Delaware: Temperatures averaged 30° below normal over State; lowest temperature 9° Georgetown; highest temperatures 54° Milford. Trace rainfall.

Fieldwork 4.0 days suitable. Soil moisture adequate. Small grains fair. Farmers main activities; equipment maintenance, soil testing, manure hauling, attending trade meetings, cleaning chicken houses, cutting firewood.

**MICHIGAN:** Average temperatures, very moderate precipitation. Temperature averaged 7° above normal. Highs ranged between lower 50s and mid 40s while lows ranged from 12° below to 11° above.

Corn 96% harvested, 100% 1984, 100% avg. Soybeans 98% harvested, 100% 1984, 100% avg. Soybeans, corn harvest continuing. Major farm activities include hauling manure, marketing corn, attending farm meetings, pruning of grape vines and apple trees. Livestock good condition. Feed supplies adequate. Snow cover remains over northern lower Peninsula. Southern lower Peninsula small grain fields remain good condition, but have some water standing low lying areas due to melting snow.

**MINNESOTA:** Snow continued to melt as temperatures remained well above normal. Temperatures averaged 14 to 20° above normal. Temperature extremes -8°; 48°. Precipitation averaged 0.06 to 0.22 in. below normal. Snow depth weekend averaged 3 to 13 in.

Minimal fieldwork done. Livestock condition good; feed requirements down as weather mild. Snow cover thin, but still protecting most fields of hay and winter grain.

**MISSISSIPPI:** Average temperatures 5° above normal. Extremes 19°; 74°. Light rain late week, greatest amount 0.75 in.

Fieldwork 6.1 days suitable. Soil moisture adequate to short. Main activities: Soil preparation, livestock feeding, farm planning. Wheat, pasture good to fair. Livestock good. Supplies of hay and feed grain adequate.

**MISSOURI:** Temperatures averaged 13° above normal. Precipitation averaged less than 0.10 in. across southern half.

Warm weather has kept livestock mostly good condition. Feeding minimum level.

**MONTANA:** Very mild statewide. Temperatures 20 to 25° above normal central portions, with gusty winds. Eastern area temperatures averaged about

150 above normal. Temperatures 100 above normal southwest, 50 above normal west. Precipitation moderate to heavy west, light to moderate southwest and south central, dry elsewhere.

Mild weather reduced livestock feed requirements and opened areas to grazing. Snow cover protection reduced on winter wheat fields. Snow cover protection 36% poor, 14% fair, 45% good, 5% excellent. Wind damage to winter wheat 10% none, 78% light, 12% moderate. Winter wheat 66% fair, 34% good. Cattle 43% fair, 57% good; sheep 25% fair, 75% good. Hay, roughage supplies 80% short, 20% adequate.

**NEBRASKA:** Very mild, dry. Average temperatures ranged from 12 to 23° above normal. Little or no precipitation across State.

Wheat mostly good. Warmer weather continued snow melt. More moisture would be beneficial to crop. Will need more snow for protection when cold returns. General chores, livestock care, drying and storing of grain continued. Ranchers areas of Panhandle and north central facing hay shortage.

**NEVADA:** Week started sunny with mild temperatures all areas. Fair weather started to erode close of period with a series of warm storms bringing some precipitation most areas. Heaviest precipitation experienced extreme west. Snow accumulated above 8,000 ft. level Sierras. Unusual dense fog extreme south. Temperatures much above normal all sections. Extremes -90; 76°.

Winter grains greened up due to unseasonably warm weather. Sunny, warm temperatures decreased feeding requirements livestock.

**NEW ENGLAND:** Very dry week. No precipitation across southern New Hampshire, eastern Massachusetts and all of Rhode Island, Connecticut, elsewhere, 0.01 to 0.08 in. Temperatures near normal across northern areas of Maine, New Hampshire, Vermont; between 2 to 5° below elsewhere. Temperatures fluctuated greatly with first half of week much below normal, then above normal with a true January thaw over weekend.

Activities included preparing taxes, record keeping, moving apples, potatoes from storage, normal winter farm work. Livestock good condition.

**NEW JERSEY:** Temperatures near normal, averaging 28° north, 33° south, 35° coastal. Extremes 0°; 68°. Precipitation near normal north and below normal south and coastal, averaging 0.76 in. north, 0.47 in. south, 0.38 in. coastal. Heaviest 24-hour total 0.96 in. on 19th, 20th. Trace amounts of snowfall reported numerous locations 13th, 14th.

Fall sown grains generally good. Freezing, thawing causing some alfalfa heaving. Farmers repairing machinery, cutting firewood, caring for livestock tending to normal winter chores.

**NEW MEXICO:** Average weekly temperatures 15° above normal northeast, 8° above normal northwest and southeast, 3° above normal southwest. Meager snow northern mountains.

Days suitable for fieldwork 6.8. Soil moisture 74% short, 26% adequate. Barley 50% fair, 50% good. Irrigated wheat 15% poor, 23% fair, 62% good. Dryland wheat 17% poor, 50% fair, 33% good. Pecans 50% fair, 50% good; harvest virtually completed. Lettuce planting underway. Onion planting continued. Cattle 42% fair, 58% good. Sheep 31% fair, 69% good. Range 21% poor, 63% fair, 16% good.

**NEW YORK:** Temperatures averaged around or a little below normal; averaged teens north, low to mid 20s much of central and southern areas, around

300 New York City and on Long Island. Week began and ended mild, but very cold temperatures middle of week. Precipitation generally well below normal, with less than 0.25 in. most areas. Most of precipitation beginning of week.

Some corn still standing due to rain and snow since November. Feed supplies adequate. Cows milking well. Other farm activities included tending livestock, chopping wood, routine farm chores.

**NORTH CAROLINA:** Temperatures averaged very near normal, except Coastal Plain Region 2 to 40 below normal. Rainfall ranged from none to 0.50 in. across State.

Days suitable for fieldwork 5.9. Soil moisture 11% very short, 57% short, 32% adequate. Condition: Pasture 20% poor, 56% fair, 24% good. Wheat 3% poor, 53% fair, 44% good. Oats 2% poor, 51% fair, 47% good. Barley 5% poor, 47% fair, 48% good. Rye 2% poor, 52% fair, 46% good. Harvest: Soybeans 99%, 100% 1984, 100% avg. Farm feed supplies: Hay and roughage 1% short, 95% adequate, 4% surplus. Feed grains 3% short, 92% adequate, 5% surplus. Major farm activities: Harvesting soybeans, preparing tobacco plantbeds, tending livestock, tillage operations, cutting firewood, machinery repair, cleaning ditch banks, pruning fruit trees, conservation work, mowing, general farm maintenance.

**NORTH DAKOTA:** Warm, relatively dry. Temperatures averaged 19 to 24° above normal. High temperature 47° northeast 12th. East central reported 4° above zero 14th for week's low. Below normal precipitation across State. Most precipitation fell as an uncommon rainstorm late week. Central region received 0.19 in. of rain.

Warmer weather has given livestock a short break from seasonal cold temperatures. Feed supplies west short. Snow melting from warmer weather exposed some winter dormant crops to future weather.

**OHIO:** Temperatures averaged 5 to 8° above normal. Highs averaging upper 30s to mid 40s; lows upper teens to upper 20s. Precipitation above normal. Water equivalent 0.33 northwest to over 1.00 in. central south.

Very little snow cover major wheat producing areas. No stress on livestock.

**OKLAHOMA:** Temperatures averaged 10° above normal west central and south central to 12° above normal Panhandle, north central, northeast, and east central. Precipitation averaged none most areas to 0.10 in. southeast.

Abnormally warm temperatures benefit wheat, hay, livestock. Lingering warmth followed by cold could damage fruits, vegetables, alfalfa. Wheat good condition. Soil moisture still adequate. Greenbugs, alfalfa weevil observed wheat fields. Little cotton acreage remains unharvested. Cattle prices down slightly from previous week.

**OREGON:** Entire State higher than normal temperatures. Greatest departures from normal southwestern sections up to 10° above normal. Rest of State ranged from 2 to 9° above normal. Heaviest precipitation 4.00 in. or more northwest corner of State. Willamette Valley received an average of 1.50 in.; elsewhere precipitation well below 1.00 in.

Snow continued to cover most east. Willamette Valley grass seed and clover fields look poor due to frost or heaving damage, most will likely recover as warm weather continued to encourage growth. Other than some canebrary pruning, very little activity on fruits and vegetables. Some movement of onions and potatoes out of storage. Livestock generally good. Western pastures remain mostly dormant. Hay short supply statewide.

**PENNSYLVANIA:** Temperatures began on mild side. Turned very cold during midweek then became very mild weekend. Weekly average temperature 28°, 2° above normal. Highest temperature 66° Biglerville, lowest 8° Montrose. Another dry week. Precipitation averaged 0.12 in., 0.53 in. below normal.

Activities for week included: Attending Pennsylvania State farm show, performing normal winter chores.

**PUERTO RICO:** Island average rainfall 0.20 in., 0.46 in. below normal. Highest weekly total 2.22 in. Highest 24-hour total 1.42 in. Temperatures averaged about 75 to 76° on coasts and 69 to 70° Interior Divisions. Mean station temperatures ranged from 63 to 80°. Total rainfall 0.47 in.

**SOUTH CAROLINA:** Week began dry, cold, warming slowly to higher than usual temperatures by weekend. Rainfall light and variable. Rainfall for month considerably less than normal.

Growers active with tobacco seedbed preparation. Scattered soybean harvesting continued as conditions allowed. Other farm activities included pruning trees, routine chores, equipment maintenance and caring for livestock.

**SOUTH DAKOTA:** Average temperatures ranged 9 to 24° above normal. Extremes 30;v72°. Mild, dry weather melted snow cover. Snow cover ranged from little to none southeast and parts of southwest; statewide 4 in. or less.

Corn harvest continued. Corn 92% harvested, 100% 1984, 100% avg. Livestock mostly good condition. Livestock turned onto harvested fields parts of east. Feed supplies remain short west.

**TENNESSEE:** Temperatures averaged 5 to 10° above normal; lows averaged 30s, except extreme east. Precipitation ranged from 0.10 in. southeast to 1.00 in. northwest; averaged 0.50 in. most areas. Main farm activities included general farm chores.

**TEXAS:** Warm, dry conditions most areas characterized week. No strong cold front, only cool readings brought by rain system from southwest through south central, into eastern areas 15th. Significant rains restricted south central, many thunderstorms brought springtime thunder, frequent lightning. Weekend especially warm with low pressure system west pulling warm air northward, sunny skies boosting temperatures. Rain midweek failed to relieve below normal rain totals. All areas above normal temperatures.

Crops: Cotton 99% harvested, 88% 1984, 97% avg. Harvest almost complete Plains, Cross-Timbers. Most gins also caught up on operations. Wheat 1% failure, 7% poor, 46% fair, 40% good, 6% excellent. Small grains responded well to recent warm weather, but good rain would benefit fields most areas State. Some irrigation continued Plains. Rust light over Plains. Blacklands, side-dressing nitrogen active. Spraying for greenbugs, spider mites continued. Rains east, portions central benefit small grains. Growth good these areas. Fields south making good growth, but could use rain. Other Field Crops: Pecans 97% harvested, 100% 1984, 100% avg. Oats 100% planted, 100% 1984, 100% avg.

Commercial Vegetables: Rio Grande Valley harvest carrots, cabbage, cauliflower, broccoli, celery continued. Onions making good growth. Harvest citrus over, except some Valencia oranges. San Antonio-Winter Garden, wet fields hampered harvest; some progress spinach, carrots, cabbage, broccoli. Pecan harvest good progress all areas except Trans-Pecos previous week's snow hampered harvest operations. Quality varied, fair to good prices.

**Range and Livestock:** Ranges, native pastures continued decline many areas because lack recent moisture. East, central exception these areas did receive some rain. Small grain grazing limited drier areas. Lack of forage growth increased feeding over most State. Livestock conditions remain good because mild weather, supplemental feeding. Marking lambs underway Hill Country. Some movement livestock off small grains taking place because slow regrowth.

**UTAH:** Southern part of State 7 to 10° above normal; Uinta Basin, northern mountains and western divisions slightly below normal; north central division 7° below normal. Precipitation light all divisions.

Many northwestern producers concerned about grasshopper infestation upcoming spring. Hoping to get early control of problem. Warmer weather most areas beneficial to livestock, feed. Not much movement crop, livestock markets.

**VIRGINIA:** Variable weather. Springlike temperatures beginning and end of period. Cold midperiod, temperatures dropped to well below normal with light dusting of snow. Precipitation light, less than 0.10 in.

Days suitable for fieldwork averaged 3.2. Topsoil moisture 30% short, 70% adequate. Winter grains good to excellent. Grading, selling fire-cured tobacco. Livestock good to excellent. Livestock care and feeding a major activity. Feed supplies adequate. Calving, lambing progressing well. Other winter chores: Fence, building, and ditch maintenance, meetings and tax preparation.

**WASHINGTON:** Warmer temperatures throughout most State, with rain starting 13th most western areas. Showers spread across State as week progressed with high winds and heavy rains west 17th.

Days suitable for fieldwork less than 1.0. Soil moisture 15% short, 90% adequate. Range and pasture 85% short, 15% adequate. Hay supplies 60% short, 40% adequate. Adequate snow cover protecting winter wheat. Some ranchers experiencing hay shortages. Orchard pruning continued.

**WEST VIRGINIA:** Temperatures averaged 4 to 8° above normal. High 68° Moorefield, low -20° Etkins. Average temperature 35°. Average precipitation above normal except slightly below normal northeast division. Average precipitation 0.94 in.

Days worked 3.6. Soil moisture adequate. Feed supplies adequate to short.

**WISCONSIN:** Temperatures generally above normal. Only trace amounts of precipitation reported. Snow depth ranged from 1 to 6 in. southeast lakeshore, 7 to 12 in. southern half, 13 to 24 in. northern half, average 14.3 in. Frost depths less than 1 in. north, 7 to 12 in. east and southeast, 1 to 6 in. most other areas, average 4 in.

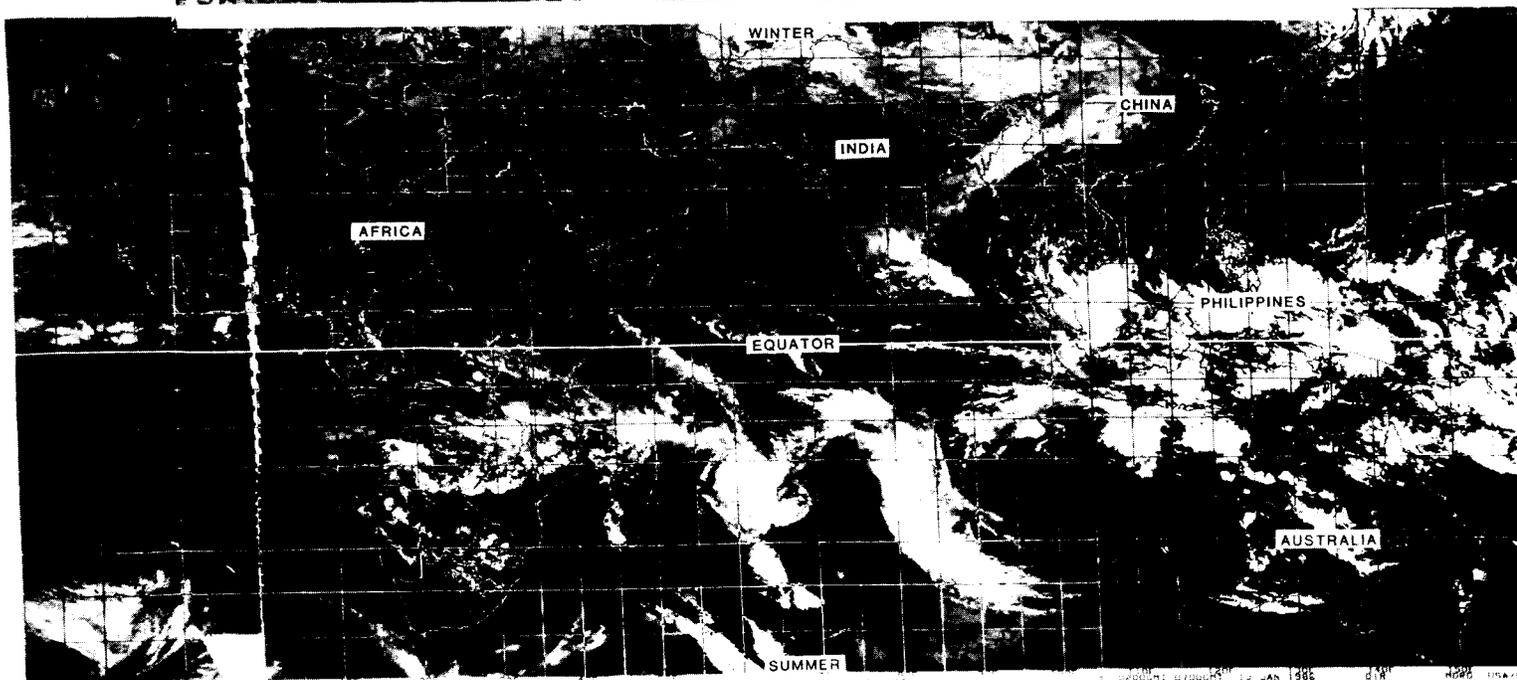
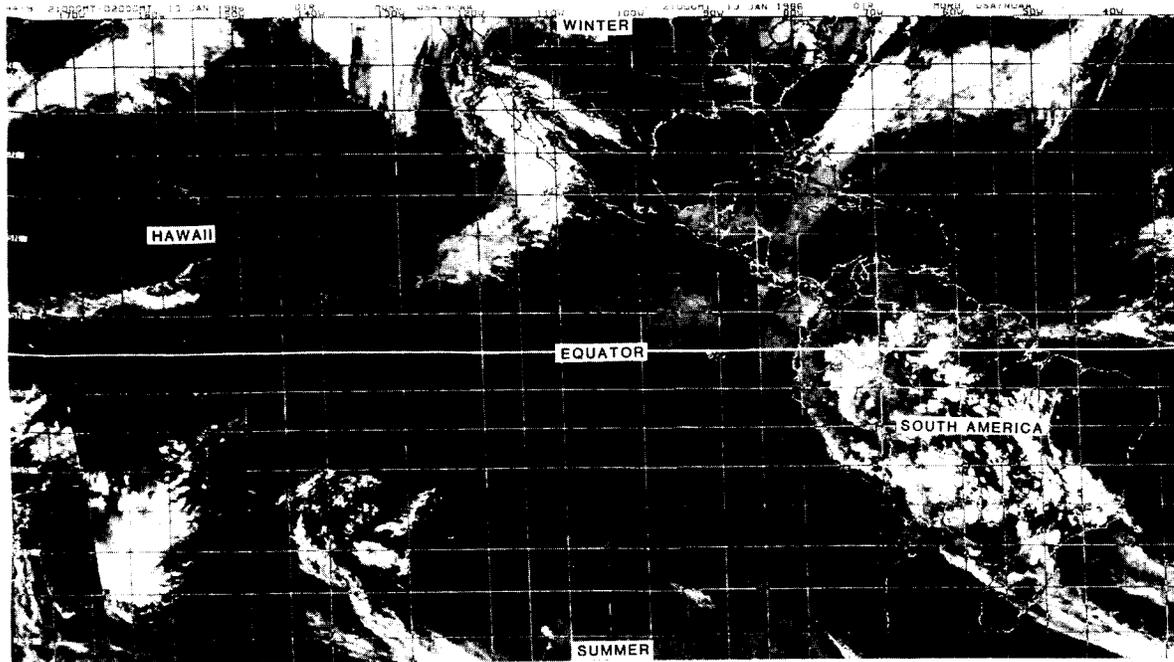
Corn harvested 80%, 100% 1984, 96% avg.; standing well in fields. Short supplies forage and bedding some areas.

**WYOMING:** Temperatures well above normal. Precipitation amounts below normal.

Wind erosion continued several crop areas. Supplemental feeding of livestock continued. Hay supplies being depleted quickly as winter continues. Most livestock good condition. Feed requirements minimal and rates of gain high for cattle some areas. Sheep southwest difficulty finding grass and water through snow. Shearing underway northern part of State.

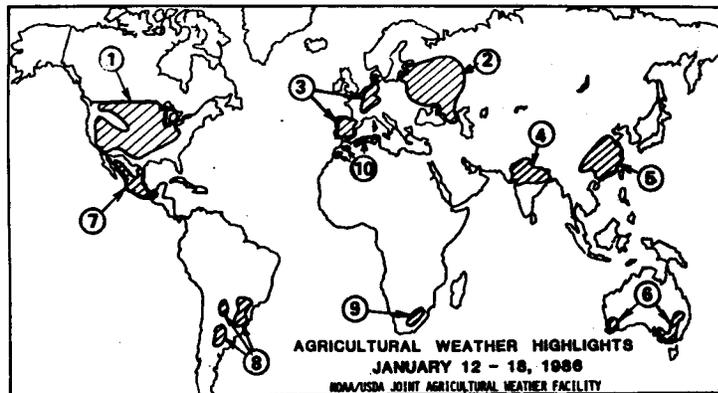
# GLOBAL WEATHER SATELLITE IMAGE

## January 13, 1985



International Weather and Crop Summary

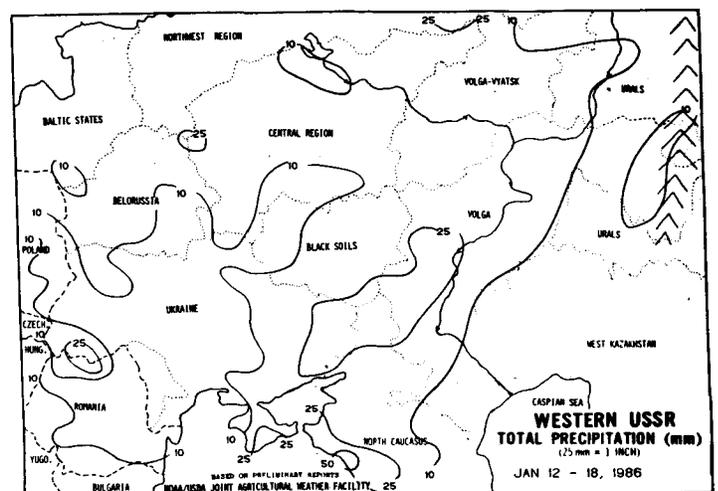
January 12 to 18, 1986

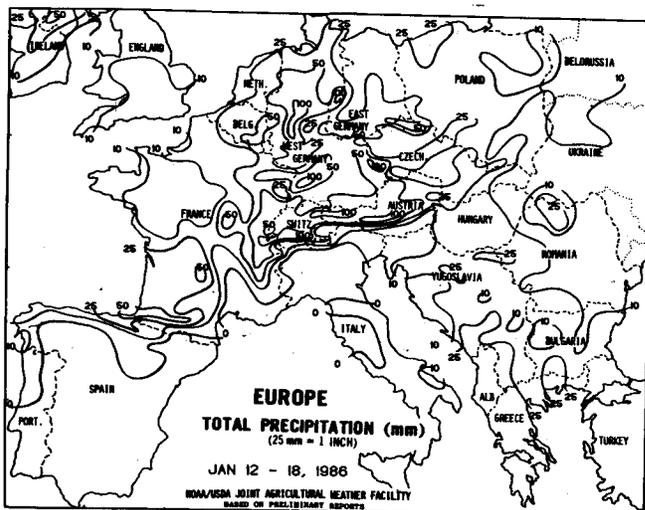


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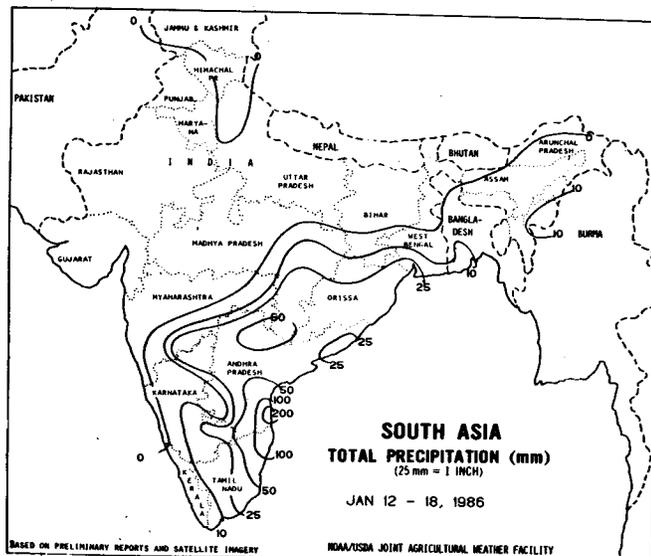
1. **UNITED STATES** ... Unusual warmth across most of the nation eases livestock stress, and allows small grain growth in the southern half of the Nation.
2. **WESTERN USSR** ... Snow covers winter grains over much of the region. Overwintering conditions continue mostly favorable.
3. **EUROPE** ... Heavy rain in eastern France, the Netherlands, Belgium, and West Germany produces the potential for local flooding. Dry weather covers winter grains in Spain.
4. **SOUTH ASIA** ... A tropical cyclone brings heavy rain to the southeast while dry weather covers the wheat region.
5. **EASTERN ASIA** ... Temperatures moderate over the region while rain covers much of central China.
6. **AUSTRALIA** ... Wheat harvesting is mostly completed. A drying trend is developing in the summer crop region.
7. **MEXICO** ... Milder weather prevails in the north. Mostly dry weather favors harvesting.
8. **SOUTH AMERICA** ... Substantial rain falls over the chronically dry soybean area of southern Brazil. Rain benefits Argentina's summer crops.
9. **SOUTH AFRICA** ... Scattered rain and cooler temperatures benefit the Maize Triangle, but moisture is still limited in the west.
10. **NORTHWESTERN AFRICA** ... Dry weather returns to winter grain areas in Morocco and northwestern Algeria. Light showers cover crop areas in northeastern Algeria and western Tunisia.

**WESTERN USSR**...Heavy snow covered winter grain areas northeastward from the eastern Ukraine, through the northern North Caucasus, and into the lower Volga. Precipitation amounts in these areas ranged from 28mm to 45mm. Light precipitation, mainly snow, covered the western Ukraine and the Central Region. Snowfall over much of the region likely produced a protective snow cover as far south as the Black Sea coast. By week's end, a warming trend in the North Caucasus and the lower Volga began melting some of the snow.

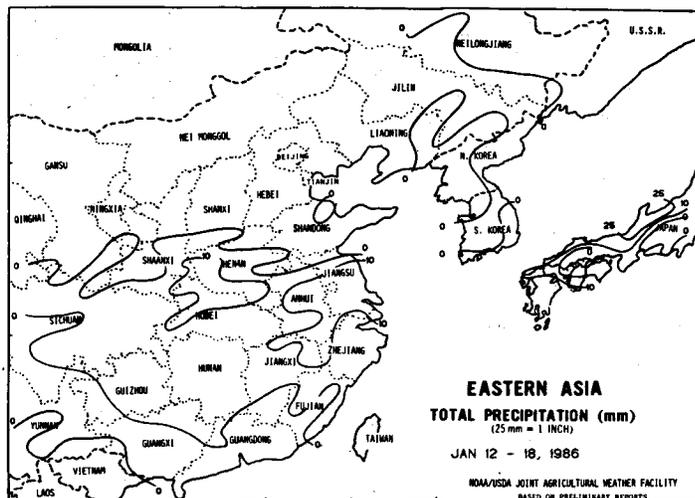




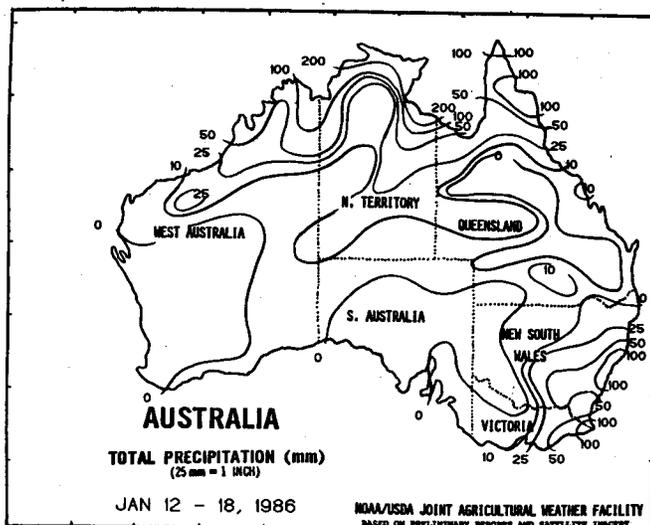
**EUROPE**...Heavy amounts of precipitation, mostly rain, covered winter grains in eastern France, the Netherlands, Belgium, and West Germany. Precipitation amounts in these areas ranged from 50 to 100mm, creating the potential for local flooding, particularly in central areas of West Germany. Early-week rain changed to snow over most of eastern Europe. In Spain, dry weather covered winter grains and additional moisture would be highly beneficial for vegetative crop growth. Weekly temperatures over the region were above normal.



**SOUTH ASIA**...A weak tropical cyclone struck the southeastern coast of India early in the week. Moderate wind (30-40 knots) and heavy rain (100-200mm) may have damaged a small portion of summer rice along the coasts of Andhra Pradesh and Tamil Nadu. The moderate rain (25-75mm) was mostly beneficial for summer rice. Dry weather during the past 3 weeks covered much of the northern wheat areas where the crop is in the reproductive stage. However, about 80 percent of India's wheat production comes from irrigated areas.



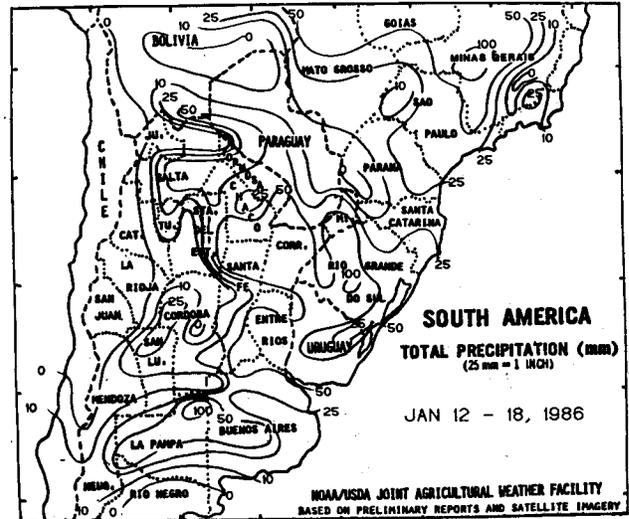
**EASTERN ASIA**...Warmer weather covered eastern China with temperatures averaging 1-5 degrees C above normal. Moderate rain (10-20mm) fell in Hubei, Hunan, Anhui, and Jiangsu, increasing soil moisture for the southern winter wheat region. Dry weather covered Hebei, Shandong, and northern Henan. Winter wheat normally remains dormant until mid-March when temperatures begin to increase. Light showers covered much of the south, but dry weather occurred along coastal areas.



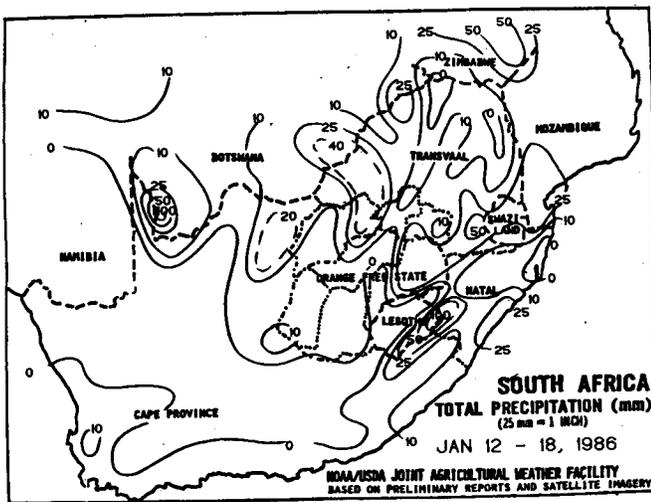
**AUSTRALIA**...Hot, dry weather (36-39 degrees C) early in the week in eastern summer crop areas was replaced by light showers and seasonable temperatures by midweek. Below-normal rainfall during the past 4 weeks has limited soil moisture for sorghum and cotton nearing the reproductive stage in southeastern Queensland and northern New South Wales. Heavy rain (50-100mm) fell in eastern New South Wales and Victoria, extending into the wheat region, but harvesting is completed in most of the region. Light showers fell in eastern South Australia and western Victoria. Dry weather covered southern Western Australia.



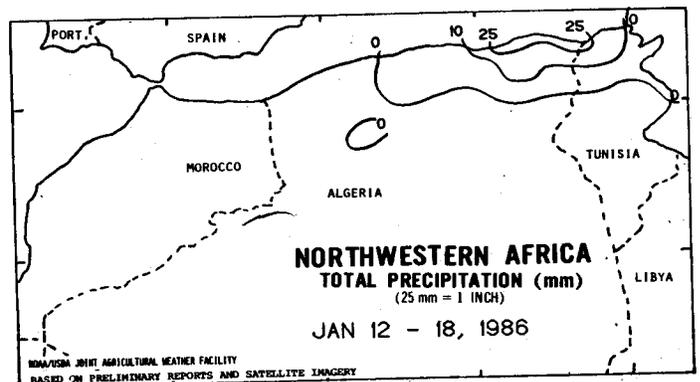
**MEXICO...**Unseasonable cold weather continued to cover much of northern Mexico until midweek. Moderating temperatures occurred during the latter half of the week, but weekly mean temperatures still averaged 1-3 degrees C below normal for the week. However, temperatures remained above freezing in the northeast citrus areas. Light showers fell over the west coast vegetable region, extending into the north-central grazing areas. Dry weather covered the Southern Plateau corn belt. Light showers (less than 5mm) fell along the east coast, causing only minimal interference with the sugarcane harvest.



**SOUTH AMERICA...**In Brazil, significant rain (25-98mm) fell over the chronically dry soybean area of western Rio Grande do Sul late in the week, following several days of oppressive heat. Cooler weather accompanied the storm's passage across northeastern Argentina and southern Brazil. The much-needed moisture helped sustain soybean development. The early-planted, severely-stressed crop is in the critical flowering and pod-setting periods, while the drought-delayed plantings are emerging or are in vegetative growth. While the recent weather halted the deteriorating crop situation, moisture is still limited for crop development during the peak growing period. Some rain also fell in more northern soybean areas, but amounts were light (7-18mm) in southwestern Parana and southern Mato Grosso do Sul. In Argentina, widespread rain covered nearly all crop areas, slowing late wheat harvesting but maintaining adequate moisture for summer crops.



**SOUTH AFRICA...**Hot weather early in the week moderated as variable rain arrived later in the week. Dry, hot weather (32-37 degrees C) continued to stress early-planted corn in the reproductive stage in the West Transvaal and Northwest Orange Free State through the early part of the week. A weak frontal system moved through the region, lowering temperatures and producing scattered, moderate rain. Moderate rain (25-70mm) benefited corn in the Northeast Orange Free State and parts of the eastern and western Transvaal. However, most of the important West Transvaal and Northwest Orange Free State received only about 10mm of rain. Late planted corn is entering the reproductive stage with limited moisture in the west.



**NORTHWESTERN AFRICA...**Mostly dry weather returned to winter grain areas in Morocco and northwestern Algeria. In addition, above-normal weekly temperatures in these areas enhanced crop growth in northern Morocco and northwestern Algeria, but likely stressed winter grains in southern Morocco where moisture is limited. Further east, beneficial showers in northeastern Algeria and western Tunisia continued to provide favorable moisture conditions for winter grains. Wheat areas in eastern Tunisia received only light, scattered showers.

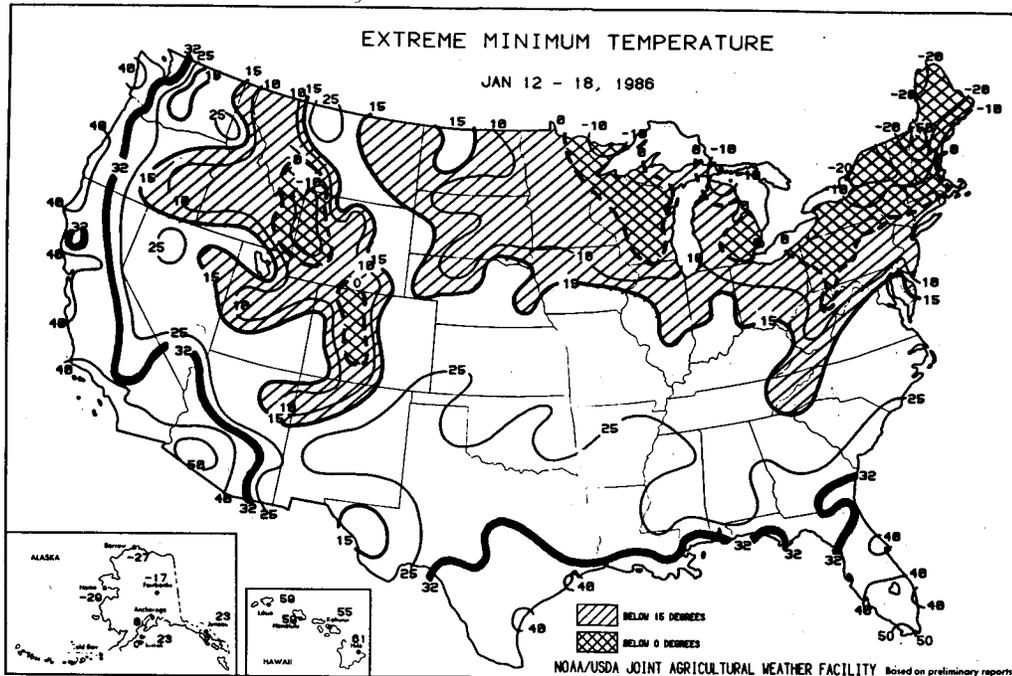
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