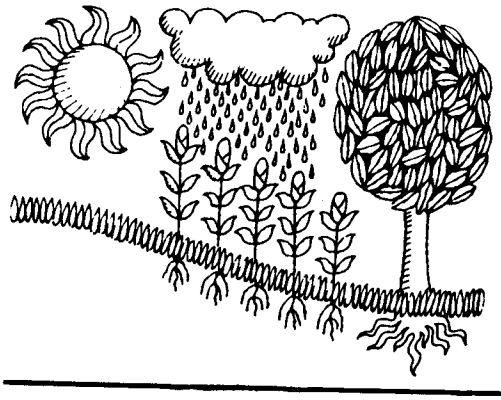

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service and World Agricultural Outlook Board

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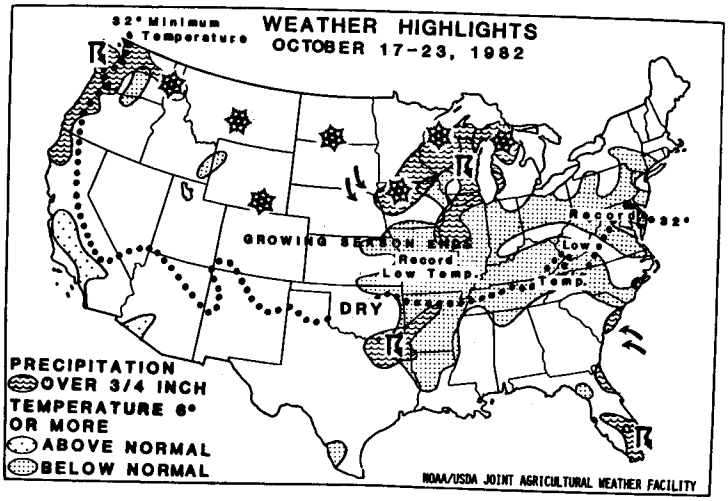
National Weather Summary



HIGHLIGHTS: A cold outbreak in the northern Rockies early in the week gradually spread southward and eastward until it covered all of the area east of the Rockies. Freezing temperatures pushed southward through the Rockies and to a line from the northern Texas Panhandle to Virginia. Cold temperatures effectively ended the growing season for most fall-harvested crops north of this line. As the cold air advanced, snow fell from Nebraska to northern Michigan and accumulated in fields. The heavy, wet snow may have hurt some crops, but accumulations melted rapidly. At the end of the week, a low-pressure system formed along the southeast coast and began pounding the coastal area with wind and rain.

SUNDAY . . .Early-morning freezing temperatures spread through the Great Lakes and southward to cover the middle and upper Ohio Valley and the southern Appalachians. Record-low temperatures were set from Baltimore, Md., to Ashville, N.C. Mild temperatures spread through the Plains ahead of a cold front moving through the Northwest. Showers of rain or snow developed over Washington and Oregon and spread to Montana and North Dakota.

MONDAY . . .The cold weather moved eastward, and freezing temperatures covered the inland portion of the East Coast States southward to North Carolina. The cold front in the Northwest moved into the northern Plains and brought much cooler weather to the northern Rockies, High Plains, and the Dakotas. Snowshowers fell through the northern Rockies, and a mixture of rain and snow extended over the High Plains of Montana into North Dakota. Rainshowers reached to the western Great Lakes and to Nebraska and northern Illinois.

TUESDAY . . .A strong cold front pushed thunderstorms through the Mississippi Valley to the lower Ohio Valley. Behind the cold front, strong northerly winds and locally heavy snowshowers combined to create hazardous conditions through Nebraska and eastern South Dakota to northern Wisconsin. Half a foot of snow covered the ground in some parts of Nebraska, Iowa, and Minnesota but rapidly melted in most areas. Thunderstorms reached from eastern Texas into lower Michigan.

WEDNESDAY . . .The cold air behind the front dropped temperatures rapidly through all but the extreme southern Plains. Freezing temperatures reached the western half of Oklahoma and into the northern Texas Panhandle. Goodland, Kans., dropped to 22°. Heavy snowshowers fell in northern Wisconsin and upper Michigan, and rainshowers and some thunderstorms covered the rest of the northeastern quarter of the Nation. A few showers were scattered through central Texas and along the northwest coast from northern California through Washington.

THURSDAY . . .The cold front moved through Eastern and Southern United States to the Atlantic Ocean and Gulf of Mexico. A few showers remained along the coast of New England, and heavier showers persisted in the Southeast from Georgia to North Carolina. Showers and thunderstorms were heavy at times in north-central Texas. Another cold front brought showers to the Northwest from northern California to Washington and Idaho. The large mass of cold air covered all of the area east of the Rockies except the southern tip of Texas and Florida.

FRIDAY . . .The cold air was still pouring into the area east of the Rockies, and record-cold morning temperatures--in the low twenties--were reported in much of Missouri. Another cold front, in the Pacific Northwest spread rainshowers along the northern half of the Pacific coast and over the central and northern Plateau to Utah and western Montana. A storm in the Gulf of Mexico spread showers over Florida and the southeast coast.

(continued on back cover)

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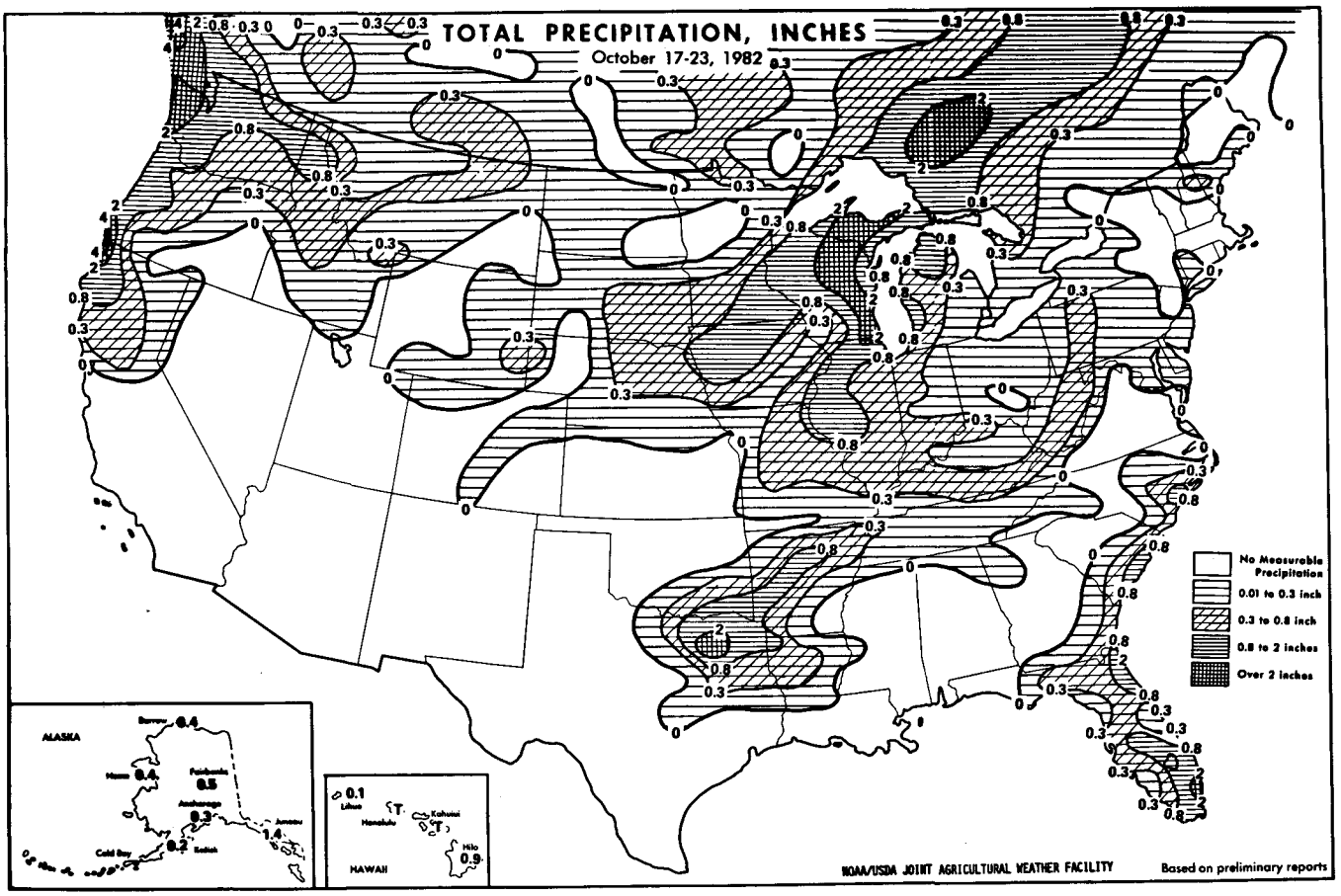
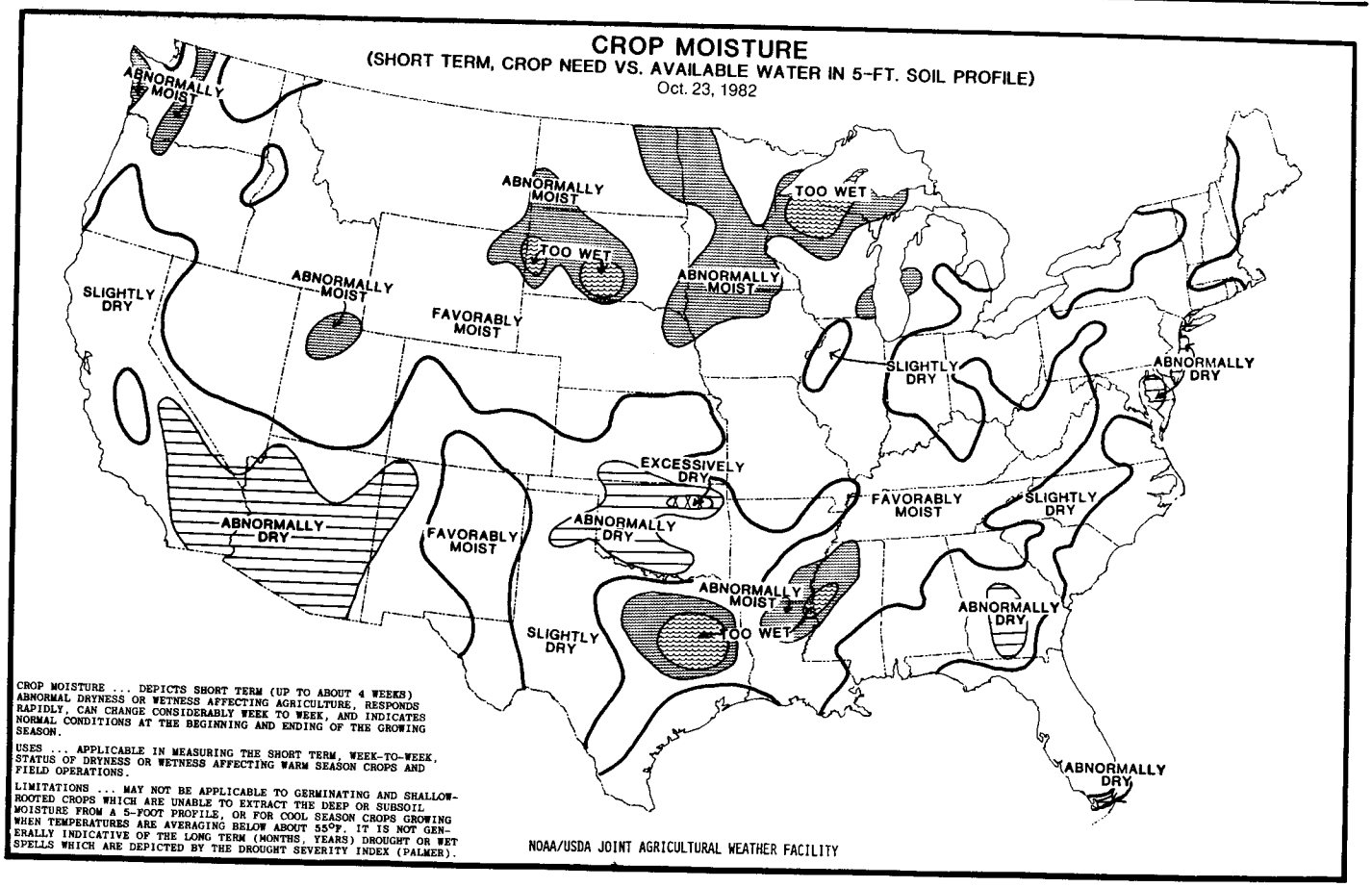
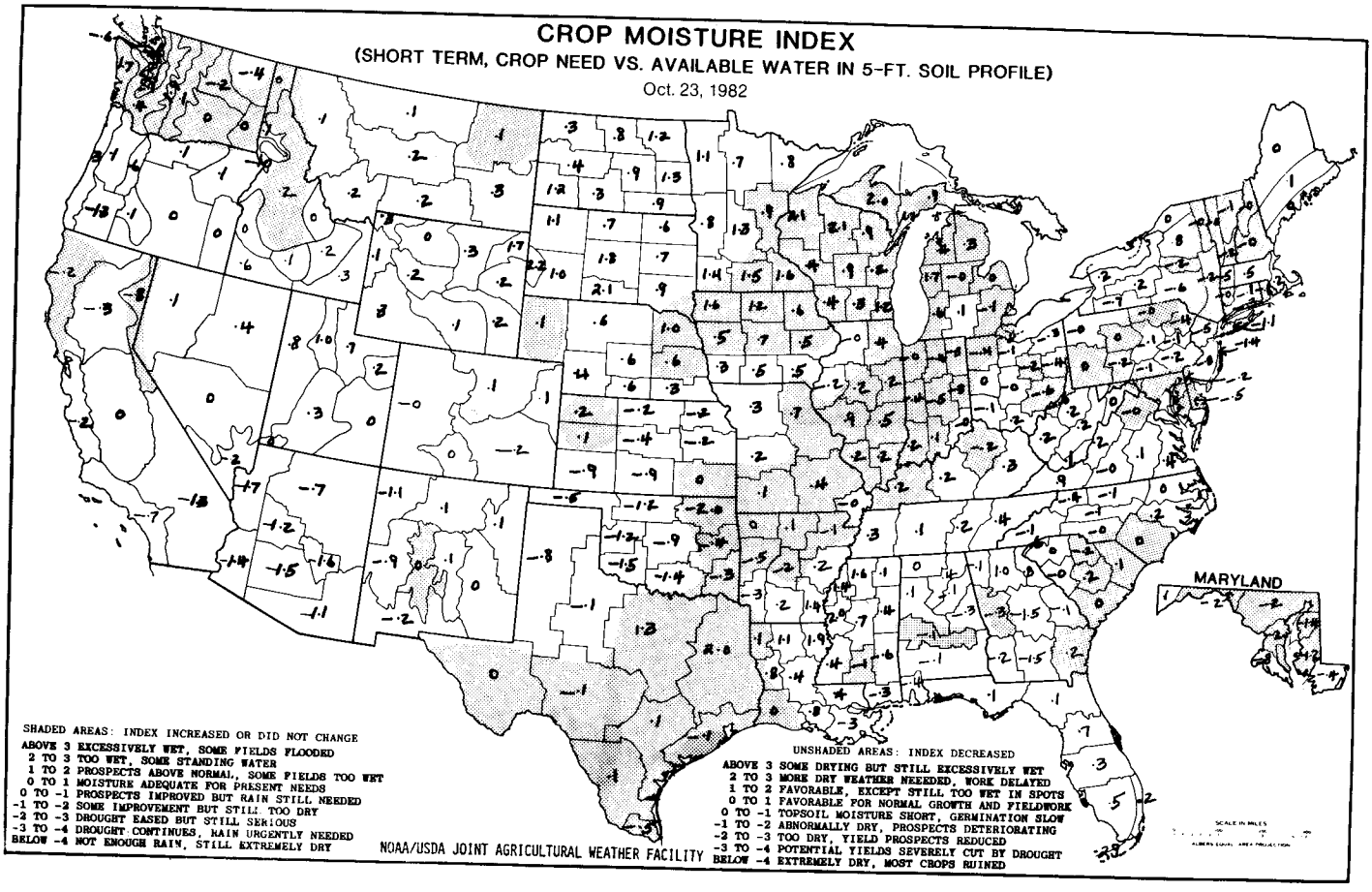


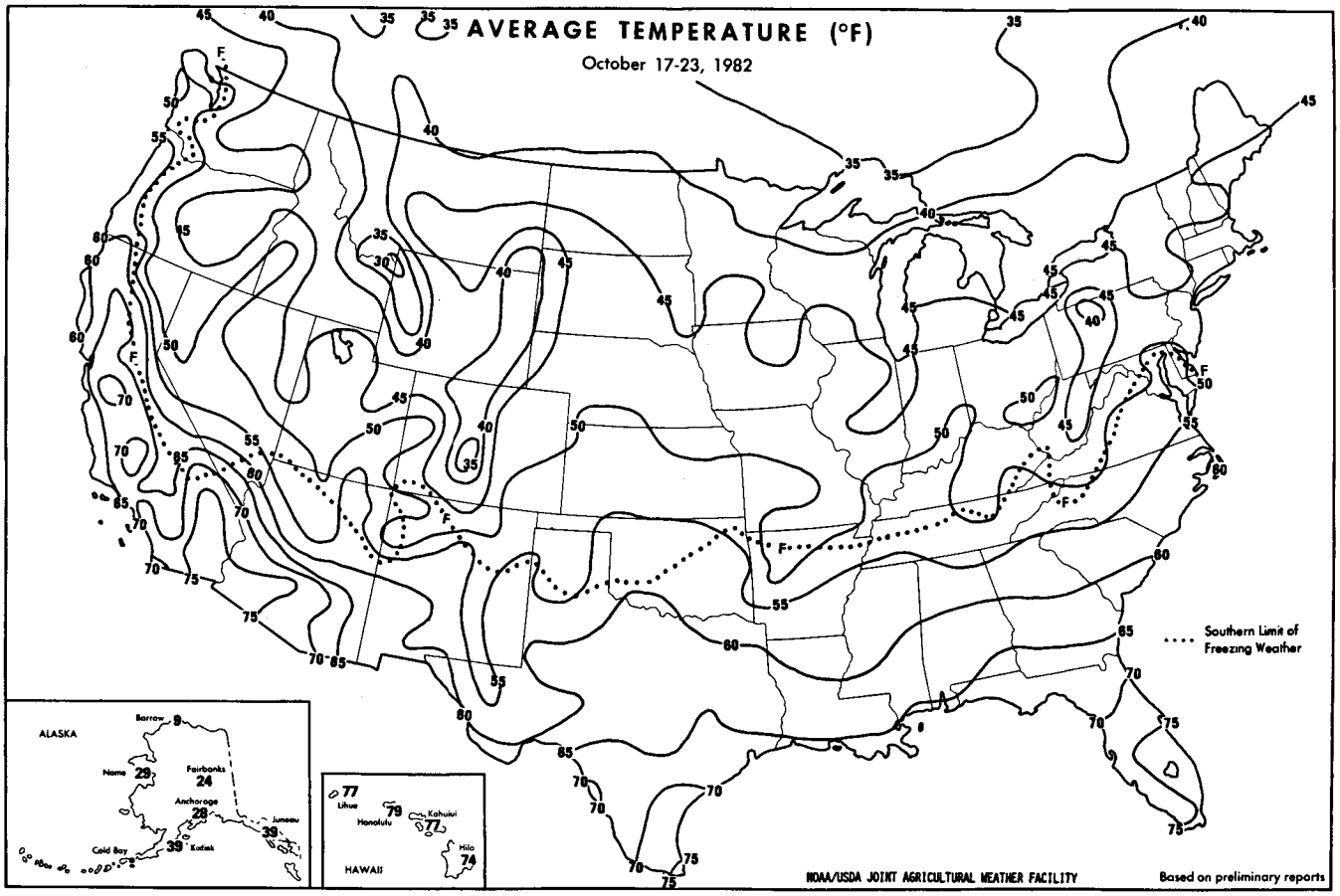
Heating Degree Days (Base 65° F.) — September 1982

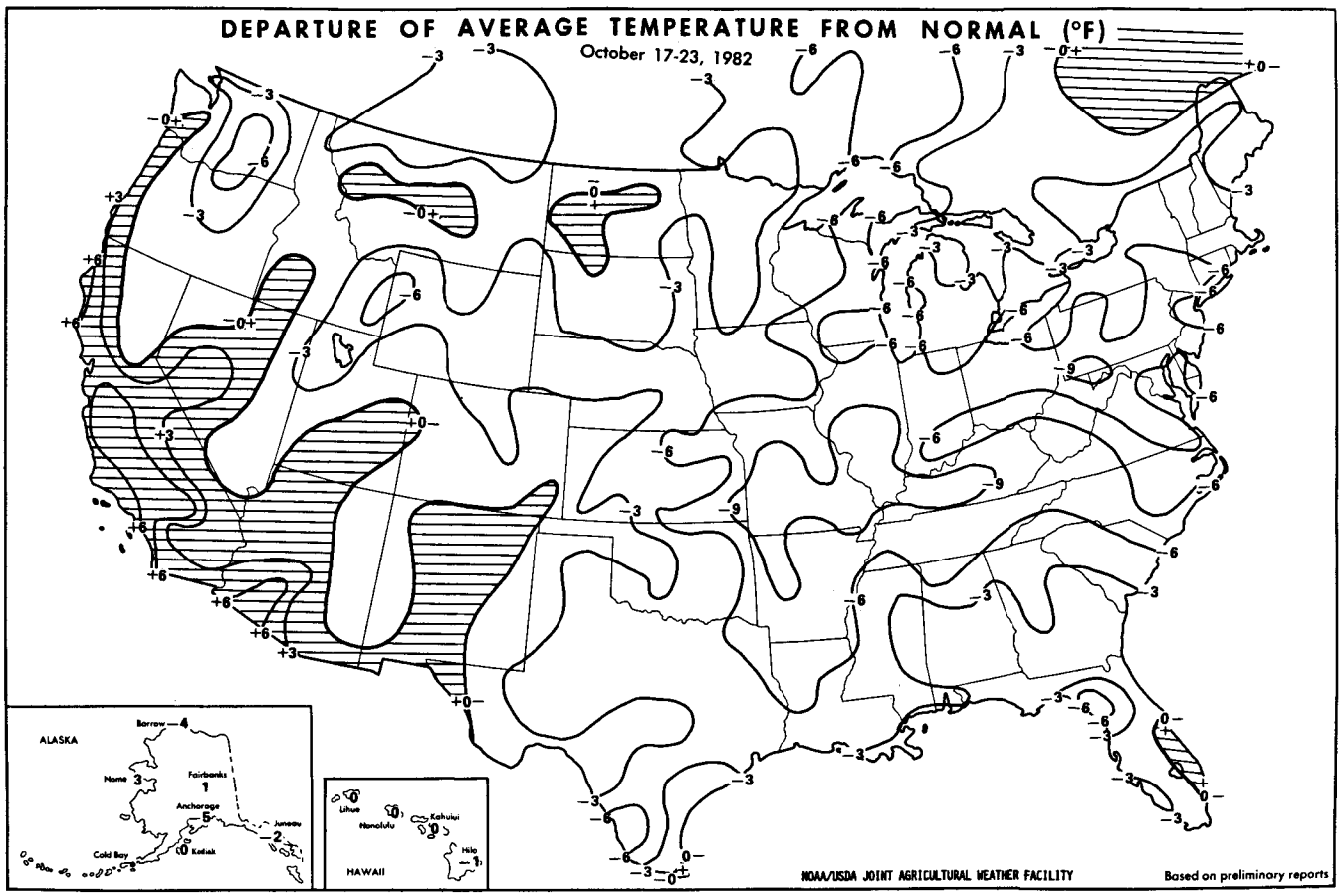
ALA.Birmingham	M	ILL.Cairo U.	40	MO.Columbia	88	Dayton	102	Waco	1
Mobile	5	Chicago	152	Kansas City	78	Toledo	148	Wichita Falls	4
Montgomery	5	Moline	110	St. Louis	49	Youngstown	161	UTAH, Milford	174
ALASKA,Anchorage	520	Peoria	94	Springfield	68	OKLA.Okla. City	14	Salt Lake City	134
Barrow	1057	Rockford	156	MONT.Billings	215	Tulsa	23	VT.Burlington	124
Fairbanks	465	Springfield	86	Glasgow	271	OREG.Astoria	152	VA.Lynchburg	33
Juneau	M	IND.Evansville	52	Great Falls	342	Burns U.	358	Norfolk	6
Nome	590	Fort Wayne	124	Havre	310	Medford	114	Richmond	10
ARIZ.Flagstaff	188	Indianapolis	110	Helena	304	Pendleton	171	Roanoke	61
Phoenix	0	South Bend	114	Kalispell	344	Portland	100	WASH.Colville	-
Tucson	0	IOWA,Burlington	M	Miles City	226	Salem	128	Omak	-
Winslow	32	Des Moines	113	Missoula	267	PA.Allentown	82	Quillayute	215
Yuma	0	Dubuque	-	NEBR.Grand Island	139	Erie	126	Seattle-Tacoma	141
ARK.Fort Smith	28	Sioux City	132	Lincoln	118	Harrisburg	67	Spokane	194
Little Rock	21	KANS.Concordia	78	Norfolk	140	Philadelphia	31	Walla Walla U.	-
CALIF.Bakersfield	2	Dodge City	30	North Platte	160	Pittsburgh	119	Yakima	164
Eureka U.	181	Goodland	106	Omaha	123	Scranton	112	W.VA.Beckley	143
Fresno	13	Topeka	93	Valentine	189	R.I.Providence	78	Charleston	69
Los Angeles U	0	Wichita	37	NEV.Ely	311	S.C.Charleston	0	Huntington	99
Red Bluff	9	KY.Lexington	75	Las Vegas	10	Columbia	18	Parkersburg U.	-
Stockton	9	Louisville	56	Reno	278	Greenville	24	WIS.Green Bay	250
San Diego	0	LA.Baton Rouge	3	Winnemucca	258	S.DAK.Aberdeen	-	Madison	230
San Francisco	47	Lake Charles	4	N.H.Concord	169	Huron	168	Milwaukee	170
COLO.Denver	151	New Orleans	0	N.J.Atlantic City	65	Rapid City	216	WYO.Casper	276
Grand Junction	61	Shreveport	9	Trenton U	-	Sioux Falls	188	Cheyenne	264
Pueblo	63	MAINE,Caribou	310	N.MEX.Albuquerque	23	TENN.Chattanooga	29	Lander	329
CONN.Bridgeport	66	Portland	185	Roswell	-	Knoxville	30	Sheridan	257
Hartford	96	MD.Baltimore	42	N.Y.Albany	156	Memphis	20		
D.C.Washington	9	MASS.Boston	71	Binghamton	147	Nashville	30		
FLA.Apalachicola	0	Chatham	105	Buffalo	140	TEX.Abilene	0		
Ft. Myers	0	MICH.Alpena	258	New York	36	Amarillo	23		
Jacksonville	0	Detroit	145	Rochester	113	Austin	0		
Key West	0	Flint	163	Syracuse	152	Beaumont	0		
Lakeland U.	-	Grand Rapids	140	N.C.Asheville	74	Brownsville	0		
Miami	0	Houghton Lake	255	Charlotte	20	Corpus Christi	0		
Orlando	0	Lansing	184	Greensboro	38	Dallas	-		
W. Palm Beach	0	Marquette U	350	Hatteras R.	0	Del Rio	0		
Tallahassee	1	S. Ste. Marie	338	Raleigh	14	El Paso	0		
Tampa	0	MINN.Duluth	332	Wilmington	3	Fort Worth	1		
GA.Atlanta	16	Internatl Falls	354	N.DAK.Bismarck	291	Galveston U.	0		
Augusta	6	Minneapolis	168	Fargo	257	Houston	0		
Macon	3	Rochester	178	Williston U	278	Lubbock	0		
Savannah	0	St. Cloud	244	OHIO.Akron-Canton	127	Midland	0		
IDAHO,Boise	182	MISS.Jackson	19	Cincinnati U.	56	San Angelo	0		
Lewiston	117	Meridian	8	Cleveland	136	San Antonio	0		
Pocatello	216	Vicksburg U	M	Columbus	105	Victoria	0		

Preliminary reports from airport locations, except those marked U for urban and R for rural.
*Estimated.


CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Oct. 23, 1982
ABNORMALLY MOIST
SLIGHTLY DRY
ABNORMALLY MOIST
FAVORABLY MOIST
ABNORMALLY MOIST
TOO WET
TOO WET
ABNORMALLY MOIST
SLIGHTLY DRY
ABNORMALLY DRY
EXCESSIVELY DRY
ABNORMALLY DRY
FAVORABLY MOIST
FAVORABLY MOIST
ABNORMALLY DRY
SLIGHTLY DRY
ABNORMALLY MOIST
TOO WET
FAVORABLY MOIST
SLIGHTLY DRY
ABNORMALLY DRY
ABNORMALLY DRY
CROP MOISTURE ... DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND ENDING OF THE GROWING SEASON.
USES ... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.
LIMITATIONS ... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW-ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX (PALMER).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


CROP MOISTURE INDEX
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Oct. 23, 1982
MARYLAND
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY
UNSHADED AREAS: INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


AVERAGE TEMPERATURE (°F)
October 17-23, 1982
Southern Limit of Freezing Weather
ALASKA
Barrow 9
Nome 29
Fairbanks 24
Anchorage 28
Juneau 39
Cold Bay 39
Kodiak
HAWAII
Lihue 77
Honolulu 79
Kahului 77
Hilo 74
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
October 17-23, 1982
ALASKA
Barrow -4
Nome 3
Fairbanks 1
Anchorage 5
Juneau -2
Cold Bay 2
Kodiak 0
HAWAII
Lihue 0
Honolulu 0
Kahului 0
Hilo -1
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

Weather Data for the Week Ending Oct. 23, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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 Aug. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	71	47	78	39	59	-3	0	- .6	0	3.7	51	53.7	127	84	39	0	0	0	0
MOBILE	74	53	82	45	64	-4	T	- .4	T	6.3	57	62.3	112	86	48	0	0	1	0
MONTGOMERY	76	52	84	42	64	-1	0	- .4	0	3.9	53	49.3	125	82	42	0	0	0	0
AK ANCHORAGE	33	23	42	15	28	-5	.3	0	.2	8.6	179	15.5	124	83	57	0	7	2	0
BARROW	15	4	35	-9	9	-4	.4	.2	.3	1.3	76	4.6	102	87	69	0	7	2	0
FAIRBANKS	28	20	38	7	24	1	.5	.4	.5	2.5	119	10.8	110	74	53	0	6	4	0
JUNEAU	44	35	46	28	39	-2	1.4	- .4	.4	11.4	66	38.0	91	99	80	0	2	7	0
KODIAK	44	34	54	28	39	0	.2	- 1.2	.2	12.3	88	47.9	110	68	41	0	3	2	0
NOME	35	23	43	12	29	3	.4	.1	.3	5.7	124	16.4	114	77	53	0	6	5	0
AZ PHOENIX	91	62	94	58	76	6	0	- .1	0	.1	8	5.8	107	39	11	5	0	0	0
PRESCOTT	75	42	77	39	59	3	0	- .2	0	.7	26	10.8	72	40	14	0	0	0	0
TUCSON	86	52	89	48	69	1	0	- .1	0	2.2	92	10.5	113	37	9	0	0	0	0
YUMA	93	64	98	61	79	4	0	- .1	0	.1	13	2.9	138	35	12	6	0	0	0
AR FORT SMITH	69	41	81	33	55	-7	.1	- .7	.1	3.2	39	35.3	101	87	37	0	0	1	0
LITTLE ROCK	66	44	80	35	55	-7	.3	- .4	.3	2.7	36	43.3	116	79	45	0	0	2	0
CA BAKERSFIELD	82	61	87	57	72	6	0	- .1	0	.5	250	5.3	136	75	35	0	0	0	0
EUREKA	68	53	74	42	61	7	1.0	.2	.5	2.1	57	26.5	106	86	64	0	0	5	0
FRESNO	80	57	87	47	68	6	T	- .1	T	1.1	183	9.7	145	77	35	0	0	1	0
LOS ANGELES	78	61	91	58	69	5	0	0	0	.8	400	9.4	122	87	47	1	0	0	0
RED BLUFF	73	55	77	47	64	0	.5	.2	.3	1.9	158	14.7	104	79	39	0	0	3	0
SACRAMENTO	74	52	79	45	63	1	.1	- .2	.1	1.9	173	20.0	160	89	41	0	0	3	0
SAN DIEGO	80	63	89	60	71	6	0	- .1	0	.4	133	9.4	159	83	48	0	0	0	0
SAN FRANCISCO	72	57	77	47	65	4	T	- .2	T	.9	113	23.5	197	76	45	0	0	2	0
CO DENVER	63	33	73	27	48	-2	.2	- .1	.2	2.7	96	11.4	86	76	26	0	4	1	0
GRAND JUNCTION	67	39	74	34	53	0	0	- .2	0	2.8	122	6.6	96	54	19	0	0	0	0
PUEBLO	69	31	78	26	50	-3	0	- .2	0	2.1	111	14.4	133	81	20	0	4	0	0
CT BRIDGEPORT	57	37	68	29	47	-9	.1	- .5	.1	1.9	30	37.5	125	85	43	0	2	1	0
HARTFORD	60	33	71	24	46	-5	T	- .6	T	5.0	67	42.9	130	86	36	0	4	1	0
DC WASHINGTON	63	43	74	36	53	-5	.1	- .5	.1	2.4	36	30.0	94	78	40	0	0	2	0
FL APALACHICOLA	75	58	82	52	67	-3	.1	- .3	.1	22.9	159	64.9	130	88	64	0	0	2	0
DAYTONA BEACH	79	64	82	58	71	-1	.9	- .2	.9	7.0	46	44.9	102	84	57	0	0	3	1
JACKSONVILLE	78	57	83	47	67	-2	2.2	1.3	1.2	13.4	89	48.3	99	99	59	0	0	3	2
KEY WEST	82	72	84	69	77	-2	1.2	.1	.8	8.5	56	34.9	102	83	59	0	0	3	1
MIAMI	83	70	88	64	77	-1	2.2	.4	1.0	15.8	78	59.1	112	93	56	0	0	4	2
ORLANDO	82	63	87	57	73	-1	.1	- .7	.1	7.8	57	50.1	108	91	52	0	0	1	0
TALLAHASSEE	79	56	84	42	68	-1	.4	- .1	.4	7.7	68	52.1	98	91	49	0	0	2	0
TAMPA	80	64	85	60	72	-1	.5	0	.5	13.5	125	54.2	122	95	58	0	0	1	0
WEST PALM BEACH	84	71	88	59	78	1	1.1	- .8	.9	11.1	50	64.4	117	78	51	0	0	4	1
GA ATLANTA	67	46	75	42	57	-4	.1	- .5	.1	9.0	134	47.1	120	83	48	0	0	1	0
AUGUSTA	71	49	82	42	60	-3	T	- .5	T	5.6	38	33.9	94	86	46	0	0	1	0
MACON	75	49	83	42	62	-2	0	- .5	0	3.6	35	37.6	104	95	50	0	0	0	0
SAVANNAH	73	53	82	47	63	-2	.5	0	.5	4.7	47	48.1	107	88	53	0	0	2	1
HI HILO	81	67	81	64	74	-1	.9	- 1.8	.3	21.1	101	158.4	162	92	61	0	0	6	1
HONOLULU	87	70	89	66	79	0	T	- .4	T	.6	29	23.3	154	79	45	0	0	1	0
KAHULUI	86	68	89	62	77	0	T	- .3	T	.4	36	23.3	193	80	46	0	0	1	0
LIHUE	84	69	85	65	77	0	.1	- .8	.1	2.9	48	49.0	166	90	58	0	0	1	0
ID BOISE	64	39	73	29	51	1	.1	- .2	.1	2.0	154	9.5	108	70	28	0	3	1	0
LEWISTON	59	39	74	32	49	-1	.6	.4	.5	1.7	85	9.8	100	91	49	0	1	2	0
POCATELLO	59	30	67	17	44	-3	.1	- .1	.1	4.0	333	13.8	164	84	32	0	4	2	0
IL CHICAGO	57	33	72	22	45	-7	.7	.2	.5	3.0	46	29.7	110	89	42	0	4	3	1
MOLINE	57	35	73	24	46	-7	1.4	.8	1.3	5.2	66	34.4	114	79	42	0	3	3	1
PEORIA	57	34	71	25	46	-8	.7	.1	.7	3.0	40	34.8	116	85	45	0	4	1	1
QUINCY	58	36	71	30	47	-7	1.0	.3	1.0	6.4	74	36.6	--	86	47	0	3	1	1
ROCKFORD	56	35	72	24	45	-6	.8	.2	.8	4.6	58	33.7	108	94	50	0	3	2	1
SPRINGFIELD	57	34	73	24	45	-10	1.1	.5	1.1	6.5	88	31.9	110	84	51	0	4	1	1
IN EVANSVILLE	65	38	76	30	51	-5	.3	- .3	.3	8.7	140	40.0	117	91	39	0	2	1	1
FORT WAYNE	58	35	71	25	46	-6	.1	- .5	.1	2.0	32	32.1	109	74	39	0	3	1	0
INDIANAPOLIS	59	34	72	27	47	-8	.2	- .3	.2	2.4	39	32.1	103	84	43	0	4	1	1
SOUTH BEND	55	36	69	26	46	-6	.3	- .4	.3	3.2	44	32.2	110	88	51	0	3	2	0
IA DES MOINES	59	37	71	30	48	-4	.2	- .3	.2	6.6	110	37.0	138	83	51	0	2	2	0
SIOUX CITY	59	36	73	26	48	-4	1.4	1.0	1.4	8.3	160	26.4	111	88	51	0	2	1	1
WATERLOO	55	33	68	21	44	-6	.5	0	.3	4.8	65	26.5	90	87	51	0	4	2	1
KS CONCORDIA	62	37	78	24	49	-6	.1	- .3	.1	3.3	55	35.0	139	84	45	0	3	1	0
DODGE CITY	68	40	85	26	54	-2	T	- .3	T	2.1	51	18.0	98	73	27	0	1	0	0
GOODLAND	66	35	77	22	50	-1	T	- .2	T	4.1	137	24.5	162	75	24	0	3	1	0
TOPEKA	65	35	76	24	50	-6	0	- .6	0	2.3	32	32.3	105	82	37	0	4	0	0
WICHITA	66	39	79	30	53	-6	T	- .5	T	2.4	32	24.8	92	75	37	0	2	0	0
KY BOWLING GREEN	63	36	72	30	49	-9	.3	- .2	.3	9.2	153	40.4	106	98	40	0	2	1	0
LEXINGTON	60	38	71	31	49	-7	.2	- .3	.2	5.2	100	30.3	85	85	46	0	2	1	0
LOUISVILLE	61	39	72	32	50	-7	.2	- .3	.2	5.1	86	34.7	99	80	44	0	1	1	0
LA ALEXANDRIA	72	49	82	39	61	-6	.1	- .9	.1	9.6	123	41.9	--	83	42	0	0	1	0
BATON ROUGE	75	50	80	43	63	-4	T	- .6	T	4.6	52	37.7	86	81	38	0	0	1	0
LAKE CHARLES	76	53	82	45	64	-4	T	- .8	T	14.5	167	43.5	99	86	41	0	0	1	0
NEW ORLEANS	75	56	82	52	65	-3	0	- .4	0	9.5	100	50.0	107	88	46	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Oct. 23, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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 Oct. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	68	48	82	40	58	-8	.6	0	.3	5.0	75	27.3	78	97	51	0	0	3	0
ME CARIBOU	52	34	64	21	43	1	T	- .7	T	5.4	67	29.3	102	86	44	0	3	2	0
PORTLAND	56	34	65	28	45	-3	T	- .7	T	4.0	60	34.7	116	87	45	0	4	1	0
MD BALTIMORE	60	38	73	30	49	-7	.1	- .5	.1	4.1	61	27.9	86	87	43	0	1	2	0
SALISBURY	61	38	74	30	50	-8	.1	- .7	.1	3.4	39	31.6	86	96	47	0	2	1	0
MA BOSTON	59	40	70	35	50	-5	T	- .7	T	4.3	59	39.5	122	77	36	0	0	0	0
CHATHAM	57	43	66	36	50	--	0	--	0	11.1	--	39.5	--	81	56	0	0	0	0
MI ALPENA	53	35	65	24	44	-2	.3	- .1	.2	4.7	76	20.5	93	87	54	0	2	3	0
DETROIT	55	36	70	27	46	-6	.2	- .4	.2	3.0	57	24.6	95	82	44	0	2	2	0
FLINT	55	38	69	27	46	-3	.3	- .2	.2	3.5	65	20.8	86	82	52	0	2	2	0
GRAND RAPIDS	57	37	69	26	47	-4	.8	.3	.8	3.7	54	25.1	98	80	47	0	3	2	1
HOUGHTON LAKE	51	36	62	28	44	-3	1.0	.4	.8	5.5	81	25.3	111	89	58	0	1	4	1
LANSING	55	36	68	23	46	-5	.2	- .3	.2	4.2	74	20.5	82	89	52	0	2	1	0
MARQUETTE	47	29	65	23	38	-5	2.4	1.8	2.1	9.5	120	32.1	112	98	67	0	5	3	1
MUSKEGON	52	37	62	25	44	-6	1.1	.6	.6	4.5	67	26.3	107	86	55	0	3	3	2
SAULT STE. MARIE	51	31	63	24	41	-4	1.1	.5	.9	9.3	118	29.3	110	94	59	0	5	3	1
MN ALEXANDRIA	53	33	66	25	43	-2	T	- .3	T	6.0	133	25.1	114	93	54	0	3	1	0
DULUTH	47	32	58	25	39	-5	.2	- .3	.1	9.3	150	29.6	116	86	59	0	5	2	0
INT'L FALLS	49	31	59	28	40	-2	.4	0	.2	7.5	121	22.9	100	92	58	0	5	3	0
MINNEAPOLIS	56	35	68	27	45	-4	1.8	1.5	1.7	6.5	118	22.6	99	83	51	0	3	2	1
ROCHESTER	54	34	67	24	44	-4	1.5	1.2	1.5	8.5	147	31.2	125	86	54	0	3	2	1
MS GREENWOOD	71	47	82	39	59	-4	T	- .6	T	9.4	152	44.6	--	89	39	0	0	0	0
JACKSON	72	46	80	38	59	-5	T	- .5	T	7.8	130	50.5	133	96	42	0	0	0	0
MERIDIAN	76	50	82	42	63	0	0	- .4	0	2.5	41	44.0	109	82	39	0	0	0	0
MO CAPE GIRARDEAU	63	38	74	28	51	-9	.2	- .5	.1	3.7	47	40.1	114	96	47	0	3	2	0
COLUMBIA	61	35	74	28	48	-9	.4	- .3	.4	7.1	76	38.1	119	91	49	0	3	1	0
KANSAS CITY	61	36	73	25	48	-8	T	- .7	T	4.1	45	40.4	124	82	42	0	4	0	0
SAINT LOUIS	60	36	75	27	48	-10	.5	- .1	.5	7.4	117	42.7	144	98	48	0	2	1	1
SPRINGFIELD	63	35	77	25	49	-8	.1	- .7	.1	3.2	36	33.5	101	69	36	0	4	1	0
MT BILLINGS	59	37	70	29	48	0	.1	- .1	.1	2.0	77	16.1	131	69	35	0	2	1	0
GLASGOW	53	31	67	24	42	-3	.6	.5	.4	2.2	122	11.1	117	82	46	0	3	2	0
GREAT FALLS	56	33	69	22	44	-3	.3	.2	.2	3.1	141	16.0	122	74	38	0	4	2	0
HAVRE	53	30	70	24	42	-4	.1	- .1	.1	1.7	74	14.0	133	96	50	0	6	2	0
HELENA	57	29	71	21	43	-1	.1	0	.1	3.2	168	12.5	130	83	37	0	5	2	0
KALISPELL	50	27	56	16	39	-2	.3	.1	.3	2.2	85	15.9	129	94	54	0	6	3	0
MILES CITY	56	33	69	25	45	-2	T	- .1	T	3.1	135	13.7	112	85	38	0	3	1	0
MISSOULA	54	32	69	21	43	0	.1	- .1	.1	2.5	109	13.9	135	89	45	0	3	3	0
NE GRAND ISLAND	61	36	75	25	49	-4	.3	.1	.3	4.7	102	33.0	153	83	44	0	3	1	0
LINCOLN	60	37	72	25	49	-5	T	- .3	T	4.2	76	34.4	139	80	43	0	3	1	0
NORFOLK	59	35	73	24	47	-4	.4	.2	.4	6.5	144	26.5	120	89	47	0	3	1	0
NORTH PLATTE	64	31	77	19	47	-2	.2	0	.2	3.8	103	18.1	99	86	31	0	4	1	0
OMAHA	58	38	72	28	48	-5	.5	.1	.5	5.8	97	30.4	114	82	58	0	2	2	0
SCOTTSBLUFF	61	28	75	15	45	-4	.6	.5	.4	2.8	133	20.2	155	79	30	0	4	2	0
VALENTINE	61	30	80	18	46	-3	.3	.1	.3	3.6	120	21.3	131	83	35	0	3	1	0
NV ELY	61	26	66	15	43	-1	T	- .1	T	4.9	490	12.7	187	75	26	0	5	0	0
LAS VEGAS	78	51	87	45	64	-1	0	- .1	0	.1	17	2.7	79	27	10	0	0	0	0
RENO	62	37	68	24	50	1	T	- .1	T	2.4	300	6.7	126	80	34	0	3	0	0
WINNEMUCCA	63	30	72	16	47	0	T	- .1	T	1.4	156	6.1	97	61	20	0	4	1	0
NH CONCORD	57	30	69	18	44	-4	T	- .6	T	3.3	53	30.8	112	84	39	0	5	1	0
NJ ATLANTIC CITY	59	35	72	28	47	-8	T	- .8	T	1.6	22	25.0	70	98	46	0	4	1	0
NM ALBUQUERQUE	72	40	78	36	56	0	0	- .2	0	1.5	79	5.9	84	64	17	0	0	0	0
CLOVIS	68	40	80	32	54	-3	0	- .4	0	2.0	47	14.2	--	84	33	0	1	0	0
ROSWELL	73	42	85	35	57	-1	0	- .3	0	2.0	57	6.4	58	63	25	0	0	0	0
NY ALBANY	57	35	70	25	46	-4	T	- .6	T	2.5	38	27.1	104	91	44	0	2	0	0
BINGHAMTON	53	35	65	29	44	-5	T	- .7	T	2.5	37	28.6	96	86	48	0	3	1	0
BUFFALO	54	39	71	32	47	-3	.2	- .5	.2	5.1	73	30.7	111	81	47	0	1	1	0
NEW YORK	58	44	68	39	51	-5	.1	- .6	.1	1.6	24	28.0	87	78	45	0	0	1	0
ROCHESTER	55	37	71	31	46	-5	.1	- .6	.1	4.8	84	25.2	100	83	45	0	3	1	0
SYRACUSE	55	36	71	29	45	-6	T	- .7	T	5.0	75	28.1	99	85	49	0	3	1	0
NC ASHEVILLE	63	38	71	30	51	-5	T	- .7	T	4.0	49	41.3	111	98	50	0	2	1	0
CHARLOTTE	64	45	76	38	54	-6	.3	- .3	.3	2.5	35	32.5	95	82	48	0	0	1	0
GREENSBORO	61	39	74	32	50	-8	T	- .6	T	3.7	49	36.8	109	87	47	0	1	0	0
HATTERAS	68	54	79	50	61	-3	T	- 1.0	T	4.8	40	44.9	101	86	57	0	0	2	0
NEW BERN	67	46	79	34	57	-6	.6	- .1	.6	5.6	52	36.5	77	96	52	0	0	1	1
RALEIGH	66	44	79	34	55	-4	.2	- .4	.2	3.2	42	35.7	101	83	41	0	0	2	0
WILMINGTON	68	47	81	37	58	-6	.5	- .2	.4	8.3	75	48.2	104	87	48	0	0	3	0
ND BISMARCK	57	30	75	21	44	-2	.1	- .1	.1	4.4	169	16.4	112	96	44	0	3	1	0
FARGO	52	32	69	21	42	-4	T	- .2	T	8.0	222	18.5	103	88	56	0	4	2	0
GRAND FORKS	51	32	68	24	42	-1	.1	- .2	.1	6.1	169	19.6	115	94	60	0	3	2	0
WILLISTON	55	29	73	20	42	-2	.1	0	.1	3.7	161	14.7	111	92	50	0	5	1	0
OH AKRON-CANTON	55	36	68	29	46	-6	.1	- .4	.1	3.6	60	26.1	90	73	42	0	2	1	0
CINCINNATI	61	39	74	33	50	-5	.2	- .3	.2	2.7	51	35.9	113	73	39	0	0	1	0
CLEVELAND	56	39	71	32	47	-5	.1	- .5	.1	5.2	90	27.5	98	75	44	0	1	1	0
COLUMBUS	57	36	70	26	46	-6	.1	- .3	.1	5.2	100	30.2	98	89	40	0	3	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Oct. 23, 1982

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMPERATURE °F		PRECIPITATION	
		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 Aug. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	DAYTON	56	35	69	25	45	-9	.2	- .3	.2	2.5	52	34.7	121	85	45	0	3	1	0
	TOLEDO	55	35	70	25	45	-6	.3	- .2	.3	2.7	51	20.7	81	84	47	0	2	1	0
	YOUNGSTOWN	57	39	72	31	48	-3	.1	- .6	.1	2.4	36	25.5	83	75	44	0	1	1	0
OK	OKLAHOMA CITY	71	43	86	32	57	-4	T	- .5	T	3.7	51	31.2	115	73	37	0	1	0	0
	TULSA	71	41	84	33	56	-5	0	- .7	0	3.1	36	26.2	83	77	34	0	0	0	0
OR	ASTORIA	62	46	66	36	54	2	1.9	.3	1.5	7.3	72	48.8	116	79	56	0	0	5	1
	BURNS	58	29	66	11	43	-3	.1	- .1	.1	1.5	136	8.2	101	--	--	0	4	2	0
	MEDFORD	70	44	77	31	57	5	.2	- .4	.1	1.8	67	11.0	83	86	34	0	1	4	0
	PENDLETON	60	36	80	27	48	-3	.4	.1	.2	1.5	83	7.4	85	88	39	0	2	4	0
	PORTLAND	61	46	69	35	54	1	1.1	.3	.7	6.2	122	28.6	122	87	51	0	0	4	1
	SALEM	62	40	69	27	51	-1	.7	- .3	.4	3.4	62	24.8	95	92	54	0	2	4	0
PA	ALLENTOWN	59	35	73	28	47	-6	T	- .6	T	2.1	30	37.4	110	91	42	0	2	1	0
	ERIE	56	40	72	29	48	-3	.1	- .6	.1	4.5	59	30.6	104	68	42	0	1	2	0
	HARRISBURG	55	36	71	29	46	-8	.2	- .4	.1	4.1	72	34.4	106	92	53	0	3	0	0
	PHILADELPHIA	60	38	75	32	49	-7	.3	- .3	.3	3.3	49	34.0	108	85	39	0	1	2	0
	PITTSBURGH	55	36	70	30	46	-6	.1	- .4	.1	3.0	51	25.7	87	75	42	0	2	1	0
	SCRANTON	56	35	68	27	45	-6	.1	- .5	.1	2.0	32	30.5	110	88	51	0	4	1	0
RI	PROVIDENCE	58	37	68	31	48	-5	T	- .7	T	6.5	88	42.9	134	81	39	0	1	1	0
SC	CHARLESTON	71	53	81	45	62	-3	.9	.3	.9	5.1	51	40.4	90	91	55	0	0	1	1
	COLUMBIA	69	47	80	35	58	-5	.2	- .3	.2	4.7	56	43.9	111	93	47	0	0	3	0
	FLORENCE	67	47	79	37	57	-6	T	- .5	T	2.3	29	32.9	88	95	52	0	0	1	0
	GREENVILLE	65	46	74	37	56	-5	T	- .7	T	4.2	51	46.7	121	85	44	0	0	0	0
SD	ABERDEEN	55	31	75	22	43	-3	--	--	--	--	--	--	--	90	51	0	4	0	0
	HURON	57	35	76	26	46	-2	.4	0	.4	7.9	198	24.0	137	95	54	0	3	1	0
	RAPID CITY	60	31	75	21	45	-4	T	- .2	T	6.3	252	25.2	159	80	32	0	5	1	0
	SIOUX FALLS	53	33	73	21	43	-5	.5	.3	.5	13.1	247	28.5	127	94	64	0	4	1	1
TN	CHATTANOOGA	66	41	73	36	54	-6	T	- .6	T	3.3	44	42.1	103	90	41	0	0	1	0
	KNOXVILLE	64	42	72	36	53	-6	.3	- .4	.3	5.4	87	44.7	122	91	49	0	0	1	0
	MEMPHIS	69	45	79	37	57	-5	.2	- .4	.2	6.4	98	47.9	124	89	39	0	0	1	0
	NASHVILLE	66	41	75	34	53	-6	.2	- .2	.2	5.5	93	39.1	109	90	42	0	0	1	0
TX	ABILENE	72	50	89	42	61	-4	T	- .6	T	1.7	29	18.2	88	76	33	0	0	0	0
	AMARILLO	68	37	85	26	53	-5	0	- .4	0	2.1	48	17.0	96	66	24	0	2	0	0
	AUSTIN	76	58	87	53	67	-2	.2	- .5	.2	4.7	59	21.1	79	77	38	0	0	1	0
	BEAUMONT	75	56	83	46	66	-3	T	- .8	T	3.2	30	44.5	100	90	47	0	0	1	0
	BROWNSVILLE	87	64	90	60	75	0	0	- .7	0	3.7	37	19.2	90	88	46	1	0	0	0
	CORPUS CHRISTI	82	60	89	55	71	-2	0	- .5	0	2.3	25	17.5	72	80	40	0	0	0	0
	DEL RIO	78	58	89	53	68	-2	T	- .4	T	1.1	18	9.3	62	64	33	0	0	1	0
	EL PASO	80	46	86	41	63	1	0	- .1	0	5.2	248	7.9	116	60	21	0	0	0	0
	FORT WORTH	71	51	86	44	61	-5	.9	.4	.9	4.0	58	33.8	127	82	41	0	0	2	1
	GALVESTON	73	62	80	51	67	-5	0	- .5	0	2.1	21	20.8	61	88	61	0	0	0	0
	HOUSTON	76	55	86	44	65	-4	0	- .9	0	5.2	53	26.5	70	90	44	0	0	0	0
	LUBBOCK	73	41	86	32	57	-3	0	- .5	0	1.8	33	18.0	107	77	25	0	1	0	0
	MIDLAND	75	46	89	37	61	-4	T	- .3	T	2.5	74	12.7	107	71	25	0	0	0	0
	SAN ANGELO	73	49	89	38	61	-5	T	- .4	T	1.4	24	16.2	104	85	36	0	0	1	0
	SAN ANTONIO	76	56	84	45	66	-4	T	- .6	T	3.3	43	15.7	68	81	37	0	0	0	0
	VICTORIA	79	59	88	51	69	-2	0	- .8	0	4.8	48	22.6	78	87	39	0	0	0	0
	WACO	75	53	88	44	64	-4	T	- .6	T	1.6	24	23.4	92	86	39	0	0	1	0
	WICHITA FALLS	73	46	90	34	60	-5	.2	- .4	.2	3.1	46	33.5	145	89	36	1	0	1	0
UT	BLANDING	66	32	70	26	49	-2	0	- .3	0	2.6	93	11.9	118	60	19	0	3	0	0
	CEDAR CITY	69	33	75	25	51	1	0	- .2	0	1.9	100	12.0	150	50	15	0	3	0	0
	SALT LAKE CITY	60	36	68	28	48	-3	T	- .3	T	7.6	317	18.8	159	82	34	0	3	0	0
VT	BURLINGTON	55	39	69	32	47	-1	T	- .6	T	4.4	65	27.1	101	76	44	0	1	1	0
VA	NORFOLK	63	47	77	38	55	-5	.1	- .6	.1	5.3	62	38.9	105	84	50	0	0	1	0
	RICHMOND	63	41	77	35	52	-6	T	- .6	T	4.0	53	39.0	110	94	47	0	0	1	0
	ROANOKE	61	37	72	30	49	-7	T	- .7	T	5.5	71	37.4	117	94	45	0	1	1	0
WA	COLVILLE	54	32	63	21	43	-2	.1	- .3	T	1.9	83	13.5	114	87	50	0	4	3	0
	QUILLAYUTE	58	39	60	29	49	-1	3.2	.4	1.2	12.5	69	78.8	114	98	65	0	3	5	2
	SEATTLE-TACOMA	59	44	69	37	51	0	1.0	.1	.6	3.7	62	25.2	102	91	50	0	0	4	1
	SPOKANE	54	33	68	24	44	-3	.8	.4	.4	2.9	126	12.3	103	96	53	0	5	4	0
	YAKIMA	57	32	66	23	45	-4	.4	.3	.3	1.6	178	6.8	128	85	46	0	3	2	0
WV	BECKLEY	55	36	69	25	45	-6	.3	- .2	.3	4.9	71	37.0	106	86	43	0	3	1	0
	CHARLESTON	61	37	74	26	49	-7	.3	- .3	.3	4.8	75	35.9	107	88	40	0	3	1	0
	HUNTINGTON	59	38	72	31	49	-7	.2	- .3	.2	4.5	82	35.6	111	80	39	0	2	1	0
	PARKERSBURG	62	39	74	30	51	-3	.2	- .3	.2	3.3	58	29.6	85	90	43	0	1	1	0
WI	GREEN BAY	51	33	62	25	42	-6	.8	.4	.5	3.2	55	22.0	98	89	58	0	5	3	1
	LA CROSSE	54	36	67	24	45	-6	.7	.2	.6	5.0	76	19.3	74	86	52	0	3	2	1
	MADISON	55	32	67	17	44	-5	.4	0	.2	3.8	57	23.5	91	90	48	0	4	3	0
	MILWAUKEE	55	36	70	26	45	-5	2.1	1.6	2.1	4.0	67	27.6	113	89	49	0	4	2	1
	WAUSAU	50	32	63	22	41	-5	2.2	1.7	1.1	9.4	125	33.6	121	96	59	0	4	3	2
WY	CASPER	58	29	68	19	43	-3	.2	0	.2	4.3	215	16.0	165	81	33	0	4	2	0
	CHEYENNE	58	28	68	19	43	-3	.2	0	.2	3.8	173	17.7	138	79	28	0	4	2	0
	LANDER	57	28	67	19	43	-3	T	- .3	T	3.8	141	10.4	88	73	31	0	6	1	0
	SHERIDAN	62	28	75	17	45	-2	.2	0	.2	2.6	90	12.2	89	76	32	0	5	1	0
PR	SAN JUAN	91	77	93	76	84	4	.8	- .4	.4	5.0	37	34.9	75	88	57	6	0	4	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 24, 1982.

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1981-82
ALA. BIRMINGHAM	48	10	100	8	11
MOBILE	24	12	39	21	23
MONTGOMERY	15	11	30	25	45
ARIZ. FLAGSTAFF	132	8	868	92	336
PHOENIX	0	5	0	5	
TUCSON	0	9	25	14	15
WINSLOW	70	1	308	130	84
YUMA	0	0	18	18	16
ARK. FORT SMITH	80	42	161	80	61
LITTLE ROCK	70	30	116	24	17
CALIF. BAKERSFIELD	0	17	2	26	21
EUREKA	25	52	710	307	327
FRESNO	2	23	30	21	5
LOS ANGELES	0	21	0	109	21
RED BLUFF	12	12	49	4	2
SAN DIEGO	0	11	0	50	4
SAN FRANCISCO	4	27	277	60	88
STOCKTON	4	22	55	7	5
COLO. DENVER	117	12	540	139	243
GRAND JUNCTION	81	5	352	79	123
PUEBLO	103	14	366	90	96
CONN. BRIDGEPORT	124	55	340	121	108
HARTFORD	133	35	428	42	31
DEL. WILMINGTON	119	51	243	43	27
D.C. WASHINGTON	85	34	153	17	50
FLA. APALACHICOLA	10	3	11	3	7
DAYTONA BEACH	5	5	6	6	6
FORT MYERS	0	0	0	0	0
JACKSONVILLE	19	13	21	15	19
KEY WEST	0	0	0	0	0
LAKELAND	0	0	6	6	6
MIAMI	0	0	0	0	0
ORLANDO	0	0	6	6	6
TALLAHASSEE	16	6	25	12	5
TAMPA	0	0	0	0	0
WEST PALM BEACH	0	0	0	0	0
GA. ATLANTA	64	26	117	24	21
AUGUSTA	45	15	70	8	21
MACON	32	8	44	7	7
SAVANNAH	30	13	39	6	10
IDAHO. BOISE	84	20	494	74	92
LEWISTON	98	7	436	13	64
POCATELLO	144	15	700	125	61
ILL. CAIRO	107	63	186	80	51
CHICAGO	138	44	466	104	72
MOLINE	134	54	382	62	20
PEORIA	142	56	363	68	24
ROCKFORD	144	56	442	88	34
SPRINGFIELD	145	70	339	99	73
IND. EVANSVILLE	94	31	217	31	14
FORT WAYNE	128	34	411	61	76
INDIANAPOLIS	125	46	347	79	49
SOUTH BEND	133	37	417	36	76
IOWA. BURLINGTON	128	43	347	58	11
DES MOINES	125	33	376	37	25
DUBUQUE	142	33	472	12	22
SIOUX CITY	124	26	437	61	24
KANS. CONCORDIA	115	43	328	77	132
DODGE CITY	87	20	203	6	53
GOODLAND	102	2	404	33	101
TOPEKA	106	37	334	111	82
WICHITA	97	40	228	64	92
KY. LEXINGTON	111	45	267	67	41
LOUISVILLE	103	39	233	42	58
LA. BATON ROUGE	20	5	29	1	4
LAKE CHARLES	22	11	30	12	12
NEW ORLEANS	10	2	11	10	10
SHREVEPORT	61	42	99	60	55
MAINE. CARIBOU	157	4	1044	32	26
PORTLAND	148	25	687	50	87
MD. BALTIMORE	115	48	252	59	44
MASS. BOSTON	108	31	355	63	17
MICH. ALPENA	141	5	762	83	6
DETROIT	134	36	488	106	14
FLINT	126	16	527	27	81
GRAND RAPIDS	121	16	458	27	56
HOUGHTON LAKE	159	26	754	31	69
LANSING	134	26	517	53	40
MARQUETTE	175	19	1076	77	4
MUSKEGON	163	56	557	74	5
S. STE. MARIE	156	13	1130	200	24
MINN. DULUTH	170	21	1039	117	5
INTERNATL FALLS	168	5	1018	38	2
MINNEAPOLIS	140	19	522	66	96
ROCHESTER	160	37	582	66	58
ST. CLOUD	155	20	711	53	37
MISS. JACKSON	47	22	97	44	23
MERIDIAN	25	6	52	16	17
MO. COLUMBIA	124	58	319	117	69
KANSAS CITY	123	54	327	111	90
ST. LOUIS	124	64	248	71	66
SPRINGFIELD	114	53	273	83	85
MONT. BILLINGS	115	6	539	49	73
GLASGOW	158	14	778	67	131
GREAT FALLS	131	2	849	158	154
HAVRE	152	10	787	65	52
HELENA	150	0	796	35	23
KALISPELL	181	10	1095	30	105
MILES CITY	147	19	645	50	118
MISSOULA	148	12	833	46	3
NEBR. GRAND ISLAND	115	22	462	111	165
LINCOLN	110	24	341	41	44
NORFOLK	126	23	460	58	91
NORTH PLATTE	126	14	564	107	150
OMAHA	111	32	359	86	37
VALENTINE	141	20	614	118	156
NEV. ELY	155	9	896	124	167
LAS VEGAS	13	9	43	6	3
RENO	111	3	698	139	289
WINNEMUCCA	130	0	747	130	271
N.H. CONCORD	156	35	671	80	49
N.J. ATLANTIC CITY	122	52	313	102	17
TRENTON	114	46	262	55	31
N. MEX. ALBUQUERQUE	61	3	246	107	46
ROSWELL	61	7	147	8	9
N.Y. ALBANY	134	27	583	114	57
BINGHAMTON	142	28	592	36	6
BUFFALO	123	16	496	22	23
NEW YORK	96	35	236	59	35
ROCHESTER	130	28	450	9	6
SYRACUSE	138	38	568	148	104
N.C. ASHEVILLE	104	34	246	14	1
CHARLOTTE	78	37	138	32	23
GREENSBORO	106	50	211	50	15
HATTERAS	62	1	52	7	13
RALEIGH	70	20	128	6	17
WILMINGTON	56	33	85	37	29
N. DAK. BISMARCK	151	10	862	163	192
FARGO	167	27	806	138	241
WILLISTON	161	12	810	60	173
OHIO. AKRON-CANTON	131	36	408	31	6
CINCINNATI	101	26	234	12	73
CLEVELAND	132	41	361	21	46
COLUMBUS	130	40	355	38	51
DAYTON	136	55	355	81	18
TOLEDO	136	38	495	118	13
YOUNGSTOWN	119	20	475	58	61
OKLA. OKLAHOMA CITY	69	28	132	31	36
TULSA	76	36	137	41	59
OREG. ASTORIA	64	29	619	170	113
BURNS	148	11	976	260	91
MEDFORD	56	39	311	59	47
PENDLETON	111	10	496	117	89
PORTLAND	68	21	322	144	30
SALEM	89	4	426	48	35
PA. ALLENTOWN	125	35	358	30	126
ERIE	114	9	402	98	75
HARRISBURG	120	42	286	43	35
PHILADELPHIA	112	44	245	42	35
PITTSBURGH	135	36	400	94	85
SCRANTON	132	32	477	57	85
R.I. PROVIDENCE	121	31	382	35	51
S.C. CHARLESTON	44	23	62	19	26
COLUMBIA	54	23	104	35	19
GREENVILLE	68	28	133	33	46
S. DAK. ABERDEEN	143	9	652	50	35
HURON	141	18	563	42	12
RAPID CITY	136	17	668	115	175
SIOUX FALLS	160	42	602	91	43
TENN. CHATTANOOGA	78	29	161	37	24
KNOXVILLE	85	37	172	51	25
MEMPHIS	65	26	114	19	46
NASHVILLE	84	35	165	42	8
TEXAS. ABILENE	52	27	94	43	43
AMARILLO	91	35	231	82	46
AUSTIN	16	4	25	6	18
BEAUMONT	32	21	40	23	20
BROWNSVILLE	0	0	0	0	3
CORPUS CHRISTI	3	3	8	8	6
DEL RIO	8	2	14	3	8
EL PASO	16	11	60	12	4
FORT WORTH	59	41	70	39	32
GALVESTON	18	13	20	15	20
HOUSTON	29	22	37	27	27
LUBBOCK	68	24	155	48	44
MIDLAND	49	25	112	70	17
SAN ANGELO	47	26	79	39	43
SAN ANTONIO	21	11	36	21	31
VICTORIA	10	4	16	10	10
WACO	41	26	53	27	29
WICHITA FALLS	59	33	93	42	13
UTAH SALT LAKE CITY	122	18	506	120	201
VT. BURLINGTON	132	6	556	64	129
VA. LYNCHBURG	93	30	191	3	29
NORFOLK	65	27	123	25	20
RICHMOND	90	35	163	7	1
ROANOKE	116	53	254	68	39
WASH. QUILLAYUTE	104	4	930	28	9
SEATTLE-TACOMA	82	17	527	89	43
SPOKANE	141	6	676	36	29
WALLA WALLA	97	9	369	60	74
YAKIMA	134	16	573	46	157
W. VA. BECKLEY	138	40	442	30	74
CHARLESTON	116	46	264	30	62
HUNTINGTON	110	40	305	82	76
PARKERSBURG	88	18	195	30	67
WIS. GREEN BAY	158	34	697	87	28
LACROSSE	143	35	517	80	1
MADISON	152	31	632	77	7
MILWAUKEE	139	25	515	19	33
WYO. CASPER	142	7	732	96	113
CHEYENNE	148	16	769	115	200
LANDER	160	18	812	169	225
SHERIDAN	139	7	668	11	42

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1982.

National Agricultural Summary

October 18-24

HIGHLIGHTS: High winds, snow, and rain downed corn and soybeans in parts of the Corn Belt. Warmer weather later in the week melted most of the remaining snow, resulting in very wet field conditions. High winds also caused some lodging in sorghum fields in parts of Texas. Farmers had 4 to 7 days suitable for fieldwork in all regions except in parts of the northern Plains where only 2 days were available. Soil moisture was adequate to surplus in much of the western Corn Belt but short to mostly adequate in all other regions. Winter wheat seeding reached 84% completion, and 63% of the acreage had emerged. Corn harvest slowly advanced to 40% completion, 15 points behind average. Soybeans were 52% combined, 9 points slower than average. Rice harvest neared completion. Sorghum harvest continued well behind schedule. Only 44% was harvested, compared to the average of 70%. Fall apple and vegetable harvests continued active. Pastures and ranges were in fair to good condition, but cooler weather slowed growth. Livestock rated fair to good condition, although snow, rain, and wind caused suffering in northern areas.

SMALL GRAINS: In the 15 major producing States, 84% of the 1983 winter wheat crop was seeded, and 63% of the acreage had emerged. Progress was slightly behind average. Seeding was finished in Nebraska and South Dakota and near completion in Colorado and Kansas. In California, seeding gained momentum and reached 15% completion. Most fields in Texas need rain. Grazing was limited on dryland wheat pastures of the High Plains. Some fields in the Trans-Pecos region were replanted because of poor germination. Emerged wheat in Texas was in fair to good condition. Dry weather continued to hinder planting and early development of small grain crops in Oklahoma.

CORN: Corn harvest in the 17 major producing States reached 40% completion, behind last year's 43% and the average of 55%. Progress was behind normal in 11 of the 17 States. Combining lagged in all areas except the Southeast and the eastern Corn Belt. In the East North Central States, harvest was 51% finished, 2 points ahead of average. In Indiana and Ohio, growers harvested 20% of the acreage during the week. Harvest in the western Corn Belt was only 25% complete, lagging the average by 31 points. Harvest was 41 points behind normal in South Dakota, 40 points in Nebraska, 36 points in Minnesota, 30 points in Iowa, and 26 points behind normal in Colorado. Even though harvest was well behind schedule, nearly all of the corn was mature. A killing frost in many areas should help dry the corn. High winds, snow, and rain caused lodging in some fields throughout the North Central region. Warming weather melted most of the snow but resulted in fields which were too wet to support harvesting equipment.

SOYBEANS: Soybean harvest was 52% complete in the 18 major producing States, behind 1981's 53% and the average of 61%. Progress was behind average in 11 of the 18 States. In the West North Central States, harvest was only 46% finished, 30 points behind normal. Harvest was 45 points behind schedule in Minnesota, 35 points in Nebraska, and 33 points in Iowa. Combining in the East North Central region advanced to 90%, 13 points ahead of normal. Progress was 35 points ahead of average in Michigan and Ohio. During the week, growers in Iowa harvested 27% of their acreage; Kansas harvested 25%; Michigan, 25%; Missouri, 20%; and those in Nebraska combined 35% of their acreage. Snow, wind, and rain downed some soybeans and caused some damage to unharvested fields.

COTTON: In the 14 major producing States, bolls were opening on 86% of the acreage, about on schedule with 1981 and the average. Harvest was 33% completed, behind last year's 36% and the 39% average. Picking was just getting underway in Oklahoma and was past the half-way point in Alabama, Arkansas, Louisiana, Mississippi, Missouri, South Carolina, and Tennessee. Cool weather in Texas continued to slow development in some areas of the Plains. A hard freeze in this area damaged scattered fields. Defoliation operations remained active on the Low Plains. Stripping activities made good progress in the southern half of the State.

OTHER CROPS: Sorghum was 88% mature in the 7 major producing States, 8 points behind average. Harvest reached 44% completion, well behind the average of 70%. Progress was behind schedule in all 7 States, by as much as 50 points in South Dakota and 60 points in Nebraska. Progress fell further behind average in all areas but especially in the central and northern Plains. Snow, rain, and wet fields delayed combining of the late crop. High winds caused severe lodging in scattered areas of the Texas Plains.

Rice was 93% harvested in the 5 major producing States, compared with 91% last year and the average of 92%. Harvest was finished in Texas and near completion in Arkansas and Louisiana. The California harvest advanced rapidly and reached 80% completion.

Tobacco stripping, grading, and marketing remained in full swing.

VEGETABLES: Harvesting of hardy vegetables continued in full swing in Northern areas. Mild, dry weather in Florida's vegetable growing areas aided in disease control. Planting was nearly complete in West Central areas but continued active in Southern regions. Harvest increased for a number of crops. Harvesting continued active in much of Texas. However, on the Plains, most harvesting ended with the arrival of cold weather. In California, the broccoli harvest started on the south coast, and cauliflower harvest started in the San Joaquin Valley. Lettuce harvest slowed on the central coast, but increased in the San Joaquin Valley. Market tomato harvest continued in the San Joaquin Valley and coastal areas, but the processing tomato harvest was virtually complete.

FRUITS AND NUTS: Fall apple harvests continued very active in Northern producing regions. Florida's citrus groves rated very good to excellent condition. Cool weather helped the coloring of fruit. The orange harvest continued to gain momentum. Early oranges were picked in the Lower Rio Grande Valley of Texas. Grapefruit harvest was limited. Lemons and Navel oranges were picked in Arizona. Grapefruit were sizing and coloring well. Citrus groves in Arizona were in good condition. California's table grape harvest continued active, but the wine grape harvest was winding down in the San Joaquin Valley and north coast. The kiwifruit harvest began. Almond and walnut harvests slowed.

PASTURES AND LIVESTOCK: Pasture and ranges were in fair to good condition, although cooler weather slowed growth of grasses. Supplemental feeding was necessary in many areas. Irrigated wheat pastures on the High Plains of Texas were being grazed, but germination in many dryland fields was poor and little grazing was available. Many producers were culling herds. Cattle in Northern areas suffered as cold weather, wind, snow, and rain caused unfavorable conditions.

CROP PROGRESS

FOR WEEK ENDING OCT 24

SOYBEANS
% DROPPING LEAVES

	1982	1981	AVG.
ALA	90	94	NA
ARK	86	88	82
GA	89	89	99
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	95	95	NA
KY	91	89	97
LA	84	83	90
MICH	100	100	100
MINN	99	99	99
MISS	100	100	100
MO	90	90	93
NEBR	100	100	100
N C	56	72	58
OHIO	100	100	100
S C	71	91	77
TENN	92	91	95
18 STATES	94	95	NA
EXCL. STATES WITH NA	94	95	95

SOYBEANS
% HARVESTED

	1982	1981	AVG.
ALA	38	44	36
ARK	26	26	26
GA	19	27	21
ILL	91	83	87
IND	90	55	75
IOWA	52	81	85
KANS	50	45	65
KY	32	25	47
LA	41	48	58
MICH	75	35	40
MINN	35	53	80
MISS	31	36	42
MO	45	50	58
NEBR	50	75	85
N C	15	21	15
OHIO	90	60	65
S C	8	14	18
TENN	24	24	37
18 STATES	52	53	61

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.

NA - NOT AVAILABLE

CORN
% MATURE

	1982	1981	AVG.
COLO	90	91	94
GA	100	100	NA
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	98	98	100
KY	100	100	100
MICH	100	100	100
MINN	96	99	99
MO	98	100	100
NEBR	95	98	100
N C	100	100	100
OHIO	100	100	100
PA	95	100	93
S DAK	97	100	100
VA	100	100	100
WIS	99	100	100
17 STATES	99	100	NA
EXCL. STATES WITH NA	99	100	100

CORN
% HARVESTED

	1982	1981	AVG.
COLO	18	22	44
GA	98	98	92
ILL	66	53	61
IND	55	25	50
IOWA	27	50	57
KANS	70	55	75
KY	69	73	70
MICH	30	20	30
MINN	12	29	48
MO	65	64	66
NEBR	15	30	55
N C	92	92	89
OHIO	50	25	40
PA	31	43	37
S DAK	16	51	57
VA	70	80	72
WIS	12	13	30
17 STATES	40	43	55

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

NA - NOT AVAILABLE

WINTER WHEAT
% PLANTED

	1982	1981	AVG.
CALIF	15	18	13
COLO	96	98	99
IDAHO	90	91	90
ILL	84	70	78
IND	90	70	75
KANS	95	95	95
MO	59	59	60
MONT	90	100	100
NEBR	100	100	100
OHIO	90	75	80
OKLA	80	85	85
OREG	81	89	81
S DAK	100	100	100
TEX	70	74	78
WASH	92	93	90
15 STATES	84	85	86

WINTER WHEAT
% EMERGED

	1982	1981	AVG.
CALIF	10	5	NA
COLO	89	86	87
IDAHO	66	56	62
ILL	55	46	NA
IND	70	40	45
KANS	80	85	NA
MO	39	47	48
MONT	75	80	NA
NEBR	98	100	NA
OHIO	70	40	45
OKLA	40	65	50
OREG	37	54	55
S DAK	95	100	100
TEX	38	61	58
WASH	76	78	74
15 STATES	63	71	NA
EXCL. STATES WITH NA	54	64	60

THESE 15 STATES PRODUCED 88% OF THE 1981 WINTER WHEAT CROP.

NA - NOT AVAILABLE

COTTON
% BOLLS OPENING

	1982	1981	AVG.
ALA	100	100	NA
ARIZ	100	100	100
ARK	99	99	92
CALIF	100	100	100
GA	92	96	93
LA	100	100	97
MISS	100	100	100
MO	100	100	100
N MEX	100	100	99
N C	99	92	94
OKLA	85	95	85
S C	100	100	100
TENN	100	100	87
TEX	74	75	80
14 STATES	86	87	NA
EXCL. STATES WITH NA	85	86	88

COTTON
% HARVESTED

	1982	1981	AVG.
ALA	56	68	47
ARIZ	25	30	32
ARK	67	50	56
CALIF	35	40	31
GA	47	64	54
LA	52	66	67
MISS	67	79	67
MO	80	30	63
N MEX	15	15	12
N C	43	61	46
OKLA	1	10	10
S C	63	74	67
TENN	74	49	49
TEX	20	23	33
14 STATES	33	36	39

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.

NA - NOT AVAILABLE

SORGHUM
% MATURE

	1982	1981	AVG.
COLO	96	83	90
KANS	80	80	95
MO	90	86	98
NEBR	85	96	100
OKLA	95	95	90
S DAK	92	96	98
TEX	95	93	95
7 STATES	88	89	96

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

SORGHUM
% HARVESTED

	1982	1981	AVG.
COLO	30	26	34
KANS	25	25	60
MO	59	53	68
NEBR	10	35	70
OKLA	30	35	45
S DAK	16	57	66
TEX	81	80	86
7 STATES	44	49	70

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

RICE
% HARVESTED

	1982	1981	AVG.
ARK	94	95	94
CALIF	80	65	73
LA	99	100	99
MISS	88	91	92
TEX	100	100	100
5 STATES	93	91	92

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

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 Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures averaged 2 to 5° below normal. Rainfall limited to a few light showers early in week.

Fieldwork: 5.4 days. Soil moisture northern two thirds adequate, south short. Soybeans: Dropping leaves 90%, 94% 1981; mature 69%, 79% 1981, 72% average; harvested 38%, 44% 1981, 36% average. Cotton: Harvested 56%, 68% 1981, 47% average. Sorghum harvested 83%, 76% 1981. Wheat seeded 30%, 34% 1981, 53% average. Condition: Cotton and sorghum good, soybeans, wheat, livestock and pastures fair to good.

ARIZONA: Sunny mild days, clear cool nights. No precipitation. Average temperatures from 1° below normal to 6° above.

Navel orange harvest underway. Maricopa County Sizes expected average slightly smaller than last year. Lemon harvest continued Yuma, Maricopa Counties with some slow down reported due to weakened market conditions. Grapefruit sizing, coloring well Yuma County. Citrus groves good condition. Willcox area harvesting pumpkins steady rate past week. About one week strong harvest activity expected. Lettuce harvest strong Willcox, also expected taper off about week. Lettuce elsewhere making seasonal progress. Harvest expected begin November 1st -5th Maricopa, Pinal Counties. Low populations whiteflies evident Yuma lettuce. Fall melon harvest began limited scale Parker-Poston area. Some heavy wind damage honeydew melons that area. Whitefly problems noted fall melons. Ground preparation, seeding irrigation activities in progress sequential plantings lettuce. Cauliflower Yuma County. Fall mixed vegetables continued make seasonal progress. Cotton made good progress. Bolls open 100% cotton planted. Same as both last year, average. Harvest activities increasing. Approximately 25% cotton acreage harvested once. This slightly behind last year's 30%, average 32%. Warmer daytime temperatures aided defoliation process. Harvest activities expected continue accelerating. Some insect problems being reported late planted cotton Yuma County. Alfalfa haying slowing down Statewide. Haying completely stopped some fields Pinal, Maricopa Counties as sheep turned in to graze alfalfa. Sorghum made seasonal progress. Approximately 85% corn for Grain harvested Cochise County. Land preparations continued wheat, barley Yuma, Pinal Counties. Land preparations expected begin November these small grains Greenlee County.

ARKANSAS: Below normal temperatures. Wide spread read showers. Highest temperatures 83°, lowest 24°. All departures from normal -6 to -12°. Most rainfall 1.32 in., least 0.06 in.

Six days suitable for fieldwork. Soil moisture adequate. Crop growth slow to moderate. Soybean condition fair. Turning yellow virtually all, same as 1981, same average; shedding 86%, 88% 1981, 82% average; mature 65%, 72% 1981, 68% average; harvested 26%, 26% 1981, 26% average. Rice good condition, harvested 94%, 95% 1981, 94% average. Cotton good condition; harvested 67%, 50% 1981, 56% average. Oats good condition, planted 40%, 39% 1981, 43% average. Wheat good codition, planted 35%, 27% 1981, 40% average. Pastures average. Cattle good condition.

CALIFORNIA: Variable conditions were the key weather words. Temperatures were mostly above normal. However, the precipitation split the State in a north/south line. The warmest temperature was 99° at Thermal with the coldest being 14° at Tulelake and Alturas. As mentioned, the northern portion of the State received the rainfall with 1.14 in. at Ukiah being the most.

Rice harvest rapid progress. Weather good. Eighty percent harvested compared to 65% last year. Stubble burning rapid. Ahead of normal. Cotton defoliation active. Harvest 35%, 40% year ago. Yields, quality good. Dry bean harvest rapid. Corn and Sorghum grain harvests more active. Sugar beet, alfalfa, corn silage harvests continued. Seeding small grains increasing. Winter wheat 15% planted, 18% last year. Apple harvest continued. Volume of Susan and Bacon avocados packing increased. Desert date harvest continued. Table grape harvest continued. Wine grape harvest winding down San Joaquin Valley and North Coast. Olive harvest continued active. Kiwifruit harvest began San Joaquin Valley. Persimmon packing increased volume. Satsuma tangerine harvest began. Almond and walnut harvest winding down. Broccoli, cauliflower harvest moderate Central Coast. Broccoli harvest starting South Coast. Cauliflower harvest starting San Joaquin Valley. Melon harvest increasing Desert; many honeydew, miscellaneous melon fields show white fly damage. Carrot harvest fairly light. Celery harvest active Central Coast. Lettuce harvest slowing Central Coast, increasing San Joaquin Valley. Fall potato digging continues as field conditions permit. Sweetpotato harvest active. Strawberry harvest slow. Market tomato harvest continues San Joaquin Valley and coastal areas. Processing tomato harvest virtually complete. Rains needed to keep new grass growing. Calving lambing active.

COLORADO: Precipitation was limitted to light snow early in the week in the northern mountains and on the northeastern plains. Temperatures were generally 1 to 3° above normal except for the northeast where they were slightly below normal.

Corn harvest behind normal due to high moisture content, but prospects mostly good. Winter wheat: 96% seeded, 89% emerged; last year 98% seeded and 86% emerged. Dry beans 97% cut and 84% threshed; last year 99% cut and 95% threshed. Corn 90% mature and 18% harvested; in 1981, 91% mature and 22% harvested. Corn silage 99% harvested. Sorghum, poor to good condition depending on growing season moisture received; 96% mature and 30% harvested. Last year, 83% mature and 26% harvested. Sorghum forage 95% harvested. Alfalfa third cutting 72% complete, fourth cutting 46%. Topsoil and subsoil moisture adequate. Five and one-half days suitable for fieldwork. Livestock in good to very good condition.

FLORIDA: Warm, mostly dry conditions with only scattered showers along Atlantic coast gave way to cool front which pushed into Panhandle 20th, stalled across northern and central area through the 22nd then pushed through south Peninsular 23rd. An upper air disturbence combined with the front caused intermitten rains on 23rd, except Panhandle, with cloudy and much cooler condition statewide 23rd, 24th. Temperatures near normal early week fell to 15° below normal, week end. Precipitation ranged from less than 0.10 in. Panhandle with 0.50 in or less elsewhere except around 1.00 in near Atlantic Coast.

Soil moisture mostly adquate, a few dry spots in the north. Soybean harvest active. Hay and

peanut harvest practically complete. Cotton and sugarcane harvest gaining. Sugarcane good to excellent condition. Land preparation planting of small grains on schedule. In the south, early planted seed corn tasseling. Adequate to surplus moisture for pastures across most of State. Pasture condition, good to excellent poor to fair in some localities. Male crickets causing some problem. Cattle mostly good condition. Citrus groves very good to excellent condition. Little rain, few growers irrigated. Cool temperature helping fruit color. Orange harvest gaining momentum. Tangerine movement active. Mild, dry weather prevailed most of week in vegetable area. A frontal system in late week brought cloudy skies, below normal temperature, scattered showers. Rainfall mostly light. Dry weather aides disease Control. Planting about complete west central area; active southern areas. Harvest increaseing snap bean, sweet corn, cucumber, eggplant, pepper squash tomatoes. Harvest fall watermelon active; quality, size fairly good.

GEORGIA: Rainfall occurred in north and southeast with greatest amount 0.23 in. Average rainfall was 0.01 in. Cooler temperatures offset late warming trend, yielding temperatures 1 to 2° below normal. Rainfall during weekend of 23rd and 24th occurred mostly in south with amount at 0.58 in. Temperatures averaged 2 to 4° below normal.

Soil moisture mostly adequate northern region, mostly short southern region. Five days suitable for fieldwork. Harvest and fall planting continued active where weather permitted. Corn: 98% harvested this year and last, 92% average. Cotton condition 38% fair, 52% good; 92% has open bolls, last year 96%, average 93%; 47% harvested, last year 64%, average 54%. Peanuts 100% dug, last year 98%, average 97%; 99% threshed, 95% last year, 93% average. Soybean condition 5% poor, 39% fair, 56% good; 89% shedding leaves this year and last; 19% harvested, 27% last year, average 21%. Wheat 17% planted, last year 19%, average 27%. Rye 53% planted, 42% last year, 41% average. Other small grains 39% planted, 34% last year, 36% average. Pecan condition 54% fair, 37% good; 14% harvested, last year 12%, average 11%. Pasture and hay fair to good condition. Cattle and hogs fair to mostly good condition.

HAWAII: Favorable weather remains in Hawaiian chain. Showers, generally light. Heavy irrigation some areas. Spray program keeping insect and disease damage minimal. Crop condition fair to good. Vegetables: Supplies variable. Snap beans, tomatoes, mustard cabbage, light. Chinese cabbage heavy. Others generally adequate. Bananas: Supplies steady. Papayas: Seasonal flush continues. Pineapples: Harvesting light. Sugar: Steady harvest continues. Pastures: Generally fair to good.

IDAHO: A minor storm system brought scattered precipitation to many areas. Overall the entire State registered below normal precipitation for the period. Temperatures, in the north and southwest, ranged from 3° above normal to 3° below normal while the southeast was 4 to 5° below normal. High reading was at Hagerman with 81° while the chilly spot was Fairfield with 6°.

Good week for harvest with 6.5 days suitable for fieldwork. Potato harvest 91% complete, 88% last year and 93% average. Cold mornings delayed harvest. Frost damage to tubers reported as minor. Dry bean, third crop alfalfa, alfalfa seed and red clover seed harvest in windup stage. Winter wheat seeding average at 90% complete compared with 91% last year. Emergence reached 66% compared with 56% last year and a normal of 62%. Soil moisture adequate except for some localities in the southwest that were short. Calves coming off range in excellent shape with good weaning weights. Ranges still in use providing adequate feed.

ILLINOIS: Temperatures 5 to 9° below normal, second week below normal; central areas coldest, some new records. Precipitation moderate most sections 0.40 to 1.00 in.

Corn 100% mature, 100% 1981, 100% average; 66% harvested, 53% 1981, 61% average. Soybeans 100% dropping leaves; 100% 1981, 100% average, 91% harvested, 83% 1981, 87% average. Winter wheat crop 84% seeded, 70% 1981, 78% average; 55% emerged, 46% 1981, 52% average. Sorghum 60% harvested. Intended corn and soybeans ground 26% tilled (plowed or chiseled), 19% 1981, average 29%. Pastures 8% excellent, 71% good, 19% fair, 2% poor. Soil moisture 8% short, 85% adequate, 7% surplus. Days suitable fieldwork: 5.0.

INDIANA: Fieldwork averaged 6 days. Topsoil and subsoil moisture short to mostly adequate. Corn 55% harvested, 1981 25%, Average 50%. Corn 100% mature, 1981 100%, average 100%. Moisture content 20%. Soybeans 90% combined, 1981 55%, average 75%. Soybeans 100% dropping leaves, 1981 100%, average 100%. Moisture content 13%. Wheat 90% seeded, 1981 70%, average 75%. Wheat 70% emerged, 1981 40%, average 45%. Wheat stands good.

IOWA: A cold week with moderate-to-heavy precipitation northern two-thirds of the State and light precipitation south. Season's first snow 19 and 20th most of northern two-thirds of State with amounts to 8 in. at Sibley.

Wind and snow damage reported northwest and scattered hail damage in the northwest, central, and east central. Topsoil moisture: 43% surplus, 57% adequate. Subsoil moisture; 24% surplus, 75% adequate, 1% short. Corn harvested: 27%, last year 50%, normal 57%. Soybeans mature: 99%, last year 100%, normal 100%. Soybeans harvested: 52%, last year 81%, normal 85%. Sorghum harvested: 16%, last year 49%, normal 62%. Winter wheat sown: 87%, last year 91%, normal 90%. Fertilizer application complete: 6%, last year 14%. Total plowing completed: 6%, last year 15%, normal 18%. Fieldwork: 4.3 days suitable. Livestock in good condition.

KANSAS: Precipitation less than 0.25 in. Temperatures averaged 50 to 53°, 1° above normal northwest to 7° below normal southeast. Hard freezes west and north midweek with frosts southeast quarter.

Sorghum 80% mature, 80% last year, 95% average; 25% harvested, same last year, 60% average. Soybeans 95% dropping leaves, 95% last year; 50% harvested, 45% last year, 65% average. Corn 98% mature, 98% last year, 100% average; 70% harvested, 55% last year, 75% normal. Winter wheat 95% planted, same as last year and average; 80% emerged, 85% year ago. Fieldwork: 6.0 days.

KENTUCKY: Cool, dry. First killing frosts occurred. Average highs in 50's, average lows in 30's. Light precipitation, amounts mostly 0.10 to 0.50in.

Fieldwork 4.9 days suitable. Soil moisture 22% short, 76% adequate, 2% surplus. Corn harvest 69% complete, 73% year ago, average 70%. Yields very good. Burley tobacco 13% stripped. Soybean harvest 32% complete, 25% last year, average 47%; 91% shedding leaves or beyond, 89% last year, 97% average. Wheat seeding half done, same as year ago. Fewer acres anticipated.

LOUISIANA: Rainfall averaged 0.25 to 0.54 in. northwest, 0 to 0.10 in. elsewhere. Temperatures 5 to 10° below normal.

Soil Moisture adequate. Days suitable: 5.2. Rice harvested 99% 1982 and average, 100% 1981. Cotton open bolls 100% 1982 and 1981, 97% average; harvested 52%, 66% 1981, 67% average; condition fair to good. Soybeans leaves shedding 84%, 83% 1981, 90% average; harvested 41%, 48% 1981, 58% average; condition fair to good. Sorghum harvested 97%, 98% 1981, 96% average. Sweetpotatoes harvested 90%, 94% 1981, 86% average. Sugarcane planted 99% 1982 and 1981, 93% average; harvested 16%, 17% 1981, 12% average; condition good. Wheat seeded 12%, 17% 1981, 48% average; emerged 6% 1982 and 1981; condition good. Pecans harvested 5%, 7% 1981, 10% average; condition fair. Last cutting of hay 95%, 97% 1981, 86% average. Vegetables rated fair to good. Pastures fair to good condition. Livestock good.

MARYLAND AND DELAWARE: Temperatures average 3° below normal. High temperatures averaged in the low to mid 70's and low temperatures averaged in the mid-20's to low 30's. Rainfall averaged 0.23 in. over the two State area. The range was from 0.03 in. at Snow Hill to 0.48 In. at Clarksville. Weekend of the 23rd and 24th were cold with high tempertures in the low 50's, lows were in the low to mid 30's with no precipitation.

Topsoil moisture adequate. Subsoil moisture short on the Eastern Shore, but short to adequate West of the Bay. Six days suitable for fieldwork.

Maryland: Thirty percent of soybeans were harvested, double the amount harvest the previous week, but behind the 40% harvested a year ago; 85% of the soybeans shed leaves, equal to last year. Corn harvest 70% completed, behind last year's 80%. Small grain seedings progressed well but lagged last year's progress. Barley seedings at 85%, last year 95%. Wheat 45% completed, last 65%. Rye 75%; 80% sown last year. Oat seedings 55% completed; last year 70%.

Delaware: All soybeans had shed leaves and 50% were harvested, equal to 1981. Corn harvested at 70% compared with 80% last year. Small grain seedings slightly ahead of last year's barley and rye; behind for wheat. Barley completely planted, 95% last year. Wheat planted 30%; 55% last year. Rye 60% planted; last year 40% planted.

MICHIGAN: Average temperatures, 2 to 5° below normal. Highs 62 to 70°, lows 19 to 32°. Heavy snow in upper Peninsula 20th. Precipitation variable. Less than 0.25 in. in southeast. Southwest had about 0.50 in. Rest of State, 0.75 to 1.75 in.

State average 5 days suitable for fieldwork. Topsoil moisture surplus in upper. In northern lower, adequate to surplus. Some shortages in southeast. Corn for grain harvest, 30%, 20% last year, 30% average. Moisture content average 24%. Substantial lodging from high winds. Soybean harvest, 75%, 35% last year, 40% average. Wheat planting, 98%, 70% last year, 85% average. Dry bean harvest, 99%, 85% last year and average. Sugarbeets harvested, 85%, 30% last year, 45% average. Sugar content excellent. Potato, grape and corn silage harvests nearly done. Jonathan and Red Delicious apple picking almost complete. Some Winesap and Rome left.

MINNESOTA: The weather varied considerably during the week. A storm system from late 19th into 20th produced heavy rain and snow south and east and much colder and windy conditions Statewide. The temperatures were moderate to normal or above normal levels by the weekend with mostly clear skies. The highest reported temperature was 75° at Canby and Browns Valley while coldest was 14° at Pipestone. Precipitation totaled less than 0.50 in. over the north and west and generally between 1.00 and 2.00 in. over the south and east. Up to 7 in. of snow fell in portions of the southwest and up to 5 in. in the southeast, but was melted by weekend. The heaviest reported precipitation total was 2.96 in. at Preston.

In southern areas snow, wind, and rain pushed down soybeans and corn and set back drying of fields and crops. Conditions improving during weekend, so harvest gaining momentum, except in low-lying heavy soils. Killing frosts received and thoughtout State should help crops dry down more evenly. Topsoil moisture: 22% adequate; 78% surplus. Mature: Field corn 96%, 1981 99%, normal 99%; soybeans 99%, 1981 99%, normal 99%. Harvested: Field corn 12%, 1981 29%, normal 48%; soybeans 35%, 1981 53%, normal 80%; sunflowers 12%, 1981 51%, normal 74%; sugarbeets 68%, 1981 57%, normal 86%.

MISSISSIPPI: Temperatures ranged from 5 to 10° below normal. Extremes: 25 and 87°. Greatest 24-hour rainfall 0.43 in.

Soil moisture adequate over north and central parts of States; south remains short. Fieldwork: 4.9 days suitable. Cotton 67% harvested, 79% last year, 67% average; condition good. Soybeans 79% mature, 78% last year, 77% average; 31% harvested, 36% last year, 42% average; condition good to fair. Rice 88% harvested, 91% last year, 92% average. Corn 89% harvested, sorghum 95%, peanuts 85%, sweetpotatoes 81%, pecans 29%. Pecan condition fair to good. Pasture condition good to fair. Winter wheat seeding 26%, 34% last year, 48% average.

MISSOURI: Temperatures averaged 6 to 9° below normal. The first frost of the fall season was reported in some areas. Precipitation was generally less than 0.25 in. Higher amounts received in northeast.

Fieldwork was 5.1 days suitable. Corn harvested 65%, last year 64%, normal 66%. Grain sorghum 90% mature, last year 86%, normal 98%. Sorghum 59% harvested, 53% last year, 68% normal. Soybeans 85% mature, last year 85%, normal 87%. Beans 45% harvested, last year 50%, normal 58%. Winter wheat seeding 59% completed, 59% last year, 60% normal. Fall plowing for spring-planted crops 34% completed, last year 28%, normal 26%. Cotton 80% harvested, last year 30%, normal 63%. Pasture condition 9% excellent, 65% good, 24% fair and 2% poor. Topsoil moisture supply 8% surplus, 80% adequate and 12% short.

MONTANA: Wet and cold first of week, turning warmer by midweek. Precipitation early in week ranged from 0.10 to 0.70 in. over most of State. At end of week rain fell west of Divide with 0.50 to 0.75 in. reported. Temperatures at or slightly below normal. First sub-zero readings of season over high elevations of southwest.

Topsoil and subsoil moisture adequate. Days suitable for fieldwork: 4. Harvest progress compared with last year and normal: Sugarbeets 55, 70, 85; dry beans 90, 100, 100; potatoes 85, 90, 95. Winter wheat seeded 90% compared with last year and normal 100. Winter wheat condition good, 75% emerged.

Cattle and sheep 70% moved from summer ranges.

NEBRASKA: Precipitation: Widespread rainfall ranged from a few tenths of an inch to 1.50 in. First widespread snowfall of the season covered northern half of State. Temperatures: 2 to 6° below normal. Hard freezing temperatures during first half of week ended growing season.

Corn harvested 15%, 30% last year and 55% normal. Harvest about three weeks behind normal.

Corn mature 95%, 98% previous year and 100% normal. Soybeans 50% combined, 75% a year ago and 85% normal. Snowfall in northeast resulted in some damage to unharvested soybeans. Sorghum harvested 10%, 35% last year and 70% normal. Ripe 85%, 96% last year and 100% normal. Winter wheat good. Topsoil moisture mostly adequate to surplus. Subsoil moisture adequate. Pasture and range feed adequate. Days suitable 4.6.

NEVADA: Unseasonably cool weather dominated early part of week. Clear skies-light winds dropped nightime temperatures into teens in northwest on 19th. Highs varied from mostly 50's and 60's. Transition in airmass from cold Canadian to mild subtropical began by 20th. Overnight lows moderated quickly with minimums in 40's and 50's. Daytime highs in 60's and 70's. Extreme southern areas highs in upper 70's and low 80's. Precipitation light with measurable rain confined to northwest.

Harvesting activities minimal, as nearly all harvesting finished. Range, pasture and livestock conditions good to excellent.

NEW ENGLAND: Aside from a cold front that moved across area during midweek, the region was dominated by high pressure.

Average precipitation amounts ranged from a trace to 0.25 in. with most of the precipitation recorded during midweek.

Average temperatures ranged from around 40° near the Canadian border to around 60° along the south coast, which was slightly below normal.

NEW JERSEY: Temperatures averaged 6° below normal. Extremes: 22° at Newton on the 23rd and 78° at Toms River on 21st. Rainfall averaged 0.04 in. north, 0.35 in. central and 0.49 in. south. Heaviest 24 hour total was 0.52 in. at Cape May on 24th to 25th. Estimated soil moisture, in percent of field capacity, averaged 93% north, 82% central and 75% south. Four inch soil temperature averaged 47° north, 52° central and 54° south.

Fieldwork: 6.3 days suitable. Current rain beneficial for germination and growth of fall seeded grains and cover crops. Harvest of hardy late season vegetables continues. Irish potato and sweetpotato harvest nearing completion. Apple harvest well advanced. Cranberry harvest continues active. Harvest of corn for grain and soybeans will resume as conditions permit.

NEW MEXICO: Open weather prevailed. No measurable precipitation reported.

The North and eastern regions have an adequate supply of soil moisture, the south and southwestern regions in a short supply. Cotton in good condition with harvest continuing to increase in activity. Alfalfa hay harvest continues to slow down. The fifth cutting progressing in the south. Corn ensilage harvest nearing completion. Grain harvest about 55% complete. Grain sorghum in mostly good condition. Approximately 35% of the crop harvested. Wheat and barley in good condition. Some reseeding of fields occurring. Harvest of fall lettuce and red chile continues with both crops in mostly good condition. Sweet potato harvest about 70% complete. Peanut harvest about 40% complete. Pecans in good condition with the shells beginning to crack open. Ranges in good condition with the grass well set for winter. Livestock in good flesh in most areas. Cotton open bolls 100%, 100% 1981, 99% average. Cotton harvested 15%, 15% 1981, 12% average.

NEW YORK: Subnormal in all areas. Cold beginning and end of week, general freeze on 23rd.

Good work condition. Corn silage 84% harvested, 61% 1981, 79% average. Grain corn 15% done, 15% 1981, 21% average. Third cutting alfalfa 90% complete, 85% 1981, 92% average. Dry bean harvest 60% complete. Fall plowing widespread. Cold mornings delayed late variety apple harvest. Eastern Red Delicious harvest ending. Concord grape harvest complete. Catawba harvest active. Potato harvest nearly done on Long Island, wearly done Upstate. Most other vegetable crop harvests complete.

NORTH CAROLINA: Temperatures: 3 to 4° below normal. Precipitation: Varied; 0 to 0.50 in.

Fieldwork: 5.4 days suitable. Soil moisture: 3% very short, 22% short, 73% adequate, and 2% surplus. Conditions: Pasture, soybeans fair to good. Cotton, peanuts, sweet potatoes and sorghum mostly good. Harvest: Cotton 43%, 1981 61%, average 46%; sweet potatoes 84%, 1981 85%, average 80%; sorghum 71, 1981 79%, average 72%; soybeans 15, 1981 21%, average 15; burley tobacco 100%, 1981 100%, average 100%; corn for grain 92%, 1981 92%, average 89%; peanuts dug 93%, 1981 94%, average 84%; peanuts threshed 84, 1981 84%, average 75; apples 99%, 1981 94%, average 87%. Phenological stages: Cotton open bolls 99%, 1981 92%, average 94%; soybeans shedding leaves 56%, 1981 72%, average 58%. Major farm activities: Corn harvest for grain, seeding of small grains, harvest of peanuts, sweet potatoes, cotton and soybeans.

NORTH DAKOTA: Temperatures averaged from 1° above normal southwest to 4° below normal north central and east central. Averages from 40° north central to 46° south central. Extremes from 78° south central to 16° southeast. Precipitation averaged from 0.04 in. above normal west central to 0.21 in. below normal east central. Precipitation averages from 0.23 in. northeast to 0.01 in. southeast.

Harvest activity on late season crops increased latter part of week as a hard freeze and warm, sunny weather helped dry fields and crops. Good progress over weekend, but harvest still well behind normal for all remaining crops. More good drying weather needed. Average of 5.8 days suitable for fieldwork. The percentage of acreage harvested along with last year and average was: sunflower 22, 46, 56; flax 89, 93, 90; potatoes 92, 93, 98; dry beans 87, 94, 97; corn 28, 38, 59; soybeans 58, 58, 85; and sugarbeets 79, 64, 90. Soil moisture well above average. Entire State has adequate topsoil moisture. Normally 18% short.

OHIO: Cold, dry. Frost or freezing throughout State at weekend. Daily highs mid to upper 50's Statewide. Daily lows 30's north to 40° extreme south. Soil temperatures upper 40's and lower 50's. Base 50 growing degree days 20 and 40. Precipitation light, scattered. Totals between 0.00 to 0.20 in.

Below normal temperatures slowed fieldwork toward end of week. Several areas had frosts and others had high winds which knocked down corn plants. Activities included fall plowing, combining soybeans, harvesting corn, sowing winter wheat, spreading manure and commercial fertilizers, corn shelling and cribbing, filling silos and vegetable and fruit harvests. Corn mature 100%, 100% 1981, 100% average. Corn for grain harvested 50%, 25% 1981, 40% average. Soybeans dropping leaves 100%, 100% 1981, 100% average. Soybeans harvested 90%, 60% 1981, 65% average. Winter wheat planted 90%, 75% 1981, 80% average. Winter wheat emerged 70%, 40% 1981, 45% average. Days favorable 6. Pasture condition fair. Soil moisture 40% short, 60% adequate.

OKLAHOMA: The only rainfall occurred over southeast half and averaged less than 0.50 in. Temperatures averaged 3 to 6° below normal.

Dry October weather continued to hinder planting and early development of small grain crops. Although weather was favorable for row crop harvest, many producers of cotton, soybeans and peanuts waiting for a killing frost before harvesting crops. Wheat plant: 80%, 1982; 85%, 1981; 85%, average. Wheat emerged: 40%, 1982; 65%, 1981; 50%, average. Sorghum mature: 95%, 1982; 95%, 1981; 90%, average. Sorghum harvested: 30%, 1982; 35%, 1981; 45%, average. Cotton open bolls: 85%, 1982; 95%, 1981; 85%, average. Cotton harvested: 1%, 1982; 10%, 1981; 10%, average. Days suitable for fieldwork: 6.7.

OREGON: Temperatures averaged 3 to 6° above normal in west; 3 to 6° below normal east. Rainfall averaged 2.00 in. coastal; 0.50 in. inland and up to 0.30 in. east.

Wheat seeding slowed some; 81% complete, 89% last year, 81% average. Emergence 37%, 54% previous year, and 55% average. Field corn harvest progressing; sugar beet harvest moving rapidly. Grass seed fields being fertilized and sprayed. Final hay cuttings. Filbert and walnut harvesting continues. Grapes being picked. Tree fruit harvest nearly complete. Cranberry harvest in second week. Potato harvest going well, winding down in some areas. Onion harvest nearly complete. Fall vegetable harvest continues. Livestock good shape. Movement from high ranges continues. Range and pasture condition and growth good.

PENNSYLVANIA: Frost and freezing, partly cloudy and breezy beginning and end of period--mild with showers mid-week. Coldest week since early April with temperatures averaging 3 to 6° below normal. Extremes: 16 and 75°. Rainfall 20th 0.10 to 0.50 in.

Five days suitable. Moisture adequate to short. Activities: Plowing; planting wheat and rye; and harvesting corn silage, soybeans, grain corn, potatoes, pumpkins, and apples. Potatoes 94% harvested, last year 90% harvested. Soybeans 35% harvested, last year 42%. Corn 95% mature and 31% harvested; last year virtually all mature and 43% harvested; average 93% mature and 37% harvested. Corn silage 93% harvested, last year 93%. Fall plowing 93% complete; last year 91%; average 92%. Wheat 95% planted, last year 93%. Fourth crop alfalfa 68% harvested, last year 69%. Quality of hay made mostly fair. Feed from pastures average to below average.

PUERTO RICO: Island average rainfall 1.77 in. or 0.02 in. below normal. Highest total 5.58 in. Temperatures averaged about 82 to 81° on Coasts and 76 to 74° Interior Divisions. Extremes: 94 and 60°.

SOUTH CAROLINA: Mostly light rains scattered over State second half with mild temperatures until weekend dropped 12 to 14° with blustery winds, humid conditions; average 2 to 4° below normal. Weekend coastal 1.00 or 2.00 in. rain varied to none in mountains.

Soil moisture adequate. Five days available for work outside. Cotton bolls open 100%. Good condition and yields; 63% harvested, 74 year ago, 67 average. Harvesting early variety soybeans, yields disappointing with small seeds; 8% harvested, 14 year ago, 18 average; 71% shedding leaves, 91 last year, 77 average; conditions fair. Winter grazing 80% planted, 49 year ago, 70 average; emerging in favorable weather, condition good, 59% emerged, 28 year ago, 51 average. Small grain planting made good progress. Peanuts 91% harvested, 94 year ago, 80 average.

SOUTH DAKOTA: Temperatures averaged 2 to 4° below normal west, 3 to 6° below normal east. Extremes: 81 and 11°. Early snow up to 12 in. in southeast. Average amounts 3 to 6 in. over southeast, east central and extreme south central and southwest. Precipitation totaled 0.50 to 1.00 in. in south. North less than 0.25 in.

Topsoil moisture surplus over much of southeast quarter, adequate elsewhere. Reports received 2% short, 45% adequate, 53% surplus. Two days suitable. Harvest falls farther behind. Sorghum grain harvest 22 days behind, soybeans 21 days, corn 18 days and sunflowers 16 days. Winter grains in good to excellent condition. Corn mature 97%, 1981 100%, avaerage 100%. Sorghum mature 92%, 1981 96%, average 98%. Corn for grain harvested 16%, 1981 51%, average 57%. Sorghum for grain harvested 16%, 1981 57%, average 66%. Soybeans harvested 28%, 1981 76%, average 85%. Sunflowers harvested 24%, 1981 60%, average 69%. Winter wheat emerged 95%, 1981 100%, average 100%. Winter rye emerged 96%, 1981 100%, average 100%.

TENNESSEE: Fieldwork available; 4.5 days. Soil moisture levels 91% adequate, 5% surplus, 4% short. Soybeans shedding leaves 92%, 1981 91%, average 95%; mature 77%, 1981 77%, average 77%; harvested 24%, 1981 24%, average 37%. Cotton open bolls 100%, 1981 100%, average 87%; picked 74%, 9181 49%, average 49%. Corn harvested 63%, 1981 67%, average 57%. Burley stripped 34%, 1981 40%, average 36%. Oats sown 67%, 1981 76%, average 82%. Wheat sown 44%, 1981 48%, average 61%. Pastures fair to good. Livestock good.

TEXAS: Fast moving cold front early week dropped temperatures 10 to 20° as pushed southward. Late week low pressure trough brought less than 0.10 in. precipitation as it moved into Southeast Texas. Temperatures below normal. Precipitation below normal Southcentral Texas, and above normal Northcentral Texas. Normal rainfall remainder State.

CROPS: Harvest most field crops remained active. Cool weather continues slow cotton maturity some areas Plains, where hard freeze damaged scattered fields. Small grain planting remains behind schedule many areas because prolonged dry weather. Growth most warm season grasses stopped, although some winter pastures beginning to green up. Killing frost some counties High Plains should accelerate COTTON harvest over region. Crop development behind schedule, some fields hurt early frost. Low Plains, defoliation operations remain active, bolls small late-planted stands. Stripping activities good progress southern half State. Condition across the State was 59% of normal with 3% excellent; 16% good; 61% fair; and 20% poor. This compares with 77% of normal last year. High winds Plains damaged some SORGHUM stands, severe lodging scattered areas. Yields good across region, many late-planted fields mature before frost. Many producers welcome hard freeze to promote rapid drying. CORN harvest winding down, high winds lodged some fields Plains. Yields good this year most areas. Most SMALL GRAIN fields need rain. Grazing limited dryland WHEAT pastures High Plains, some fields not emerged because lack of moisture. Continued dry weather slowed plantings some areas, although many producers dusting wheat and oats. Some fields replanted Trans-Pecos because poor germination. Armyworms problem Edwards Plateau. Wheat condition was 62% of normal with 5% excellent; 31% good; 39% fair; and 25% poor. PEANUT harvest good progress, dryland fields Cross Timbers baled for hay. Continued dry weather slowed maturity some stands in South Texas. SOYBEAN harvest active around State, although yields low many areas. Some fields cut for hay because poor crop prospects.

SUGARCANE harvest underway Lower Rio Grande Valley. GUAR pods dried down High Plains, harvest underway some areas. HAY production slowing down with continued cool weather.

RANGE AND PASTURE: Most ranges and native pastures need additional moisture for winter grass development. Irrigated wheat pastures grazed High Plains, but germination most dryland stands poor and little grazing available. Stockers continue move onto Plains. Many producers culling herds, markets active. Livestock remain good to fair condition. Supplemental feeding increased.

COMMERCIAL VEGETABLES: Lower Rio Grande Valley, harvest early oranges remained active. Grapefruit harvested limited areas. Cucumber harvest good progress, cabbage developing well. Coastal Bend, harvest early cucumbers making good progress. San Antonio -- Winter Garden, cucumber harvest winding down. Tomato and bell pepper harvest underway some areas. Harvest of cabbage, broccoli and carrots good progress. East Texas, sweetpotatoes continued move market. Trans-Pecos, onions make good progress. Cabbage and bell pepper harvest active. Plains, some carrots still moving market, most vegetable harvest to end with arrival of cold weather. Pecan harvest active.

UTAH: Only 1 of the 39 reporting stations received measurable precipitation--0.01 in. Average temperatures ranged from 6° below normal to normal.

Harvest cleanup made good progress with 7 days of dry weather. Onions and corn silage were of most concern. Both were nearing completion by weeks end. Apple harvest also nearing completion. Some fall grains still being seeded, but most fields were planted by weeks end. Livestock and range feed remain in good to excellent condition.

VIRGINIA: Clear and cold with frost/freeze early. Short warming trend with cold front passage mid period. Brief fair weather followed by cloudy at end of period. Overall temperatures cooler with average 53°--departure -4. Most rainfall light occurring at mid period.

Cool days and light showers helped pastures and aided small grain seeding and harvesting of corn, soybeans and peanuts. Days suitable for fieldwork: 4.3. Topsoil moisture was 20% short, 78% adequate, 2% surplus. Corn for grain, 70% harvested, 1981 80% and average 72%; for silage, harvest virtually complete, 98% in 1981. Soybeans in excellent condition, 17% harvested, 24% 1981 and 14% average. Leaves have dropped on over 85% of the acreage. Peanuts in excellent condition, digging virtually complete, 96% 1981 and 82% average; combining 95%, 89% 1981 and 65% average. Wheat 41% seeded, 42% 1981 and 35% average. Barley 72% seeded, 72% 1981, 62% average. Oats 86% seeded, 84% 1981, 73% average. Apple picking 75% complete. Grain sorghum harvest 14% complete, 24% 1981 and 14% average. Sweet potatoes 95% harvested, 98% 1981, 100% average. Pastures good but some supplemental feeding beginning. Vegetable harvest continues active. Tobacco curing and marketing continues. Marketing of cull cows, calves and lambs active.

WASHINGTON: A frontal system off the coast on 16th produced some light rain as it crossed the State over the weekend. A strong high pressure system followed the front into Canada and set up a cold and dry flow of air. By 18th, maximum temperatures dropped nearly 20° and low temperatures were into the 20's through midweek. As the high moved into the midwest, a strong southwesterly flow developed over the Pacific Northwest. Temperature reports were well above normals by 22nd and significant rainfall was observed at most reporting stations.

West: Hard frosts forced harvest of most vegetables. Celery, carrot, cauliflower, and pumpkin harvest near completion. Sweet corn harvest over. Strawberry and raspberry growers cleaning up fields. Walnuts, filberts, and chestnuts being brought in for drying. Livestock in good condition and being brought in from pasture. Hay supplies adequate.

East: Seeding of winter wheat nearly complete. Harvesting of corn, potatoes, and third and fourth cutting of alfalfa hay continues. Apple harvesting continues with Red Delicious over 90% done and Granny Smith in full swing. Golden Delicious harvest complete. Grape harvesting continues. Livestock in good condition and being moved to turnip, hay, and grain fields. Fall roundup and pregnancy testing being done. Hay, range and pasture supplies mostly adequate. Other farm activities include weed control, green chopping, and sweeping and chiseling field stubble. Winter wheat 92% planted, 93% 1981, 90% average. Winter wheat 76% emerged, 78% 1981, 74% average.

WEST VIRGINIA: Temperatures averaged 6° below normal for the entire State. Precipitation well below normal over most of the State. Soil moisture adequate to short. Days worked averaged 4.4. Main activities: hay harvesting, general maintenance. Hay in fair condition, 3rd cutting 95% complete. Tobacco 99% harvested, some late tobacco hit by frost. Corn in good condition, 45% mature, 55% harvested. Fall seeding of wheat 89% completed, barley 92% completed. Pasture in fair condition. General frost across the State has ended the growing season.

WISCONSIN: State experienced a cool week noted by first significant snowfall. Temperatures averaged 4° below normal and ranged from a very pleasant 74° in Peru (Portage County) on the 18th to a very chilly 12° in Morese (Ashland County) on the 21st. First significant snowfall occurred in northwest on the 19th and 20th with most totals in the 2 to 4 in. range. Morse reported 9 in. on the ground. Rain fell across much of the rest of the State on the 19th and 20th. Most districts reported precipitation totals in 0.50 to 1.50 in. range. Delavan recoreded 2.30 in. of precipitation.

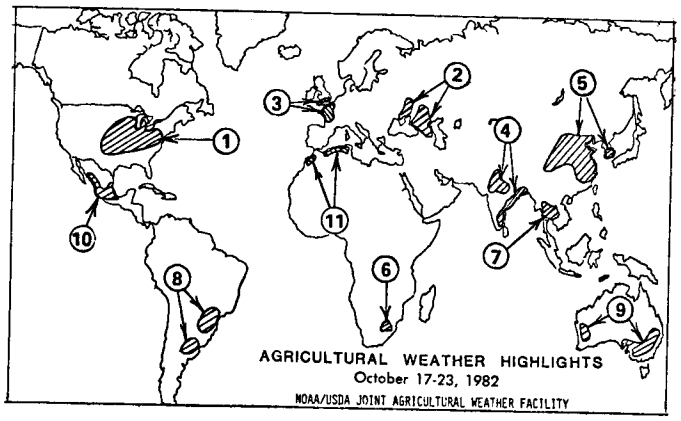
Fieldwork: 4 day suitable. The 1982 corn harvest progressed as field conditions and corn moisture permitted. Corn grain harvest 12% complete, 13% complete 1981, 30% average. Corn 99% mature, 100% 1981, 100% average. Progress was made with the corn silage harvest; 69% complete, 85% 1981, 97% average. Corn silage yields have been good. Currently 31% of the soybean acreage has been combined, 19% 1981, 40% average. Fall plowing continues; 17% complete, 22% 1981, 24% average. Some hay was made as drying conditions allowed. Pastures still good and were rated at 87% of normal, 93% 1981, 80% average. Potato and cranberry harvests nearly complete. Late season apples being picked and the harvest nearing completion. Late season fruits and vegetables still available at direct marketing outlets. Topsoil moisture supplies were rated 1% short, 50% adequate, and 49% surplus. Excessive moisture still prevails in the northern third of the State. North central district reporters rated moisture supplies 94% surplus.

WYOMING: Average temperatures below normal. Precipitation slightly below normal most places. Higher elevations snowfall well above especially

(continued on back cover)

International Weather and Crop Summary

October 17-23



1. UNITED STATES: Wet snow, heavy rain, and high winds in western Corn Belt damage some crops and delay harvesting. Unseasonal coolness ends growing season of tender crops except in Southern States. Dryness continues over most of southern Plains' wheatlands.

2. WESTERN USSR: Rains benefit winter grain in the eastern UKraine; continued unfavorably dry in the southern Volga Valley and North Caucasus; warmer weather is needed to add more growth before winter dormancy.

3. EUROPE: Soil conditions too wet for winter grains in southern England and parts of France with possible seed rot.

4. SOUTH ASIA: Continued unfavorably dry for winter grain planting in the north. Rains benefit winter rice varities in eastern coastal areas; but localized floods in Andhea Prodesh possibly damaged crops.

5. EASTERN ASIA: Light, scattered showers benefit some winter grain areas; beneficial rain improves topsoil moisture conditions for winter grain planting in South Korea.

6. SOUTH AFRICA: Rain improves corn planting conditions in west, but inadequate moisture for planting in east.

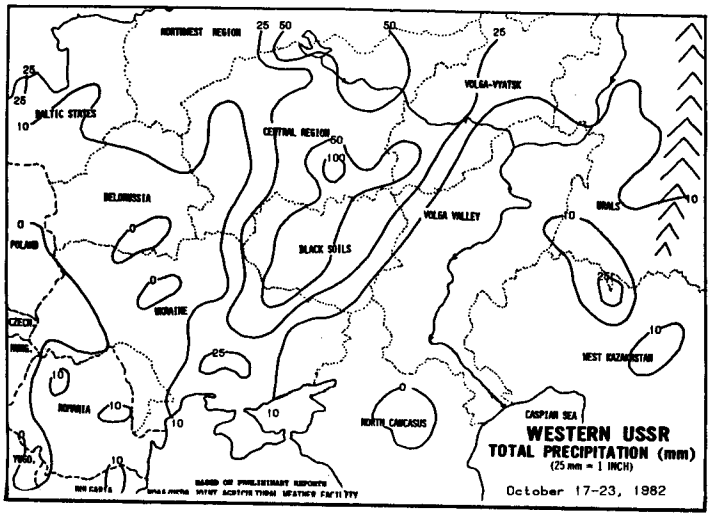
7. SOUTHEAST ASIA: Typhoon Nancy produces substantial rains for rice in eastern Thailand; below-average rainfall elsewhere.

8. SOUTH AMERICA: Locally heavy rain slows fieldwork in Argentina and drenches maturing wheat in southern Brazil.

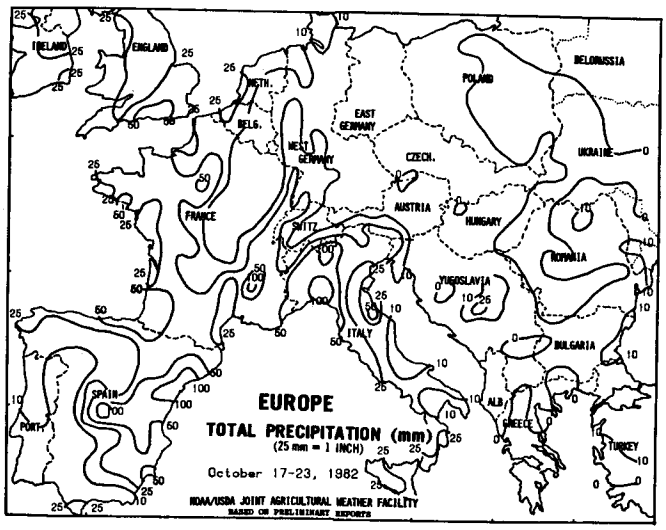
9. AUSTRALIA: Dry weather continues to plague agricultural areas of eastern Australia; some showers in Victoria and Western Australia benefit wheat; barley in heading/grain-filling period.

10. MEXICO: Rains help crops in the east-central while dryness in most other areas favors harvesting and planting.

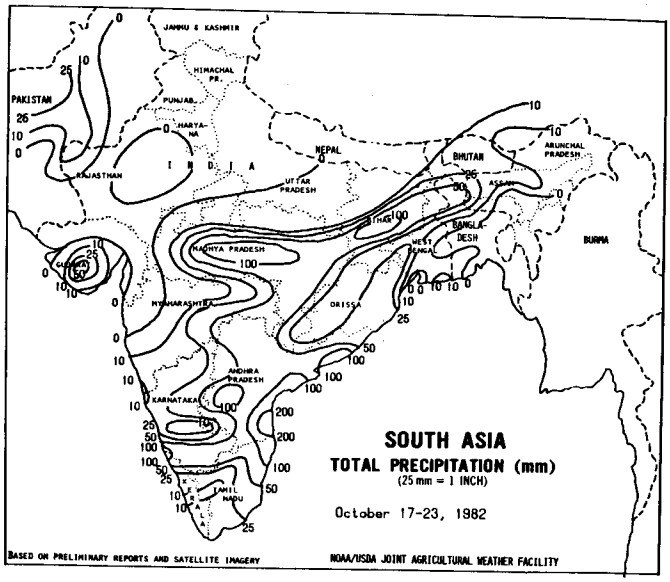
11. NORTHWEST AFRICA: Generous rains provide favorable topsoil moisture conditions for early winter grain planting.



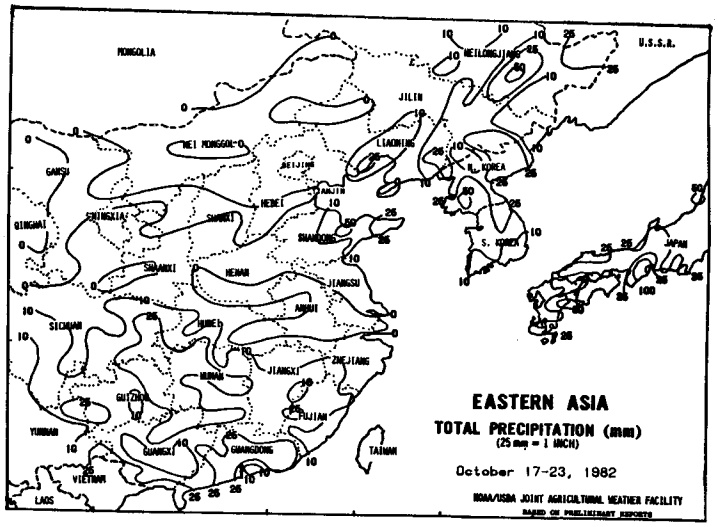
WESTERN USSR: A low-pressure system developed in the northeast Ukraine early in the week. The low intensified and moved slowly northeastward, producing large amounts of precipitation in a band stretching northeastward from Kharkov through the Black Soils Region into eastern crop areas of the Central Region and the Volga Vyatsk. In contrast, only scattered, light amounts were reported over remaining crop areas. Behind the low, cold air moved into the region, and by Thursday, subfreezing temperatures were reported as far south as the central North Caucasus. The moisture falling on the eastern Ukraine benefited winter grains, but warmer weather is needed to add more growth before winter dormancy. A less favorable outlook exists for the North Caucasus and southern Volga Valley where continued dry weather likely produced spotty emergence.



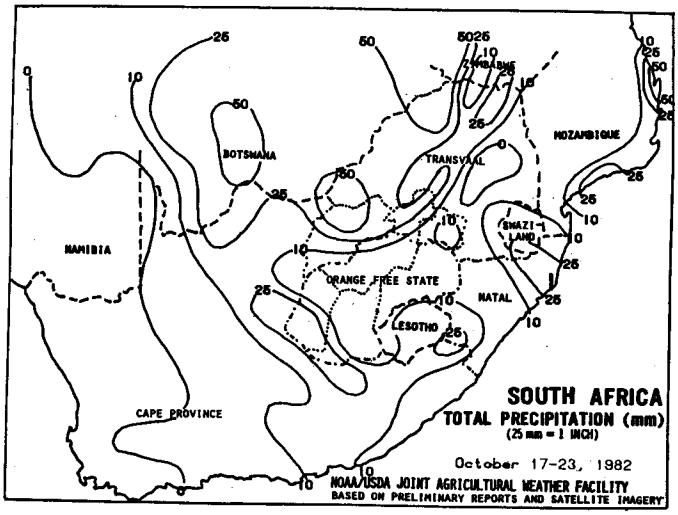
EUROPE: A deep, upper-level low-pressure system formed over the western Mediterranean early in the week and drifted slowly eastward. As a result, wet weather continued over England, France, eastern Spain, and northern Italy. Rainfall amounts generally ranged from 25 to 50 mm, but isolated heavy rains in excess of 100 mm were reported. Localized flooding likely occurred in areas which received the heaviest precipitation. A blocking high was centered over eastern Europe, inhibiting significant amounts of rainfall in this area and northern Europe. Soil conditions continue too wet for winter grains in southern England and northern France. Weekly temperatures over the region were below normal in the west and above normal in the east.



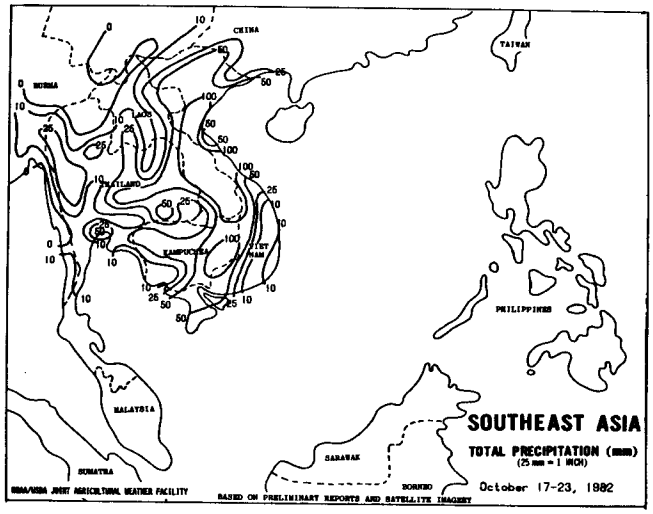
SOUTH ASIA: A dry pattern continued to cover most of India's winter grain area, reducing topsoil moisture to unfavorably low levels for winter grain planting. Fieldwork for winter grain planting normally begins in southern crop areas during October and progresses northward, ending in Punjab by mid-December. Continued dry weather in northern Gujarat, southern Rajasthan, Punjab, and Haryana stressed cotton in nonirrigated crop areas. Showers in Tamil Nadu, Orissa, and West Bengal benefited winter rice varieties, normally in the heading stage. Heavy rains in Andhra Pradesh, however, produced local flooding, with crop damage reported in some areas.



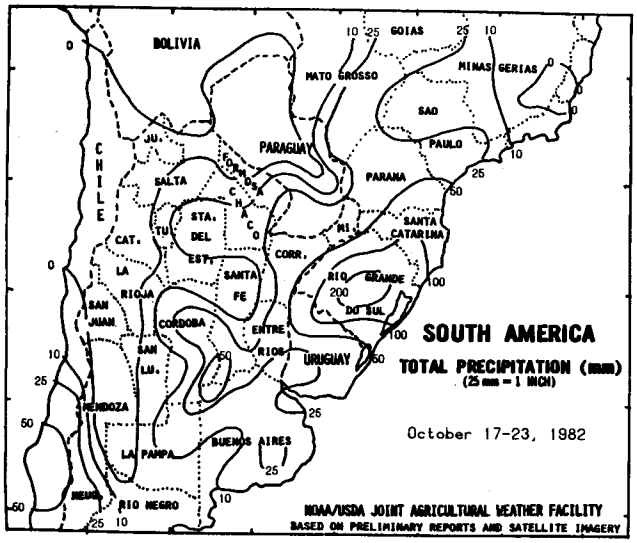
EASTERN ASIA: Showers fell along and south of the Yangtze River Valley, causing some delays in the harvest of late rice varieties. Generally light, scattered precipitation fell north of the Yangtze River, producing few delays in the cotton and soybean harvest. Winter grain planting normally ends by early November in these areas, and topsoil moisture supplies may be slightly short, particularly in Henan, Hebei, and western Shandong. Widespread showers in South Korea improved topsoil moisture conditions for winter wheat planting, which normally begins in mid-October. Near-normal temperatures covered the region, allowing continued growth of winter grains.



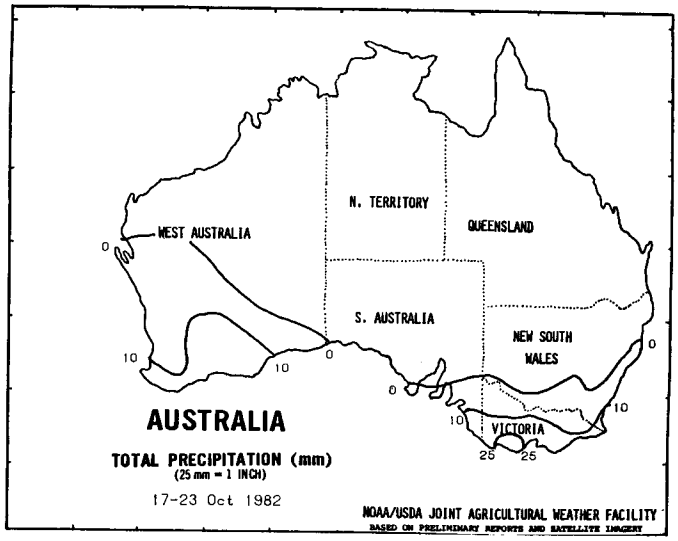
SOUTH AFRICA: Showers covered all of the Maize Triangle, but substantial rain fell mostly in the western Transvaal and extreme southern portions of the Orange Free State. The eastern portion of the Maize Triangle needs significant moisture during the next 2 weeks to complete corn planting during the optimum planting period. At the present time, soil moisture supplies are not favorable for germination and emergence. Timely rains during the growing season, which has already begun, will be essential to ensure favorable crop prospects. The Maize Triangle region is dominated by a summer rainfall regime, characterized by showers and thunderstorms. The success of this year's crop season will depend on the frequency and intensity of these summer storms.



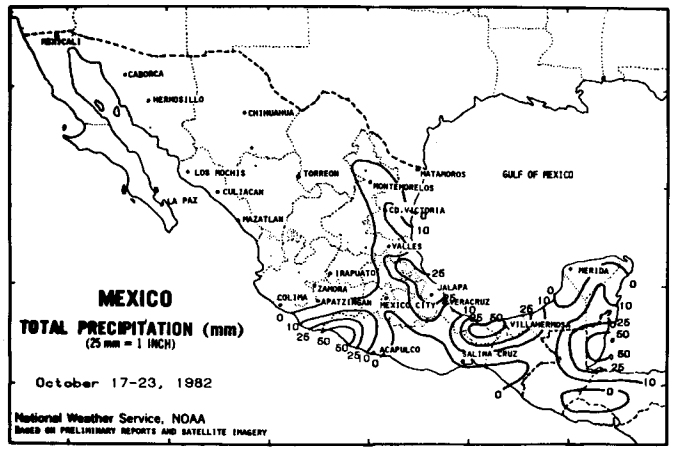
SOUTHEAST ASIA: Typhoon Nancy brought substantial rains to northern Vietnam, much of Laos, and eastern Thailand as it moved inland over Southeast Asia. These rains, as well as post-monsoon showers scattered over the remainder of the region, aided rice crop development. However, the northern highlands were generally dry; thus, the tropical storm did not benefit reservoirs. Western Thailand received only light showers, continuing the relatively dry pattern in that area. Some rain fell in peninsular Thailand, but weekly totals were below average. This below-normal rainfall pattern extended into Malaysia and Indonesia as well. Satellite imagery indicates that post-monsoon showers also fell over Kampuchea.



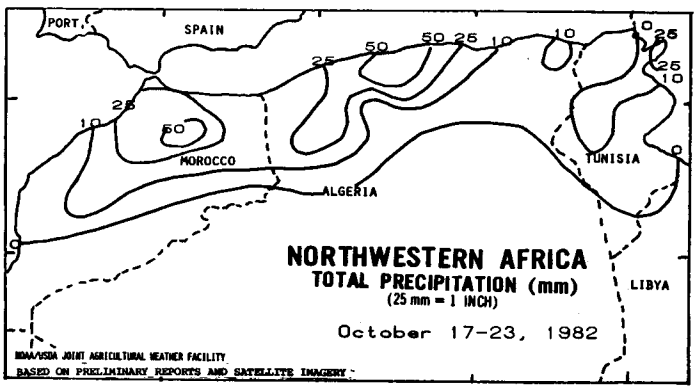
SOUTH AMERICA: Widespread rain fell over crop areas of Argentina and Brazil as warm weather returned to the region. Locally heavy rainfall amounts may have been excessive in southeastern Cordoba and southwestern Santa Fe where corn is likely being planted. Elsewhere in Argentina, the moisture benefited cotton planting in the north and aided wheat, progressing from reproduction into grain-filling in the south. In contrast to locally excessive moisture in Argentina, widespread flooding and waterlogged fields resulted from extremely heavy rains in Rio Grande do Sul and Santa Catarina in Brazil. The deluge halted wheat harvesting and other fieldwork in preparation for soybean and corn planting in the area. The late wheat harvest in Parana was also delayed somewhat, but the moisture in northern crop areas benefited soybean planting and helped promote a flush of vegetative growth and blooming in citrus and coffee trees.



AUSTRALIA: Mostly dry weather covered Australia's wheat areas. Showers produced significant rainfall only in southern Victoria, benefiting barley and grazing areas, and in southern wheat areas of Western Australia where adequate moisture is available for the grain-filling period. Elsewhere, warm, dry conditions aggravated the already disasterous agricultural situation. No additional rain fell in northern New South Wales and southeastern Queensland; thus, soils have dried out following last week's first significant rain in months. Additional moisture is needed urgently to revive grazing lands and for planting and emergence of summer crops. This is a transitional season for Australia when, normally, the equatorial belt of low pressure begins to influence northern portions of the country, while the frontal rains (mostly nonexistent this year) shift southward, skirting the southern shore of the continent.



MEXICO: Moderate rains favored agricultural crops in the east-central region and Bay of Campeche coastal plains. The additional moisture should benefit citrus, sugarcane, and coffee. Sunny weather over most other major production areas allowed harvesting of summer crops and planting of winter ones, especially along the west coast.



NORTHWEST AFRICA: Beneficial showers fell on winter grain areas of northwestern Morocco and western Algeria, with rainfall amounts ranging from 25 to 50 mm. Light showers covered southwestern Morocco, eastern Algeria, and northern Tunisia, with precipitation amounts less than 10 mm. The bulk of winter grain normally is planted in early December in Algeria, mid-November in Morocco, and early November in Tunisia. Autumn rains have provided favorable topsoil moisture conditions in most areas which could promote early winter grain planting.

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WEEKLY NEWS BULLETIN

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210

National Weather Summary (continued from front cover)

SATURDAY . . .Showers remained over the Pacific Northwest in about the same areas as the previous day. The storm in the Gulf of Mexico intensified and triggered heavy showers and thunderstorms in Florida and along the southeastern coast. Strong easterly winds caused high tides and, with heavy showers, resulted in local flooding along the coast. Freezing weather reached from the middle Mississippi Valley to the southern Appalachians and northward.

State Summaries (continued from p. 16)

in Snake, Yellowstone, and Upper North Platte Basins.

Topsoil moisture adequate. Subsoil moisture adequate 84% State. Average 5 days suitable fieldwork. Snow storm slowed fieldwork early in the week. Most winter wheat emerged; good condition most areas. Potatoes dug: 85%; year ago most. Sugar beets dug: 70%; year ago 95%. Corn for grain harvest; 10%; year ago 35%. Dry beans combined: 75%; year ago most. Livestock average or better condition most areas. Some pine needle abortion. Marketing and movement to winter pastures continued.

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