

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and
World Agricultural Outlook Board

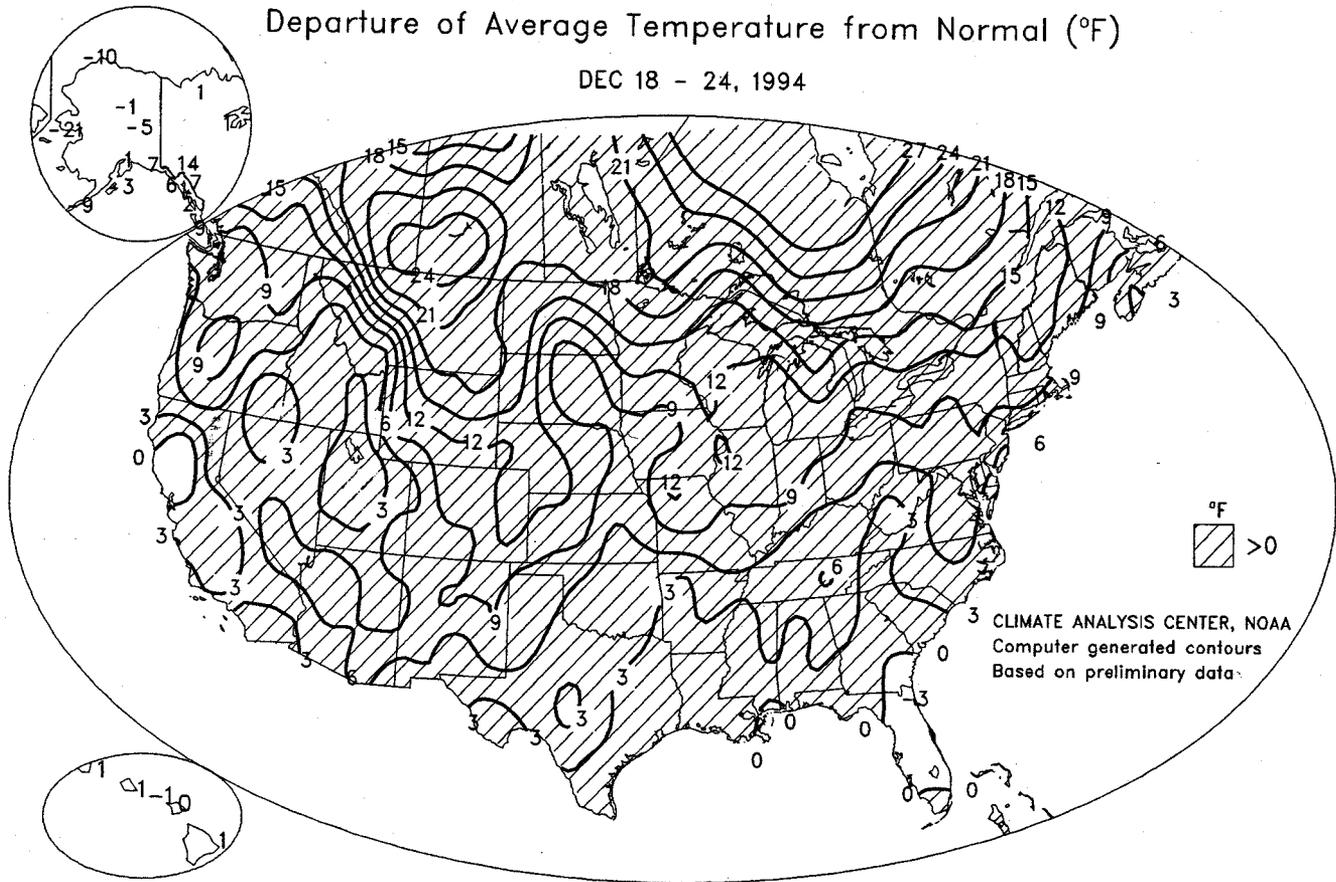
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Washington, D.C.

December 28, 1994

Departure of Average Temperature from Normal (°F)

DEC 18 - 24, 1994



HIGHLIGHTS

December 18 - 24, 1994

Arctic air remained locked behind a northward-displaced polar jet stream, enabling average temperatures to soar to as much as 24°F above normal in Montana, and further reducing snow pack in the North Central States. Nearly three dozen daily-record highs were set across the northern half of the Nation. Warmth and heavy precipitation brought additional flooding to the Pacific Northwest. Meanwhile, an El Niño-enhanced sub-tropical jet stream contributed moisture to several storms, including one over the Southwest and a rare double-storm system along the Atlantic Seaboard.

Early in the week, a "nor'easter" brushed New England (6.5 inches of new snow in Caribou, ME), while additional moisture surged into the Northwest, accompanied by high winds. Astoria, OR set daily temperature (57°F),

(Continued to p. 6)

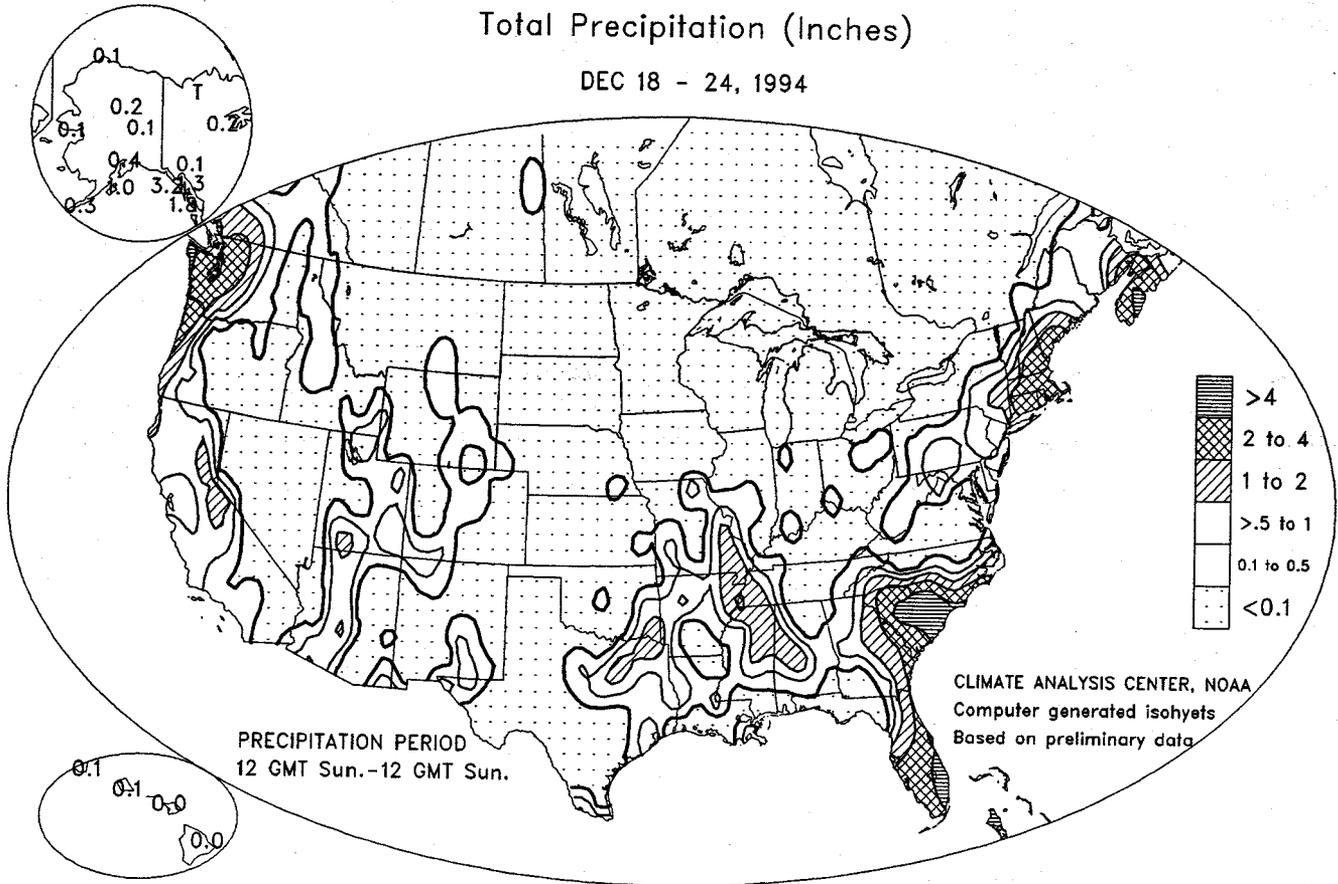
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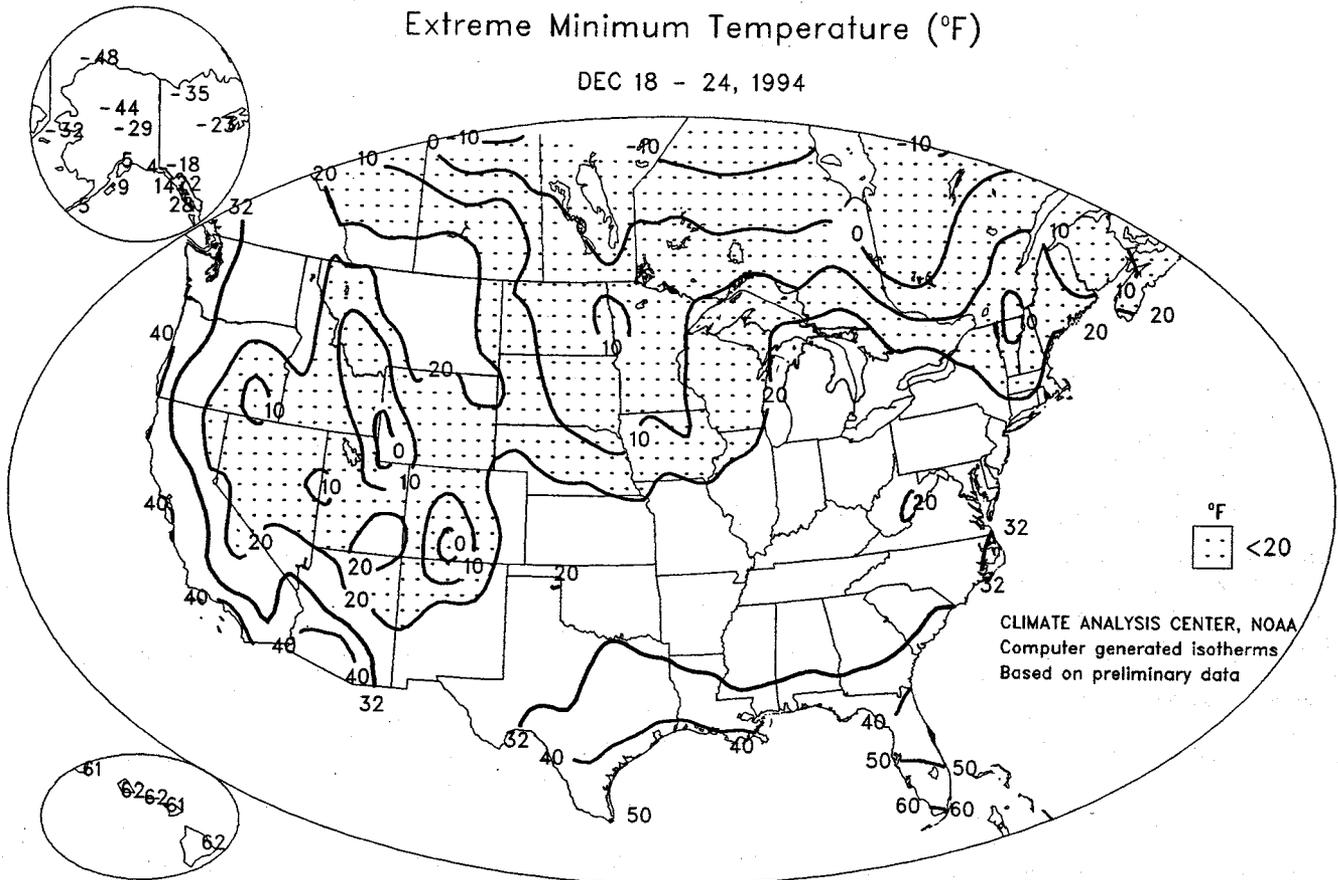
Total Precipitation (Inches)

DEC 18 - 24, 1994



Extreme Minimum Temperature (°F)

DEC 18 - 24, 1994



National Weather Data for Selected Cities

Weather Data for the Week Ending December 24, 1994

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	MINIMUM	80 AND ABOVE	82 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	57	36	65	25	47	3	4	-1.2	4	3.7	94	60.0	112	90	52	0	0	0	0	0	0	
MOBILE	61	42	66	34	52	0	0	-1.2	4	2.6	63	54.5	87	91	49	0	0	0	0	0	0	
MONTGOMERY	61	40	70	30	51	4	4	.5	4	3.3	83	58.1	108	91	50	0	0	0	0	0	0	
AK ANCHORAGE	23	11	26	5	17	1	1	.4	2	1.5	175	13.1	83	92	82	0	0	2	7	1	1	
BARROW	-14	-30	7	-48	-22	-10	-10	.1	0	.1	156	4.2	99	74	68	0	0	0	7	2	0	
FAIRBANKS	-4	-20	5	-29	-12	-4	-4	.1	0	.1	71	9.7	90	81	73	0	0	0	7	3	0	
JUNEAU	36	30	42	22	33	7	7	1.3	3	3.4	100	55.0	103	97	77	0	0	0	4	4	1	
KODIAK	32	22	38	9	27	-3	-3	1.0	3	5.4	104	80.7	122	91	76	0	0	0	7	7	1	
WOMU	-5	-25	12	-32	-15	-21	-21	.1	1	1.1	165	17.9	121	77	60	0	0	0	7	1	0	
AZ PHOENIX	70	48	75	43	59	5	5	.9	7	2.2	288	7.9	106	72	31	0	0	0	7	2	1	
PRESCOTT	58	31	62	24	45	9	9	.4	0	.8	63	12.2	64	77	30	0	0	0	5	1	0	
TUCSON	71	46	77	40	58	7	7	.1	2	2.6	321	10.6	90	66	28	0	0	0	0	2	0	
YUMA	68	48	73	44	58	3	3	.4	3	.5	134	2.6	85	70	40	0	0	0	0	1	0	
AR FORT SMITH	51	35	59	26	43	4	4	.5	1	3.6	147	54.0	134	93	61	0	0	0	3	2	1	
LITTLE ROCK	51	38	54	32	45	4	4	.3	8	4.0	107	54.9	113	81	59	0	0	0	1	2	0	
CA BAKERSFIELD	52	38	64	29	45	-2	-2	.6	5	.8	179	6.2	112	90	38	0	0	0	1	1	1	
FRESNO	59	46	65	41	52	4	4	1.5	1	1.1	5.5	117	33.8	93	93	56	0	0	0	2	1	
FERRIS	49	41	58	40	45	0	0	.8	5	.8	1.1	104	10.0	98	95	46	0	0	0	1	1	
LOS ANGELES	70	51	77	47	61	4	4	.5	2	.5	1.0	80	8.0	69	90	30	0	0	0	1	1	
REDDING	49	35	60	31	42	-2	-2	.6	7	4.9	116	25.1	78	100	76	0	0	0	2	2	0	
SACRAMENTO	47	40	50	38	44	-1	-1	.1	1	1.1	116	25.1	78	99	84	0	0	0	0	0	0	
SAN DIEGO	67	48	74	43	57	0	0	.3	1	.2	26	9.0	94	94	37	0	0	0	0	0	0	
SAN FRANCISCO	53	42	57	39	47	-1	-1	.4	3	4.4	2.0	85	18.8	100	95	55	0	0	0	2	0	
CO DENVER	56	26	65	23	41	11	11	0	1	.1	21	10.8	70	81	22	0	0	0	7	0	0	
GRAND JUNCTION	46	23	48	18	34	5	5	.1	1	.6	113	7.0	68	82	41	0	0	0	6	0	0	
FURLEO	59	17	66	10	38	8	8	0	1	.1	21	15.2	137	85	21	0	0	0	7	0	0	
CT BRIDGEPORT	49	33	55	26	41	8	8	.6	2	.3	3.4	125	40.6	99	81	50	0	0	3	2	0	
HARTFORD	48	27	55	19	38	10	10	2.0	1.1	1.5	5.2	170	52.8	122	87	48	0	0	6	2	1	
DC WASHINGTON	52	37	59	31	44	7	7	.1	6	.1	1.9	79	37.2	98	87	46	0	0	2	1	0	
FL PANAMA CITY	60	45	67	37	53	1	1	.2	9	.2	2.5	69	51.8	81	91	60	0	0	0	1	0	
DAYTONA BEACH	65	51	73	44	58	-2	-2	2.2	1.6	1.2	2.5	127	66.5	141	97	66	0	0	0	3	2	
JACKSONVILLE	60	47	66	38	53	-3	-3	1.8	1.1	1.6	3.2	145	66.5	136	93	68	0	0	0	3	1	
KEY WEST	76	68	80	66	72	1	1	3.1	2.6	2.3	4.4	281	46.7	119	85	62	0	0	0	4	2	
MIAMI	74	61	80	55	68	0	0	3.2	2.8	3.2	4.9	342	79.5	143	88	54	0	0	0	2	1	
ORLANDO	65	53	73	47	59	-2	-2	1.9	1.4	1.2	2.9	175	67.8	142	96	71	0	0	0	4	1	
TALLAHASSEE	63	44	70	37	53	1	1	1.2	1.2	2.0	50	89.2	138	93	54	0	0	0	0	0	0	
TAMPA	67	53	71	45	60	-2	-2	.9	4	.5	1.6	94	47.3	109	98	67	0	0	0	1	0	
WEST PALM BEACH	71	57	79	50	64	-4	-4	8.1	7.6	6.5	95	53	0	0	0	0	2	0	
GA ATLANTA	55	40	58	30	47	4	4	.3	7	.2	1.5	46	60.0	121	94	50	0	0	1	3	0	
AUGUSTA	57	38	66	26	48	2	2	2.1	1.3	1.1	3.0	115	47.4	108	92	48	0	0	2	3	2	
MACON	57	39	64	26	48	0	0	.7	3	.3	2.5	76	60.1	138	93	50	0	0	2	3	0	
SAVANNAH	57	44	65	35	51	0	0	1.6	9	1.2	3.8	172	68.8	142	93	67	0	0	0	3	1	
HI HILO	82	65	84	62	73	1	1	2	2.6	1	5.7	60	181.5	143	81	53	0	0	0	0	0	
HONOLULU	84	67	86	62	75	1	1	.1	8	.1	1	2	34.1	66	82	53	0	0	0	1	0	
KAHULUI	82	63	84	61	73	0	0	.0	8	.1	10	11.2	56	79	51	0	0	0	0	0	0	
LIHUE	80	67	82	61	74	1	1	1	1.1	.1	.3	8	27.1	65	79	53	0	0	0	1	0	
ID BOISE	38	26	45	19	32	3	3	.1	2	.1	1.7	161	9.4	80	92	67	0	0	6	1	0	
LEWISTON	48	36	55	33	42	8	8	0	3	0	0	0	8.6	70	72	46	0	0	0	0	0	
POCATELLO	35	15	46	8	25	1	1	2	2	1.1	124	8.7	74	93	71	0	0	7	1	0	0	
IL CHICAGO	43	28	52	22	36	11	11	2	5	1.4	71	29.7	84	93	64	0	0	5	0	0	0	
MOLINE	44	29	52	19	36	13	13	2	5	1.4	76	31.8	82	90	68	0	0	5	0	0	0	
PEORIA	43	29	54	22	36	11	11	2	5	1.2	112	25.2	70	90	71	0	0	4	0	0	0	
QUINCY	41	30	47	22	36	9	9	1	4	1.5	78	20.5	52	91	68	0	0	4	2	0	0	
ROCKFORD	37	25	43	14	31	9	9	1	4	1.2	71	36.6	102	98	81	0	0	5	0	0	0	
SPRINGFIELD	45	31	60	24	38	10	10	1	5	1	1.8	82	35.3	102	90	65	0	0	3	1	0	0
IN EVANSVILLE	50	34	61	27	42	6	6	2	8	2	2.0	67	36.2	81	89	59	0	0	3	1	0	0
FORT WAYNE	46	27	56	23	36	9	9	2	6	2	2.0	88	29.1	85	99	73	0	0	7	0	0	0
INDIANAPOLIS	47	32	59	26	39	10	10	2	7	1.6	60	31.5	80	88	64	0	0	5	0	0	0	
SOUTH BEND	44	28	54	24	36	9	9	1	6	1	2.3	86	37.6	98	99	71	0	0	5	1	0	0
IA DES MOINES	38	25	46	17	32	9	9	2	3	2	2.0	182	27.8	82	94	76	0	0	5	1	0	0
SIOUX CITY	35	17	40	5	26	6	6	2	2	7	118	25.9	101	95	80	0	0	7	0	0	0	
WATERLOO	36	20	40	7	28	10	10	2	3	1.2	113	35.1	105	95	75	0	0	6	0	0	0	
KS CONCORDIA	45	28	49	21	35	7	7	2	2	1.0	149	17.5	61	97	76	0	0	6	1	0	0	
DODGE CITY	55	27	59	22	41	10	10	0	1	0	6	108	18.6	87	89	41	0	0	6	0	0	0
GOODLAND	52	27	60	23	40	11	11	2	1	3	78	15.0	83	88	42	0	0	7	0	0	0	
TOPEKA	43	28	57	23	36	7	7	1	2	1.4	122	26.5	76	94	69	0	0	6	1	0	0	
WICHITA	44	29	59	21	36	4	4	0	3	0	6	53	24.1	70	96	72	0	0	4	0	0	0
KY BOWLING GREEN	48	32	58	21	40	4	4	1	1.1	1	2.3	58	48.6	97	97	72	0	0	3	1	0	0
LEXINGTON	48	31	57	24	39	5	5	2	9	3.8	122	45.6	104	92	59	0	0	5	0	0	0	
LOUISVILLE	49	33	59	26	41	6	6	2	8	2.9	100	35.4	81	93	68	0	0	4	0	0	0	
LA BATON ROUGE	63	43	68	35	53	1	1	2	1.3	2.1	49	58.3	98	98	59	0	0	0	0	0	0	
LAKE CHARLES	64	44	71	39	54	1	1	2	1.2	2	5.3	136	42.5	79	96	58	0	0	0	0	0	0
NEW ORLEANS	61	46	66	40	54	0	0	2	1.3	2	2.0	45	49.3	81	91	49	0	0	0	0	0	0
SHERVEPORT	59	38	65	33	48	2	2	3	8	6.9	184	53.5	111	94	56	0	0	0	0	1	0	

Based on 1961-90 normals.

Weather Data for the Week Ending December 24, 1994

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	80 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
MI CARIBOU	34	18	48	4	26	13	.5	-.2	.5	2.5	98	37.8	105	86	63	0	7	1	0		
MI PORTLAND	43	28	56	19	35	11	3.3	2.3	2.5	5.7	157	43.8	101	88	53	0	6	3	1		
MI BALTIMORE	53	34	60	27	43	3	2.4	1.7	2.0	76	43.3	108	84	44	0	4	1	0			
MI SALISBURY	53	33	58	25	43	3	2.4	1.5	1.5	53	40.3	91	98	54	0	4	2	0			
MA BOSTON	47	35	61	28	41	3	2.6	1.7	1.3	168	47.5	117	78	55	0	2	3	2			
MA CHATHAM	45	35	50	27	38	6	1.2	1.2	1.6	46	37.2	84	84	62	0	2	3	2			
MI ALPENA	46	30	53	25	38	16	1.2	1.2	1.0	46	37.2	84	84	62	0	2	3	1			
MI DETROIT	45	28	53	25	37	10	1.2	1.2	1.0	46	37.2	84	84	62	0	2	3	1			
MI FLINT	43	26	50	24	35	9	1.7	1.7	1.7	76	30.4	95	95	64	0	6	0	0			
MI GRAND RAPIDS	43	29	50	24	35	9	1.7	1.7	1.7	98	33.6	112	96	67	0	7	0	0			
MI HOUGHTON LAKE	44	28	48	20	36	15	1.1	1.1	1.0	46	46.5	131	96	69	0	6	0	0			
MI LANSING	42	26	50	22	34	10	1.1	1.1	1.0	48	27.8	100	95	67	0	6	1	0			
MI MARQUETTE	40	25	52	20	32	17	1.1	1.1	1.0	85	35.3	114	99	71	0	6	0	0			
MI MUSKEGON	42	29	49	23	36	9	1.1	1.1	1.0	16	24.2	70	89	54	0	6	0	0			
MI SAULT ST. MARIE	39	28	46	23	34	17	1.1	1.1	1.0	39	32.9	103	96	65	0	5	0	0			
MI ALEXANDRIA	33	18	41	10	25	14	1.1	1.1	1.0	20	27.9	83	96	65	0	6	0	0			
MI DULUTH	35	17	42	9	26	16	1.1	1.1	1.0	4	19.2	75	94	69	0	7	0	0			
MI INT'L FALLS	37	17	46	9	27	22	1.1	1.1	1.0	30	29.2	98	91	61	0	7	0	0			
MI MINNEAPOLIS	37	19	43	7	28	12	1.1	1.1	1.0	55	24.3	100	92	60	0	7	1	0			
MI ROCHESTER	34	20	39	11	27	12	1.1	1.1	1.0	56	29.6	105	93	66	0	7	0	0			
MI GREENWOOD	56	39	64	32	48	3	1.3	1.0	1.3	60	31.2	106	95	80	0	7	0	0			
MI JACKSON	55	37	63	29	46	1	1.3	1.1	1.3	41	45.5	86	95	54	0	1	1	0			
MI MERIDIAN	61	40	70	31	50	3	1.3	1.1	1.3	65	56.0	104	95	61	0	2	1	0			
MO CAPS GIRARDEAU	48	36	56	25	42	7	1.5	1.3	1.5	140	65.2	118	89	51	0	2	2	0			
MO COLUMBIA	45	33	53	25	39	10	1.1	1.0	1.1	26	37.9	99	96	64	0	3	2	0			
MO KANSAS CITY	45	28	57	19	37	8	1.1	1.0	1.6	126	28.2	76	93	67	0	4	2	0			
MO SAINT LOUIS	45	36	54	28	41	8	1.7	1.0	1.4	59	34.6	94	95	66	0	2	2	0			
MO SPRINGFIELD	46	32	53	25	39	6	1.3	1.2	1.0	46	49.0	114	92	66	0	4	2	0			
MT BILLINGS	53	35	57	26	44	20	1.2	1.2	1.2	31	13.6	91	63	33	0	1	0	0			
MT GLASGOW	43	23	51	21	33	20	1.0	1.0	1.1	18	9.6	89	87	67	0	7	0	0			
MT GREAT FALLS	52	35	55	31	44	21	1.0	1.0	1.0	6	9.7	65	59	26	0	3	0	0			
MT HAVRE	51	26	58	15	39	23	1.0	1.0	1.0	0	7.1	65	77	46	0	5	0	0			
MT HELENA	42	17	49	10	29	9	1.1	1.1	1.0	4	7.4	65	90	68	0	7	0	0			
MT KALISPELL	39	23	49	16	31	9	1.1	1.1	1.2	14	11.0	69	92	72	0	7	1	0			
MT MILLS CITY	47	24	52	21	35	18	1.0	1.0	1.0	4	9.5	68	87	42	0	7	0	0			
MT MISSOULA	33	17	39	8	25	3	1.1	1.1	1.5	59	11.4	86	92	82	0	7	1	0			
NE GRAND ISLAND	43	25	49	19	34	10	1.2	1.2	1.4	64	22.5	91	96	73	0	7	0	0			
NE LINCOLN	41	24	49	16	33	9	1.1	1.1	1.7	101	20.3	72	98	73	0	7	2	0			
NE NORFOLK	40	23	45	10	31	10	1.2	1.2	1.7	113	28.5	114	95	73	0	7	0	0			
NE NORTH PLATTE	51	21	54	18	36	13	1.1	1.1	1.3	79	18.6	97	93	44	0	7	0	0			
NE OMAHA	39	24	47	13	31	8	1.2	1.2	1.6	68	29.5	99	95	81	0	7	1	0			
NE SCOTTSBLOFF	48	22	57	18	35	10	1.1	1.1	1.5	104	15.5	103	89	45	0	7	1	0			
NE VALENTINE	49	19	58	10	34	10	1.0	1.0	1.5	107	17.8	80	83	46	0	7	0	0			
NV ELY	44	16	52	9	30	6	1.2	1.2	1.3	51	8.7	86	93	52	0	7	0	0			
NV LAS VEGAS	62	41	66	35	51	6	1.1	1.0	1.1	39	1.6	40	57	25	0	0	2	0			
NV RENO	50	25	55	21	37	5	1.2	1.2	1.2	20	5.2	71	92	46	0	7	1	0			
NV WINGENBUCCA	40	19	42	14	29	0	1.2	1.2	1.3	49	7.4	92	92	62	0	7	0	0			
NH CONCORD	47	24	61	13	35	13	2.2	1.5	1.7	164	36.1	101	95	53	0	6	3	1			
NJ ATLANTIC CITY	51	28	55	19	40	5	1.1	1.0	1.1	82	42.4	107	97	48	0	5	1	0			
NM ALBUQUERQUE	56	32	59	26	44	10	1.0	1.0	1.6	145	11.1	128	54	25	0	5	0	0			
NM CLOVIS	62	33	69	27	47	10	1.0	1.0	1.4	84	10.3	59	64	20	0	3	0	0			
NM ROSWELL	62	32	73	27	47	7	1.0	1.0	1.0	0	7.6	61	65	26	0	4	0	0			
NY ALBANY	43	25	51	18	34	10	1.6	1.6	2.5	106	34.7	97	93	58	0	6	1	1			
NY BINGHAMTON	42	29	54	26	36	11	1.3	1.3	2.7	113	41.7	115	90	56	0	7	1	0			
NY BUFFALO	42	31	50	28	37	9	1.1	1.1	1.1	89	36.7	97	88	61	0	6	1	0			
NY NEW YORK	50	38	57	34	44	9	1.7	1.7	2.7	100	43.5	105	80	46	0	0	2	0			
NY ROCHESTER	45	30	54	26	38	10	1.6	1.6	2.2	100	29.4	94	86	58	0	5	1	0			
NY STRACOSE	42	28	51	22	35	8	1.1	1.1	2.1	82	38.6	101	90	61	0	7	1	0			
NC ASHEVILLE	47	31	50	21	39	1	1.3	1.3	2.8	81	57.3	104	93	53	0	4	1	0			
NC CHARLOTTE	54	36	60	28	45	4	1.6	1.6	1.4	53	36.1	85	81	38	0	3	2	0			
NC GREENSBORO	53	35	58	23	44	5	1.6	1.6	1.4	13	34.3	82	75	37	0	3	1	0			
NC HATTERAS	60	48	69	44	54	6	1.3	1.3	4.7	137	68.7	125	89	55	0	0	5	1			
NC NEW BERN	60	42	67	29	51	5	1.4	1.4	1.2	44	35.7	67	93	53	0	1	2	0			
NC RALEIGH	56	36	61	26	46	5	1.4	1.4	1.1	43	36.2	89	82	35	0	3	2	0			
NC WILMINGTON	60	42	64	30	51	5	1.3	1.3	2.9	206	60.8	109	93	53	0	1	3	2			
ND BISMARCK	32	6	36	2	19	7	1.1	1.1	1.3	74	18.9	123	93	75	0	7	0	0			
ND FARGO	32	17	39	11	24	15	1.1	1.1	1.2	36	23.1	119	91	75	0	7	0	0			
ND GRAND FORKS	32	18	38	15	25	17	1.1	1.1	1.1	4	23.1	127	93	71	0	7	0	0			
ND WILLISTON	36	12	40	5	24	13	1.0	1.0	1.5	333	16.4	121	94	74	0	7	0	0			
OK ARROW-CANTON	45	29	54	27	37	8	1.1	1.1	2.9	125	40.4	112	89	63	0	6	1	0			
OK CINCINNATI	47	31	57	26	39	7	1.1	1.1	2.9	114	38.3	94	93	62	0	4	0	0			
OK CLEVELAND	45	30	54	24	37	8	1.1	1.1	2.8	115	29.4	82	92	65	0	5	1	0			
OK COLUMBUS	47	29	55	25	38	9	1.1	1.1	2.2	92	31.6	85	95	57	0	6	0	0			
OK DAYTON	46	28	54	25	37	7	1.1	1.1	2.7	114	34.7	96	95	63	0	7	1	0			

Based on 1961-90 normals.

Weather Data for the Week Ending December 24, 1994

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	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
OH TOLEDO	46	26	54	23	36	10	2	.6	2	2.7	116	28.9	89	99	70	0	0	6	1	0	0	
OH YOUNGSTOWN	44	28	52	25	36	8	.1	-.5	.1	2.9	124	37.8	103	92	62	0	6	1	1	0	0	
OK OKLAHOMA CITY	53	32	63	27	42	4	.4	.2	.2	1.6	138	28.1	85	92	52	0	5	2	0	0	0	
OK TULSA	49	34	59	27	41	4	.4	.1	.1	1.0	56	49.2	123	92	60	0	4	2	0	0	0	
OR ASTORIA	53	40	58	35	47	3	3.7	1.3	1.8	9.8	119	70.8	111	96	76	0	0	0	1	2	0	
OR BURNS	38	17	41	8	27	3	2	.2	.3	.3	32	5.0	51	87	55	0	7	5	1	0	0	
OR MEDFORD	53	33	59	24	43	6	.4	.4	.2	.8	30	11.8	65	93	48	0	3	2	2	0	0	
OR PENDLETON	49	34	59	26	41	3	.1	.1	.6	.6	45	12.2	104	83	43	0	3	2	2	0	0	
OR PORTLAND	53	42	56	37	48	8	.7	.5	3.6	75	33.7	96	93	43	0	0	4	4	1	1	0	
OR SALEM	52	44	63	39	48	8	.8	.7	3.6	68	36.4	96	91	49	0	0	4	4	1	1	0	
PA ALLENTOWN	50	29	56	23	39	9	.3	.5	2.9	106	48.4	113	96	46	0	6	6	1	0	0	0	
PA ERIE	44	33	50	30	38	9	2	.8	3.1	108	40.4	99	85	55	0	3	1	0	0	0	0	
PA HARRISBURG	47	31	52	24	39	7	.2	.6	2.3	91	46.2	116	90	50	0	4	1	0	0	0	0	
PA PHILADELPHIA	51	34	57	28	43	10	.4	.4	1.9	67	44.8	99	91	44	0	4	1	0	0	0	0	
PA PITTSBURGH	47	29	58	24	38	8	2	.7	1.9	85	41.3	114	86	49	0	6	1	0	0	0	0	
PA SCRANTON	45	31	51	26	38	10	.4	.4	2.2	108	42.0	118	88	56	0	4	1	0	0	0	0	
RI PROVIDENCE	49	31	59	20	40	9	2.4	1.4	1.6	4.5	131	44.7	100	85	54	0	5	3	2	2	0	
SC CHARLESTON	58	44	65	36	51	1	2.5	1.7	1.9	5.8	244	69.9	138	85	59	0	0	3	2	2	0	
SC COLOMBIA	57	40	63	25	48	3	5.0	4.2	2.6	9.0	212	51.9	106	82	48	0	2	3	2	2	0	
SC FLORENCE	58	41	65	31	50	3	7.1	6.4	4.4	9.7	379	48.4	112	88	47	0	1	2	2	2	0	
SC GREENVILLE	54	35	60	26	45	3	2.2	1.3	2.1	3.7	116	51.1	102	84	39	0	3	3	1	1	0	
SD ABERDEEN	29	11	36	8	20	6	.0	-.1	.0	.3	70	20.6	98	86	80	0	7	0	0	0	0	
SD HURON	32	14	39	1	23	7	.0	-.1	.0	.6	147	20.8	104	95	78	0	7	0	0	0	0	
SD RAPID CITY	50	28	58	20	39	16	.0	-.1	.0	.4	92	10.5	64	77	43	0	6	0	0	0	0	
SD SIOUX FALLS	34	17	41	1	25	9	2	-.1	.2	.3	53	22.9	96	96	82	0	7	0	0	0	0	
TN CHATTANOOGA	55	35	60	28	45	5	.1	-.1	.1	3.8	94	73.6	141	97	38	0	3	2	0	0	0	
TN KNOXVILLE	50	34	55	24	42	3	.2	-.8	.2	2.0	57	63.3	137	94	59	0	3	2	2	0	0	
TN MEMPHIS	52	38	62	30	45	3	1.8	.5	1.0	6.1	133	49.6	97	90	60	0	1	2	2	0	0	
TN NASHVILLE	51	34	62	25	43	4	2	-.0	.2	2.7	74	60.2	130	86	57	0	3	1	0	0	0	
TX ABILENE	60	35	69	29	48	3	2	-.2	.2	.3	36	27.7	114	91	44	0	3	1	0	0	0	
TX AMARILLO	60	28	67	21	44	8	.0	-.1	.0	.1	24	17.1	88	69	23	0	6	0	0	0	0	
TX AUSTIN	65	44	72	40	54	4	.0	-.4	.0	3.7	248	39.2	125	81	43	0	0	0	0	0	0	
TX BEAUMONT	64	44	69	41	54	1	2	-.1	.2	2.1	58	65.5	117	95	52	0	0	0	0	0	0	
TX BROWNSVILLE	69	55	76	48	62	1	.3	.1	.2	1.2	126	23.3	89	94	67	0	0	4	0	0	0	
TX CORPUS CHRISTI	67	52	76	47	60	2	2	-.3	.2	5.0	531	36.0	121	85	48	0	0	0	0	0	0	
TX DEL RIO	66	46	73	39	56	5	.1	-.2	.1	.4	49	19.0	78	79	44	0	0	1	0	0	0	
TX EL PASO	63	37	69	32	50	7	.4	-.2	.3	.7	161	4.6	52	68	28	0	2	2	0	0	0	
TX FORT WORTH	60	37	65	34	49	5	.0	-.5	.0	1.8	107	42.8	114	92	47	0	0	0	0	0	0	
TX GALVESTON	61	54	69	49	58	2	.0	-.8	.0	2.4	87	25.6	62	86	62	0	0	0	0	0	0	
TX HOUSTON	65	43	70	38	54	3	.1	-.0	.1	3.7	96	41.9	79	95	53	0	0	1	0	0	0	
TX LUBBOCK	63	30	74	25	47	7	.0	-.1	.0	.2	9	13.0	70	92	25	0	4	0	0	0	0	
TX MIDLAND	62	34	71	27	48	4	2	-.1	.2	.2	5	9.7	65	92	32	0	2	1	0	0	0	
TX SAN ANGELO	62	34	69	30	48	3	.0	-.2	.0	.4	59	18.6	91	93	42	0	3	0	0	0	0	
TX SAN ANTONIO	68	42	75	38	55	4	.0	-.3	.0	1.5	124	38.4	125	83	40	0	0	0	0	0	0	
TX VICTORIA	66	46	73	39	56	2	.0	-.7	.0	3.9	172	42.6	95	89	44	0	0	0	0	0	0	
TX WACO	61	37	68	34	49	2	.0	-.4	.0	3.3	225	32.2	102	93	57	0	0	0	0	0	0	
TX WICHITA FALLS	58	34	69	29	46	5	.0	-.4	.0	.5	44	13.5	43	91	48	0	4	0	0	0	0	
UT CEDAR CITY	46	25	51	19	35	6	2	-.1	.2	.2	29	9.0	80	88	46	0	6	1	0	0	0	
UT SALT LAKE CITY	39	19	44	12	29	1	.1	-.2	.1	1.3	116	15.2	95	95	74	0	7	2	0	0	0	
VT BURLINGTON	40	23	50	11	32	11	.1	-.4	.1	1.6	83	34.8	103	84	62	0	7	2	0	0	0	
VA NORFOLK	52	41	55	30	47	4	.1	-.6	.1	1.1	45	52.3	119	90	59	0	2	4	0	0	0	
VA RICHMOND	54	35	61	26	45	6	.1	-.6	.1	.9	36	43.7	103	86	30	0	3	2	0	0	0	
VA ROANOKE	51	32	58	22	42	4	.0	-.7	.0	2.1	88	42.3	103	83	39	0	3	0	0	0	0	
WA QUILLACUTE	52	43	57	32	47	8	5.3	1.9	3.4	12.8	106	97.3	96	99	82	0	1	6	4	2	0	
WA SEATTLE-TACOMA	52	42	56	36	47	7	2.4	1.1	1.2	5.2	112	31.9	89	93	73	0	0	4	2	0	0	
WA SPOKANE	41	31	48	25	36	9	.1	-.5	.1	.8	42	12.5	78	92	68	0	4	2	0	0	0	
WA YAKIMA	48	30	61	24	39	10	2	-.3	.2	.2	2	5.5	72	90	64	0	5	0	0	0	0	
WV BECKLEY	43	30	52	23	37	4	.1	-.7	.1	1.7	66	46.8	116	86	55	0	5	1	0	0	0	
WV CHARLESTON	47	28	58	22	38	2	.1	-.7	.1	2.2	82	49.1	117	99	59	0	5	1	0	0	0	
WV HUNTINGTON	47	30	56	23	38	5	2	-.8	.2	3.0	108	45.8	107	95	60	0	4	0	0	0	0	
WV PARKERSBURG	47	28	57	23	37	4	2	-.7	.2	2.7	120	47.2	118	92	52	0	5	1	0	0	0	
WI GREEN BAY	38	22	41	14	30	12	2	-.3	.2	.4	28	27.8	97	95	78	0	7	0	0	0	0	
WI LACROSSE	38	24	46	19	31	13	2	-.3	.2	.2	0	34.5	114	97	68	0	7	0	0	0	0	
WI MADISON	39	21	46	10	30	10	2	-.4	.2	1.0	79	33.5	105	93	70	0	7	0	0	0	0	
WI MILWAUKEE	43	29	50	19	36	14	2	-.5	.2	1.0	55	27.2	84	94	66	0	5	0	0	0	0	
WI WAUSAU	35	19	40	9	27	11	2	-.3	.2	.3	27	22.5	69	92	66	0	7	0	0	0	0	
WY CASPER	48	28	53	22	38	16	.1	-.1	.1	.2	42	13.5	109	76	38	0	6	1	0	0	0	
WY CHEYENNE	54	27	61	19	40	13	2	-.1	.2	.2	67	13.2	92	70	26	0	6	0	0	0	0	
WY LANDER	44	21	48	18	33	13	.0	-.1	.0	.2	0	11.6	90	71	33	0	7	0	0	0	0	
WY SHERIDAN	51	24	62	19	38	16	2	-.2	.2	1.1	21	15.0	104	74	42	0	6	0	0	0	0	
PR SAN JUAN	87	72	89	71	80	2	2	-.0	.2	2.1	56	40.0	78	87	57	0	0	0	0	0	0	

Based on 1961-90 normals.

National Agricultural Summary

December 19 - 25, 1994

HIGHLIGHTS: Winter wheat and pastures benefited from unseasonably warm weather during the week. Warm weather and heavy rains along the Pacific Northwest coast melted snow, causing flooding and mud slides. Isolated showers in California did not prevent some field activities from resuming. Continued warm weather in the northern High Plains melted much of the protective snow cover for winter wheat. Wheat fields in the lower Mississippi Valley remained saturated, and were too wet to graze cattle. The mild weather in the Great Lakes region allowed farmers to haul grain and care for livestock. The piles of corn stored on the ground in Iowa diminished, but a sizable amount remains to be moved before the deadline for emergency storage expires. In the Midwest, farmers applied fertilizer where the weather allowed. The sugarcane harvest in Louisiana was active with farmers hurrying to finish before the mills closed. Florida citrus growers harvested early midseason fruit rapidly despite heavy rain during the week. Heavy rain and high winds damaged some vegetable fields in Florida's Lake Okeechobee region.

SMALL GRAINS: Winter wheat was left unprotected in the Northern Great Plains where continued warm weather melted the snow cover. Saturated fields in the lower Mississippi Valley left some wheat fields too wet to graze cattle. Dryland wheat fields in the Texas Plains showed signs of stress from a shortage of moisture. Texas producers reported rust in some fields and were applying insecticides to control greenbugs.

Corn stored on the ground in Iowa continued to decrease. A considerable amount of corn still must be moved before the emergency storage deadline of January 7th arrives.

Cotton harvest in California was complete, and plowdown was active for pink bollworm control to meet the December 31st deadline. Texas cotton farmers made good progress harvesting cotton with clear weather across most of the State, and only a few fields remained that were too wet to harvest. Cotton harvested in Texas reached 95 (%) percent, 5 percentage points behind last year, but equal to the average. Arizona cotton harvest was complete, and stalk shredding and plowdown were active early in the week.

Soybean harvest in North Carolina made good progress at 95% complete, the same as in 1993 and ahead of the average by 1 point.

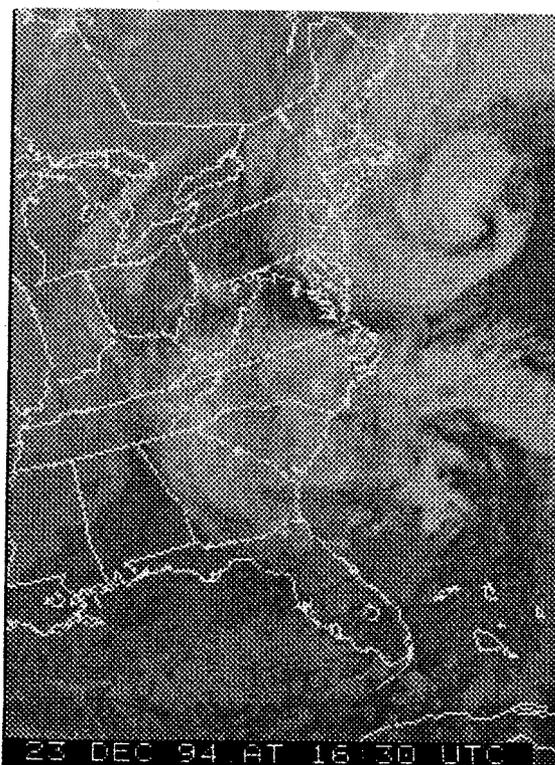
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rainfall (1.98 inches), and wind gust (67 mph) records on Monday. Eugene, OR and Walla Walla, WA, both with 64°F on Tuesday, notched daily records. During the first half of the week, precipitation totaled 4.69 inches in Quillayute, WA, 3.56 inches in Astoria, and 2.42 inches at Stampede Pass, WA. River flooding in northwestern Oregon and on Washington's Olympic Peninsula diminished by Wednesday as drier weather arrived.

At midweek, warmth spread eastward across the Northern States, while a low-pressure system formed in the northeastern Gulf of Mexico. Daily-record highs on December 21 included 61°F in Cheyenne, WY and 60°F in Concord, NH. International Falls, MN, with 44°F, broke its first of six records in 7 days. Across southern Florida, heavy rain developed as the nascent storm tracked northeastward. West Palm Beach, FL received a storm total of 7.77 inches, including a December single-day record of 6.45 inches on Wednesday. By Friday, the storm achieved semi-tropical characteristics and boomeranged northward toward Cape Cod, MA. An upper air disturbance trekking through the Southeast initiated a second east-coast storm, which, in combination with the first, delivered heavy rain to South Carolina, where totals included 7.11 inches in Florence and 5.02 inches in Columbia. The initial storm dealt a sharp blow to coastal New England late on Friday, and induced 39-foot waves at a buoy 90 miles east of Cape May, NJ. A wind gust to 99 mph was clocked just prior to midnight Friday night at Westport Harbor, MA. Other peak gusts included 84 mph at Nantucket, MA and 72 mph at Providence, RI. In addition, rainfall totaled 3.27 inches in Portland, ME and 2.57 inches in Boston, MA.

Elsewhere, tranquil weather prevailed, except in California and the Southwest, where a storm pushed ashore. Late-week precipitation topped 1 inch at Blue Canyon, CA, Mount Wilson, CA, and Organ Pipe Cactus N.M., AZ. The storm deposited 6 inches of snow at southern California's 6,745-foot Big Bear Lake. Outside the contiguous United States, highlights included a continuation of very dry conditions in much of Hawaii and a persistence of bitter

cold in northern Alaska. In Puerto Rico, where seasonal rains diminished a few weeks prematurely, San Juan registered a daily-record high of 89°F on Monday.



State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall none to 0.31 in. north; none to 1.12 in. central; none to 0.01 in. south. Temperatures 3° below normal to 6° above normal statewide. Lows 21 to 31° north; 24 to 33° central; 25 to 36° south. Highs 58 to 64° north; 58 to 70° central; 64 to 70° south.

Seasonal activities: Weaning calves, selling cattle, other seasonal chores.

ARIZONA: Temperatures 3° to 8° above normal. Extremes 27°; 78° deserts. Precipitation reported in all areas, 0.01 in. to 1.00 in.

Fieldwork slowed by rain, holidays. Cotton harvested 100%, 100% 1993, 100% avg. Stalk shredding, plowdown active, early week. Alfalfa condition mostly good. Harvest light. Sheeping off moderate. Stand renovation, stands established normal to above normal. Lemon, grapefruit, navel orange harvest western, central areas. Tangerine harvest central. Pecans central, eastern areas. Vegetable harvest steady. Volume leaders: Iceberg, romaine, Boston, leaf lettuce, broccoli, cauliflower. Also available: Cabbage, endive, escarole, mixed greens, napa, radishes, spinach.

ARKANSAS: Temperatures normal with widespread light rain statewide. Extreme 21°; 64°. Precipitation 0.11 to 1.47 in.

Wheat fields continue to be saturated. Livestock producers feeding hay. Some producers were winter grazing cattle on wheat fields. Livestock in good condition.

CALIFORNIA: A small low pressure system which moved onto the north coast 25th brought light amounts precipitation to the State as far south as Sacramento. A storm pulled up tropical moisture bringing southern areas light rain and snow on 22nd, 23rd. West coast high helped cap fog most valley locations had temperatures below normal. Fair skies above fog allowed for above normal temperatures elsewhere.

Progress field activities gradually improved, drier conditions most areas. Small grains, winter forages, new alfalfa, sugarbeets pre-irrigated, seeded, fertilized, sprayed weeds. Emerging alfalfa, grains, sugarbeets excellent growth. Established alfalfa cross-disced, encourage regrowth. Corn stubble incorporated where soil moisture permitted. Cotton harvest complete. Plowdown for pink bollworm control rapidly winding down, 31st compliance deadlines. General ground preparation for planting small grains, alfalfa, sugarbeets gained momentum. Winter cultural practices continued. Grape growers pruning, shredding brush, tying vines, spraying. Orchards pruned, treated with herbicides. Kiwifruit, Fuji, Granny Smith apples packed from cold storage. Navel orange, lemon, grapefruit, tangerine harvests continued slow pace. Broccoli, cauliflower harvested in Monterey County, Imperial, Coachella, San Joaquin Valleys. Cool weather caused slow heading, late planted cauliflower, San Joaquin Valley. Cabbage harvest, west side Fresno County continued, limited activity Tulare County. Carrot harvest almost complete Riverside County. Celery

harvest continued Monterey, Riverside Counties. Fall head, leaf lettuce fields harvested, Imperial, Coachella Valleys. Fall head lettuce harvest virtually complete, San Joaquin Valley, except few shredder companies. Onions harvested Fresno, Tulare Counties. Processing spinach progressing normally. Spring potatoes planted Kern County. Winter potatoes harvested Riverside County. Other crops harvested included: Oriental vegetables, ginger root, green onions, radishes, turnips. Asparagus fields mowed to encourage regrowth. Preparation, planting of spring crops continued. Pasture, southern regions poor, dry weather. Rangeland pasture, northern, central areas, grew slowly. Rains improved pasture conditions, cold weather inhibited growth. Grasses need more rainfall, warmer temperatures, to sustain optimum growth. Supplemental feeding continued, low nutrient values grasses. Sheep grazed alfalfa fields. Cattle, sheep in good condition.

COLORADO: Very mild weather across State. Temperatures throughout the week remained at or above normal. High winds along Front Range, higher elevations on the 19th. A little precipitation in the west, mountains on 23rd.

Continued mild weather increasing concern winter wheat will break dormancy too early, expose plants to freeze damage in January. Top soils extremely dry in many areas of the State. Major farm activities: Care, feeding of livestock.

FLORIDA: Temperature 5 to 2° below normal. Highs near 70° Panhandle, upper 60s Big Bend, northeast, low 70s central, upper 70s south. Lows: low 30s north, around 40° central, low 40s interior south. Rainfall for week: Panhandle, under 0.10 in., Big Bend near 0.25 in.; central, south 2.00 to 4.00 in. common; local areas recorded over 5.00 in. for week.

Soil moisture short to adequate Panhandle, northern Peninsula, adequate to surplus central, southern Peninsula. Cotton harvest complete. Sugarcane harvest, planting active. Tobacco growers making preparations for seeding tobacco beds. Growers making preparations for spring planted crops. Rain most citrus areas. Advanced maturity causing growers to rapidly harvest their early, midseason fruit. Most processors working around the clock. White, colored grapefruit harvest active for domestic, export use. Tangelo, Dancy tangerine harvest active for the Christmas trade. Early tangerine harvest slow as supplies are low. Caretakers cutting cover crops, banking young trees, placing heaters. Heavy rain, strong wind caused some damage to southern vegetables, especially around Lake Okeechobee. Most crops expected to recover. Harvest slowed due to rain, holiday. Volume leaders: Tomatoes, peppers, cucumbers, squash, snap beans, cabbage, sweet corn, strawberries. Pasture feed very poor 5%, poor 5%, fair 40%, good 45%, excellent 5%. Cattle condition was mostly good.

GEORGIA: Temperatures 2 to 7° above normal northern half, 3 to 2° below normal south. Warmest upper 50s to mid 60s. Coolest 20s north, parts of center and low to mid 30s elsewhere. Rain 2 to 4 days most locations. Rainfall 0.10 to 0.70 in. western

half of State, 0.25 to locally near 3.00 in. eastern half. Greatest rain 3.41 in. Hunter Field.

Soil moisture surplus. Field activities limited most areas. Tobacco bed sowing, onion planting as weather permitted. Routine care of livestock, poultry. Cattle, hogs good.

HAWAII: Weather for the week was generally cool, dry. Showers were mostly at night, confined to the windward, upper elevations. An exception was Kauai which received heavier rains by weekend. Wind usually under 20 mph, becoming 20 to 30 mph by the weekend. Temperatures low 60s to mid 80s in the coastal areas. Rainfall varied from none to 1.00 in.

Lighter winds allowed spray programs to control disease, insects. Cooler temperatures slowed crop development, forage grass growth.

IDAHO: Temperatures 6° below to 9° above normal. Precipitation 0.02 to 1.22 in. north, none to 0.08 in. southwest, none to 0.12 in. south central, none to 0.13 in. southeast. Extreme -8°; 55°. Most areas a few degrees above normal, especially northern areas.

Hay, roughage supply 7% short, 92% adequate, 1% surplus. Some reports of pneumonia in cattle, otherwise livestock reported to be in good condition. Activities: Marketing grain, potatoes, caring for livestock, shop work, educational meetings.

ILLINOIS: Highs in the low to mid 40s north to the mid 40s to around 50° south. These readings were 5 to 11° above normal in the south 7 to 15° above normal in the central, north. Lows were mainly in the upper 20s to low 30s, mostly 6 to 14° above normal. Highest readings for the seven day period were mostly in the 50s to around 60°. Precipitation only up to 0.15 in. across the central, north, southeast, up to 0.60 in. southwest. This was 0.35 to 0.80 in. below normal.

Fertilizer application continues as weather permits. Grain movement is slow. Livestock conditions are good with the mild weather.

INDIANA: Unseasonably mild, dry weather prevailed over the state during the period. High pressure dominated the Midwest with storms limited well to the south, east of the State. Temperatures 6 to 12° above normal with mean highs from the mid 40s to near 50° while average lows were in the mid 20s to mid 30s. Average temperatures middle 30s to the low 40s. No precipitation was noted during the period except for very small amounts along the Ohio River.

Virtually all corn fields are now harvested. Winter wheat remains in mostly good condition. Other activities: Production meetings, purchasing supplies, weaning calves, fall tillage, spreading fertilizer, tax preparation, moving grain, hauling manure, chopping stalks, processing tobacco, equipment maintenance, repair, mending fence, cutting wood, care of livestock. Feedlots dry. Hay supplies mostly adequate.

IOWA: Very mild and foggy, temperatures 11 to 13° above normal. Extremes 52° Quad cities 21st; 10° Rock Rapids 23rd. Light rain southwest on 20th, dry rest of the week. Snowcover diminished to 1 to 4" north half by 25th. Precipitation only trace most areas east and north to 0.18" Lamoni (south central); State average 0.02 in. (normal 0.26 in.).

The piles of corn stored outside are starting to grow smaller. However a considerable amount still remains to be moved

before the end of emergency storage Jan. 7th. Weather has been ideal for livestock producers.

KANSAS: Temperatures across the State were well above normal, 6° above normal in north central, south central districts to 11° above normal in southwest areas. Rainfall amounts were less than 0.10 an inch for all districts.

Seasonally mild temperature continued across the State during the week. Daytime highs in the upper 50s to low 60s were experienced throughout the State. Precipitation amounts averaged less than 0.10 in. in any district. Livestock have had very little stress from the weather so far this year.

KENTUCKY: Temperatures well above normal. Afternoon highs upper 50s to lower 60s. Lows 20s. Temperatures 40°, 4 to 5° above normal. Only a few stations received rainfall, amounts less than 0.25 in.

Topsoil moisture adequate. Soils unfrozen. Fall seeded grains green, mostly good condition. Burley being stripped as weather brings leaf into order, markets reopen 1/9/95. Supplemental feed supplies adequate. Livestock satisfactory condition.

LOUISIANA: Temperatures near to 1.6° above normal. Extremes 23°; 71°. Rainfall none east central, southwest to 0.41 in. northwest.

North rains last week kept soils wet this week, made field work difficult. Ryegrass pastures were lush because of mild temperatures. There was surplus of moisture, soils were saturated which forced some cattlemen to pull herds off low lying ryegrass pastures. One parish reported a grower who was still scrapping a few acres of cotton. Farmers continued booking seed for next season, doing bookkeeping tasks, winterizing equipment. South only fieldwork active sugarcane harvest. Cane harvest neared completion, farmers worked hard to finish before the mills close. Some parishes had completed harvest, others were almost through. Drier weather, cold nights have helped to expedite cane harvest these last few weeks. Rice farmers put off water leveling until after the holidays. Cattlemen actively grazed herds on rye grass, fed hay. Crawfishermen made light catches, prices were good.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.17 in., normal 0.77 in. Temperature 42.0°, normal 35.6°. Extremes 17°; 61°.

Livestock, pasture in good condition. Hay supplies adequate. Small grains in good condition. Activities include maintenance, preparations for spring planting.

DELAWARE: Precipitation 0.14 in., normal 0.86 in. Temperature 40.8°, normal 37.1°. Extremes 25°; 56°.

Small grains in good condition. Cutting firewood. Maintenance, preparation for spring planting. Pasture, livestock in good condition. Hay supplies adequate.

MICHIGAN: Extremes 18°; 54°. Precipitation none to 0.21 in. across the State. Weather has been unusually warm for this time of the year.

Some farmers taking advantage of the warm weather, finishing up the corn. Major activities: Cutting wood, getting ready for Christmas, pruning orchards, repairing machinery, spreading manure, preparing for taxes, planning for 1995.

MINNESOTA: Temperatures 4 to 25° above normal for the State. Extremes -2°; 49°. Precipitation 0.19 in. below normal.

Return of mild weather made for an excellent week for feeding, caring of livestock. Livestock are in excellent condition. Farmers are busy hauling grain to town.

MISSISSIPPI: Temperatures 3.5° above normal. Extremes 23°; 70°. Soil temperature 46°. Precipitation 0.51 in., 0.86 in. below normal. Rainfall 0.06 in. south central district to 1.76 in. north central district.

Days suitable for fieldwork 2.5. Soil moisture 65% adequate, 35% surplus. Livestock 20% fair, 70% good, 10% excellent. Hay supply 100% adequate. Feed grain supply 93% adequate, 7% surplus. Pasture feed 92% of normal. Activities: Feeding livestock.

MISSOURI: Temperatures 5 to 12° above normal. Precipitation 0.34 in., less than 0.25 in. northern, west central, southwestern districts to about 0.80 in. east central, southeastern districts. Wheat, pastures, livestock benefiting from mild weather.

MONTANA: Temperatures remained above normal across the State this week as high pressure continued to dominate the weather pattern. Conditions were mostly dry with the greatest precipitation amounts falling in the western third of the State.

Warm weather diminishing snow cover protectiveness of winter wheat.

NEBRASKA: Temperatures 9 to 16° above normals. Only light precipitation across the State with most amounts less than 0.10 in.

Producer activities included livestock care, routine chores.

NEVADA: No weather data available.

NEW ENGLAND: Precipitation 0.04 to 3.46 in. regionwide. Temperatures 26 to 36° north; 34 to 41° south. Maximum temperatures 48 to 61° north; 50 to 66° south. Minimum temperatures -4 to 28° north; 12 to 26° south. No significant snowfall accumulation to date.

Major farm activities: Caring for livestock, moving crops out of storage, general maintenance.

NEW JERSEY: Temperatures above normal. Temperatures 38° north, 41° south, 42° coastal. Extremes 18°; 60°. Rainfall 0.57 in. north, 0.54 in. south, 0.20 in. coastal. Heaviest 24 hour total 0.89 in. on 23rd, 24th.

NEW MEXICO: Like most of the nation...State experienced a warm week. Temperatures were above normal everywhere, with a statewide 7° above normal. Precipitation was spotty, confined to the Northwest Plateau, south. Greatest amount was 0.44 in. at Ruidoso.

Supplemental feeding continues to take place in most counties. In addition, providing water is a concern of many ranchers. Forecasted storm fronts are projected to bring much needed moisture to the desperate, dry conditions.

NEW YORK: No weather data available.

Major activities: Grading, packing potatoes, onions, apples; tending livestock; maintenance, repair; attending meetings; planning for the holidays. Milder temperatures continued to aid outside activities.

NORTH CAROLINA: No weather data available.

Days suitable for fieldwork 4.1. Soil 7% short, 67% adequate, 26% surplus. Crop conditions: Wheat 21% fair, 72% good, 7% excellent; oats 11% fair, 78% good, 11% excellent; barley 88% good, 12% excellent; rye 10% fair, 80% good, 10% excellent; pasture feed 23% poor, 54% fair, 23% good; soybeans 55% fair, 45% good; hay, roughage supplies 14% short, 79% adequate, 7% surplus; feed grains supplies 57% adequate, 43% surplus; soybeans harvested 95%, 95% 1993, 94% avg. Activities included: Harvesting soybeans, preparing land. Other activities included: Tending livestock; equipment repair, general farm maintenance.

NORTH DAKOTA: Above normal temperatures throughout the State. Temperatures 9° above normal, south central to 17° above normal, southwest, northeast. Extremes -2° south central; 52° southwest.

Snowcover dropped significantly in many areas. Southern districts lacking snowcover. Livestock conditions good to excellent with adequate feed supplies. Livestock marketing normally slow due to holiday season.

OHIO: High pressure dominated the weather across State, producing dry, generally mild weather. Weak low pressure moved by about 22nd. Stronger low pressure moved up the east coast late in the week, over the weekend. This low produced some clouds, little or no precipitation. Temperatures 5 to 11° warmer than normal. Highs in the 40s with average lows in the mid 20s to lower 30s. Extremes 19°; 50°. Soils remained unfrozen, likely experienced a few daily freeze-thaw cycles. Four-inch soil temperatures around 40° maximums, mid 30s for minimums.

OKLAHOMA: Temperatures 1.5° below normal southeast to 4.1° above normal Panhandle. Precipitation none western third of State to 0.41 in. east central.

Wheat pasture in good condition, moisture is becoming short in western areas.

OREGON: Precipitation across State widespread, plentiful, Willamette Valley averaging 0.60 to 0.90 in., elsewhere 0.10 to 0.20 in. Temperatures unseasonably warm. Statewide temperatures 1 to 11° above normal, exception Burns, Lakeview 3 to 2° below normal. Exceptional high freeze levels causing mud slides, heavy stream runoff.

Soil moisture adequate. Winter pruning, dormant spraying continued, fruit orchards, grapes, berries. Supplemental feeding continued statewide.

PENNSYLVANIA: Temperature 39°, 9° above normal. Extremes 18°; 60°. Precipitation 0.20 in., 0.50 in. below normal. Activities: Hauling manure; fixing fence; caring for livestock.

PUERTO RICO: Rainfall 0.63 in. was 0.35 in. below normal. Highest total rainfall 3.11 in. at Arecibo Observatory, 2.87 in. at Lares, 2.10 in. at Mayaguez City. Island temperatures 76 to 78° on the coasts, 72 to 73° interior with mean station temperature 79.6° at WSFO San Juan, Roosevelt Roads to 65.0° at Pico del Este. Extremes 50°; 91°.

SOUTH CAROLINA: Rainfall well above average. Temperatures averaged near normal.

Farm activities: Few activities due to excess rainfall. Pastures, livestock were in good condition.

SOUTH DAKOTA: Temperatures 5 to 15° above normal outside the Black Hills; 15 to 20° above normal in the Black Hills. Extremes 4°; 66°. Only measurable precipitation was 0.10 in. Lead.

Major farm activities: Routine chores, feeding livestock.

TENNESSEE: Temperatures 2 to 4° above normal. Extremes 22° Bristol; 62° Memphis, Jackson, Nashville. Precipitation above normal west, below normal middle, east. Extremes 0.01 in. Nashville, Crossville to 1.76 in. Memphis.

Wheat good condition. Feeding hay.

TEXAS: High pressure maintained mild conditions. Mean temperatures were near, above normal eight of ten climate districts. The largest departures above normal +3° High Plains, Trans-Pecos. Southern one-third Texas had largest departures below normal, -4° Lower Valley, -2° south central Texas. Precipitation light last week, except for departure of +0.07 in., Trans-Pecos, 170% of normal. Rain High Plains, Low Rolling Plains, north central, south central, to 0.17 in. Trans-Pecos. Departures -0.81 in. east Texas to +0.07 in. Trans-Pecos.

Crops: Cotton harvest moved ahead at a good pace Plains under mostly open conditions. Early morning fog, light drizzle some places slowed progress. Harvest also entering final stages in Cross Timbers. A few lingering fields in Northern Blacklands remained too wet to harvest. Cotton 95% harvested; 100% 1993; 95% avg. Peanut harvest winding down many fields in Cross Timbers, Low Plains. Some fields remained too wet for harvest. Open, sunny weather Central Texas allowed fields dry out some. Peanuts 95% harvested; 97% 1993; 97% avg. Small Grains: Open, sunny conditions many parts of State allowed fields to make good progress last week. Dryland fields in High Plains continued to show stress from lack moisture. Irrigation activities remained steady. Many wheat fields Central Texas, Blacklands too wet to provide much grazing. Rust increasing many fields. Producers were also dealing with greenbug problems as conditions allowed. Planting operations winding down many areas. Winter wheat 71% normal compared 63% last year. Other crops: Oats 99% harvested; 99% 1993; 96% avg. Sugarbeets 100% harvested; 91% 1993; 95% avg. Sunflowers 100% harvested; 100% 1993; 97% avg.

Commercial Vegetables: In Rio Grande Valley, damp, drizzly conditions slowed vegetable harvest few mornings; however progress improved by midday most cases. Yields, quality remained good. Citrus harvest also continued brisk pace. Quality remained good. Prices were low. In the San Antonio-Winter Garden area, cabbage, spinach harvest continued as conditions allowed. White rust showing up many fields. In East Texas, harvest operations slowed by rain, rain showers during week many areas. Land preparations also delayed many cases. In the Trans-Pecos area, land preparations for spring planting continued. Red chile pepper harvest remained active. In the High Plains, land preparations continued under open conditions. Pecan harvest winding down many parts of State due short crop. Quality has been down also. Cleanup operations continued. Pecans 80% harvested; 86% 1993; 84% avg.

Range and Livestock: Livestock conditions remained good across much of State due to very mild winter temperatures. Producers, however, supplementing their feed needs because wet

conditions parts of State. Pastures in Plains continued to provide only limited grazing, moisture critically needed in area. Prices improved somewhat.

UTAH: No weather data available.

Major farm, ranch activities were feeding, caring for livestock, preparing year-end records, repairing machinery. Livestock are in good condition, some will have to be supplemented in order to gain weight on winter ranges.

VIRGINIA: Temperatures above normal. Extremes 16°; 61°. Precipitation averaged below normal.

Days suitable for fieldwork 3.6. Topsoil 18% short, 75% adequate, 7% surplus. Pasture feed 3% poor, 30% fair, 33% good, 34% excellent. Livestock condition 6% fair, 94% good. Soybeans harvested 99%, 99% 1993, 97% avg. Small grain, grazing crop condition 1% poor, 14% fair, 72% good, 13% excellent. Forage from pastures, winter grazing crops dairy cattle 8%, beef cattle 22%, sheep 26%. Producers were mainly involved with caring for livestock, pesticide recertification. General farm maintenance, such as fence and equipment repair, was underway.

WASHINGTON: Temperatures 5 to 10° above normal west; 4 to 12° above normal east. Precipitation 0.71 to 5.46 in. west; 0.04 to 3.37 in. east.

Days suitable for fieldwork 4.5. Soil moisture 34% short, 65% adequate, 1% surplus. Hay, other roughage supplies 2% very short, 10% short, 87% adequate, 1% surplus. Range, pasture feed 30% very poor, 43% poor, 17% fair, 10% good. Winter wheat, dryland 13% very poor, 22% poor, 47% fair, 18% good; irrigated, 11% fair, 81% good, 8% excellent. Heavy rains caused flooding on west side of State. Ranges, pastures were muddy. Most of snowcover disappeared. Pruning of fruit trees continued. Oyster, clam, mussel harvest continued.

WEST VIRGINIA: Temperature 37°. Extremes 15°; 60°. Precipitation 0.03 in.

Farm activities: Harvesting corn, soybeans. General maintenance, bookkeeping.

WISCONSIN: Temperature 30°. Extremes 0°; 53°. Precipitation trace. Light to dense fog was somewhere in the State on most mornings during the week.

Farming activity over the past week has picked up with nice weather conditions. Farmers are fixing equipment and buildings. Farmers are busy spreading manure. Many farmers have begun their book work with tax season coming up.

WYOMING: Temperatures were much above normal for nearly the entire State. The only area below normal was around Jackson, which was about 4° below normal. Rest of the State 4 to 15° above normal. Precipitation was below normal across most of State. The exception was the eastern part of State, where areas around Gillette, Douglas, Lusk, Wheatland received above normal precipitation. Amounts of precipitation ranged from a tenth of an inch to eight tenths of an inch. Nearly all areas of the northern and eastern parts of the State received some moisture.

Hay, roughage supplies are mostly short but the livestock condition is good to excellent.

International Weather and Crop Summary

HIGHLIGHTS

December 18 - 24, 1994

FSU-WESTERN: A blanket of snow provided some protection to winter grains as bitter cold dominated the region.

NORTHWESTERN AFRICA: Much-needed rain aided crop establishment in eastern Algeria, but dryness hampered development in Morocco.

EUROPE: Heavy precipitation soaked the Adriatic region but dryness persisted in Spain.

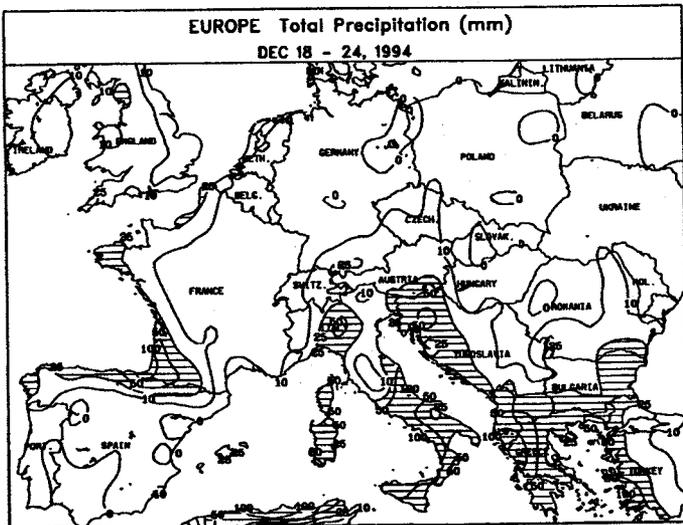
SOUTHEAST ASIA: Typhoon Axel brought heavy rain and localized flooding to the central Philippines.

SOUTH AFRICA: Rain benefited eastern corn and sugarcane areas but drought continued in western corn areas.

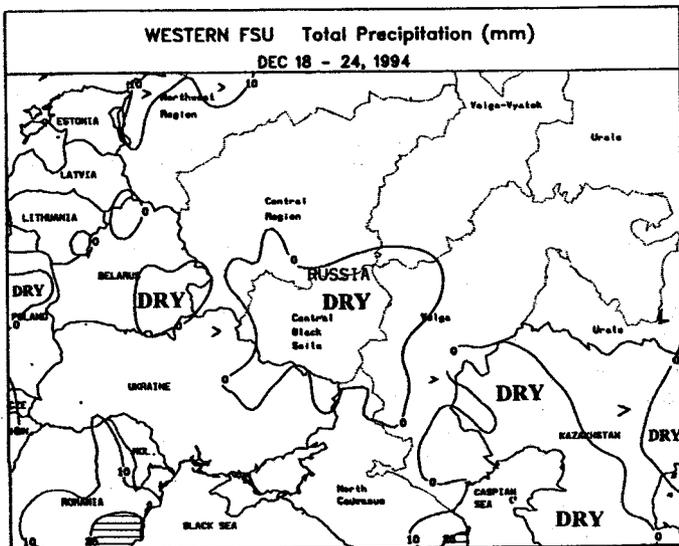
AUSTRALIA: Late-week showers brought some relief to heat-stressed summer crops.

EASTERN ASIA: Wheat in the North China Plain was becoming dormant.

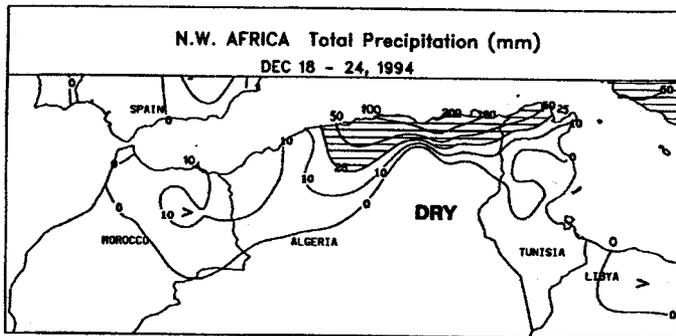
SOUTH AMERICA: Drier, warm weather prevailed in Argentina. Widespread rain soaked soybean areas in Brazil.



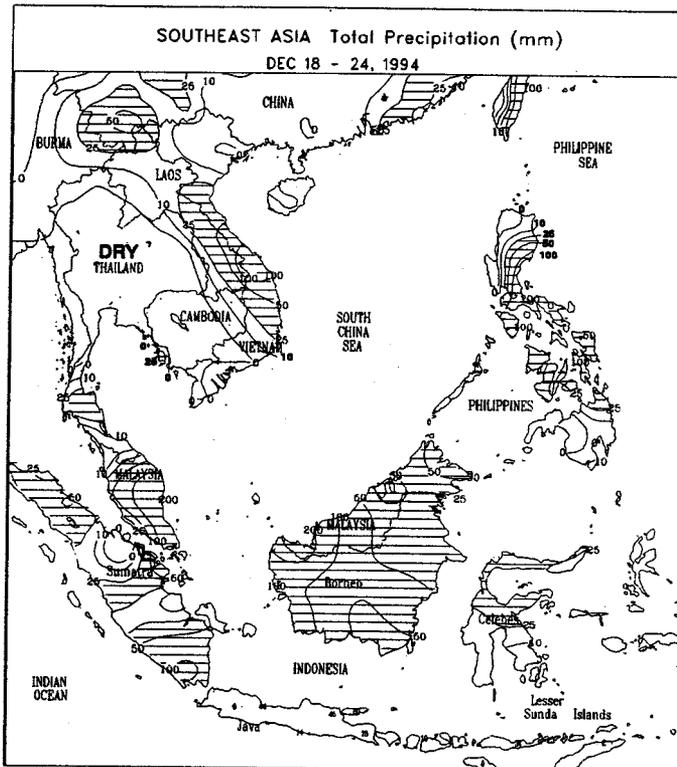
EUROPE: Locally heavy precipitation (50-130 mm or more) fell over the Adriatic region, including nearly all of Italy, western portions of the former Yugoslavia, and most of Greece. In the Balkan region, beneficial moisture (8-36 mm) increased topsoil reserves in Bulgaria and southern Romania for dormant winter grains. Light precipitation (7 mm or less) fell over northern and most of western Europe. Heavier rain (10-31 mm) covered much of England and brushed the west coast of France, with 50-105 mm of liquid equivalent precipitation falling in western portions of the Pyrenees. Dryness unfavorable for winter grain establishment persisted in Spain, however. Seasonable temperatures prevailed over Europe. Daytime high temperatures averaged near freezing in the east and around 5 degrees C in the west, except for the warmer Mediterranean region.



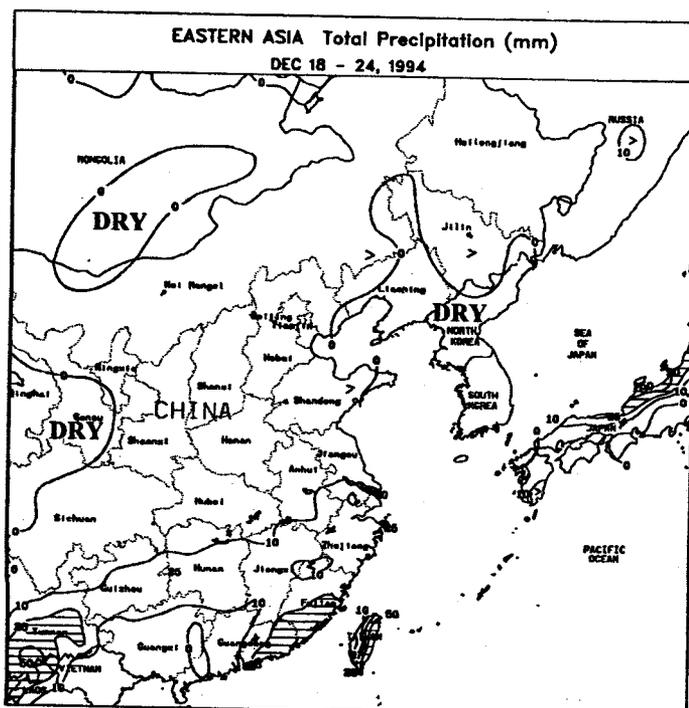
FSU-WESTERN: A cold, dry week prevailed over the winter grain areas. A blanket of snow protected winter crops from bitter cold air which dominated the region early in the week. Snow depth was greatest where temperatures were persistently the coldest. Minimum temperatures fell to as low as -31 degrees Celsius (C) over northern Black Soils Region and Central Region in Russia. In Ukraine, lowest minimum temperatures ranged from -27 degrees C in the extreme north to -11 degrees C across the extreme south, with snow cover reaching close to the Black Sea coast. A gradual warming occurred from west to east during the week, with minimum temperatures moderating 5-10 degrees above the early-week extreme by week's end. As a result, weekly temperatures averaged 4-12 degrees C below normal across the region.



NORTHWESTERN AFRICA: Much-needed rain (25-100 mm or more) fell over winter grain areas of eastern Algeria, improving topsoil moisture for crop emergence and early development. Winter crop areas of Tunisia also benefited from weekly rainfall averaging 15-50 mm or more. In both eastern Algeria and Tunisia, rainfall diminished to 10 mm or less farther inland in southern-most growing areas. Variable, but mostly light showers (8-22 mm) dampened topsoils in western Algeria. Widely scattered showers (1-11 mm) brought little relief to winter grain areas of Morocco. Soil moisture continued to be unfavorably low for winter grain establishment in Morocco and western Algeria.

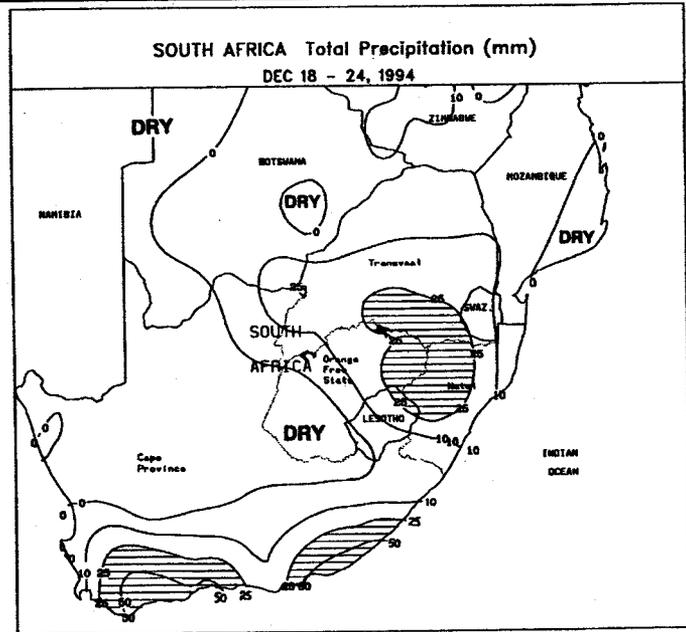


SOUTHEAST ASIA: Typhoon Axel hit the central Philippines with sustained winds of about 90 knots, bringing locally heavy rain (100-200 mm or more) to a broad area from central Luzon to the southern Visayas. Some flooding was likely, especially in southern Luzon where the heaviest rain fell. Crops in the affected area include rice, corn, sugarcane, and copra. Elsewhere, heavy showers (50-131 mm) covered minor rice areas along Vietnam's central coast. Farther south, heavy rain (100-219 mm) in sections of Malaysia, including oil palm areas, likely caused some localized flooding. In contrast, rainfall tapered off over Java, with only a few locations reporting more than 50 mm.

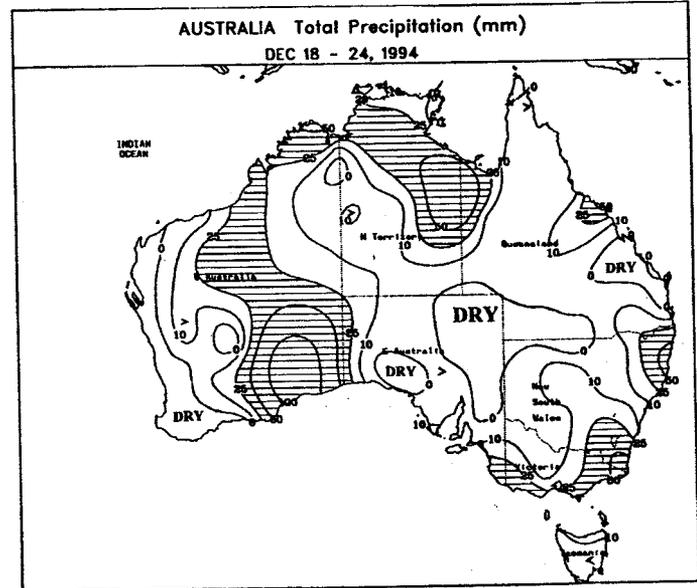


EASTERN ASIA: Seasonal cooling continued throughout the North China Plain, causing much of the crop to enter dormancy. Temperatures averaged 5 degrees C or less as far south as northern Jiangsu, leaving only the southernmost crops awaiting dormancy. Temperatures in the southern wheat areas averaged 1-2 degrees C above normal, with lows dipping down to about -2 degrees C. Precipitation across the region was seasonably light (less than 5 mm). Elsewhere, light to moderate showers (10-25 mm or more) continued south of the Yangtze Valley, boosting irrigation reserves.

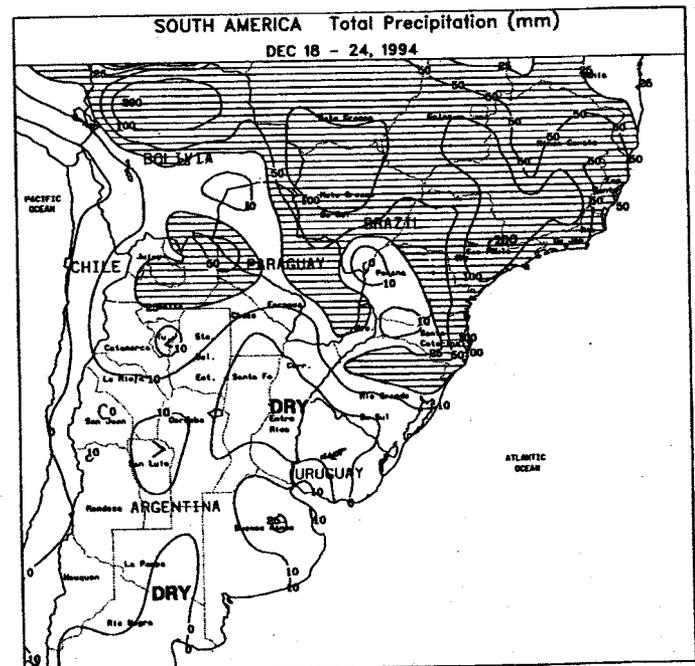
SOUTH AFRICA: Beneficial rain (10-44 mm) covered a large section of the eastern corn belt, maintaining generally favorable conditions for vegetative corn. Unseasonably heavy rain (25-89 mm) swept across southern and eastern crop areas of the Cape Province, and by December 25 had reached rainfed sugarcane in southern Kwazulu-Natal. Dry, warm weather persisted in western corn areas, with a large section of southern Orange Free State receiving no rain at all. Corn planted from this point in the season is considered late and runs a high risk of summer heat stress. Long-season varieties planted this late in the season are also at risk from early frost (mid- to late-April).



AUSTRALIA: Early-week heat stress beset Australia's summer crops, with highs in primary crop areas of Queensland and New South Wales ranging from 38-44 degrees C. At week's end, highly beneficial rain (5-25 mm or more) moved through the east, with many locations in southeastern Queensland and eastern New South Wales receiving at least 10 mm. The rains came partly from the remnants of Tropical Cyclone Annette, which struck non-agricultural areas of Western Australia earlier in the week. Weekly temperatures in eastern Australia averaged 3-7 degrees above normal, while milder weather accompanied the late week rain. In Western Australia, mostly dry weather favored wheat harvesting.



SOUTH AMERICA: In Argentina, variable showers covered the summer crop areas, with 6-33 mm in Buenos Aires but mostly 5 mm or less in Cordoba and Santa Fe. Corn is entering the reproductive phase with improved topsoil moisture following the previous week's widespread rain. Daily high temperatures in the low to mid 30's C this week maintained rapid drying conditions, however. While the warm, dry weather favored wheat harvesting, above-average temperatures and limited soil moisture were untimely for reproductive corn. Dry weather also returned to northern cotton areas. In south-central Brazil, widespread rain covered most crop areas, with only patchy dryness in extreme western Parana and southern Rio Grande do Sul. Heavy rain (50-150 mm or more) soaked northern soybean areas as well as cotton, citrus and coffee areas. Soybeans ranged from emergence to early blooming, with mostly favorable soil moisture.



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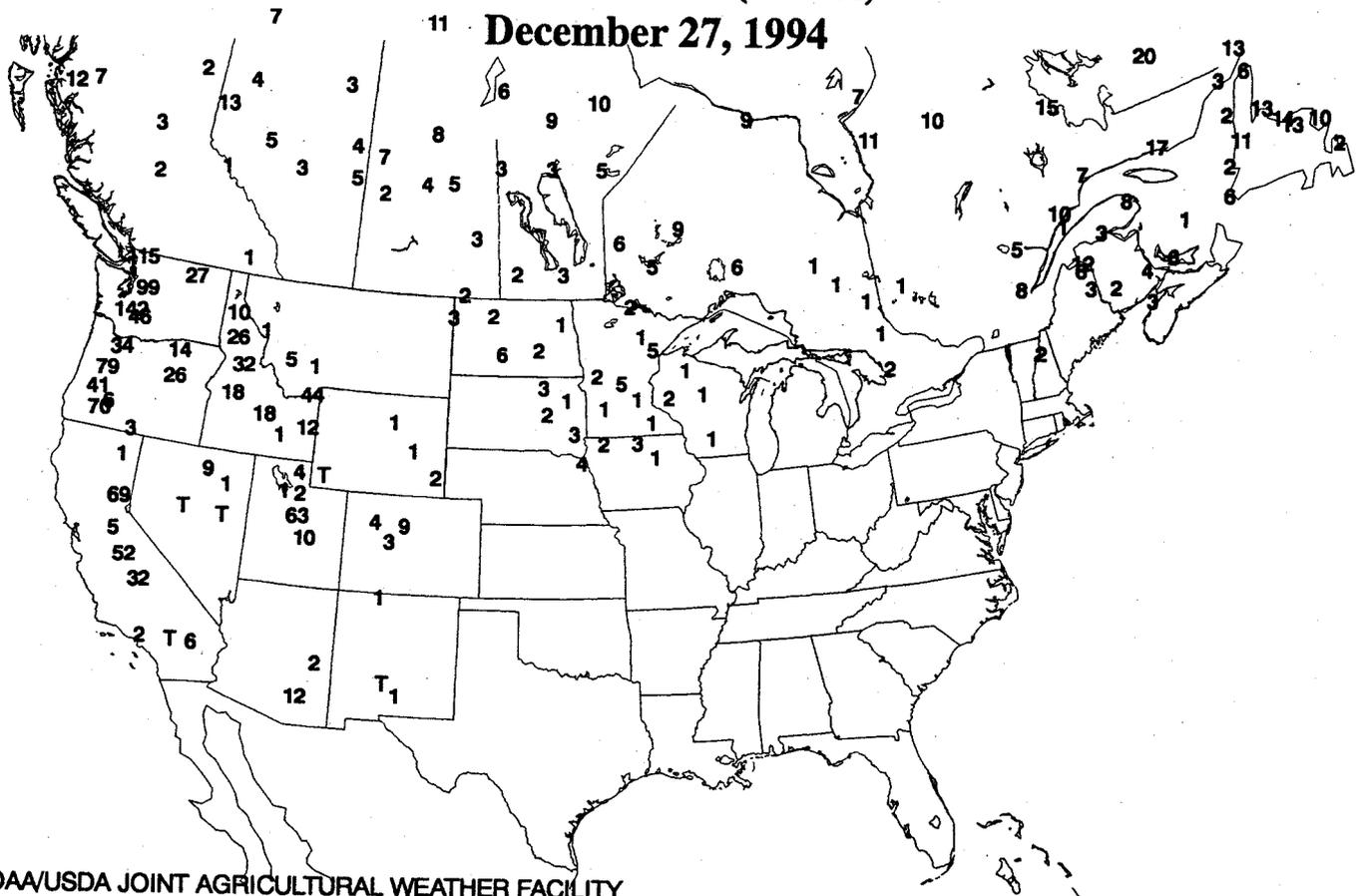
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