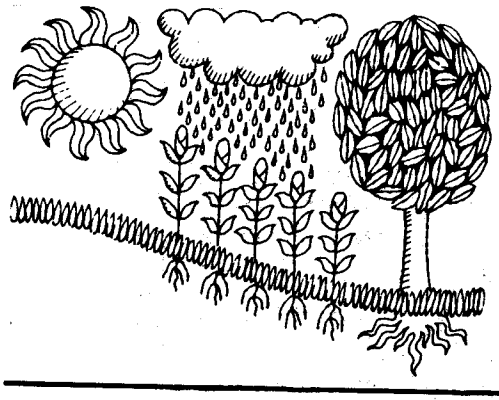


WEEKLY WEATHER AND CROP BULLETIN

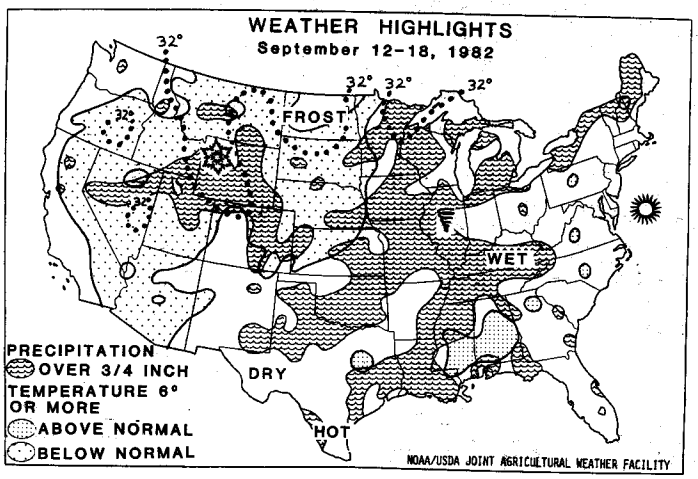
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

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

Volume 69, No. 38 WASHINGTON, D.C. Sept. 21, 1982

National Weather Summary

Sept. 12 - 18



HIGHLIGHTS: Unseasonably cool weather blanketed the northwestern half of the Nation, averaging more than 15° below seasonal in parts of Wyoming. In contrast, warm conditions covered the East, South, and southern Plains, breaking records over south Texas. Rains were widespread from the central Plateau, eastward into the south to the Great Lakes. Particularly beneficial showers fell over major wheatlands of Texas and Oklahoma. Early autumn rains dotted northern and coastal California, causing a scare to the rain-sensitive rasin-drying central area.

SUNDAY . . .The remnants of a tropical storm in the lower Mississippi Valley dropped heavy rain in the upper part of the Delta and through Kentucky. Showers and thunderstorms were scattered throughout the Southeast and the southern Plains but were more widespread in the central Plains and the upper Mississippi Valley. Lighter showers fell from the Pacific Northwest to the central Rockies. Warm temperatures prevailed over most of the East.

MONDAY . . .Tropical air continued to trigger thunderstorms and heavy rain over Kentucky and moved into western Virginia and West Virginia. Showers and thunderstorms were heavy in the central Plains, and rain fell in some of the very dry parts of Oklahoma and Texas. Thunderstorms were scattered from the Southeast through the Great Lakes region, the southern Plains, and the northern and central Rockies. Much cooler weather moved over the Northwest and northern Plains and began to cover the western portion of the Corn Belt.

TUESDAY . . .Thunderstorms produced heavy rainshowers in the central Plains. The heaviest activity was from northeastern to southeastern Oklahoma and into Texas. Scattered showers and thunderstorms continued over most of the East, but only a few light showers fell over the east coast. Rainshowers were scattered over the central Rockies and Plateau, with snow in the higher elevations. Freezing temperatures covered a large portion of the northern Rockies, and cool weather pushed further into the Plains and northern Mississippi Valley.

WEDNESDAY . . .Early-morning temperatures were below freezing through most of North Dakota and a large part of the northern Rockies. Early seasonal showers reached into much of California and extended across northern Nevada into Idaho and Utah. Showers and thunderstorms were scattered through the southern Plains but were most concentrated from southeastern Texas to southwestern Oklahoma. Scattered showers fell over the Mississippi River Valley and most of the States to the East.

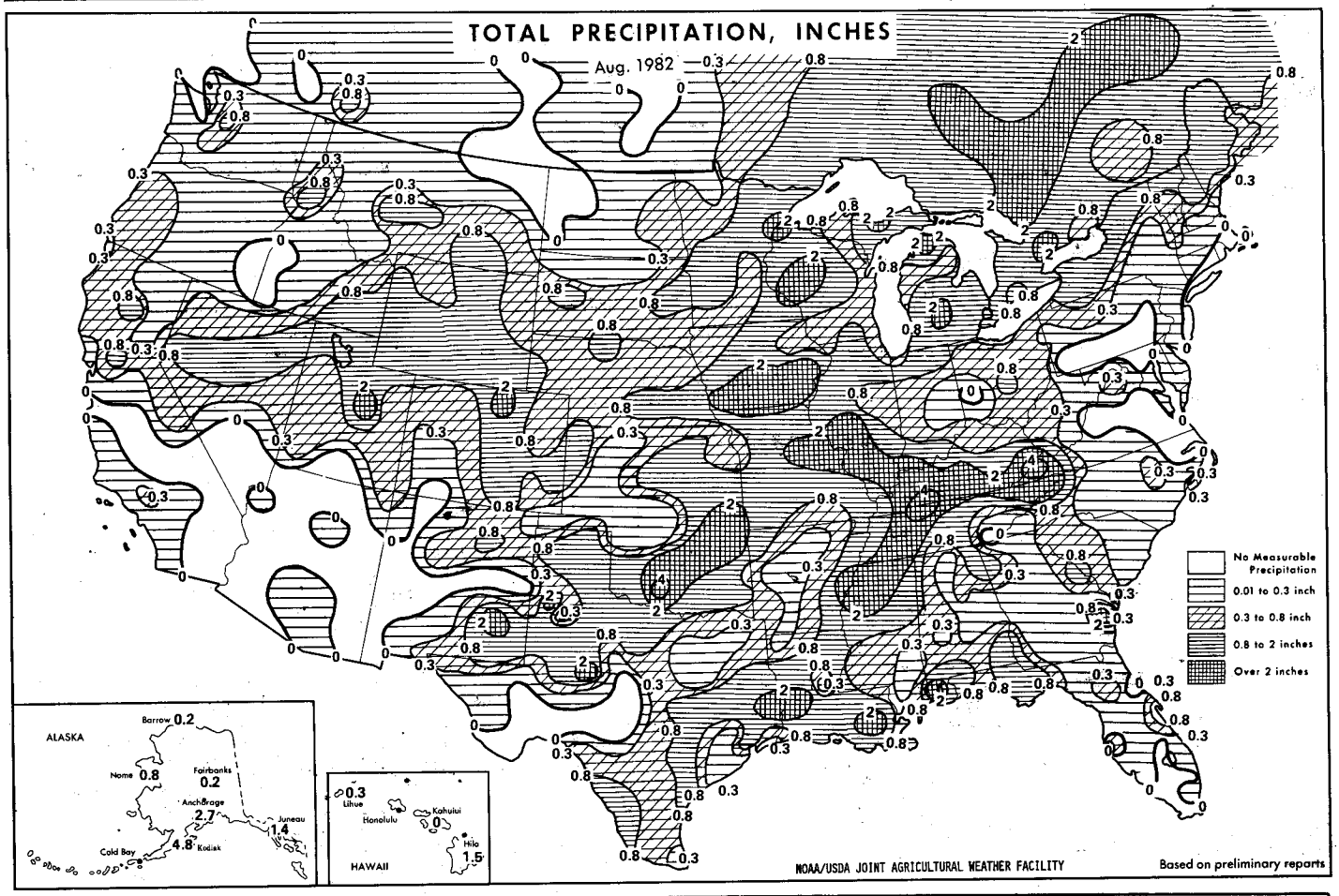
THURSDAY . . .Unseasonably cool weather covered most of the Nation behind a cold front that reached from the Atlantic into North Carolina, through Georgia to Alabama, and westward into Texas. Showers and thunderstorms were heavy along and ahead of the front, and severe weather developed in eastern Texas. Scattered showers and thunderstorms covered the Southwest and extended into the High Plains of Kansas.

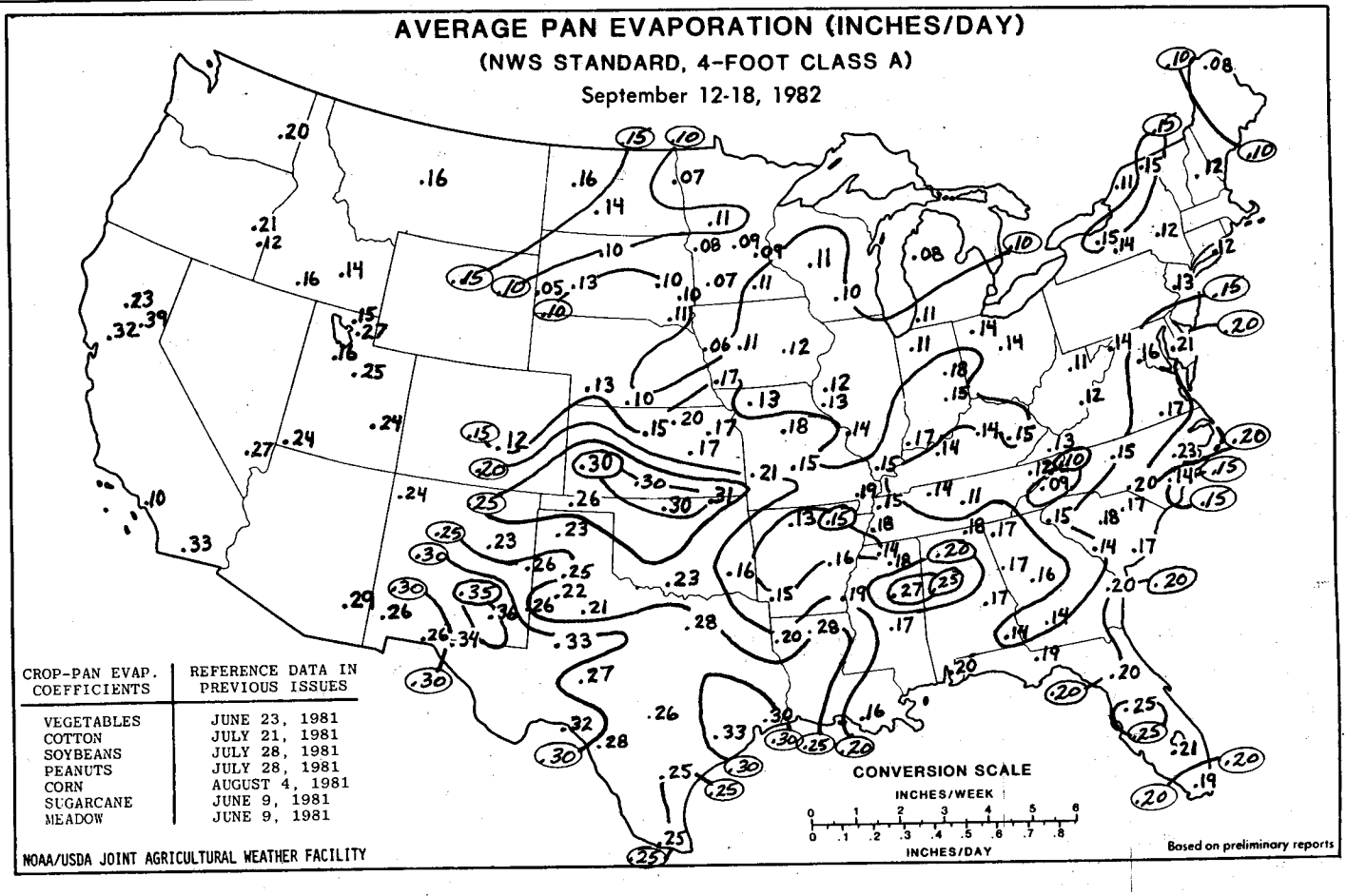
FRIDAY . . .Widespread rains developed along a secondary cold front from the central Plains to the Great Lakes. Severe weather plagued the middle Mississippi Valley with heavy rain and strong winds, and a tornado touched down in central Illinois. An early autumn upper disturbance along the Pacific coast triggered showers over western parts of Oregon and California and temporarily pushed unseasonably warm air into the Pacific Northwestern States.

(continued on back cover)

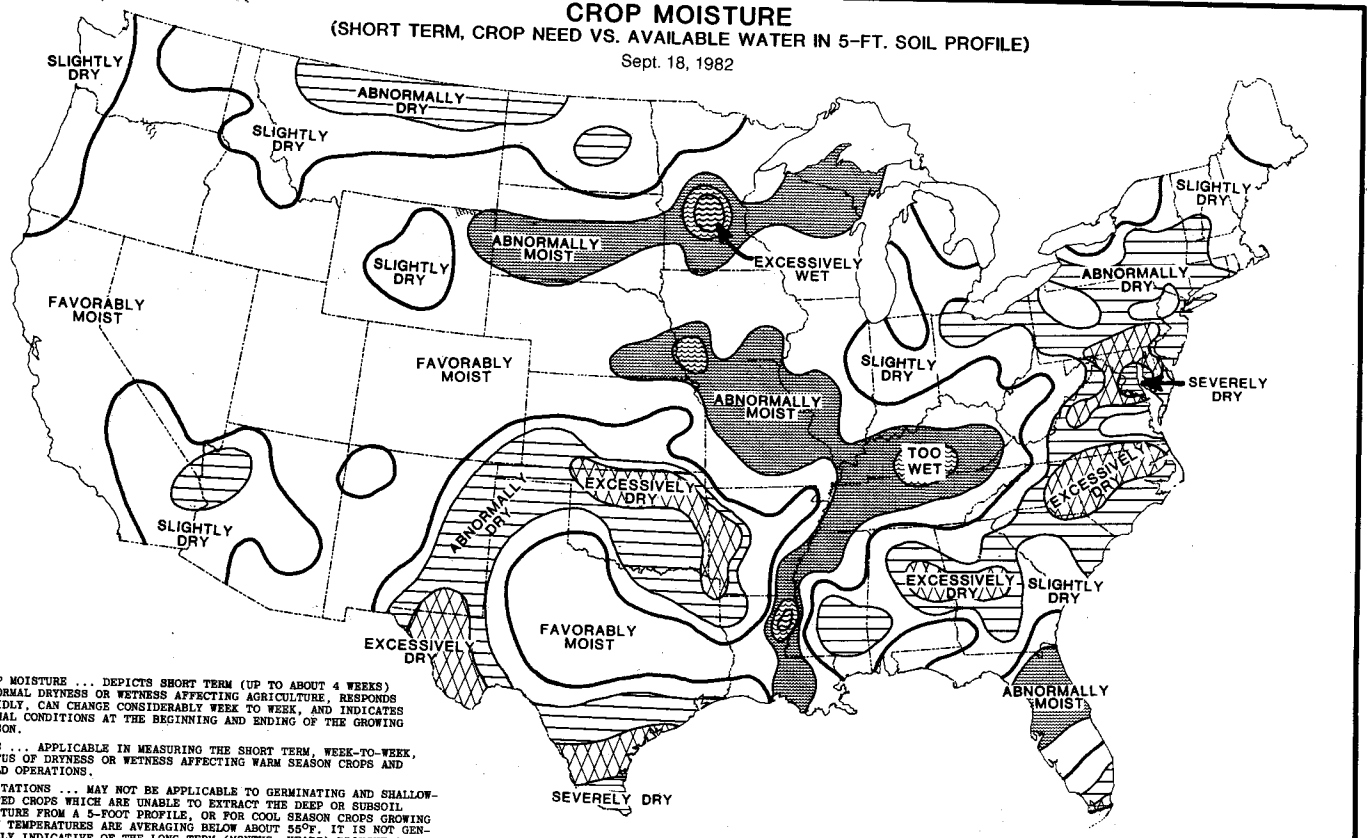
Contents

	Page
National Weather Summary	1
Precipitation & Pan Evaporation	2
Crop Moisture & Crop Moisture Index	3
Average Temperature & Departure	4
Growing Degree Days	5
Weather Data for Selected Cities	6
Cooling Degree Days	9
August Heating Degree Days	10
National Agricultural Summary	11
Crop Progress Tables	12
State Summaries of Weather & Agriculture	13
International Weather & Crop Summary	20
Subscription & Mailing Permit Information	32


TOTAL PRECIPITATION, INCHES
Aug. 1982
No Measurable Precipitation
0.01 to 0.3 inch
0.3 to 0.8 inch
0.8 to 2 inches
Over 2 inches
ALASKA
Barrow 0.2
Nome 0.8
Fairbanks 0.2
Anchorage 2.7
Juneau 1.4
Cold Bay 4.8
Kodiak
HAWAII
Lihue 0.3
Honolulu
Kahului 0
Hilo 1.5
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE PAN EVAPORATION (INCHES/DAY)
(NWS STANDARD, 4-FOOT CLASS A)
September 12-18, 1982
CROP-PAN EVAP. COEFFICIENTS
REFERENCE DATA IN PREVIOUS ISSUES
VEGETABLES JUNE 23, 1981
COTTON JULY 21, 1981
SOYBEANS JULY 28, 1981
PEANUTS JULY 28, 1981
CORN AUGUST 4, 1981
SUGARCANE JUNE 9, 1981
MEADOW JUNE 9, 1981
CONVERSION SCALE
INCHES/WEEK
INCHES/DAY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Sept. 18, 1982



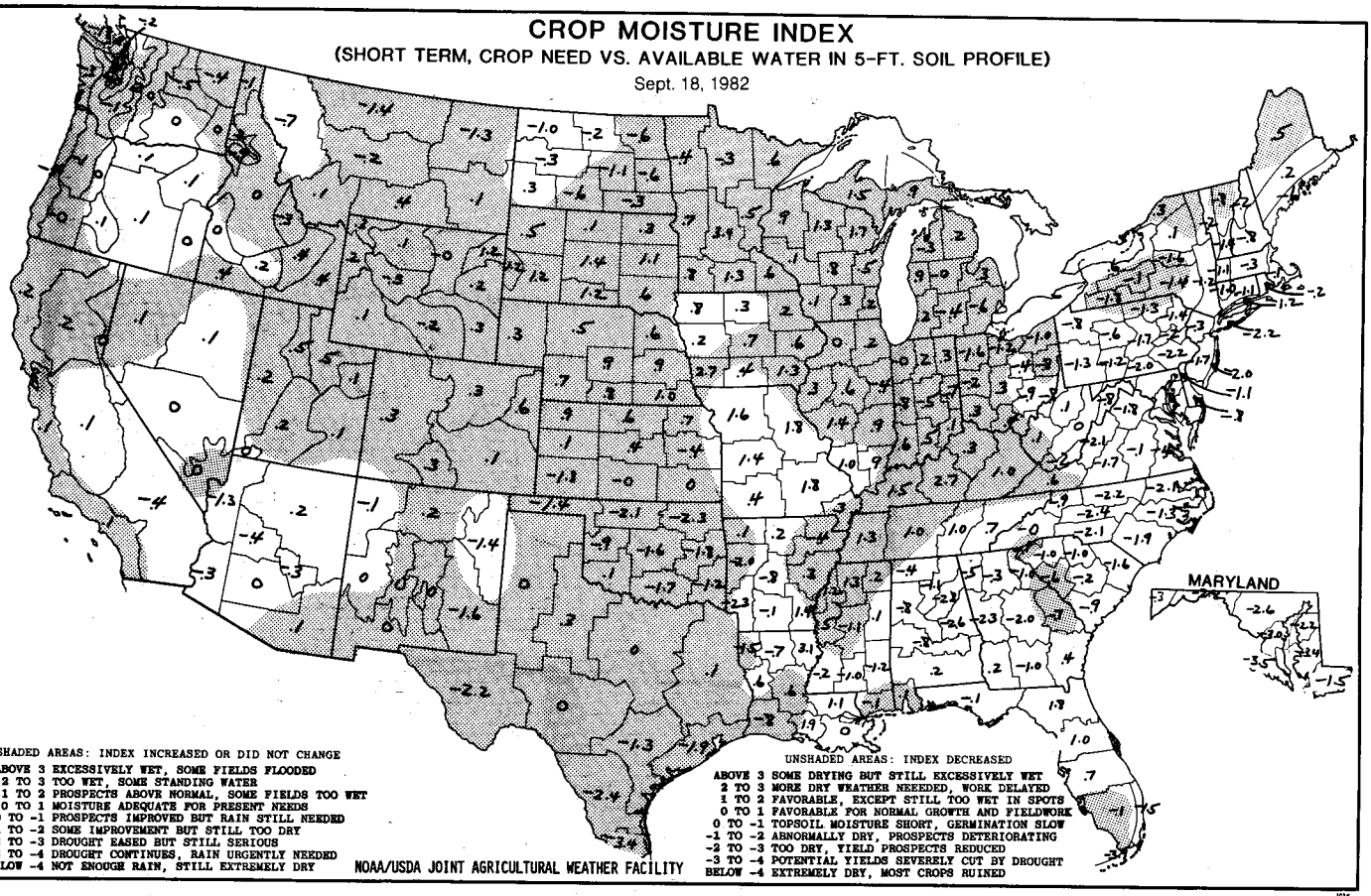
CROP MOISTURE ... DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND ENDING OF THE GROWING SEASON.

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

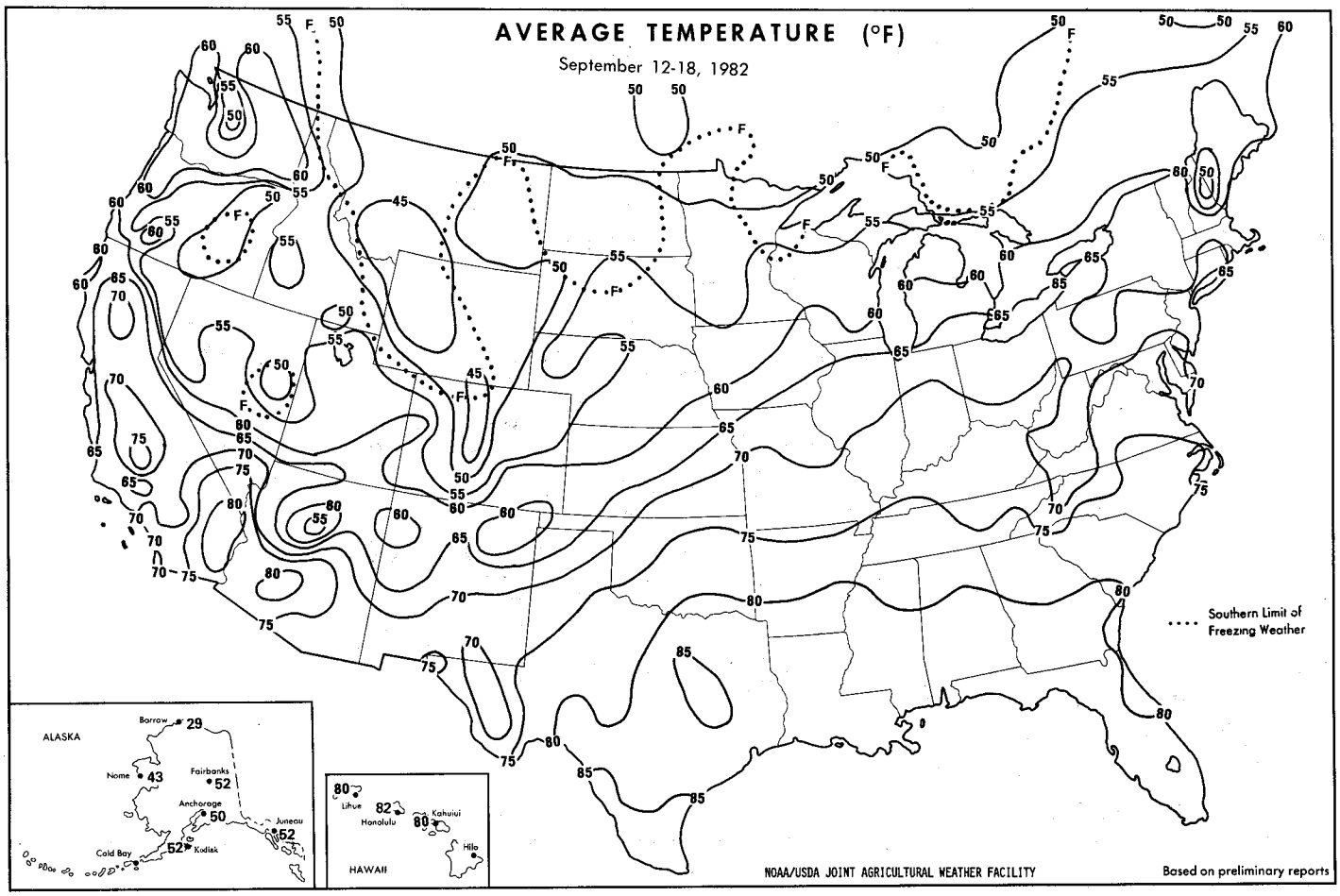
CROP MOISTURE INDEX
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Sept. 18, 1982

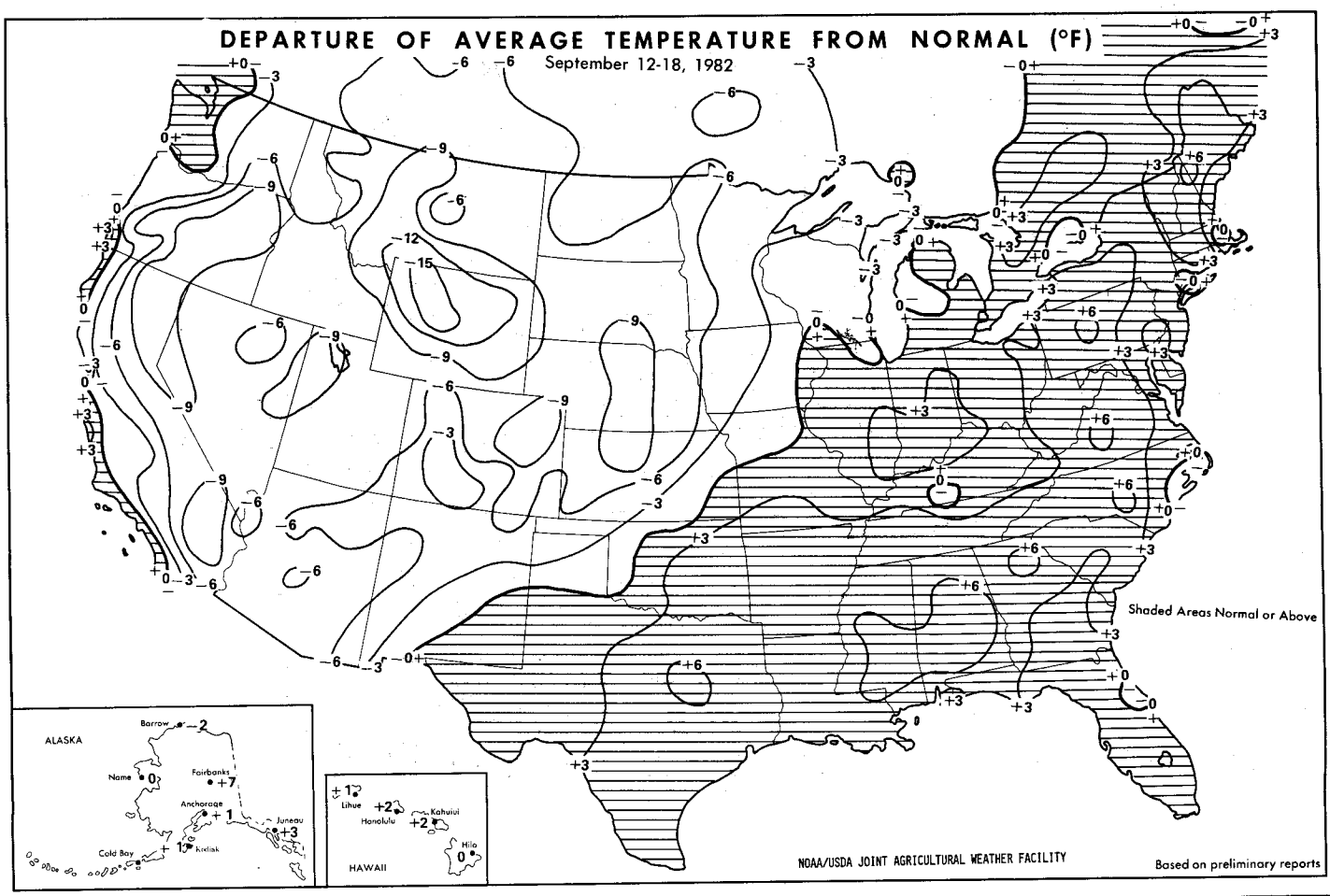


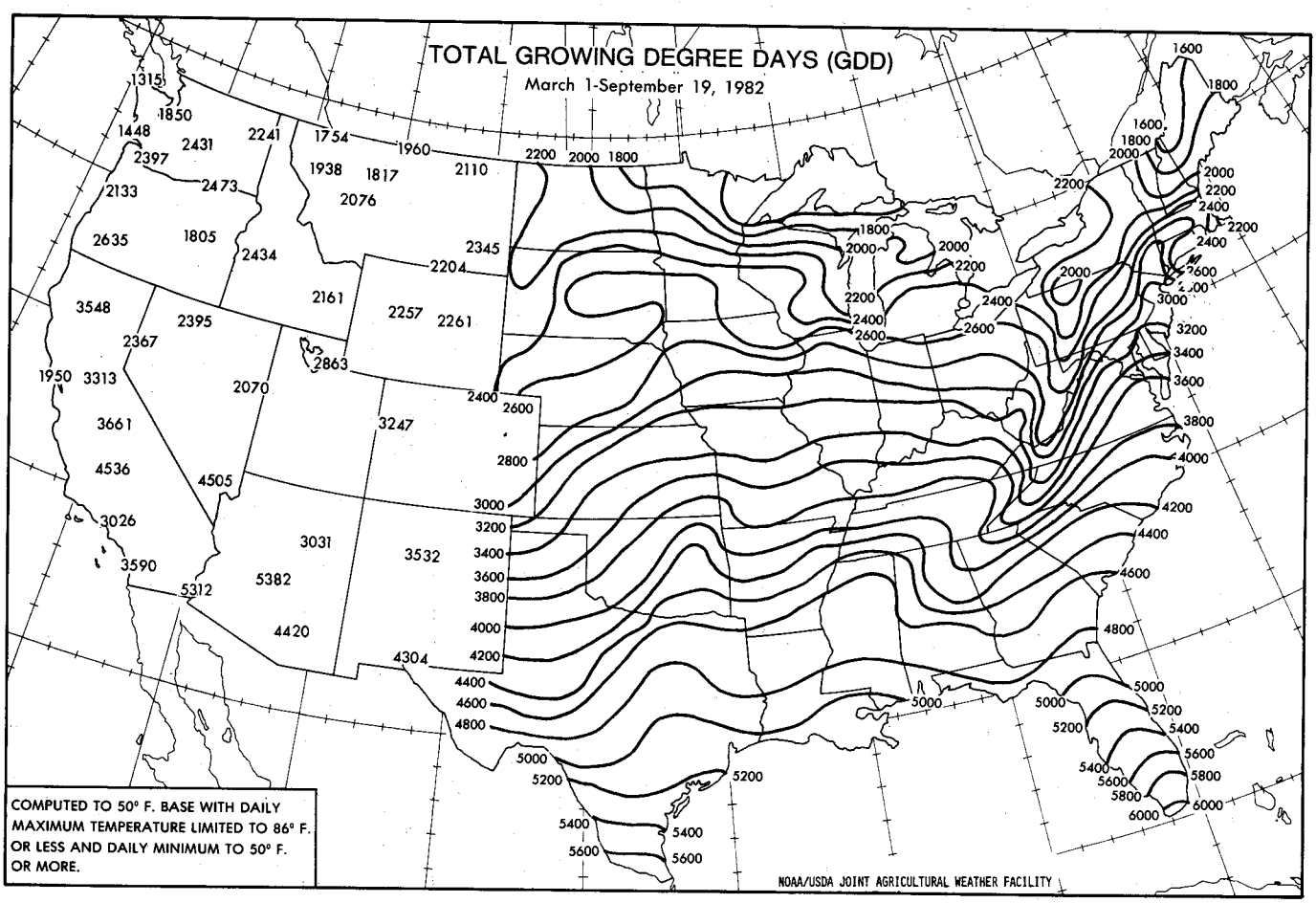
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT 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)
September 12-18, 1982
Southern Limit of Freezing Weather
ALASKA
Barrow 29
Nome 43
Fairbanks 52
Anchorage 50
Juneau 52
Cold Bay 52
Kodiak
HAWAII
Lihue 82
Honolulu 80
Kahului
Hilo
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
September 12-18, 1982
Shaded Areas Normal or Above
ALASKA
Barrow -2
Nome 0
Fairbanks +7
Anchorage +1
Juneau +3
Cold Bay +1
Kodiak
HAWAII
Lihue +1
Honolulu +2
Kahului +2
Hilo 0
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


TOTAL GROWING DEGREE DAYS (GDD)
March 1-September 19, 1982
COMPUTED TO 50° F. BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86° F. OR LESS AND DAILY MINIMUM TO 50° F. OR MORE.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Weather Data for the Week Ending Sept. 18, 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	78	58	85	46	68	1	T	- .6	T	0	0	32.2	122	92	49	0	0	0	0
TOLEDO	78	53	91	39	66	2	.4	- .2	.3	.5	28	18.5	80	97	47	2	0	3	0
YOUNGSTOWN	77	53	89	40	65	2	.2	- .4	.1	.6	32	23.7	86	95	51	0	0	3	0
OK OKLAHOMA CITY	87	65	98	57	76	3	2.7	1.8	2.0	2.7	113	30.4	128	87	47	4	0	3	1
TULSA	87	67	99	59	77	4	2.5	1.5	2.1	2.9	104	26.0	95	97	53	4	0	5	1
OR ASTORIA	71	48	79	43	59	1	.1	- .5	.1	2.1	131	43.6	121	84	50	0	0	1	0
BURNS	63	33	77	28	48	-10	.2	.1	.1	.5	250	7.2	97	82	38	0	3	3	0
MEDFORD	76	47	79	39	62	-3	.7	.6	.4	.8	267	10.0	88	86	34	0	0	2	0
PENDLETON	70	45	82	38	57	-7	.1	0	.1	.6	200	6.4	84	81	32	0	0	2	0
PORTLAND	76	50	84	45	63	1	.1	- .2	.1	1.6	178	24.0	117	90	34	0	0	2	0
SALEM	78	45	83	37	61	-1	T	- .3	T	1.0	143	22.4	99	85	30	0	0	1	0
PA ALLENTOWN	78	56	86	47	67	2	T	- .8	T	.4	15	35.7	117	90	47	0	0	1	0
ERIE	75	59	88	44	67	5	.3	- .5	.3	1.4	58	27.5	107	77	54	0	0	2	0
HARRISBURG	79	60	84	51	69	2	0	- .6	0	.6	32	30.9	104	91	45	0	0	0	0
PHILADELPHIA	83	60	89	52	72	3	.1	- .6	.1	1.0	42	31.7	112	95	44	0	0	2	0
PITTSBURGH	80	56	89	42	68	4	T	- .6	T	.9	50	23.6	89	85	42	0	0	0	0
SCRANTON	76	54	83	45	65	2	T	- .6	T	.7	37	29.3	119	93	60	0	0	0	0
RI PROVIDENCE	76	58	83	46	67	3	T	- .8	T	2.9	116	39.4	139	95	53	0	0	0	0
SC CHARLESTON	87	71	88	69	79	3	T	- 1.2	T	1.2	32	36.5	90	95	58	0	0	2	0
COLUMBIA	87	70	91	66	78	3	.3	- .7	.3	2.4	71	41.8	116	95	53	1	0	2	0
FLORENCE	87	68	91	67	78	3	.2	- .8	.2	.6	20	31.2	92	96	52	1	0	1	0
GREENVILLE	84	67	87	61	75	3	.7	- .2	.7	1.4	50	43.8	126	95	60	0	0	1	1
SD ABERDEEN	63	46	76	37	54	-5	--	--	--	--	--	--	--	92	56	0	0	0	0
HURON	62	47	73	41	55	-6	1.3	.8	.8	4.3	331	20.4	131	96	62	0	0	3	1
RAPID CITY	61	42	72	36	52	-9	.6	.3	.4	1.2	133	20.1	138	90	51	0	0	3	0
SIOUX FALLS	61	49	71	39	55	-6	.3	- .4	.1	7.6	362	23.0	113	96	67	0	0	5	0
TN CHATTANOOGA	87	66	90	63	76	4	T	- .9	T	.5	20	39.3	106	96	53	2	0	0	0
KNOXVILLE	85	68	88	63	77	5	T	- .6	T	1.9	100	41.2	123	94	58	0	0	1	0
MEMPHIS	84	71	90	62	77	3	1.6	.9	.8	1.8	82	43.3	122	94	65	1	0	3	2
NASHVILLE	84	66	90	60	75	3	1.1	.4	.9	3.0	130	36.5	109	96	63	1	0	4	1
TX ABILENE	88	69	95	65	79	3	T	- .5	T	.4	27	16.9	97	78	40	2	0	1	0
AMARILLO	81	55	90	51	68	-2	1.1	.6	.6	1.4	93	16.3	104	85	40	1	0	2	1
AUSTIN	96	74	99	71	85	6	.4	- .5	.4	1.4	58	17.8	78	83	39	7	0	2	0
BEAUMONT	91	74	92	72	83	3	.3	- 1.0	.3	1.1	28	42.3	107	94	62	7	0	1	0
BROWNSVILLE	95	76	97	72	86	4	.1	- 1.2	.1	1.2	34	16.7	101	88	47	7	0	1	0
CORPUS CHRISTI	95	75	96	71	85	3	.5	- .7	.3	.6	17	15.8	79	90	49	7	0	4	0
DEL RIO	92	72	95	68	82	1	.6	- .1	.6	1.0	53	9.2	75	80	32	5	0	2	1
EL PASO	89	63	93	60	76	1	.4	.1	.2	1.1	138	3.8	64	76	28	3	0	3	0
FORT WORTH	92	72	96	67	82	4	.1	- .7	T	.1	5	29.9	128	73	39	6	0	2	0
GALVESTON	89	79	92	76	84	4	T	- 1.4	T	1.3	32	20.0	68	88	72	2	0	1	0
HOUSTON	94	74	97	70	84	5	T	- 1.1	T	1.0	31	23.2	70	96	48	7	0	2	0
LUBBOCK	85	62	91	58	74	3	.2	- .3	.2	.5	33	16.7	118	82	41	3	0	1	0
MIDLAND	91	65	97	62	78	3	.7	.3	.7	.7	64	10.8	106	80	30	5	0	1	1
SAN ANGELO	91	68	95	63	79	3	T	- .7	T	0	0	15.0	117	82	41	4	0	1	0
SAN ANTONIO	94	71	97	68	83	3	.7	- .2	.6	.8	31	13.2	68	87	37	7	0	2	1
VICTORIA	94	74	97	71	84	4	.9	- .2	.5	1.2	39	19.0	79	90	46	6	0	4	0
WACO	96	74	99	66	85	6	.2	- .6	.1	.2	10	22.0	100	85	39	7	0	2	0
WICHITA FALLS	90	67	99	60	78	1	1.3	.6	1.3	1.9	95	32.3	163	89	45	4	0	2	1
UT BLANDING	68	44	75	36	56	-8	.4	.2	.3	1.2	171	10.5	122	83	55	0	0	2	0
CEDAR CITY	72	44	77	37	58	-5	.3	.1	.2	.8	133	10.9	154	84	26	0	0	2	0
SALT LAKE CITY	68	49	76	43	58	-7	1.0	.9	.8	2.3	460	13.5	129	87	41	0	0	4	1
VT BURLINGTON	75	54	88	43	65	5	.7	0	.6	1.2	52	23.9	101	87	47	0	0	3	1
VA NORFOLK	82	62	89	59	72	0	.3	- .7	.3	.3	9	33.9	101	96	55	0	0	1	0
RICHMOND	86	62	91	57	74	4	T	- .8	T	0	0	35.0	110	98	50	1	0	0	0
ROANOKE	84	59	90	54	72	3	.2	- .6	.2	.4	16	32.3	115	96	46	1	0	1	0
WA COLVILLE	71	39	83	32	55	-4	T	- .2	T	.6	100	12.2	116	79	42	0	1	1	0
QUILLAYUTE	73	43	82	39	58	1	0	- 1.1	0	3.7	132	70.0	120	97	42	0	0	0	0
SEATTLE-TACOMA	72	50	80	46	61	2	T	- .4	T	1.0	91	22.5	106	89	39	0	0	1	0
SPOKANE	68	43	81	37	56	-4	.1	- .2	.1	1.0	167	10.4	97	79	33	0	0	1	0
YAKIMA	75	41	85	35	58	-4	T	0	T	.2	100	5.4	113	80	26	0	0	1	0
WV BECKLEY	75	59	79	50	67	4	.2	- .7	.1	1.6	62	33.7	106	100	64	0	0	3	0
CHARLESTON	82	60	89	49	71	3	.6	- .1	.4	1.5	71	32.6	107	97	55	0	0	4	0
HUNTINGTON	78	60	83	50	69	1	.7	0	.4	1.7	81	32.8	111	100	60	0	0	3	0
PARKERSBURG	81	61	88	52	71	4	.4	- .2	.4	1.2	60	27.5	86	94	48	0	0	2	0
WI GREEN BAY	64	49	80	38	57	-2	.6	- .2	.2	1.9	86	20.7	104	93	68	0	0	4	0
LA CROSSE	66	53	81	44	60	-2	1.0	.2	.5	2.8	117	17.1	74	99	79	0	0	3	0
MADISON	68	50	81	37	59	-1	1.0	.1	.8	2.4	96	22.1	97	99	72	0	0	4	1
MILWAUKEE	69	55	81	47	62	1	.4	- .4	.3	.7	32	24.3	112	93	67	0	0	4	0
WAUSAU	63	49	75	40	56	-2	1.9	1.0	.8	3.7	137	27.9	115	95	66	0	0	5	2
WY CASPER	57	37	74	32	47	-12	1.5	1.3	.8	2.2	367	13.9	160	98	60	0	1	3	2
CHEYENNE	59	41	74	39	50	-8	1.5	1.3	.8	2.0	286	15.9	136	99	61	0	0	5	2
LANDER	49	33	67	28	41	-17	1.1	.9	.7	1.2	200	7.8	76	92	62	0	4	3	1
SHERIDAN	59	35	76	34	47	-11	1.4	1.0	.9	1.8	180	11.4	92	88	49	0	0	4	1
PR SAN JUAN	91	76	95	76	84	3	1.7	.3	1.4	3.3	73	33.2	83	88	62	6	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Sept. 18, 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	90	70	93	68	80	6	.3	- .6	.2	.8	30	50.9	130	96	49	5	0	2	0
MOBILE	91	73	93	69	82	4	3.4	1.8	1.8	4.7	94	60.7	119	96	54	5	0	3	2
MONTGOMERY	93	73	96	71	83	6	.1	- 1.0	T	2.0	67	47.6	131	89	46	7	0	2	0
AK ANCHORAGE	56	44	65	34	50	1	2.7	2.1	1.4	4.5	250	11.4	111	93	55	0	0	6	1
BARROW	32	26	34	18	29	-2	.2	0	.1	.5	83	3.8	100	98	84	0	7	4	0
FAIRBANKS	61	42	69	35	52	7	.2	0	.2	1.4	156	9.7	108	81	46	0	0	2	0
JUNEAU	58	46	63	42	52	3	1.4	- .2	1.3	3.5	78	30.1	91	100	80	0	0	4	1
KODIAK	56	48	58	40	52	1	4.8	3.4	1.8	7.6	190	43.4	119	94	73	0	0	6	4
NOME	49	38	52	32	43	0	.9	.4	.7	1.7	94	12.4	100	78	53	0	1	5	1
AZ PHOENIX	93	70	98	65	81	-3	T	- .1	T	.1	20	5.8	118	70	24	5	0	1	0
PRESCOTT	73	52	78	47	63	-6	0	- .3	0	.6	50	10.7	78	74	29	0	0	0	0
TUCSON	86	61	91	59	74	-7	T	- .3	T	2.2	200	10.5	125	79	26	2	0	1	0
YUMA	91	70	96	65	81	-7	0	- .1	0	.1	50	2.6	153	60	25	5	0	0	0
AR FORT SMITH	88	66	96	60	77	3	.3	- .5	.2	.6	26	32.7	106	93	51	5	0	2	0
LITTLE ROCK	86	69	93	65	78	4	.3	- .5	.2	1.2	50	41.8	124	94	66	2	0	3	0
CA BAKERSFIELD	85	67	93	64	76	-1	T	0	T	0	+100	4.8	130	66	33	2	0	0	0
EUREKA	68	50	78	44	59	2	.5	.4	.3	.5	250	24.9	110	95	70	0	0	2	0
FRESNO	82	60	90	58	71	-3	T	0	T	0	+100	8.6	137	81	35	1	0	0	0
LOS ANGELES	75	64	78	61	70	1	.3	.3	.3	.5	250	9.1	118	78	52	0	0	3	0
RED BLUFF	79	61	90	54	70	-6	1.1	1.0	.6	1.1	367	13.9	104	69	36	1	0	4	1
SACRAMENTO	76	55	87	49	66	-6	.9	.8	.4	.9	900	19.0	162	82	44	0	0	3	0
SAN DIEGO	76	67	82	64	72	1	.1	.1	.1	.3	300	9.3	163	83	64	0	0	3	0
SAN FRANCISCO	73	56	86	53	65	0	.3	.3	.3	.3	+100	22.9	203	73	45	0	0	3	0
CO DENVER	64	45	80	43	55	-8	1.0	.7	.5	1.4	175	10.1	86	92	52	0	0	6	0
GRAND JUNCTION	72	52	83	45	62	-6	.3	.1	.3	1.5	250	5.3	91	85	43	0	0	2	0
PUEBLO	70	51	86	48	61	-5	1.6	1.4	1.6	1.8	257	15.1	151	92	56	0	0	1	1
CT BRIDGEPORT	74	59	79	48	66	-1	T	- .7	T	.5	24	36.5	135	94	68	0	0	0	0
HARTFORD	78	55	87	42	66	3	T	- .8	T	.8	31	39.0	133	90	48	0	0	1	0
DC WASHINGTON	85	65	88	59	75	4	T	- .7	T	.1	4	27.7	96	84	43	0	0	0	0
FL APALACHICOLA	90	74	93	71	82	3	.8	- 1.5	.6	14.7	216	56.8	128	98	64	3	0	3	1
DAYTONA BEACH	87	72	88	70	79	-1	0	- 1.7	0	1.2	24	39.0	105	95	64	0	0	0	0
JACKSONVILLE	90	72	91	70	81	2	T	- 1.9	T	8.5	147	43.5	103	100	61	5	0	1	0
KEY WEST	88	78	90	75	83	0	.6	- 1.2	.4	3.1	63	29.5	110	86	61	2	0	2	0
MIAMI	90	76	91	71	83	1	.1	- 2.0	.1	3.3	56	46.6	109	91	52	6	0	1	0
ORLANDO	91	74	92	72	82	2	T	- 1.7	T	1.5	29	43.7	108	94	50	7	0	1	0
TALLAHASSEE	92	70	95	68	81	3	.9	- .7	.7	5.0	104	49.2	102	96	53	7	0	2	1
TAMPA	90	74	92	72	82	1	T	- 1.5	T	5.0	102	45.6	114	97	54	5	0	0	0
WEST PALM BEACH	90	76	92	73	83	1	T	- 2.3	T	2.8	43	56.3	129	88	55	4	0	3	0
GA ATLANTA	86	67	90	65	77	4	.1	- .7	.1	3.0	125	41.1	114	93	58	1	0	1	0
AUGUSTA	90	67	94	66	79	4	1.3	.5	1.1	1.5	60	29.8	90	97	49	4	0	3	1
MACON	90	69	94	68	80	4	.1	- .7	.1	2.6	108	36.8	111	97	58	5	0	1	0
SAVANNAH	89	71	93	68	80	3	.1	- 1.3	.1	1.1	26	44.6	109	91	54	2	0	1	0
HI HILO	83	69	84	67	76	0	1.5	- .1	.6	9.8	181	146.7	169	93	68	0	0	5	1
HONOLULU	89	75	91	73	82	2	T	- .1	T	.5	125	23.2	168	78	51	2	0	0	0
KAHULUI	89	71	91	65	80	2	0	- .1	0	.4	400	23.2	205	78	46	3	0	0	0
LIHUE	85	74	86	73	80	1	.3	- .1	.2	1.5	125	47.6	182	89	65	0	0	4	0
ID BOISE	69	42	85	35	56	-8	T	- .1	T	.1	50	7.6	96	78	33	0	0	0	0
LEWISTON	75	47	90	37	61	-3	.2	0	.2	.4	67	8.3	94	73	30	1	0	1	0
POCATELLO	65	41	77	37	53	-6	1.5	1.4	1.1	1.9	475	11.7	150	93	48	0	0	5	1
IL CHICAGO	72	56	81	45	64	0	.6	- .2	.5	1.1	50	27.8	116	95	64	0	0	3	1
MOLINE	76	57	86	47	66	2	.8	- .1	.8	2.1	81	30.9	116	95	61	0	0	1	1
PEORIA	77	59	87	48	68	2	.8	- .1	.6	1.5	58	33.3	126	98	59	0	0	3	1
QUINCY	76	59	86	50	68	0	1.8	.8	1.3	4.2	140	34.4	--	93	62	0	0	3	1
ROCKFORD	72	55	83	44	64	0	.8	- .2	.6	1.7	59	30.8	112	98	65	0	0	3	1
SPRINGFIELD	80	59	87	49	69	2	2.1	1.4	1.2	4.1	195	28.2	112	95	64	0	0	4	2
IN EVANSVILLE	83	63	87	53	73	4	2.2	1.5	1.8	5.9	295	37.4	120	92	55	0	0	3	1
FORT WAYNE	79	57	88	47	68	3	.8	.2	.5	1.1	65	31.2	119	89	49	0	0	4	1
INDIANAPOLIS	79	61	86	49	70	3	.3	- .4	.2	1.2	60	30.9	110	97	53	0	0	3	0
SOUTH BEND	74	58	84	45	66	2	1.4	.7	1.4	1.7	77	30.7	119	94	62	0	0	2	1
IA DES MOINES	70	55	85	46	62	-2	2.3	1.6	1.3	4.8	218	35.2	147	92	69	0	0	4	2
SIOUX CITY	65	51	78	41	58	-5	.7	0	.3	2.2	105	20.3	94	91	60	0	0	4	0
WATERLOO	68	53	85	42	60	-1	.7	- .2	.3	3.4	126	25.1	97	89	67	0	0	5	0
KS CONCORDIA	68	54	79	46	61	-7	.7	- .1	.4	2.1	88	33.8	150	94	68	0	0	3	0
DODGE CITY	75	54	90	50	65	-4	.2	- .2	.1	1.2	86	16.4	99	90	50	1	0	3	0
GOODLAND	65	49	80	44	57	-8	1.2	.8	.7	2.3	209	22.7	164	92	58	0	0	3	1
TOPEKA	76	56	86	45	66	-2	.7	- .1	.5	1.2	48	31.2	113	92	64	0	0	4	1
WICHITA	80	60	93	52	70	-1	.7	- .3	.7	2.0	74	24.4	104	92	53	1	0	1	1
KY BOWLING GREEN	80	62	88	55	71	-1	3.1	2.3	2.6	7.5	326	38.7	110	100	66	0	0	3	1
LEXINGTON	79	63	86	54	71	2	.7	.1	.7	3.7	185	28.9	87	93	58	0	0	2	1
LOUISVILLE	80	64	87	56	72	3	.9	.2	.6	3.6	171	33.2	103	89	58	0	0	3	1
LA ALEXANDRIA	92	73	93	71	82	4	.1	- .5	.1	2.7	150	35.0	--	86	51	7	0	1	0
BATON ROUGE	92	74	93	72	83	5	.9	0	.6	2.7	96	35.9	89	91	53	7	0	5	1
LAKE CHARLES	90	74	92	72	82	3	1.6	.6	1.5	11.4	393	40.4	101	93	58	4	0	3	1
NEW ORLEANS	91	73	92	71	82	3	3.6	2.2	2.3	5.0	119	45.5	107	98	55	7	0	2	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Sept. 18, 1982

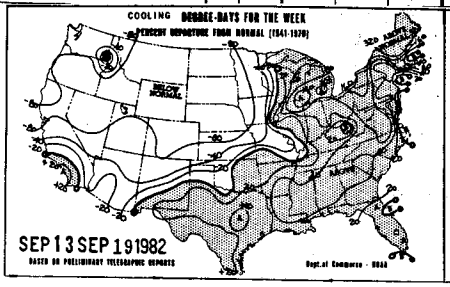
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, 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
SHREVEPORT	94	71	98	68	83	5	.2	- .6	.1	.7	32	23.0	73	97	47	7	0	3	0
ME CARIBOU	66	52	82	43	59	4	1.2	.3	.9	2.9	107	27.0	108	92	61	0	0	3	1
PORTLAND	68	52	80	41	60	1	T	- .7	T	.7	33	31.4	119	95	68	0	0	2	0
MD BALTIMORE	83	59	86	51	71	2	0	- .7	0	.9	38	24.7	84	89	44	0	0	0	0
SALISBURY	83	57	86	50	70	0	T	- .9	T	0	0	28.2	87	99	51	0	0	1	0
MA BOSTON	72	57	77	50	64	0	T	- .8	T	.4	16	35.5	122	97	63	0	0	0	0
CHATHAM	67	55	72	52	61	--	T	--	T	5.0	--	33.4	--	96	83	0	0	1	0
MI ALPENA	66	49	87	36	58	1	.5	- .4	.2	2.6	104	17.2	89	99	66	0	0	3	0
DETROIT	76	53	88	40	65	1	1.1	.6	.6	1.3	76	22.9	98	92	52	0	0	4	1
FLINT	73	52	87	41	63	1	1.3	.7	.9	1.6	84	19.0	88	96	63	0	0	5	1
GRAND RAPIDS	73	55	88	41	64	1	1.5	.6	.8	2.1	88	23.5	104	91	61	0	0	5	1
HOUGHTON LAKE	65	51	84	36	58	1	.7	- .1	.5	2.7	129	22.5	115	95	69	0	0	4	0
LANSING	73	52	91	40	63	1	2.1	1.5	1.1	2.8	147	18.7	85	99	62	1	0	3	2
MARQUETTE	59	45	80	38	52	-2	1.4	.4	.5	2.8	97	25.4	101	98	71	0	0	4	1
MUSKEGON	70	54	84	38	62	1	.8	0	.8	2.7	117	24.5	115	96	68	0	0	3	1
SAULT STE. MARIE	61	43	84	33	52	-3	1.1	.1	.5	4.7	168	24.7	117	97	67	0	0	4	0
MN ALEXANDRIA	59	46	71	40	53	-5	1.7	1.2	.9	2.9	153	22.0	109	98	69	0	0	6	1
DULUTH	58	45	70	35	51	-3	2.1	1.4	1.1	3.3	150	23.6	104	92	68	0	0	4	2
INT'L FALLS	58	40	69	31	49	-4	1.1	.3	.5	2.1	84	17.5	86	99	69	0	2	3	1
MINNEAPOLIS	64	51	77	44	58	-3	.6	- .1	.2	3.1	148	19.2	94	87	61	0	0	5	0
ROCHESTER	65	52	80	42	58	-1	1.8	1.0	1.4	5.3	230	28.0	125	87	65	0	0	5	1
MS GREENWOOD	90	73	92	68	81	6	3.4	2.7	3.2	4.3	195	39.5	--	95	58	5	0	2	1
JACKSON	91	72	93	70	81	5	.6	- .2	.5	.9	39	43.7	123	100	56	6	0	2	1
MERIDIAN	93	71	95	69	82	7	T	- .8	T	.8	32	42.3	112	91	51	7	0	1	0
MO CAPE GIRARDEAU	84	64	90	54	74	2	1.7	.8	1.2	2.3	85	38.7	124	100	62	1	0	2	1
COLUMBIA	77	60	87	51	69	0	2.1	1.0	1.0	5.8	193	36.8	134	97	64	0	0	4	2
KANSAS CITY	76	58	86	50	67	-1	.7	- .3	.3	1.7	59	38.0	135	92	64	0	0	4	0
SAINT LOUIS	78	63	85	55	70	1	3.4	2.7	1.5	5.5	275	40.8	154	100	69	0	0	5	3
SPRINGFIELD	82	63	91	53	72	3	.9	- .1	.5	1.6	57	31.9	111	90	60	1	0	3	0
MT BILLINGS	59	41	76	35	50	-9	.8	.4	.7	1.2	120	15.3	138	84	47	0	0	2	1
GLASGOW	63	38	77	34	51	-7	T	- .2	T	.2	29	9.1	103	71	32	0	0	0	0
GREAT FALLS	56	35	73	29	45	-12	.3	0	.2	.4	44	13.3	109	85	43	0	3	2	0
HAVRE	60	35	75	27	48	-9	T	- .3	T	0	0	12.3	129	83	35	0	3	1	0
HELENA	56	34	75	31	45	-10	1.3	1.1	.8	1.4	200	10.7	122	92	51	0	2	3	1
KALISPELL	64	35	77	27	49	-4	T	- .2	T	.5	63	14.2	128	92	36	0	2	1	0
MILES CITY	61	42	75	38	52	-8	.6	.3	.6	1.1	122	11.7	104	86	39	0	0	1	1
MISSOULA	65	38	81	33	51	-4	.2	- .1	.2	.4	44	11.8	127	92	42	0	0	2	0
NE GRAND ISLAND	62	48	70	39	55	-9	.9	.3	.3	2.1	111	30.4	155	92	66	0	0	4	0
LINCOLN	66	53	82	44	59	-6	1.3	.6	.6	2.8	127	31.3	139	88	69	0	0	4	1
NORFOLK	63	48	71	39	56	-7	.3	- .2	.2	1.4	78	21.4	106	96	64	0	0	5	0
NORTH PLATTE	64	45	74	34	55	-8	.7	.2	.3	.8	53	15.1	91	92	55	0	0	5	0
OMAHA	65	51	81	43	58	-6	1.6	.9	.8	2.9	121	27.4	114	96	77	0	0	4	1
SCOTTSBLUFF	65	46	79	42	55	-6	.8	.6	.4	1.3	217	18.8	158	83	46	0	0	4	0
VALENTINE	63	43	75	37	53	-8	.4	.1	.2	2.0	182	20.1	134	72	47	0	0	4	0
NV ELY	63	33	72	28	48	-9	.7	.6	.4	.9	300	8.9	141	95	45	0	3	6	0
LAS VEGAS	84	61	88	55	73	-8	T	- .1	T	.1	33	2.7	87	54	23	0	0	0	0
RENO	63	39	74	32	51	-9	1.1	1.0	.6	1.1	1100	5.4	113	89	43	0	1	4	1
WINNEMUCCA	67	40	73	33	53	-6	.4	.3	.1	.4	133	5.1	86	80	32	0	0	5	0
NH CONCORD	74	51	86	35	63	3	T	- .7	T	.6	27	28.2	115	92	53	0	0	1	0
NJ ATLANTIC CITY	79	54	86	45	67	-1	0	- .7	0	.6	25	24.1	75	99	55	0	0	0	0
NM ALBUQUERQUE	77	53	86	46	65	-5	.7	.5	.5	.9	150	5.3	87	86	38	0	0	5	0
CLOVIS	81	58	89	55	70	0	T	- .4	T	0	0	12.2	--	75	33	0	0	0	0
ROSWELL	83	59	90	58	71	1	2.0	1.7	2.0	2.0	222	6.4	69	73	35	1	0	1	1
NY ALBANY	75	51	87	40	63	1	.2	- .6	.1	.3	14	24.9	109	99	54	0	0	2	0
BINGHAMTON	75	54	83	47	64	4	T	- .7	T	.4	19	26.5	101	87	52	0	0	1	0
BUFFALO	75	57	89	45	66	4	.9	.1	.6	2.0	83	27.6	114	93	53	0	0	2	1
NEW YORK	77	63	86	56	70	1	T	- .7	T	.3	13	26.4	91	89	52	0	0	0	0
ROCHESTER	76	57	89	46	67	4	1.2	.6	1.1	1.8	100	22.2	100	86	51	0	0	3	1
SYRACUSE	74	53	87	45	64	1	.8	.2	.5	1.3	68	24.4	97	98	58	0	0	3	1
NC ASHEVILLE	80	59	84	51	70	3	.6	- .2	.6	1.3	50	38.6	116	100	63	0	0	1	1
CHARLOTTE	85	67	89	62	76	4	.1	- .7	.1	.4	15	30.4	98	93	54	0	0	1	0
GREENSBORO	85	63	90	59	74	4	.2	- .7	.2	.3	11	33.4	110	95	48	1	0	1	0
HATTERAS	81	65	84	58	73	-1	T	- 1.3	T	1.0	24	36.1	93	98	70	0	0	1	0
NEW BERN	85	64	88	60	74	0	T	- 1.3	T	0	0	30.9	73	93	54	0	0	1	0
RALEIGH	88	65	91	62	76	5	T	- .9	T	0	0	32.5	102	93	44	4	0	1	0
WILMINGTON	85	67	87	63	76	1	T	- 1.4	T	2.6	59	42.5	102	93	54	0	0	2	0
ND BISMARCK	63	39	76	27	51	-6	T	- .3	T	.4	40	12.4	93	92	41	0	2	1	0
FARGO	60	41	75	36	51	-7	.7	.3	.3	1.0	67	11.5	70	99	61	0	0	4	0
GRAND FORKS	60	39	78	36	49	-8	.6	.2	.4	.6	43	14.1	92	98	59	0	0	2	0
WILLISTON	67	35	80	26	51	-6	0	- .3	0	.9	90	11.9	97	86	35	0	1	0	0
OH AKRON-CANTON	76	57	87	43	67	3	.6	- .1	.5	1.5	75	24.0	92	86	50	0	0	2	1
CINCINNATI	81	64	89	55	73	5	.3	- .3	.3	1.1	61	34.3	117	85	47	0	0	1	0
CLEVELAND	78	58	90	44	68	4	.8	.2	.5	1.6	84	23.6	93	94	52	1	0	2	1
COLUMBUS	79	57	87	47	68	3	1.2	.6	1.2	3.3	183	29.1	102	94	52	0	0	1	1

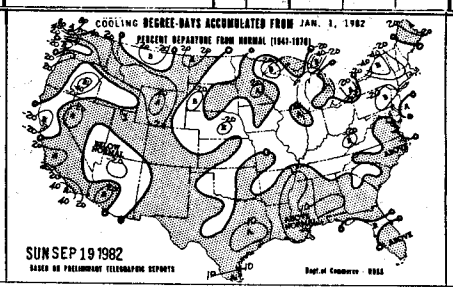
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

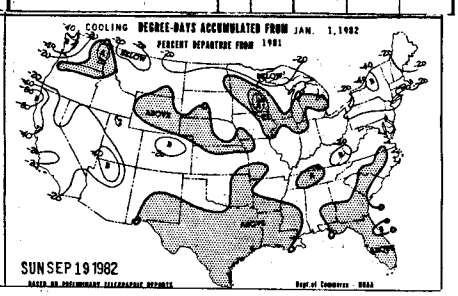
COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING SEP. 19, 1982.

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

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1981
ALA. BIRMINGHAM	104	40	1811	36	96
MOBILE	117	29	2319	38	65
MONTGOMERY	123	45	2239	218	29
ARIZ. FLAGSTAFF	14	14	104	36	153
PHOENIX	125	48	3683	67	488
TUCSON	74	34	2300	167	407
WINSLOW	19	15	1000	132	244
YUMA	121	35	3608	37	535
ARK. FORT SMITH	71	9	1715	156	5
LITTLE ROCK	81	23	1920	123	40
CALIF. BAKERSFIELD	71	11	2493	537	117
EUREKA	0	0	0	0	0
FRESNO	38	25	1607	78	674
LOS ANGELES	36	6	517	45	303
RED BLUFF	23	51	1514	220	643
SAN DIEGO	47	8	833	251	421
SAN FRANCISCO	1	12	50	37	48
STOCKTON	20	32	1101	55	579
COLO. DENVER	0	11	612	1	260
GRAND JUNCTION	15	13	1232	130	108
PUEBLO	2	16	993	25	211
CONN. BRIDGEPORT	14	5	536	176	135
HARTFORD	16	9	611	31	139
DEL. WILMINGTON	38	12	1009	56	50
D.C. WASHINGTON	64	24	1386	43	241
FLA. APALACHICOLA	117	21	2217	59	42
DAYTONA BEACH	99	4	2331	37	34
FORT MYERS	121	2	3417	516	171
JACKSONVILLE	112	18	2444	326	85
KEY WEST	126	1	3983	529	80
LAKELAND	115	1	2606	261	25
MIAMI	133	14	3558	514	347
ORLANDO	120	13	2864	295	162
TALLAHASSEE	117	23	2227	26	134
TAMPA	120	22	2516	29	140
WEST PALM BEACH	122	4	3326	427	304
GA. ATLANTA	88	36	1615	140	271
AUGUSTA	96	31	1858	19	65
MACON	108	32	2089	3	0
SAVANNAH	110	31	2188	111	72
IDAHO. BOISE	2	13	610	86	46
LEWISTON	18	3	835	192	42
POCATELLO	0	4	397	49	72
ILL. CAIRO	41	9	1645	49	51
CHICAGO	20	13	688	47	10
MOLINE	19	6	812	54	60
PEORIA	20	3	891	44	60
ROCKFORD	17	2	743	45	77
SPRINGFIELD	26	2	1046	24	101
IND. EVANSVILLE	45	10	1269	40	75
FORT WAYNE	24	10	665	59	55
INDIANAPOLIS	26	8	716	20	44
SOUTH BEND	20	7	660	16	30
IOWA. BURLINGTON	21	4	899	61	53
DES MOINES	5	10	921	22	57
DUBUQUE	8	1	586	11	42
SIOUX CITY	0	11	809	103	38
KANS. CONCORDIA	0	31	1285	39	121
DODGE CITY	14	20	1431	81	188
GOODLAND	1	17	799	102	23
TOPEKA	13	19	1113	194	120
WICHITA	28	17	1532	53	115
KY. LEXINGTON	37	4	1034	114	10
LOUISVILLE	44	8	1116	97	270
LA. BATON ROUGE	126	38	2689	401	335
LAKE CHARLES	118	23	2401	13	91
NEW ORLEANS	119	25	2618	264	7
SHREVEPORT	120	33	2345	77	304
MAINE. CARIBOU	9	9	164	36	11
PORTLAND	2	2	250	25	27
MD. BALTIMORE	37	7	1028	37	158
MASS. BOSTON	3	10	625	25	216
MICH. ALPENA	12	12	216	5	24
DETROIT	24	14	528	107	64
FLINT	17	10	486	54	33
GRAND RAPIDS	18	11	591	24	26
HOUGHTON LAKE	10	10	246	2	1
LANSING	24	17	531	1	1
MARQUETTE	0	0	136	1	3
MUSKEGON	15	8	450	1	23
S. STE. MARIE	4	4	61	7	13
MINN. DULUTH	0	0	113	63	42
INTERNATL FALLS	0	0	180	44	100
MINNEAPOLIS	0	0	706	123	221
ROCHESTER	0	0	545	78	161
ST. CLOUD	0	0	423	37	78
MISS. JACKSON	114	37	2323	219	98
MERIDIAN	117	45	2244	210	29
MO. COLUMBIA	22	9	1029	189	142
KANSAS CITY	15	16	1140	76	68
ST. LOUIS	28	10	1288	116	56
SPRINGFIELD	28	15	1418	113	80
MONT. BILLINGS	0	7	669	175	46
GLASGOW	0	6	440	21	124
GREAT FALLS	0	7	216	113	106
HAVRE	0	7	295	100	49
HELENA	0	5	354	98	49
KALISPELL	0	0	105	12	64
MILES CITY	0	11	741	66	52
MISSOULA	0	3	194	66	32
NEBR. GRAND ISLAND	0	18	807	204	118
LINCOLN	0	21	1056	60	40
NORFOLK	0	12	768	136	120
NORTH PLATTE	0	11	718	88	71
OMAHA	0	23	945	188	39
VALENTINE	0	8	788	59	49
NEV. ELY	0	4	204	3	120
LAS VEGAS	61	46	2568	118	663
RENO	0	7	422	91	80
WINNEMUCCA	0	7	469	63	143
N.H. CONCORD	12	10	313	36	86
N.J. ATLANTIC CITY	17	5	890	45	80
TRENTON	34	11	882	53	104
N. MEX. ALBUQUERQUE	11	25	1305	27	72
ROSWELL	45	6	1724	233	209
N.Y. ALBANY	11	3	344	224	109
BINGHAMTON	12	5	307	60	93
BUFFALO	24	17	385	47	160
NEW YORK	35	2	834	177	350
ROCHESTER	14	12	447	76	112
SYRACUSE	16	4	319	221	350
N.C. ASHEVILLE	35	13	895	60	52
CHARLOTTE	75	24	1503	9	20
GREENSBORO	61	23	1226	57	121
HATTERAS	56	6	1447	58	86
RALEIGH	76	35	1506	188	17
WILMINGTON	77	8	1621	168	90
N. DAK. BISMARCK	0	5	397	90	44
FARGO	0	2	440	33	9
WILLISTON	0	5	532	110	188
OHIO. AKRON-CANTON	26	12	613	4	66
CINCINNATI	45	16	943	92	68
CLEVELAND	31	17	633	30	28
COLUMBUS	31	9	696	30	22
DAYTON	30	7	778	122	112
TOLEDO	22	8	613	54	11
YOUNGSTOWN	23	13	434	75	170
OKLA. OKLAHOMA CITY	59	2	1750	7	56
TULSA	65	6	2144	340	169
OREG. ASTORIA	0	0	11	3	31
BURNS	0	6	158	133	57
MEDFORD	1	14	647	90	123
PENDLETON	0	12	647	3	60
PORTLAND	0	5	504	101	52
SALEM	0	7	284	44	18
PA. ALLENTOWN	20	4	584	166	224
ERIE	5	18	478	110	89
HARRISBURG	3	7	760	233	154
PHILADELPHIA	3	7	992	76	62
PITTSBURGH	5	20	555	73	75
SCRANTON	15	4	436	154	194
R.I. PROVIDENCE	19	11	564	39	185
S.C. CHARLESTON	97	25	1960	82	220
COLUMBIA	64	5	1811	108	17
GREENVILLE	72	25	1363	117	224
S. DAK. ABERDEEN	0	3	667	101	98
HURON	0	9	719	78	162
RAPID CITY	0	9	450	191	154
SIOUX FALLS	0	7	634	78	179
TENN. CHATTANOOGA	80	31	1497	40	106
KNOXVILLE	79	32	1355	112	250
MEMPHIS	77	16	2200	321	44
NASHVILLE	64	15	1488	102	3
TEXAS. ABILENE	95	18	2341	98	20
AMARILLO	100	6	1330	29	118
AUSTIN	89	46	2519	354	275
BEAUMONT	94	26	2648	120	107
BROWNSVILLE	94	24	3674	510	408
CORPUS CHRISTI	96	24	2998	78	210
DEL RIO	92	16	2990	158	383
EL PASO	79	15	2173	209	36
FORT WORTH	111	23	2445	118	171
GALVESTON	87	31	2645	131	54
HOUSTON	92	32	2822	319	125
LUBBOCK	93	12	1658	92	2
MIDLAND	88	16	2108	55	168
SAN ANGELO	98	18	2155	293	263
SAN ANTONIO	98	18	2714	67	84
VICTORIA	93	27	2564	272	329
WACO	96	40	2747	202	305
WICHITA FALLS	76	7	2158	229	133
UTAH SALT LAKE CITY	3	19	1028	130	126
VT. BURLINGTON	20	17	352	44	130
VA. LYNCHBURG	69	40	1062	7	86
NORFOLK	48	1	1308	53	203
RICHMOND	105	70	1388	89	73
ROANOKE	45	18	955	36	102
WASH. QUILLAYUTE	0	0	16	8	30
SEATTLE-TACOMA	1	1	133	24	41
SPOKANE	4	4	485	96	121
WALLA WALLA	12	7	1009	169	116
YAKIMA	4	3	467	8	74
W. VA. BECKLEY	17	6	393	80	82
CHARLESTON	34	7	928	91	172
HUNTINGTON	27	2	758	30	34
PARKERSBURG	45	19	1031	33	64
WIS. GREEN BAY	4	4	352	34	28
LACROSSE	6	1	720	36	37
MADISON	10	10	399	55	86
MILWAUKEE	7	5	401	43	63
WYO. CASPER	0	7	548	95	42
CHEYENNE	0	5	297	30	4
LANDER	0	7	553	170	58
SHERIDAN	0	7	539	64	74







Heating Degree Days (Base 65° F.)

August 1982

ALA.Birmingham	0	MAINE,Caribou	199	OKLA.Okla. City	0
Mobile	0	Portland	78	Tulsa	0
Montgomery	0	MD.Baltimore	5	OREG.Astoria	112
ALASKA,Anchorage	313	MASS.Boston	19	Burns U.	76
Barrow	-	Chatham	-	Medford	8
Fairbanks	252	MICH.Alpena	145	Pendleton	7
Juneau	-	Detroit	39	Portland	10
Nome	367	Flint	58	Salem	27
ARIZ.Flagstaff	22	Grand Rapids	34	PA.Allentown	28
Phoenix	0	Houghton Lake	139	Erie	47
Tucson	0	Lansing	62	Harrisburg	12
Winslow	0	Marquette U	190	Philadelphia	8
Yuma	0	S. Ste. Marie	228	Pittsburgh	23
ARK.Fort Smith	0	MINN.Duluth	161	Scranton	55
Little Rock	0	Internatl Falls	161	R.I.Providence	26
CALIF.Bakersfield	0	Minneapolis	14	S.C.Charleston	0
Eureka U.	158	Rochester	48	Columbia	0
Fresno	0	St. Cloud	63	Greenville	0
Los Angeles U	0	MISS.Jackson	0	S.DAK.Aberdeen	-
Red Bluff	0	Meridian	0	Huron	19
Stockton	0			Rapid City	21
San Diego	0	MO.Columbia	3	Sioux Falls	28
San Francisco	63	Kansas City	2	TENN.Chattanooga	0
COLO.Denver	0	St. Louis	0	Knoxville	0
Grand Junction	0	Springfield	0	Memphis	0
Pueblo	-	MONT.Billings	0	Nashville	0
CONN.Bridgeport	19	Glasgow	39	TEX.Abilene	0
Hartford	30	Great Falls	66	Amarillo	0
D.C.Washington	2	Havre	38	Austin	0
FLA.Apalachicola	0	Helena	16	Beaumont	0
Ft. Myers	0	Kalispell	88	Brownsville	0
Jacksonville	0	Miles City	-	Corpus Christi	0
Key West	0	Missoula	48	Dallas	-
Lakeland U.	-	NEBR.Grand Island	12	Del Rio	0
Miami	0	Lincoln	3	El Paso	0
Orlando	0	Norfolk	10	Fort Worth	0
W. Palm Beach	0	North Platte	18	Galveston U.	0
Tallahassee	0	Omaha	12	Houston	0
Tampa	0	Valentine	16	Lubbock	0
GA.Atlanta	0	NEV.Ely	3	Midland	0
Augusta	0	Las Vegas	0	San Angelo	0
Macon	0	Reno	11	San Antonio	0
Savannah	0	Winnemucca	8	Victoria	0
IDAHO,Boise	2	N.H.Concord	66	Waco	0
Lewiston	0	N.J.Atlantic City	14	Wichita Falls	0
Pocatello	3	Trenton U	-	UTAH,Milford	0
ILL.Cairo U.	0	N.MEX.Albuquerque	0	Salt Lake City	0
Chicago	37	Roswell	-	VT.Burlington	54
Moline	14	N.Y.Albany	65	VA.Lynchburg	1
Peoria	13	Binghamton	72	Norfolk	4
Rockford	32	Buffalo	65	Richmond	6
Springfield	5	New York	6	Roanoke	6
IND.Evansville	0	Rochester	54	WASH.Colville	-
Fort Wayne	17	Syracuse	57	Omak	-
Indianapolis	2	N.C.Asheville	0	Quillayute	170
South Bend	30	Charlotte	0	Seattle-Tacoma	42
IOWA,Burlington	-	Greensboro	0	Spokane	17
Des Moines	6	Hatteras R.	0	Walla Walla U.	0
Dubuque	-	Raleigh	0	Yakima	30
Sioux City	17	Wilmington	0	W.VA.Beckley	23
KANS.Concordia	1	N.DAK.Bismarck	73	Charleston	2
Dodge City	0	Fargo	66	Huntington	8
Goodland	12	Williston U	46	Parkersburg U.	-
Topeka	0	OHIO.Akron-Canton	32	WIS.Green Bay	75
Wichita	0	Cincinnati U.	1	Madison	66
KY.Lexington	1	Cleveland	42	Milwaukee	44
Louisville	1	Columbus	19	WYO.Casper	0
LA.Baton Rouge	0	Dayton	9	Cheyenne	7
Lake Charles	0	Toledo	47	Lander	0
New Orleans	0	Youngstown	65	Sheridan	2
Shreveport	0				

National Agricultural Summary

September 13-19

HIGHLIGHTS: Cool weather in the western Corn Belt and in northern areas further delayed maturity of row crops. Rain was beneficial to newly seeded winter wheat on the Great Plains, but heavier amounts caused localized flooding in Missouri. More moisture is needed, especially in the southern Great Plains, for good emergence of winter wheat. Farmers had 4 to 7 days suitable for fieldwork in most regions of the Nation except in most of the West North Central States where cool, wet weather limited the number of days suitable to less than 3. Soil moisture supplies were adequate to surplus in much of the West North Central region and in Kentucky. Supplies were dwindling in parts of the Southeast. Elsewhere soil moisture was short to adequate. Winter wheat seeding advanced to 18%, 9 points behind average. Spring wheat harvest neared completion. Sorghum harvest advanced northward in Kansas, and reached 26% in the 7 major States. Corn harvesting started in the Corn Belt and continued very active across the South. In the 17 major States, 6% of the acreage had been harvested. Cotton harvest was on schedule, reaching 10% completion. Soybean harvest was underway on a limited basis. Tobacco topping and harvesting continued active. Rice was 47% harvested. Fall vegetable harvest became more widespread. Peach harvest neared completion as apple picking gained momentum. Recent rainfall improved pastures, but more is needed. Livestock were in fair to good condition as movement from summer grazing increased.

SMALL GRAINS: Spring wheat was 94% harvested in the 5 major producing States, lagging last year's 99% but ahead of the average of 93%. Progress was behind normal in Minnesota and Montana and ahead of average in Idaho and North Dakota. Combining was finished in South Dakota.

The 1983 winter wheat crop was 18% seeded in the 15 major producing States, behind last year's 25% and the average of 27%. Seeding was underway in all States except California and Illinois. Scattered showers in Texas brought relief from the prolonged dry spell, but the moisture was not sufficient for most small grain planting. Armyworms damaged some newly emerged fields in East Texas.

CORN: Corn continued in good to excellent condition in parts of the Corn Belt and Southeast and fair to mostly good condition in other regions. Cool weather further delayed maturity of row crops in the Western Corn Belt and of northern areas. In the 17 major producing States, 84% of the corn was dented, 48% was mature, and 6% had been harvested. Harvesting was underway in all States except Colorado, Minnesota, Pennsylvania, South Dakota, and Wisconsin. Harvest was just started in the Corn Belt but was well advanced across the South. Progress in North Carolina reached 56%, and in Georgia, 82% of the acreage was harvested.

SOYBEANS: Soybeans were in good to excellent condition in Iowa and mostly good condition in other States. Dry weather in the Southeast caused some stress to the crop. In northern areas, cool weather slowed development of the crop. Warm, sunny weather is needed to mature the soybeans before a frost. In the 18 major producing States, 34% of the crop was dropping leaves, slightly behind average. Development was generally ahead of normal in the eastern Corn Belt but lagging in the western region and in Northern States. Harvesting was underway on a limited basis. Progress ranged from just starting in Virginia, Kentucky, Louisiana, and Mississippi to 5% complete in Illinois and Indiana and 10% complete in Ohio.

COTTON: Cotton was in fair to mostly good condition. In the 14 major producing States, bolls were opening on 49% of the acreage, 2 points ahead of average. Harvest was 10% complete, about equal to average. Picking was active in all States except California, New Mexico, North Carolina, and Oklahoma. Progress ranged up to 17% complete in Texas. Cooler weather slowed maturity in the Texas Panhandle where bolls continue to open prematurely. Stalk destruction was complete in the Coastal Bend area, but a few fields remain in the Lower Valley.

OTHER CROPS: Sorghum was in fair to mostly good condition. In the 7 major producing States, 35% of the acreage was mature, and 26% had been harvested. Development was behind average in all States except Missouri. In Nebraska, only 1% was mature, 39 points behind average, and in Kansas 10% was mature, 20 points behind average. Harvest was underway in Kansas, Missouri, Oklahoma, and Texas. Harvesting operations made good progress across the Low Plains of Texas and should be underway in the Panhandle shortly.

Rice harvest was complete in Texas and underway in all other States. In the 5 major States, harvesting was 47% finished, only 1 point behind average.

Peanuts were in mostly good condition. Harvesting began in Virginia and was 33% complete in Georgia, 30% in Mississippi, 24% in Oklahoma, and 14% complete in Texas.

Tobacco topping and harvesting remained active in producing areas. Stalk destruction was underway as fields were picked.

VEGETABLES: Fall vegetable harvests gained momentum in northern areas. Summer crop harvesting neared completion. Maine potatoes were 13% harvested. Potato digging in Idaho was only 4% finished, slightly behind average. Land preparation and planting for the winter quarter harvest continued very active in Florida. A wide variety of crops continued to be harvested in California. Warm weather and lack of moisture stressed many vegetables in Texas. Recent rains provided good moisture for fall planting in East Texas.

FRUITS AND NUTS: Fall apple harvests gained momentum, as peach picking neared completion. In the Northwest, plum and prune harvests were in full swing but neared completion in California. Wine grape harvest in California remained active. Raisin grapes were 90% on the ground. Turning and rolling of trays was very active. Damp weather caused concern about quality. Almonds were harvested in California, and filberts were dropping in Oregon. Good quality lemons were picked in the Desert area, but sizes were small. Florida's citrus groves were in excellent condition. The 1982-83 harvest of early fresh fruit continues to increase. Irrigation was needed in citrus groves in Texas to combat dry conditions.

(continued on back page)

CROP PROGRESS

FOR WEEK ENDING SEPT 19

CORN
% DENT

	1982	1981	AVG.
COLO	65	66	74
GA	100	100	100
ILL	99	92	98
IND	100	75	97
IOWA	73	95	95
KANS	85	90	90
KY	100	100	98
MICH	90	95	85
MINN	90	95	91
MO	91	94	92
NEBR	60	85	90
N C	98	100	100
OHIO	100	80	90
PA	73	87	78
S DAK	75	81	84
VA	96	96	NA
WIS	53	75	82
17 STATES	84	89	NA
EXCL. STATES WITH NA	83	89	92

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

NA - NOT AVAILABLE

CORN
% MATURE

	1982	1981	AVG.
COLO	13	19	28
GA	99	99	NA
ILL	85	55	79
IND	75	20	60
IOWA	22	55	66
KANS	40	55	60
KY	75	70	62
MICH	65	60	35
MINN	23	31	49
MO	52	60	57
NEBR	5	25	45
N C	97	97	94
OHIO	85	35	50
PA	17	32	21
S DAK	48	41	66
VA	88	90	NA
WIS	30	52	69
17 STATES	48	47	NA
EXCL. STATES WITH NA	46	45	60

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

NA - NOT AVAILABLE

CORN
% HARVESTED

	1982	1981	AVG.
COLO	0	0	0
GA	82	86	72
ILL	4	3	5
IND	4	0	0
IOWA	1	2	3
KANS	4	10	15
KY	12	14	14
MICH	1	1	0
MINN	0	0	2
MO	11	14	19
NEBR	0	0	0
N C	56	56	51
OHIO	5	0	0
PA	0	0	0
S DAK	0	0	0
VA	25	28	28
WIS	0	0	NA
17 STATES	6	5	NA
EXCL. STATES WITH NA	6	6	6

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

NA - NOT AVAILABLE

SOYBEANS
% DROPPING LEAVES

	1982	1981	AVG.
ALA	19	19	NA
ARK	10	7	23
GA	23	15	NA
ILL	60	34	51
IND	70	15	50
IOWA	19	56	57
KANS	15	30	NA
KY	30	14	27
LA	25	26	NA
MICH	60	50	40
MINN	38	51	65
MISS	28	45	45
MO	26	24	35
NEBR	7	40	40
N C	0	4	0
OHIO	80	30	45
S C	8	4	9
TENN	13	8	16
18 STATES	34	30	NA
EXCL. STATES WITH NA	36	31	42

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

NA - NOT AVAILABLE

COTTON
% HARVESTED

	1982	1981	AVG.
ALA	2	4	NA
ARIZ	1	6	4
ARK	14	5	6
CALIF	0	0	0
GA	5	13	12
LA	6	10	NA
MISS	4	7	5
MO	6	1	9
N MEX	0	0	0
N C	0	4	2
OKLA	0	0	0
S C	2	2	6
TENN	3	1	5
TEX	17	12	16
14 STATES	10	8	NA
EXCL. STATES WITH NA	11	8	10

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

NA - NOT AVAILABLE

COTTON
% BOLLS OPENING

	1982	1981	AVG.
ALA	66	62	45
ARIZ	70	85	79
ARK	84	69	55
CALIF	50	75	53
GA	54	73	66
LA	91	87	60
MISS	96	92	81
MO	100	58	58
N MEX	50	50	45
N C	82	91	79
OKLA	10	30	25
S C	65	72	80
TENN	64	35	37
TEX	31	38	37
14 STATES	49	54	47

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

WINTER WHEAT
% PLANTED

	1982	1981	AVG.
CALIF	0	0	0
COLO	44	40	65
IDAHO	18	18	17
ILL	0	3	3
IND	6	3	3
KANS	15	20	20
MO	5	3	6
MONT	30	20	50
NEBR	30	65	60
OHIO	5	0	5
OKLA	5	25	20
OREG	12	10	11
S DAK	54	73	74
TEX	21	25	31
WASH	40	43	34
15 STATES	18	25	27

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

SPRING WHEAT
% HARVESTED

	1982	1981	AVG.
IDAHO	90	99	87
MINN	95	99	96
MONT	85	95	90
N D	95	100	91
S DAK	100	100	100
5 STATES	94	99	93

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.

RICE
% HARVESTED

	1982	1981	AVG.
ARK	27	40	27
CALIF	1	5	5
LA	85	91	86
MISS	30	41	39
TEX	100	100	100
5 STATES	47	54	48

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

SORGHUM
% MATURE

	1982	1981	AVG.
COLO	11	13	12
KANS	10	15	30
MO	60	54	54
NEBR	1	15	40
OKLA	40	60	50
S DAK	28	39	39
TEX	71	73	74
7 STATES	35	41	49

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

SORGHUM
% HARVESTED

	1982	1981	AVG.
COLO	0	0	0
KANS	2	2	10
MO	21	15	16
NEBR	0	0	0
OKLA	10	15	5
S DAK	0	1	1
TEX	68	71	70
7 STATES	26	26	28

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

SORGHUM
% COLORING

	1982	1981	AVG.
COLO	63	61	72
KANS	45	65	75
MO	75	70	70
NEBR	50	85	90
OKLA	NA	NA	NA
S DAK	70	85	84
TEX	86	91	89
7 STATES	NA	NA	NA
EXCL. STATES WITH NA	65	79	82

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

NA - NOT AVAILABLE

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures averaged 5° above normal with varied rainfall.

Soil moisture ranged from short central to adequate north and south. Fieldwork: 5.3 days. Peanuts: Dug 36%, 28% 1981, 26% average; combined 24%, 19% 1981, 17% average. Corn harvested 75%, 75% 1981, 54% average. Soybeans: Leaves turning yellow 44%, 40% 1981, 45% average; dropping leaves 19%, 19% 1981. Cotton: Bolls open 66%, 62% 1981, 45% average; harvested 2%, 4% 1981. Sorghum harvested 46%, 31% 1981. Conditions: Corn, cotton, peanuts, sorghum, livestock good; soybeans, pastures fair to good.

ALASKA: Rainy and warmer weather across interior valleys. Temperatures were generally 5 to 7° and 10 to 14° warmer than normal during the day and night respectively. Precipitation was light across northern valleys with heavier amounts from 1.00 to 2.00 in. in southern valleys reported. Seasonal rainfall totals remain generally 1.00 in. or less wetter than normal.

Strong gusty winds throughout Railbelt caused light to severe damage to crops and buildings. Fieldwork varied from very little in Matanuska Valley where it continued to rain every day to over three days in the Tanana Valley which allowed farmers a chance to harvest grain, bale hay and straw and dig potatoes. Barley combining progressed to 30% complete, doubling previous week and compares with third of harvest completed a year ago. Moisture content harvested grain ranges 17 to 25%. Warm days and sunshine needed in most areas to finish out crop development. Potato digging made good progress. Soil moisture supplies mostly adequate in Tanana Valley, mostly surplus elsewhere.

ARIZONA: Partly cloudy, cool weather dominated pattern past week. Precipitation confined to eastern two-thirds of the State at beginning of the week, again the end of week. Amounts mostly under 0.20 in. Average temperatures 3 to 7° below normal.

Open bolls present 70% cotton acreage planted, behind last year's 85%, average 79%. Defoliation, first picking early planted cotton underway Yuma County. Harvest 1% complete, last year 6%, average 4%. Growers increased insect controls, whiteflies, pink bollworm, boll weevils. Boll rot continued problem most cotton fields, percent humidity contributing to problem. Some rain, slight hail damage to cotton, Pima County. Sorghum crop turning color Mohave, Santa Cruz counties, developing well other parts State. Harvest corn for grain approached peak Santa Cruz County, made normal progress other southeastern counties. Baling alfalfa seasonally active, insect controls being applied Yuma County. Rains slowed vegetable activities, caused problems. Some lettuce lost Pima County area due to rain damage. Elsewhere lettuce made good progress. Cooler weather favorable to lettuce, cauliflower germination. Planting activities continued fall vegetables such as spinach, turnip greens, broccoli, other mixed vegetables. Replanting occurred some fall vegetables Yuma area because inadequate stands. Fall melons made seasonal progress Yuma, Mohave counties although some whitefly problems still existed Mohave County. Apple, watermelon harvest active southeastern areas. Pumpkin harvest expected begin this week. Lemon ring picking continued Yuma County, just underway Maricopa County. Citrus groves remained mostly good condition. Ranges Yuma area very poor, little soil moisture. Soil moisture, range conditions other parts State showed improvement due to rains. Northeastern areas reported surplus stock water supplies, Desert areas short to adequate supplies, remainder State adequate. Livestock continued fair to good condition. Some roundup activities underway Mohave County.

ARKANSAS: Slightly above normal temperatures. Rainfall most stations. Highest temperature 96°, lowest 50°. Most rainfall 3.90 in., least zero. All normal ranged from -1 to +4°.

Six days suitable for fieldwork. Soil moisture short. Crop growth moderate to slow. Soybean condition good. Virtually all fields setting pods, same as 1981 and average; turning yellow 22%, 16% 1981, 31% average; shedding 10%, 7% 1981, 23% average, mature 8%, 5% 1981, 9% average. Rice good condition; ripe 71%, 77% 1981, 72% average; harvested 27%, 40% 1981, 27% average. Cotton good condition; open bolls 84%, 69% 1981, 55% average; harvest 14%, 5% 1981, 6% average. Corn good condition, harvested 84%, 79% 1981, 54% average. Sorghum good condition, harvested 70%, 71% 1981, 57% average. Wheat good condition, planted 7%, 6% 1981, 6% average. Pastures average. Cattle good condition.

CALIFORNIA: A cold winter-like storm moved over the northern half of the State. Late in the week it tapped moisture from the tropical Pacific Ocean that had been sprinkling the South Coast. Rain showers, and thunderstorms with hail, developed over the north State. Heavy rains deluged local areas. At the Sierra crest snow covered both major highways briefly. Temperatures were much below normal except for a few South Coast localities. The southeast Desert interior was the coolest area and reported no temperatures 100° or warmer.

Harvest delayed by rain some areas. Broccoli harvest moderate. Brussles sprouts harvest started. Cantaloups slowing seasonally. Carrots moderate supply. Cauliflower harvest fairly heavy, heavy diversion to processors. Harvest celery, lettuce moderate Central Coast. Light digging fall potatoes Tulelake. Sweetpotato harvest slow. Processing tomato harvest delayed by rain. Increased losses from mold, splitting. Need cool, dry weather to avoid heavy losses Sacramento, northern San Joaquin Valleys. Harvest 75% complete. Scattered rains and cooler temperatures slowed development. Rice harvest underway. Cotton maturity variable - 50% open. Irrigation winding down. Verticillium wilt problem in western San Joaquin Valley. Cutting and windrowing of dry beans continues. Silage being cut, some field corn harvested. Yields good, alfalfa quality affected by rain. Safflower harvest nearly complete. Sugarbeet harvest active, picking up Sacramento Valley. Golden, Red Delicious apples picked Sebastopol, Watsonville. Hass avocado harvest active. Raisin grapes 90% on ground; turning, rolling trays active. Wine grapes harvest active; North Coast rain - some bunch rot. Thompson table grape harvest near completion; Emperors beginning. Cling peach harvest complete. Freestone peach, nectarine, plum, prune harvests near completion. Desert lemons picked--small size, good quality. Almond harvest active. Feed remain good. Cattle moved winter ranges. Livestock good condition. Calving underway. Water supplies adequate.

COLORADO: Widespread rain on 13th and 14th. Around 4.00 in. precipitation in Loveland area, with 0.50 to 1.50 in. rain common over much of the

State. Lighter precipitation remainder of week. Precipitation averaged from 1.00 in. in San Luis Valley and eastern Colorado to 1.50 in. at higher elevations. Temperatures cooler than normal over entire State; 2 to 5° below normal southern areas, 5 to 8° below normal northern half of State.

Rain once again delayed grain and hay harvest. Row crop prospects good. Winter wheat: 44% seeded, 22% emerged; last year, 40% seeded, 13% emerged; average 65% seeded, 28% emerged. Dry beans: Suffer from vine rot, 52% cut, 25% threshed; last year 54% cut and 21% threshed. Corn a little late; 92% in dough, 64% dented, 13% mature, in 1981 90% in dough, 66% dented, and 19% mature, average 22% mature. Corn silage 32% harvested. Sorghum 63% turning, 11% mature, last year 61% turning, 13% mature. Alfalfa second cutting 89% complete, third cutting 52%. Top and subsoil moisture adequate to surplus. Two and one-half days suitable for fieldwork. Livestock in good condition.

FLORIDA: For the most part conditions were a little drier, slightly warmer than normal for late summer. Rainfall generally 0.50 in. or less in widely scattered, mainly afternoon, evening thundershowers with only isolated heavier amounts. Temperatures averaged about 2° above normal.

Soil moisture mostly adequate, a few wet spots, Panhandle, some scattered dry spots, Peninsula. Peanut harvest active but delayed by rain some areas. Leafspot, nematodes a serious problem. Soybeans fair condition, dry weather late August caused plants to drop blooms, hurting yield prospects. Cotton good condition, maturing. Tobacco marketing about complete. Sugarcane good to excellent condition, cutting cane for seed increasing. Soil moisture mostly adequate to surplus. Pasture condition mostly good to excellent with a few areas poor to fair. Cattle good condition. Citrus groves excellent condition. Moisture generally adequate with a little irrigation. The 1982-83 harvest of early fresh fruit continues to increase. Clear to partly cloudy skies, hot days, warm nights prevailed in vegetable areas. Rainfall limited to light, scattered showers. Seeding, other fieldwork picked up as fields dried. Irrigation underway in drier locations. Land preparation continues active. Laying plastic for October planting of strawberries underway in Hillsborough-Manatee area. Plantings of most fall vegetables continue active or increasing. Potato plantings underway in Pompano area. Condition generally good to very good. Light harvest of squash underway.

GEORGIA: Variable and locally heavy rainfall most areas early in the week. Amounts near 1.50 in. in southeast and near 0.50 in. in the northern quarter. Other parts near 1.50 in. Average temperatures in 70's, generally 1 to 2° above normal. Dry weekend except for spotty showers. Temperatures a few degrees above normal.

Soil moisture 6% very short, 30% short, 62% adequate, 2% surplus. Five days suitable for fieldwork. Main activities were harvest and insect controls, some fall plowing. Corn 30% fair, 58% good, 10% excellent; 99% mature, equal to last year; 82% harvested, last year 86%, average 72%. Cotton 36% fair, 61% good, 3% excellent; 54% open 73% last year, 66% average; 5% harvested, last year 13%, average 12%. Peanuts 21% fair, 75% good; 57% dug; last year 32%, average 35%; 33% threshed, last year 20%, average 23%. Soybeans 38% fair, 55% good, 4% excellent; 99% setting pods, last year 97%; 23% shedding leaves, last year 15%. Apples 14% very poor, 17% poor, 46% fair, 23% good; 92% picked, last year 81%, average 77%. Pecans 3% very poor, 5% poor, 42% fair, 46% good, 4% excellent. Hay crops 32% fair, 65% good. Pastures 30% fair, 65% good, 4% excellent. Wheat 1% planted, last year 3%, average 4%. Rye 4% planted, last year 4%, average 5%. Other small grains 4% planted, last year 7%, average 6%. Hogs and cattle good.

HAWAII: Weather generally favorable. Rains light. Confined mainly to the windward crop areas. Irrigation heavy in some areas to insure fair to good crop progress. Ginger growers making final hilling for the 1983 crop. Average crop anticipated because cloudy and wet season. Vegetables: Supplies light to moderate for most commodities. Only Chinese cabbage heavy. Bananas: Supplies light. Papayas: Low supplies from most orchards. Pineapples: Harvesting down. Plantings active. Sugar: Steady harvesting. Pastures: Generally fair to good.

IDAHO: A cool, fall-like week prevailed over the State with temperatures well below normal and precipitation above normal in the north and southeast. Temperatures ranged from 4 to 10° below normal. High temperature was at Lewiston with 85° while the low was 19° at Elk City. Precipitation amounts varied with the heavies amounts recorded in southeast. Malta received 1.09 in. and Malad 0.80. To the north, Grangeville totaled 0.52 and Moscow 0.48.

Once again rain and cool weather plagued fieldwork and harvest in most areas. Small grain harvest complete except in east, one of the major growing areas. Overall, spring wheat was 90% harvested, 99% last year, 87% average. Barley was 83% harvested, 100% last year, 90% average. Potato digging, at 4%, falling behind 8% last year, 7% average. Onions 42% harvested, and curing onions were rained on. Sweet corn harvest hit 95% and dry beans were 22% combined, versus 50% in 1981. Third cutting alfalfa hay 31% complete. Apple harvest to begin shortly. Ranges mostly improved with moisture. Cattle in good condition. Winter wheat 18% planted, 18% in 1981, 17% average.

ILLINOIS: Temperatures 1 to 3° above normal as a warm trend continued for the second straight week. Readings climbed into the 80's in the north and 90's in the south early in the week before a cool trend developed in the second half of the week. Precipitation moderate in the north (0.50 to 0.80 in.) and heavy in the south (1.00 to 3.00 in.).

Corn 99% dent, 92% 1981, 98% average; 85% mature, 55% 1981, 79% average; 4% harvested, 3% 1981, 5% average. Harvest was delayed by general rainfall last week, especially in the southern half of the State. Soybeans 86% turning yellow, 65% 1981, 77% average; 60% dropping leaves, 34% 1981, 51% average; 5% harvested, 2% 1981, 5% average. Harvest was delayed by last week's rainfall, but harvest should progress this week if favorable weather received. A few fields for the 1983 winter wheat crop have been seeded, but Statewide less than 1%. This compares to 3% last year and an average of 3% also. Pastures 18% excellent, 65% good, 17% fair. Soil moisture 15% short, 67% adequate and 18% surplus. Days suitable for fieldwork: 4.8.

INDIANA: Fieldwork averaged 6 days. Topsoil and subsoil moisture short to adequate. Corn 75% mature, 1981 20%, average 60%. Corn 4% harvested, 1981 0%, average 0%. Corn moisture content 28%. Soybeans 5% combined, 1981 0%, average 2%. Soybeans 25% mature, 1981 3%, average 15%. Soybeans 75% dropping leaves, 1981 15%, average 50%. Soybeans 95% turning yellow, 1981 50%, average 85%. Wheatland 40% plowed, 1981 40%, average 45%. Wheat 6% seeded, 1981 3%, average 3%. Tobacco 70% harvested, 1981 65%, average 70%. Silos 65% filled, 1981 20%, average 50%.

IOWA: A cool week with heavy precipitation south to light and scattered showers north.

Topsoil moisture: 39% surplus, 61% adequate, none short. Subsoil moisture: 15% surplus, 85% adequate, none short. Corn in or past dough stage: 95%, last year 100%, normal 100%. Corn in or past dent stage: 73%, last year 95%, normal 95%. Corn mature: 22%, last year 55%, normal 66%. Soybeans with leaves turning: 58%, last year 87%, normal 91%. Soybeans with leaves shedding: 19%, last year 56%, normal 57%. Soybeans mature: 6%, last year 28%, normal 34%. Third crop alfalfa hay harvested: 89%, last year 97%, normal 92%. Winter wheat sown: 10%, last year 12%, normal 15%. Fieldwork: 2.7 days suitable. Crop conditions: Corn, soybeans, and pasture mostly good to excellent. Livestock in good condition.

KANSAS: The western two-thirds of State averaged 59 and 67°, 4 to 7° below normal. The eastern one-third 1 to 3° below normal at 66 to 70°. Precipitation averaged 0.79 to 1.56 in. except southwest averaged 0.29 in. Several totals 2.00 to 3.00 in. range.

Sorghum 45% coloring, 65% last year, 75% average; 10% mature, 15% last year, 30% average; 2% harvested, 2% last year, 10% average. Soybeans dropping leaves 15%, 30% last year. Corn 85% dented, 90% last year, 90% average; 40% mature, 55% last year, 60% average; 4% harvested, 10% last year, 15% average. Winter wheat 15% planted, 20% last year, 20% average. Pasture and range good except poor west central and southwest. Fieldwork: 4.0 days suitable.

KENTUCKY: Heavy rains accompanied tropical storm Chris as storm moved through Lower Ohio Valley. Rainfall amounts ranged from 0.33 in. in northeast to 5.00 in. in south central and southeast. Temperatures averaged from mid 80's to around 90's, overnight lows generally in 50's.

Days suitable for fieldwork, 4.1. Soil moisture 3% short, 62% adequate, 35% surplus. Burley tobacco harvest 82% complete, ahead of 80% last year and average. Curing hampered by wet weather. Slightly over 25% of respondents reported house-burn. Severity mostly light. Dark tobacco 80% cut. Corn 100% dented or beyond, 100% 1981, 98% average, 75% mature and beyond, 70% last year and 62% average. Crop 12% harvested, behind 14% last year and average. Soybean harvest just starting, 30% dropping leaves, mature or harvested, last year 14% and 27% average. Little wheat seeded to date. Mostly for cover crop. Pastures good to excellent.

LOUISIANA: Rainfall light north, 1.00 to 2.00 in. central and south. Temperatures 4 to 6° above normal.

Soil moisture adequate. Days suitable: 4.0. Corn harvested 90%, 91% 1981, 82% average. Rice ripe 95%, 96% 1981; harvested 85%, 91% 1981, 86% average. Cotton open bolls 91%, 87% 1981, 60% average; harvested 6%, 10% 1981, 7% average; condition fair to good. Soybeans leaves turning 55%, 53% 1981, 46% average; shedding 25%, 26% 1981, 27% average; harvested 3%, 4% 1981 and average; condition fair to good. Sorghum turning color 100%, 98% 1981, 94% average; ripe 95%, 90% 1981, 81% average; harvested 85%, 72% 1981, 56% average. Sweetpotatoes harvested 48%, 64% 1981, 50% average; condition good. Sugarcane planted 52%, 61% 1981, and 32% average; condition good. Pecans and vegetables rated fair. Last cutting of hay 66%, 60% 1981. Pastures fair to good. Cattle good condition.

MARYLAND AND DELAWARE: Warm and continued dry. Temperatures averaged 3° above normal with the only measurable precipitation reported in western Maryland.

Top and subsoil moisture were in short supply in all of Maryland and Delaware by 19th. Pastures were supplying inadequate supplies of feed in most of the two State areas and some hay was being fed to supplement grazing. Hay was supplying short to adequate amounts of roughage.

Delaware: Corn was 85% dented, 65% mature; last year 80% and 50% respectively. Corn for grain 20% harvested, 15% last year. Corn silage 80% cut; 70% last year. Soybeans podded 95% this year and last, turning color reported 60%; 20% last, leaves shed 15%; 5% last. Turning and shed leaves ahead of last year due to dry weather. Apples 85% picked, 45% last year. Barley 15% seeded, 5% last year. Rye seeded 8% 1982 and 1981. Wheat not being planted yet. Lima beans 60% harvested this year and last.

Maryland: Corn in fair to good condition; corn in dent stage 90% both years, mature stage 65%, 15 last year. Corn for grain 15% harvested this year and last. Corn silage 70% cut, 80% cut last year. Soybeans development podded 90%; turning 35%; leaves shed 25%, last year 95% podded; 30 turned; 10% with leaves shed. Tobacco 85% harvested, 95% last year. Crop in good to excellent condition. Sweetpotatoes half harvested, 10% last year. Apples 35% picked; 30% last. Fourth cutting of alfalfa 55% cut, 50% last year. Farmers waiting for rain before planting fall seed crops. Barley 15% seeded, 25% last year. Rye 5% seeded, 25% last year. Wheat and oats just beginning to be planted.

MICHIGAN: Weather cool and wet. Average temperatures deviations from -2 in south to -6 in Upper Peninsula. Rainfall was moderate in south, heavy in north.

Cool, wet weather slowed fieldwork and crop development. Dry bean and corn silage harvesting made some headway but were interrupted by rain. Moisture supplies improved Statewide and range from surplus Upper Peninsula to mostly adequate southern counties. Dry bean harvest 20% complete compared to 40% last year and average. Another 50% mature. Cutting of corn silage 20%, versus 25% last fall, and 25% average. Wheat planted 5% versus 8%, 1981, 12% average. Corn for grain 65% mature, 60% last year. Soybeans 25% mature, 15% last year, 10% average. Apple and grape harvests increasing while summer vegetables declining in supply. Celery two-thirds complete.

MINNESOTA: Cool, cloudy and damp weather prevailed. Temperatures were from the upper 40's north to the mid 50's south and were generally from 2 to 6° below normal. Highest reported temperature was 82° at Preston and the coolest reported temperature was 31° at International Falls. Rainfall averaged less than 0.50 in. northwest and from 0.50 to 2.00 in. elsewhere, except between 1.00 to 1.50 in. east central, south central and southeast. Largest total reported was 3.47 in. at Aitkin.

Development of crops hampered by cool, wet weather. Crops planted late remain behind normal and danger of frost greater. Topsoil moisture rated 3% short, 47% adequate, and 50% surplus. Field corn: Denting 90%, 1981 95%, normal 91%; mature 23%, 1981 31%, normal 49%. Soybeans: Turning yellow 90%, 1981 94%, normal 94%; shedding leaves 38%, 1981 51%, normal 65%; mature 10%, 1981 12%, normal 22%. Harvested: Spring wheat 95%, 1981 99%, normal 96%; potatoes 22%, 1981 44%, normal 31%; dry edible beans 17%.

MISSISSIPPI: Temperatures above normal. Extremes: 52 and 96°. Rain in north area early in week as result of tropical storm Chris. Greatest 24-hour rainfall 4.03 in.

Soil moisture adequate to surplus north, short to adequate south. Fieldwork: 4.8 days suitable. Cotton 96% of acreage with some open bolls, 92% last year, 81% average; 4% harvested, 7% last year, 5% average; condition good to fair. Soybeans 28% shedding, 45% last year and average; 6% mature,, 13% last year, 14% average; 1% harvested, 4% last year, 3% average; condition good to fair. Rice 76% mature; 30% harvested, 41% last year, 39% average; condition good to fair. Corn 57% harvested, sorghum 40%, hay 92%, sorghum silage 83%, peanuts 30%, sweetpotatoes 30% harvested. Winter wheat 2% seeded, 8% last year, 11% average. Pasture condition good to fair.

MISSOURI: Temperatures averaged slightly above normal, with the southern half of the State having the warmest readings. Parts of central and east central received up to 3.50 in. of rain, and some flooding occurred in the northwest and southeastern parts of the State.

Fieldwork: 3.0 days suitable. Corn 91% in dented stage or beyond, 94% last year, 92% normal. Corn 52% mature, last year 60%, normal 57%. Corn 11% harvested, last year 14%, normal 19%. Soybeans 33% turning color, last year 39%, normal 50%. Beans 7% mature, 9% last year, 19% normal. Beans 1% harvested, 2% last year, 3% normal. Grain sorghum 60% mature, last year 54%, normal 54%. Sorghum 21% harvested, last year 15%, normal 16%. Third cutting alfalfa hay 86% harvested, 93% last year, 92% normal. Winter wheat seeding 5% completed, 3% last year, 6% normal. Cotton 100% with open bolls, 58% last year, 58% normal. Cotton harvested 6%, last year 1%, normal 9%. Cotton condition 38% good and 62% fair. Corn 10% excellent, 69% good and 21% fair. Soybean condition 3% excellent, 51% good, 45% fair and 1% poor. Sorghum 3% excellent, 67% good, 29% fair and 1% poor. Pasture condition mostly good. Topsoil moisture supply 46% surplus, 53% adequate and 1% short.

MONTANA: First general snow of season left 1 to 24 in. of snow. South central and southwest received most of snow. Heavy precipitation over central and southern areas, 0.75 to 4.00 in. Precipitation light to none elsewhere. Temperatures quite cool and ranged 1° below normal in west to 11° below normal in southwest.

Topsoil and subsoil moisture short to adequate. Days suitable for fieldwork, 5. Harvest progress compared with last year and normal: Spring wheat 85, 95, 90; barley 85, 95, 90; oats 90, 95, 90; second cutting alfalfa hay 85, 95, 90; corn silage 25, 65, 55; dry beans 40, 45, 35; potatoes 15, 10, 10. Sugarbeet harvest expected to start 30th. Percent winter wheat seeded compared with last year and normal: 30, 20, 50. Livestock moved from summer ranges 20, 25, 30.

NEBRASKA: Precipitation: Widespread rainfall. One to two inches common. Temperatures: 5 to 10° below normal.

Damp, cool week halted fieldwork and further delayed maturity of row crops. Corn good. Dough 95%, 99% last year and 100% normal. Dent 60%, 85% a year ago and 90% normal. Mature 5%, 25% last year and 45% normal. Historically, this year's progress of corn crop development is the latest since before 1957 when records began. Soybeans mostly good to fair. Turning color 40%, 80% previous year and 85% normal. Shedding leaves 7%, 40% last year and normal. Sorghum good. Turning 50%, 85% a year ago and 90% normal. Ripe 1%, 15% last year and 40% normal. Winter wheat sown 30%, 65% last year and 60% normal. Third cutting of alfalfa 85%, compared to 95% previous year and 100% normal. Pasture and range feed supplies adequate. Topsoil moisture mostly adequate to surplus. Subsoil moisture adequate. Days suitable for fieldwork only 1.4.

NEVADA: Mostly unsettled weather experienced past week. Showers and thundershowers widespread throughout State with snow at higher elevations. Temperatures well below normal with coldest period midweek. Daytime highs as much as 28 to 38° below normal. Record lows reported some areas. Temperatures warmed with less rain by end of period.

Alfalfa seed harvest hampered by frequent showers. Some cut alfalfa hay also rained on. Sixth cuttings alfalfa hay well along extreme south. Third cuttings nearing completion elsewhere. Ranges excellent.

NEW ENGLAND: Temperatures above normal early week, cooled to below normal at week's end. Precipitation ranged from a trace over southeastern Massachusetts to a little over 1.00 in. over northern Maine with most of the precipitation occurring at midweek.

Six days suitable for fieldwork. Soil moisture short to adequate. Maine potatoes: Topkilling nearly complete, harvest about 13% complete, 1981 26%; quality ranges from poor to good. Second crop hay harvest: 95%, 1981 86%; qualtiy about average. Silage corn harvest: 10%; 1981 24%. Cranberries in Mass.; no frost, harvest slowly started, full scale operations next week. Record harvest expected. Fall vegetables in good condition.

NEW JERSEY: Temperatures averaged slightly below normal. Extremes were 35° at Charlotteburg on 19th and 88° at Hammonton on 18th. Rainfall averaged 0.06 in. north, 0.23 in. central and 0.16 in. south. The heaviest 24-hour total was 0.46 in. at Toms River on 19th to 20th. Soil moisture, in percent of field capacity, averaged 74% north, 57% central and 42% south. Four inch soil temperatures averaged 63° north, 68° central and 71° south.

Fieldwork: 6.6 days suitable. Soil moisture short, current showers beneficial. Iceberg lettuce harvest beginning. Fall vegetable harvest active. Irish potato harvest active. Sweetpotato digging continues light. Fall variety apple harvest active. Preparations underway for cranberry harvest. Corn silage making active. Harvest of corn for grain begun. Soybeans coloring rapidly, some early combining begun. Grain and cover crop planting continues active.

NEW MEXICO: Average temperatures were 4 or 5° below normal over the northeast and north central sections of the State.

Scattered showers interrupted farm activities. Soil moisture fair to adequate; short in northeast and south. Cotton, alfalfa in good condition. Corn in good condition, ensilage and grain harvest continuing. Grain sorghum fair to good condition. Winter wheat seeding continuing. Chile harvest continuing. Peanuts, pecans, fall lettuce in good condition. Continued rains maintain ranges. Cattle and sheep in good shape.

NEW YORK: Good fieldwork conditions. Above normal temperatures helped growth, but many areas continued dry. Corn silage harvest 15% complete, 5% 1981, 11% average. Oat harvest done. Winter wheat planting active. Third cutting alfalfa 55% cut, 49% 1981, 53% average. Corn, dry beans mostly behind normal in maturity. McIntosh apple harvest in full swing. Aurora grape harvest nearing completion, Niagara grape harvest starting. Long Island, Upstate potato harvests active. Tomato harvest in late stages.

NORTH CAROLINA: Temperatures: Below normal. Precipitation: Zero to 1.00 in.

Fieldwork: 6.3 days suitable. Soil moisture: 32% very short, 53% short and 15% adequate. Conditions: Pasture, soybeans and hay mostly fair to good. Peanuts, sweetpotatoes and sorghum mostly good. Corn and cotton mostly good to excellent. Harvest: Sweetpotatoes 32%, 1981 23%, average 21%; sorghum 41%, average 23%; flue-cured tobacco 99%, 1981 96%, average 94%; burley tobacco 67%, 1981 76%, average 70%; corn for grain 56%, 1981 56%, average 51%; corn for silage 85%, 1981 86%; apples 65%, 1981 and average 41%; hay 87%, 1981 84%, average 87%. Phenological stages: Cotton open bolls 82%, 1981 91%, average 79%; corn dent 98%, 1981 100%, 100% average. Corn matured 97%, 1981 97%, 94% average. Soybeans set pods 93%, 1981 95%, 87% average. Major farm activities: Corn harvest for grain, marketing tobacco, cutting hay, spraying soybeans, digging peanuts and land preparation for fall seeding.

NORTH DAKOTA: Temperatures averaged 5° below normal. Coldest was 23° west central on 15th. Week ended warmer. Up to 80° west central on 18th. Rainfall was below normal except east central and southeast where precipitation was from 0.20 to 0.60 in. above normal. Most precipitation was 1.92 in. southeast. Northwest and west central had no rainfall.

Freezing temperatures morning of 15th caused some damage to late developing corn and sunflower fields in western areas. A light frost also occurred on 20th in eastern areas but little damage expected. Statewide, however, these frosts will help dry mature plants for harvest. Wheat combining nearly complete by week's end. Percentage combined by 19th with last year and average was: Hard red spring wheat 95, 100, 91; durum 92, 99, 83; and flax 52, 60, 48. Average of 6.6 days suitable. Potato and dry bean harvests slowed by cool, wet conditions and still behind normal. Sunflower and corn development only slightly behind average. Soybeans well behind. Soil moisture supplies well below normal. Seventy-nine percent of State short or very short of topsoil moisture compared to average of 37%.

OHIO: Spotty frost northwest. Average highs low 70's north, upper 70's south; lows upper 40's to 60's. Overall averages near normal northwest, 1 or 2° above normal elsewhere. Growing degree days ranged from 0 to 20 above normal, total 100 to 140. Rainfall light, about half of normal. Evaporative losses around 1.00 in.

Hot, dry weather rapidly maturing corn and soybeans. Rains needed now for newly seeded alfalfa, winter wheat germination and pasture growth. Farm activities: Combining corn and soybeans, fall plowing, sowing winter wheat, harvesting silage, spreading fertilizer, haymaking, fruit and vegetable harvest, and repairing equipment. Corn dented 100%, 80% 1981, 90% average. Corn mature 85%, 35% 1981, 50% average. Corn harvested 5%, 0% 1981, 0% average. Winter wheat planted 5%, 0% 1981, 5% average. Soybeans turning yellow 99%, 60% 1981, 75% average. Soybeans dropping leaves 80%, 30% 1981, 45% average. Soybeans mature 45%, 5% 1981, 15% average. Soybeans harvested 10%, 0% 1981, 0% average. Alfalfa - 3rd cut 99%, 70% 1981, 80% average. Other hay - 3rd cut 85%. Corn silage harvested 65%, 20% 1981, 40% average. Tobacco harvested 70%, 60% 1981, 75% average. Days favorable 6. Pasture condition fair. Soil moisture 80% short, 20% adequate.

OKLAHOMA: Rainfall ranged from less than 0.10 in. Panhandle to around 1.50 in. southwest. Temperatures were 4° below normal Panhandle and 1 to 4° above normal elsewhere.

Crop conditions improved substantially during week in areas which received scattered showers. Accumulations of up to 4.00 in. of rain were received in some areas. Continued dry weather prevailed in northwest and parts of east. Wheat planted: 5%, 25% 1981, 20% average. Sorghum mature: 40%, 60% 1981, 50% average. Cotton open bolls: 10%, 30% 1981, 25% average. Days suitable for fieldwork: 5.6.

OREGON: Temperatures from 1 to 10° below normal. Rainfall along coast less than 0.10 up to 2.00 in. Interior valleys received traces up to 0.50 in. Other areas received varying amounts from none up to 1.00 in. Additional rain moved into State late in weekend.

Late grain harvest advancing rapidly. Winter wheat seeding 12% complete; 10% last year, 11% average. Corn silage harvest started. Seeding of grass seed fields and fall pastures. Final alfalfa and other hay cutting underway. Winter pear harvest continues. A few Delicious apples being picked. Peaches almost over. Prunes and plum harvest in full swing. Evergreen blackberry harvest essentially done. Filberts dropping. Potato and onion harvest progressing. Sweet corn harvest peaked. Fall vegetables being picked in volume. Livestock condition good. Recent rains helped green-up pastures. High ranges providing adequate forage.

PENNSYLVANIA: Hazy, warm and humid first half, somewhat cooler and drier 16th and 17th with clear and typically early fall weather 19th. Temperatures averaged 1 to 4° above normal most sections with extremes 90 and 26°. Light showers midweek and 10th produced less than 0.10 in. rainfall all areas except Laurel Mountains where 0.20 in. and north central mountains where up to 1.00 in. was measured.

Six days suitable. Moisture mostly short. Activities: Plowing; planting wheat and barley; making; and harvesting tobacco, corn silage, apples, grapes, peaches, potatoes, and tomatoes. Tobacco 78% harvested, last year 88%. Potatoes 56% harvested, last year 51%. Corn 73% dented and 17% mature; last year 87% dented and 32% mature; average 78% dented and 21% mature. Corn silage 42% harvested, last year 31%. Fall plowing 71% complete, last year 55%; average 60%. Barley 46% planted, last year 31%. Wheat 30% planted, last year 22%. Third crop alfalfa 73% harvested, last year 78%. Fourth crop alfalfa 33% harvested, last year 28%. Harvest of second crop Clo-Tim virtually complete, last year 94%. Quality of hay made good to fair. Feed from pasture below average to average.

PUERTO RICO: Island average rainfall 4.22 in. or 2.45 in. above normal. Highest weekly total 12.13 in. Temperatures averaged about 81° on Coasts and 75 to 74° Interior Divisions. Extremes: 95 and 57°.

SOUTH CAROLINA: Rainfall varied from locally heavy to trace amounts. Mostly sunny with temperatures 1 to 4° above normal.

Soil moisture short. Fieldwork: 5 to 6 days suitable. Corn 82% harvested, ahead of 78 last year, 44 average. Cotton bolls opening rapidly, but smaller than usual; some defoliating done; fair to good condition; 65% open bolls behind 72 year ago, 70 average; 2% harvested this year and last, average 6%. Soybean under generally low insect pressure aided by pest parasites, although local damage occasionally severe, including velvetbean caterpillar, podworms; drought stress contributing to leaf and pod drop where severe; conditions fair with 20% of leaf turning color, 13 last year, 21 average; 8% dropping leaves, 4 last year, 9 average. Winter grazing 29% planted, 23 year ago and average; 9% emerged.

SOUTH DAKOTA: Temperatures 4 to 13° below normal. Extremes: 78 and 22°. Precipitation widespread. Normal in northeast, west, and south central. Below normal elsewhere. Up to 1.51 in.; most under 1.00 in.

Topsoil moisture supplies critically short parts of northwest and north central. Short much of northwest, west central and north central, also smaller area of northeast and southeast. Surplus much of south central and strip through central eastern half. Adequate elsewhere. Three days suitable. Main activities chopping corn silage and winter grain seeding. Corn maturity 5 days behind. Sorghum 3 to 4 days behind. Corn silage chopping nearing a fourth finished. Flax harvested 90%, 1981 94%, average 96%. Soybeans shedding leaves 63%, 1981 73%, average 72%. Corn in dough 93%, 1981 93%, average 99%. Corn dented 75%, 1981 81%, average 84%. Sorghum showing color 70%, 1981 85%, average 84%. Corn mature 48%, 1981 41%, average 66%. Soybeans mature 37%, 1981 34%, average 36%. Sorghum mature 28%, 1981 39%, average 39%. Sunflowers mature 71%, 1981 72%, average 58%. Winter wheat seeded 54%, 1981 73%, average 74%. Winter rye seeded 62%, 1981 65%, average 66%. Winter wheat emerged 21%, 1981 27%, average 34%. Winter rye emerged 26%, 1981 33%, average 37%.

TENNESSEE: Fieldwork averaged 3.9 days. Soil moisture 63% adequate, 25% surplus, 12% short. Corn mature 75%, 1981 83%, average 67%; harvested 13%, 1981 10%, average 14%. Cotton open bolls 64%, 1981 35%, average 37%; picked 3%, 1981 1%, average 5%. Soybeans shedding leaves 13%, 1981 8%, average 16%; mature 4%, 1981 3%, average 4%. Tobacco harvested: Burley 89%, 1981 87%, average 85%; dark-fired 78%, 1981 88%, average 81%; dark air-cured 82%, 1981 94%, average 85%. Wheat sown 13%, 1981 9%, average 18%. Oats sown 26%, 1981 24%, average 31%.

TEXAS: Weather: Moist southerly flow, combined with an upper level disturbance, triggered scattered thunderstorms South Texas early week. Slow moving cold front entered Texas 13th, pushed Central Texas 15th, 17th reached coast. Thunderstorms developed along the front. Temperatures near normal over Plains, while 3 to 5° above normal remainder of State. Rainfall 1.00 in. below normal Valley, while near normal remainder South Texas. Rainfall 0.50 to 1.00 in. above normal over the northern half of State.

Crops: Scattered showers cooled temperatures and brought needed relief from prolonged dry spell. Some hay meadows greened up, producers get additional cuttings. However, moisture not sufficient most small grain planting, some wheat and oat stands dry-seeded. Armyworms problem East Texas, damaging pastures and newly emerged wheat. Defoliation underway some early cotton fields Southern High Plains within two weeks. Cooler weather slowed maturity some stands Panhandle, bolls continue open prematurely. Pink bollworm problem isolated areas Trans-Pecos, insect numbers have declined considerably. Stalk plow up complete Coastal Bend but few fields remain Lower Valley. Statewide condition was 57% of normal, compared with 82% last year. Condition across the State was 1% excellent; 14% good; 65% fair; and 20% poor. Some dryland sorghum fields Northern High Plains suffer lack sufficient moisture. Crop matured rapidly under summer's hot, dry weather, harvest underway shortly over Panhandle. Harvesting operations good progress across Low Plains, yields good. Condition across the State was 84% of normal with 14% excellent; 55% good; and 31% fair. This compares with 92% of normal last year. Corn harvest good progress High Plains, although overloaded elevators causing delays some areas. Yields generally good, stalk rot common problem scattered areas causing lodging and lower yields. Mite infestations also reduced yields some parts High Plains. Statewide condition was 88% of normal, unchanged from last week. This compared with 92% of normal a year ago. Condition across the State was 24% excellent; 57% good; 16% fair; and 3% poor. Dry soil conditions delay small grain palnting across most State. Scattered showers High Plains not enough to help moisture-stressed conditions, some wheat fields dry planted. High winds Southern High Plains blown out some recently planted stands. Some producers Blacklands waiting for rain before palnting oats. Armyworms problem East Texas, recently emerged wheat fields need to be sprayed. Harvest early peanuts active Cross-Timbers, yields have been fair. Some fields South Central Texas abandoned because poor crop prospects. Soybeans making good progress High Plains, some fields harvested. Some early fields harvested along coast. Sugarbeets good progress High Plains, harvest begin early October. Hay meadows responded recent showers, many producers get additional cutting. Cotton open bolls 31%, 38% 1981, 37% average. Cotton harvested 17%, 12% 1981, 16% average. Sorghum turning color 86%, 91% 1981, 89% average. Sorghum mature 71%, 73% 1981, 74% average. Sorghum harvested for grain 68%, 72% 1981, 70% average. Wheat planted all purposes 21%, 25% 1981, 31% average. Wheat emerged 2%, 0% 1981, 8% average. Corn for grain harvested 54%, 51% 1981, 51% average. Peanuts harvested 14%, 11% 1981, 20% average. Soybeans harvested 0%, 0% 1981, 1% average. Sunflowers harvested 21%, 23% 1981, 15% average. Oats planted 12%, 12% 1981, 19% average.

Commercial vegetables: Lower Rio Grande Valley, the heat affecting development many fall vegetables, and early stands of tomatoes, bell peppers, cucumbers and cabbage being irrigated. Onions and lettuce planted. Irrigation active most citrus groves, fruit sizing well. Coastal Bend, warm temperatures, lack of moisture stressing young cucumber plants. San Antonio-Winter Garden, vegetable planting active, fall carrots good progress. East Texas, recent rains provided good moisture fall vegetable planting. Melon, sweetpotato harvest continued. Trans-Pecos, carrot, tomato harvest continued, while cantaloup harvest complete Pecos County. Plains, vegetable harvest winding down. Scattered showers too late to help most pecan crop. A heavy "summer drop" problem most areas, nuts have not been filling properly many orchards.

Range and pasture: Ranges and pastures some improvement following recent scattered showers, more rain welcomed so pastures furnish good supply winter grazing. Many producers continued supplemental feeding since grass supplies short some areas. Stock tanks low parts Edwards Plateau and South Texas. Livestock good to fair condition, early weaning of calves in South Central Texas helped improve condition most mother cows.

UTAH: Thunderstorm and shower activity over most of State forepart of week. Accumulated precipitation amounts moderate to heavy. Average temperatures ranged from 13° below normal to 3° above normal. Moisture use by plants, as indicated by pan evaporation, was below normal.

Fieldwork interrupted by frequent showers. Most fall activities running behind normal. Winter wheat 24% seeded, onions 10% harvested and alfalfa seed 26% combined. Rain damage to hay continues to be a major problem. Growers forced to delay cutting until fields dry. Corn crop late due to cool spring. May be further delayed by recent cool weather. Corn silage cutting just starting. Corn for grain only 34% in dent stage. Warm, dry weather needed to speed maturity and allow for an orderly harvest. Livestock and range feed in very good condition.

VIRGINIA: Remnants of tropical storm Chris produced some flooding in the southwest part of State early in the period. Bristol reported 3.39 in. of

rain from 13th to 14th. Rainfall was reported only in spotty locations elsewhere across the State. Temperatures ran slightly above normal. Extremes: mid 40's to low 90's.

Continuing dry weather allowed 5.7 days suitable for fieldwork. Main activities were hay, silage, corn for grain, apple and tobacco harvests and marketing livestock. Topsoil moisture was rated 93% short, 5% adequate and 2% surplus. Corn for grain 96% dent, 96% 1981; 88% mature, 90% 1981; 25% harvested, 28% 1981, 28% average; 74% cut for silage, 61% 1981. Soybeans doing well but some stress showing up. Less than 1% of beans harvested. Both 1981 and average less than 1% also. Tobacco in good condition. Flue-cured 92% pulled, 84% 1981, 64% average. Burley 83% cut, 76% 1981, 72% average. Fire-cured 95% cut, 92% 1981, 80% average. Sun-cured 84% harvested, 84% 1981 and 76% average. Winter wheat seeding 2% complete, 4% 1981, 2% average. Barley 8% seeded, 8% 1981, 61% average. Oats 14% seeded, 14% 1981, 9% average. Peanuts 10% dug, 2% 1981, 1% average; 2% combined with none last year or average. Apples 25% picked, 30% 1981, 26% average. Sweetpotatoes 40% harvested, 20% 1981, 12% average. Pastures stressed with supplemental hay feeding in some areas. Haying active with crop coming off in good condition. Feeder sales active.

WASHINGTON: A moderately strong late summer frontal system crossed the State on 11th and 12th and produced all of the precipitation observed during the week. Reports from the north coast showed amounts of greater than 1.50 in. Stations in the Cascades reported over 2.00 in. Amounts were generally less than 0.25 in. east of the mountains. High pressure which followed the front, and moved into southwest Canada, set up a dry, easterly flow of warm air for the remainder of the week. Highest temperatures were into the 80's and occurred mostly on 16th and 17th.

West: Harvest of blueberries and blackberries continued. Vegetable harvest continued and includes sweet corn, carrots, potatoes, cucumbers, cauliflower, vegetable seeds, green beans, and other leafy vegetables. Pasture growth fair and cattle in good condition. Some pasture seeding took place. Feed supplies remain adequate.

East: Fall seeding of the winter wheat crop continues. Rains have caused some erosion and reseeding to occur. Harvests of potatoes, dry beans, hops, alfalfa seed, alfalfa hay, D'Anjou pears, and Golden and Red Delicious apples also took place. Vegetables harvested include onions, carrots, melons, tomatoes, sweet corn, green beans, and peppers. Fall seeding of onions also was completed. Silage corn harvest progressing. Pastures in fair condition. Feed supplies adequate. Winter wheat planted 40%, 43 last year, 34% average. Cattle in good condition. Some being moved to lower elevations.

WEST VIRGINIA: Temperatures above normal. Range: 39 to 92°. Precipitation below normal. Range 0 to 1.02 in.

Soil moisture: 37% very short, 41% short, 20% adequate and 2% surplus. Days worked averaged 5.5. Main activities: Hay harvesting, silage chopping and general maintenance. Corn reported good to fair, 86% dough stage. Pasture fair to poor. Hay, fair to good, 2nd cutting 93% complete, 82% of normal, 92% harvested in 1981. Tobacco good to fair, 95% topped, 86% harvested, 100% and 83% in 1981. Peaches poor to fair, 96% harvested, 59% of normal. Apples good to fair. Gardens fair to good. Limited rainfall stressing pasture and livestock watering supplies.

WISCONSIN: A relatively cool, rainy week. Temperatures averaged 3° below normal as they ranged from a cool 31° at Mole Lake on the 18th to a much warmer 83° in Iola, Juneau and Oshkosh on the 13th. Summer-like weather early in the week gave way to more fall-like weather during midweek. Light rains or showers were reported somewhere in the State everyday last week except for 18th. Most districts reported rainfall totals in the 0.50 to 1.50 in. range. Heaviest precipitation fell in the northern third of the State.

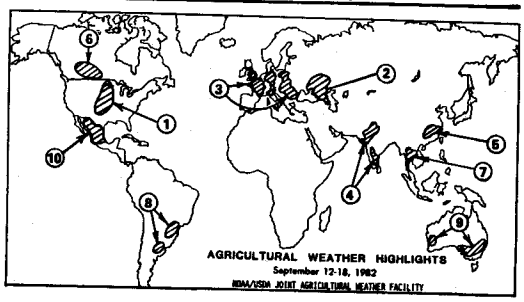
Fieldwork: 3 days suitable. Farm reporters were concerned about corn maturity. Currently 75% at dough stage of development, 100% 1981, 95% average. An estimated 53% was at dent, 75% 1981, 82% average and an estimated 30% was mature enough to be safe from frost, 52% 1981, 69% average. These measures of corn maturity the lowest averages for the 1972-82 time span. Growing degree day accumulations, since April 1, have averaged 6% below normal. Because the corn is slow in maturing, only minimal progress has been made with the corn silage harvest which was 6% complete, 11% 1981, 20% average. Frequent rains made harvesting third crop hay difficult. Currently 48% of the State's 3rd crop hay has been harvested, 54% 1981. Rains did give pastures a boost which rated at 86% of normal, 94% 1981, 86% average. The tobacco harvest progressing in the northern growing area. The State's anticipated record soybean crop maturing. Currently 55% of acreage has leaves which turning, 55% 1981. Topsoil moisture supplies were rated 3% short, 55% adequate, and 42% surplus. Wet field conditions particularly prevalent in the north central district.

WYOMING: All stations well below seasonal temperatures. Some as much as 18° below seasonal normals. Precipitation well above normal plus several inches of snow in many northern areas.

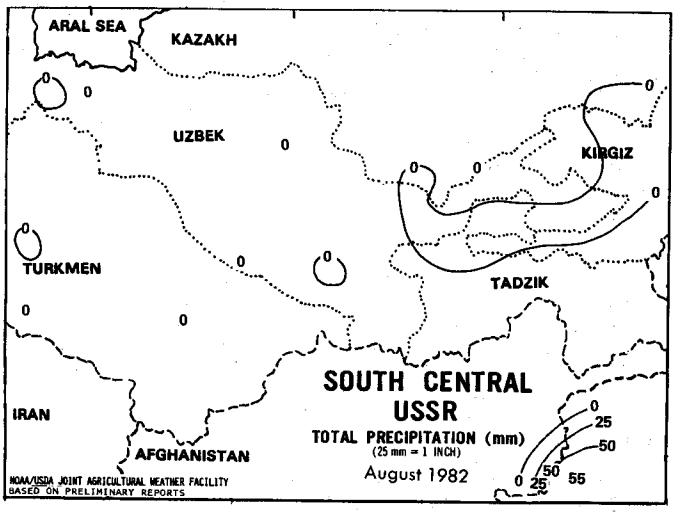
Topsoil moisture adequate 75% State. Average 2 days suitable fieldwork despite widespread precipitation. Heavy snowfall damaged crops in central areas. Spring wheat harvested: 85%. Oats harvested: 80%. Barley harvested: 85%. Normally, most small grains harvested by this time. Potato digging continues. Corn in dough: 10%; year ago 35%. Corn denting: 70%; year ago 45%. Corn mature: 15%; year ago 20%. Small amount corn for grain harvested. Corn silage harvested: 20%; year ago 45%. Dry beans windrowed: 45%; year ago 85%. Dry beans combined: 25%; year ago 55%. Second cutting alfalfa, 90% complete. Third cutting, 15% complete. Other harvest complete most areas. Winter wheat seeded for 1983: 55%; year ago 80%. Winter wheat emerged: 35%; year ago 50%. Hay supplies adequate most areas. Fair-good quality hay available most areas. Livestock contracting about the same pace as a year ago.

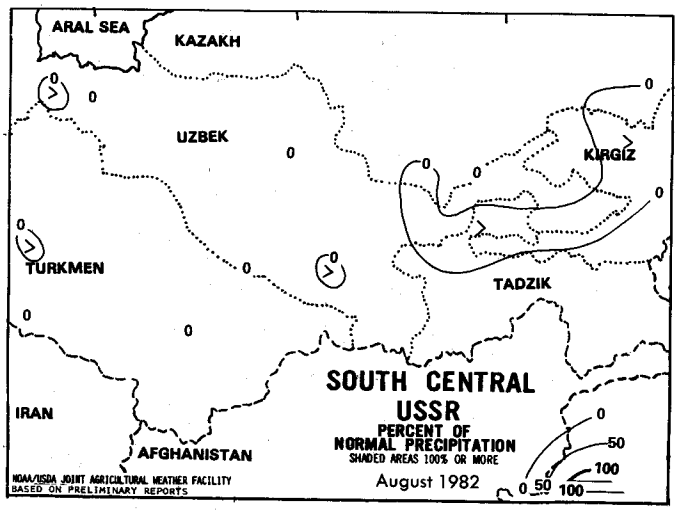
International Weather and Crop Summary

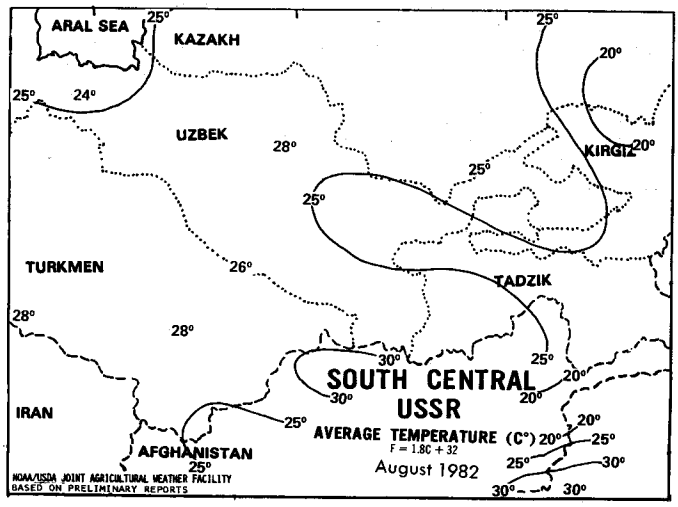
September 12-18

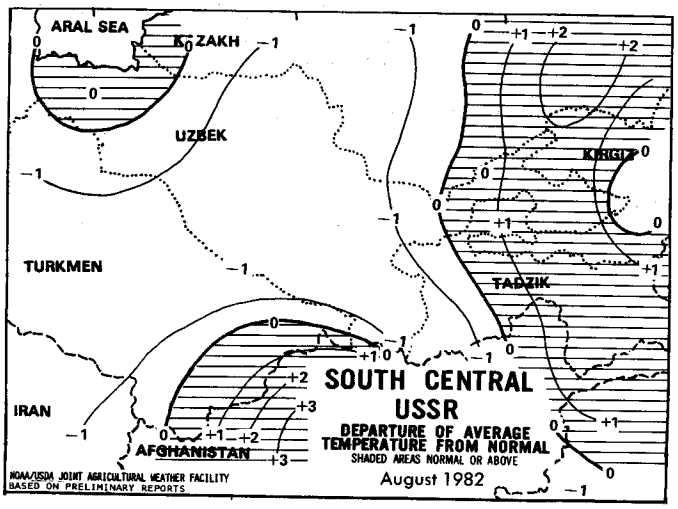


1. UNITED STATES: Unseasonably cool weather slows maturity of already late developing crops in the western Corn Belt. Rains help winter wheat in central & southern Plains.
2. USSR: Continued unfavorably dry over major winter wheat area.
3. EUROPE: Mostly dry weather aids fieldwork.
4. SOUTH ASIA: Increased rainfall in southern India improves growing conditions; dry weather persists in the northwestern third.
5. EASTERN ASIA: Unfavorably wet weather for harvesting in China's Yangtze Valley.
6. CANADA: Dry weather aids crop harvests; seasonal frost occurs throughout the grain belt.
7. SOUTHEAST ASIA: Variable rainfall in Thailand maintains improved growing conditions in most areas.
8. SOUTH AMERICA: Timely rains for wheat growth in Argentina; excessive rains again for wheat in southern Brazil; favorable weather for maturing wheat, citrus harvest in northern areas.
9. AUSTRALIA: Beneficial rains for wheat growth in the west; light showers provide only minimal relief from severe drought elsewhere.
10. MEXICO: Unusual dryness stresses immature crops, pastures and livestock over northern two-thirds of the country.

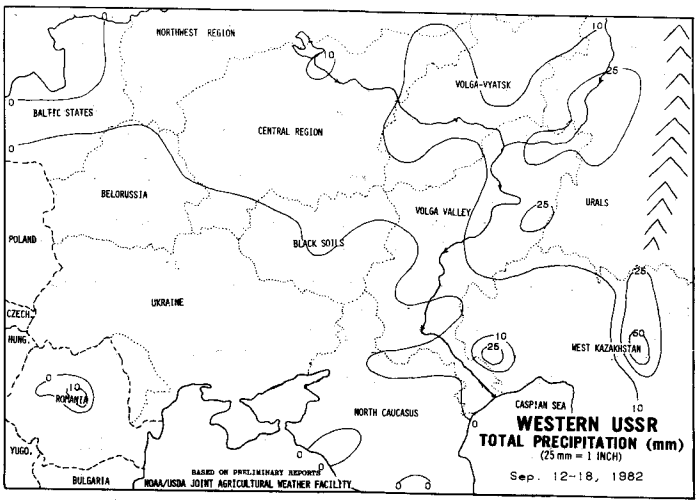


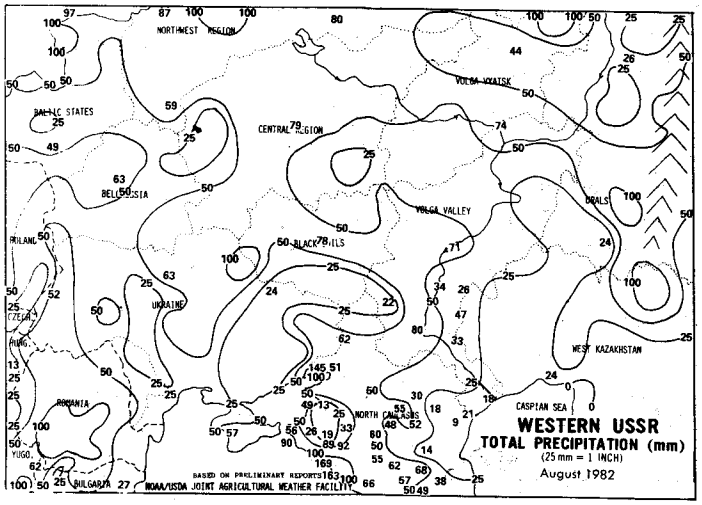


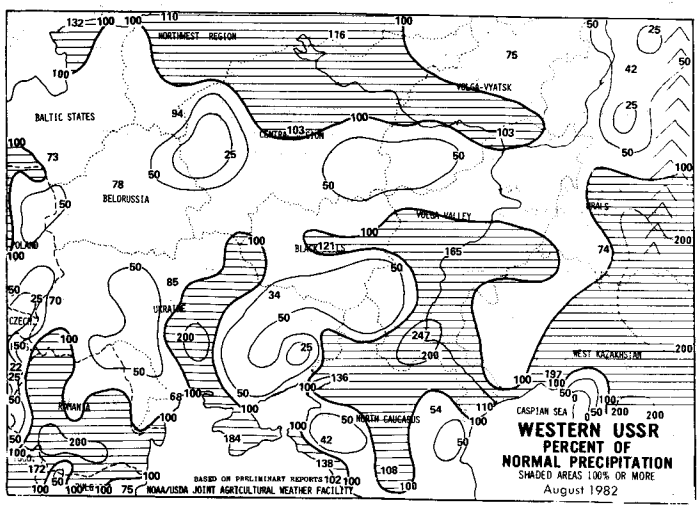


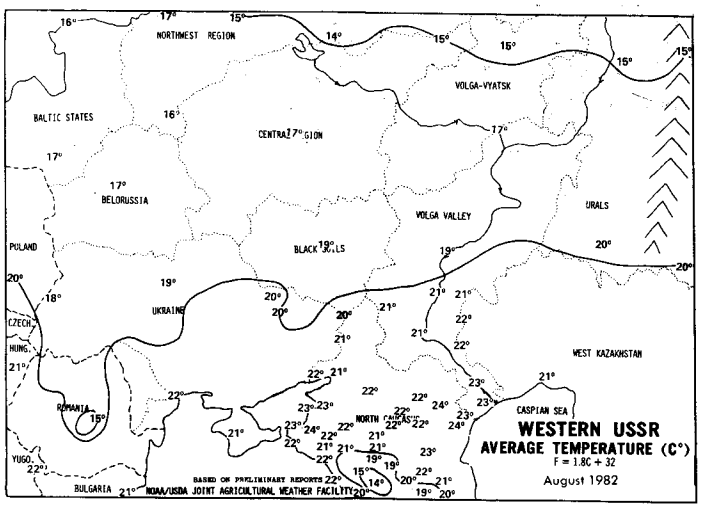


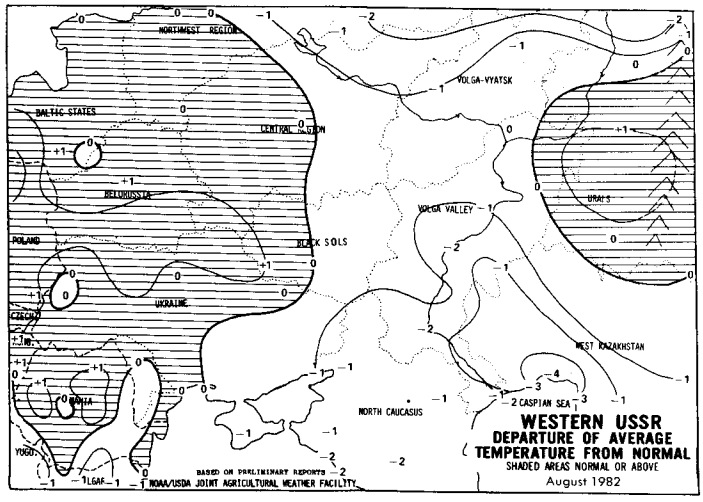
WESTERN USSR: Mostly dry weather covered the Baltic States, Belorussia, the Ukraine, and Black Soils region, continuing August's generally below-normal rainfall pattern. Dry weather also occurred in the North Caucasus and southern Volga Valley which received above-normal precipitation in August. However, most of the rain came during the first 10 days of August followed by continued dry weather. These persistent dry conditions aided the harvest and favored maturing crops but reduced topsoil moisture supplies to unfavorably low levels for winter wheat planting. In contrast, wet weather this past week in the northern Volga Valley and Urals region reversed August's below-normal precipitation pattern, providing favorable moisture for winter rye in the vegetative stage. Weekly temperatures continued August's pattern--above normal in the west and below normal in the east.



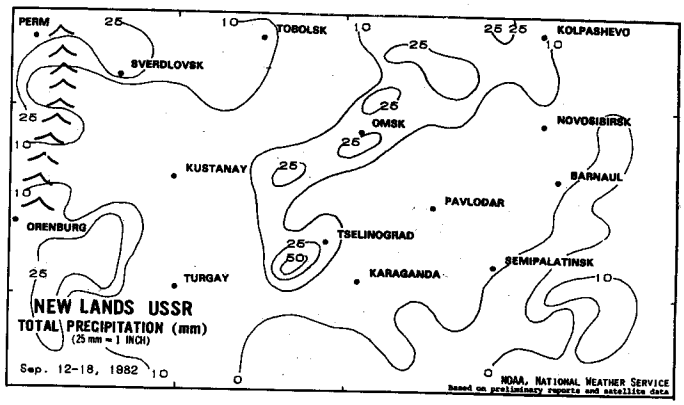


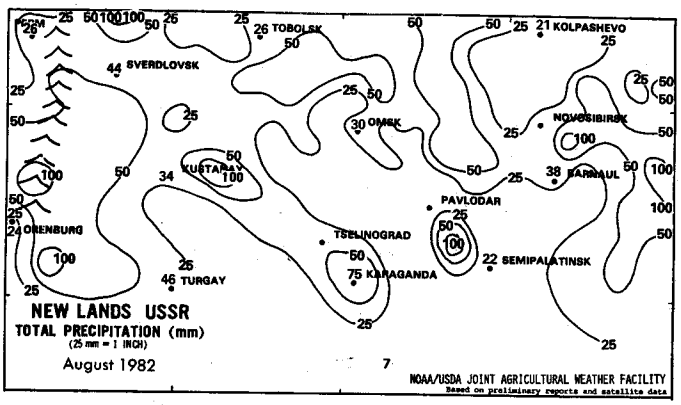


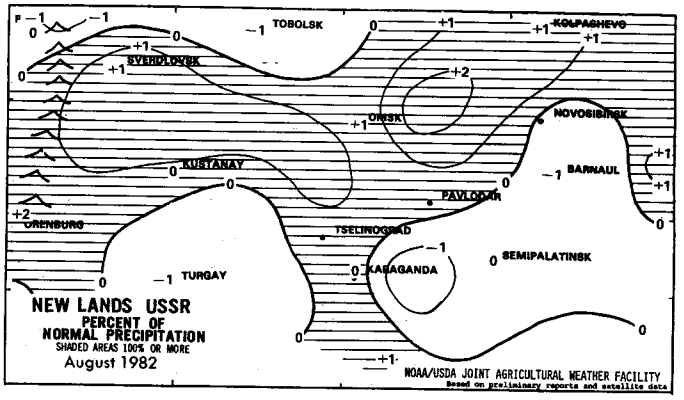


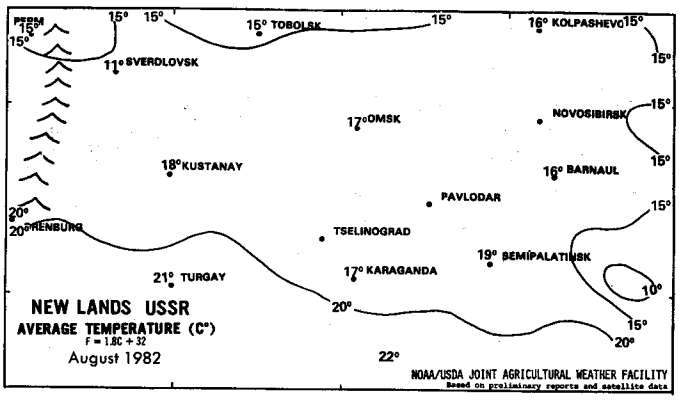


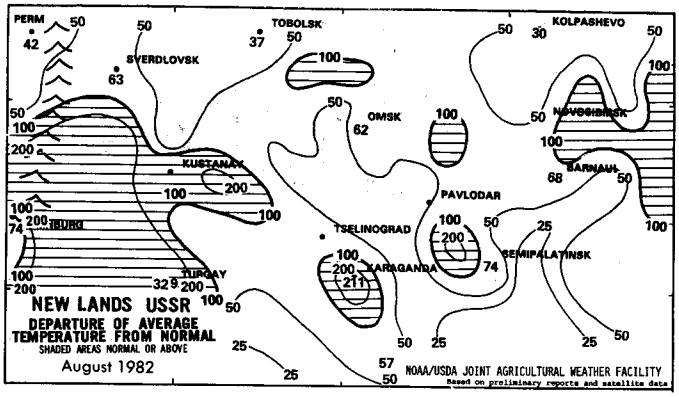
NEW LANDS: Wet weather covered northwestern and central grain areas, with rainfall amounts ranging from 10 to 25 mm. Some delays in the harvest likely resulted. Showers falling on crop areas around Orenburg had little impact on the harvest which normally is complete. Scattered, light showers fell on the remainder of the region producing only minor harvest delays. In August, showers in western and northern crop areas produced some delays in the harvest. Elsewhere, harvest delays were minor. In addition, episodes of frost covered some northern and eastern crop areas during August, but impacts were minimal. Overall, temperatures for the month were near to above normal over the region. Temperatures this past week were below normal in the west and near to above normal in the east.



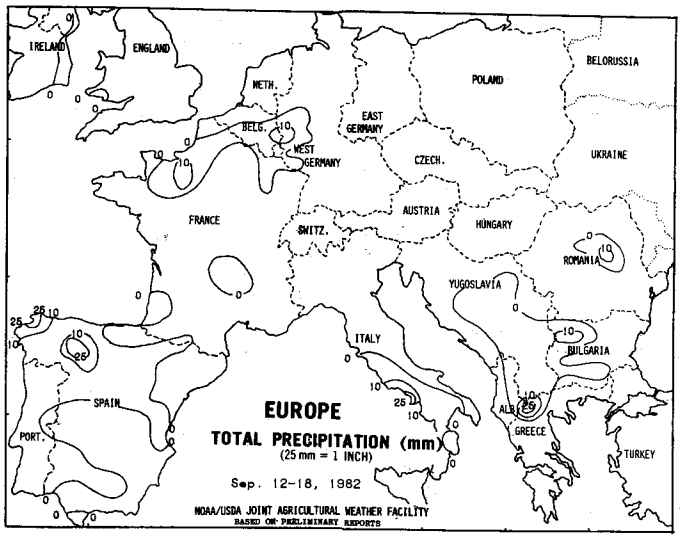


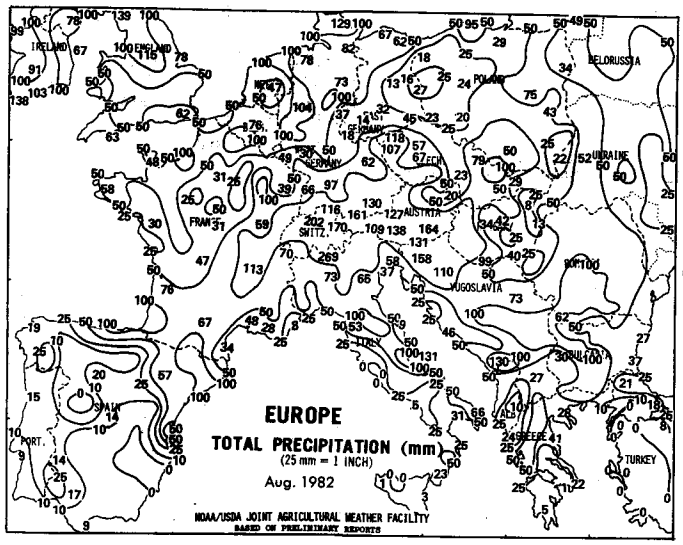


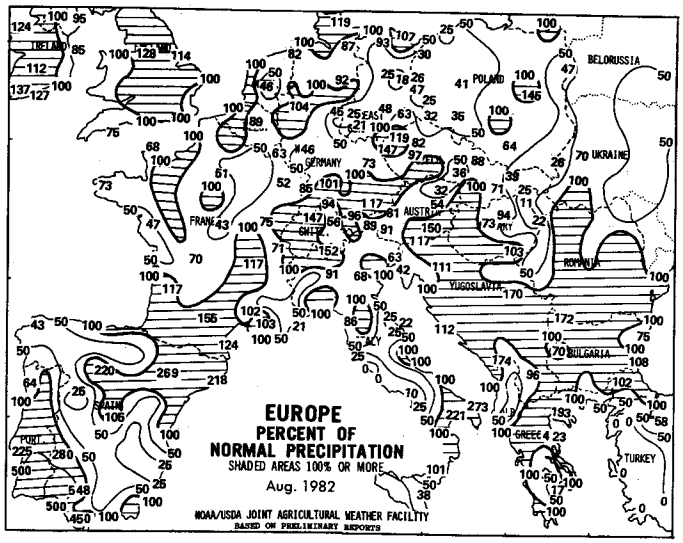


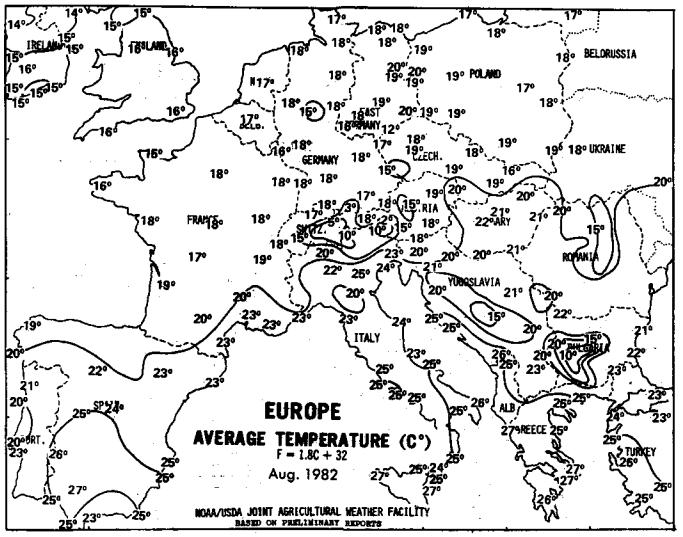


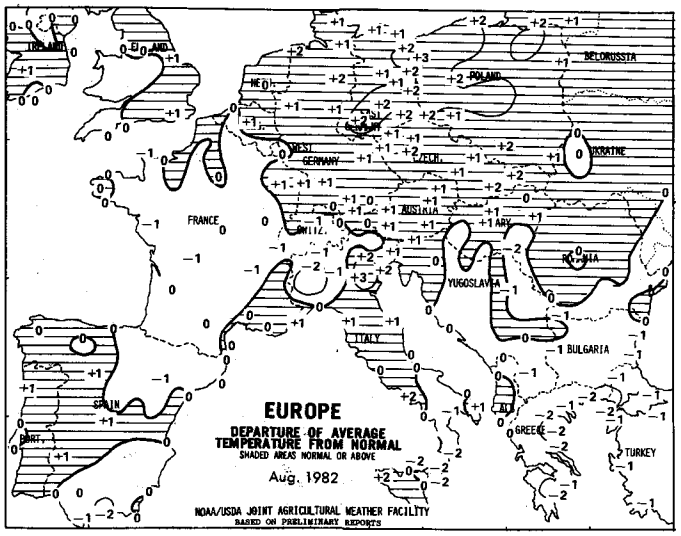
EUROPE: A high-pressure system covered most of the region, and as a result, little, if any, rain fell. The mostly dry weather allowed fieldwork for harvesting and winter grain planting to progress at a rapid pace. Reports indicate that presistent showers in England, eastern Yugoslavia, and Romania during August delayed the harvest but provided favorable topsoil moisture for winter grain planting. In contrast, generally favorable weather for the harvest occurred during August from northern France, extending eastward through northern Europe and covering most of Poland. However, reports indicate that topsoil moisture supplies needed for winter grain planting are at unfavorably low levels in part of West Germany, East Germany, and Poland. Northern Italy received abundant moisture during August, improving subsoil moisture conditions. Temperatures this past week were mostly above normal.

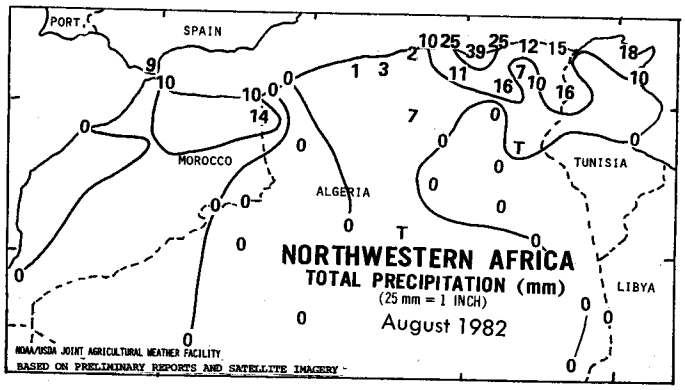


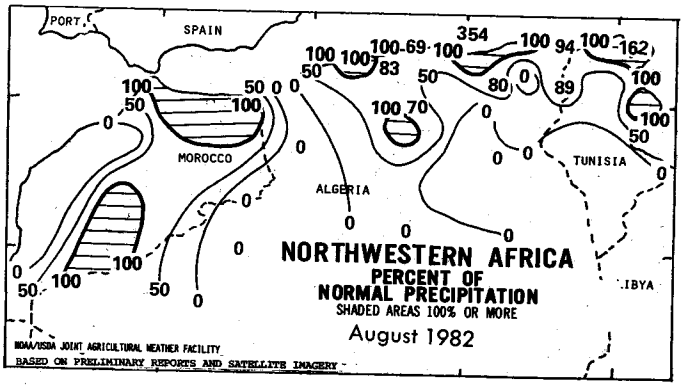


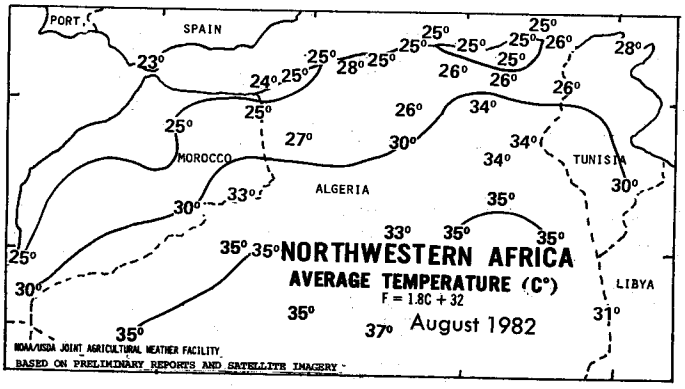







PORT.
SPAIN
MOROCCO
ALGERIA
TUNISIA
LIBYA
NORTHWESTERN AFRICA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
August 1982
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY


PORT.
SPAIN
MOROCCO
ALGERIA
TUNISIA
LIBYA
NORTHWESTERN AFRICA
PERCENT OF
NORMAL PRECIPITATION
SHADED AREAS 100% OR MORE
August 1982
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY


PORT.
SPAIN
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LIBYA
NORTHWESTERN AFRICA
AVERAGE TEMPERATURE (C°)
F = 1.8C + 32
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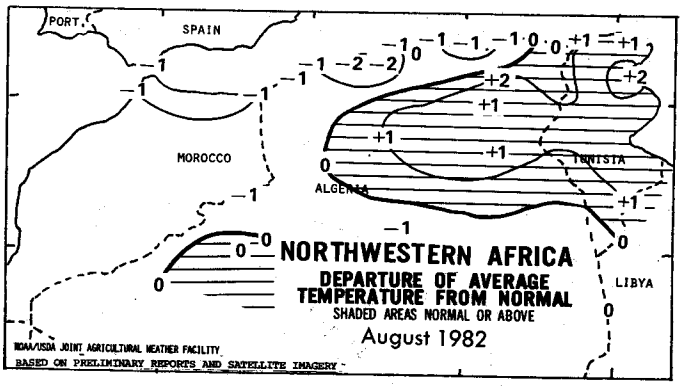
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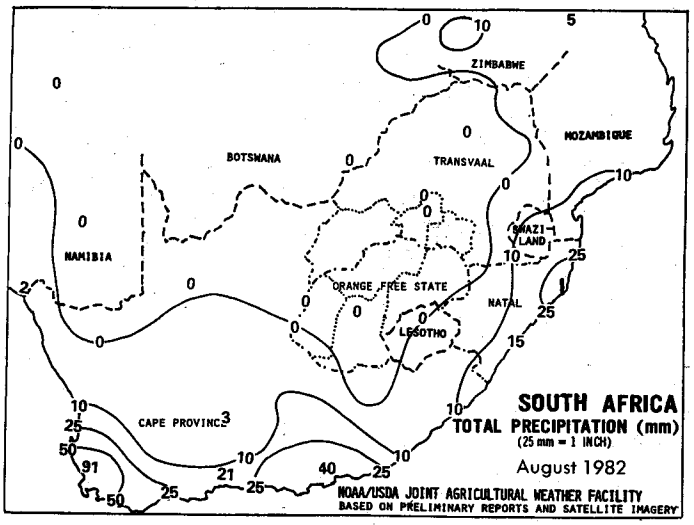
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NATAL
LESOTHO
CAPE PROVINCE
SOUTH AFRICA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
August 1982
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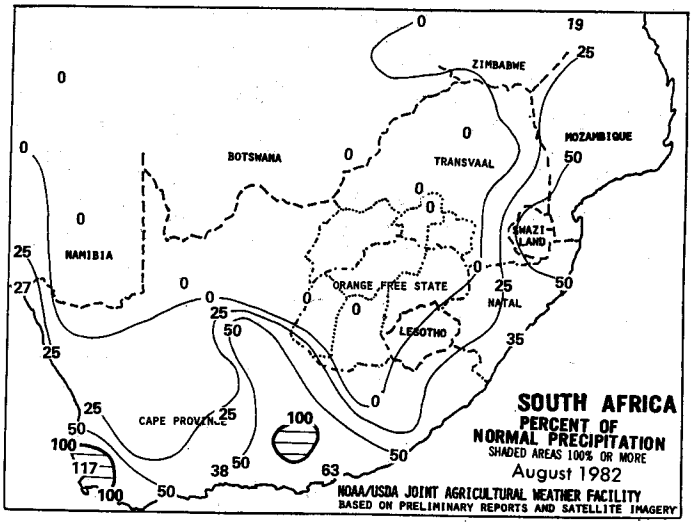
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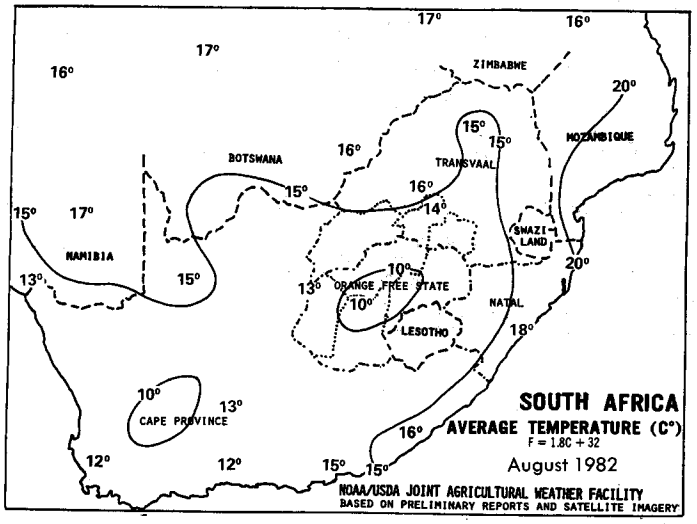
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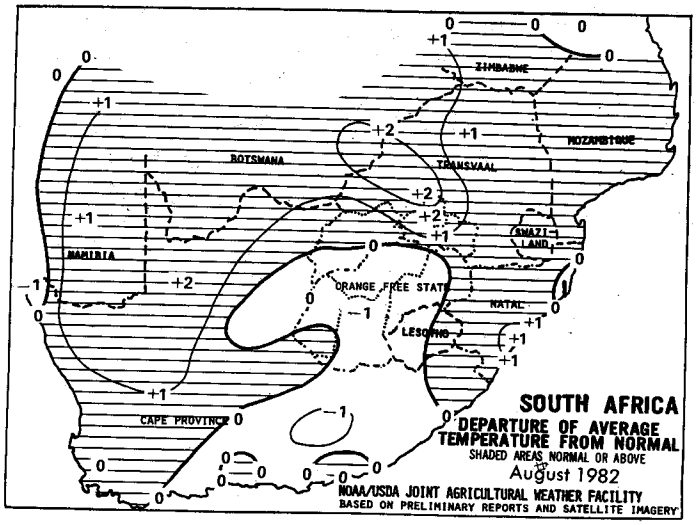
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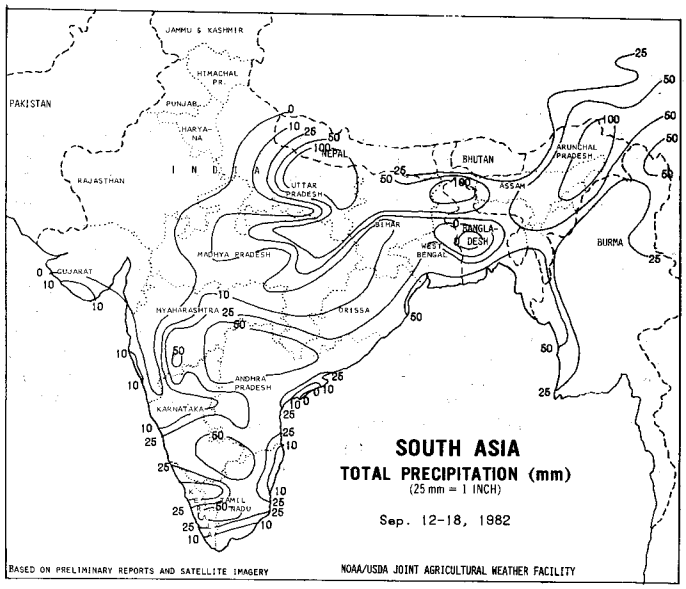
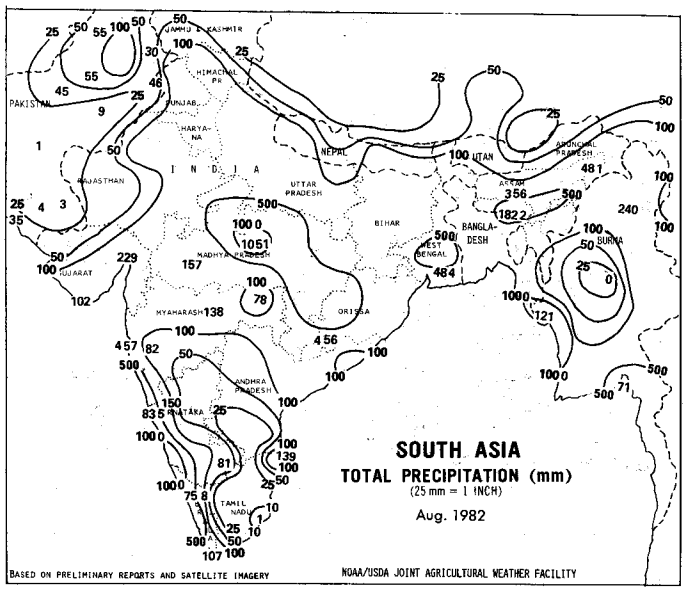
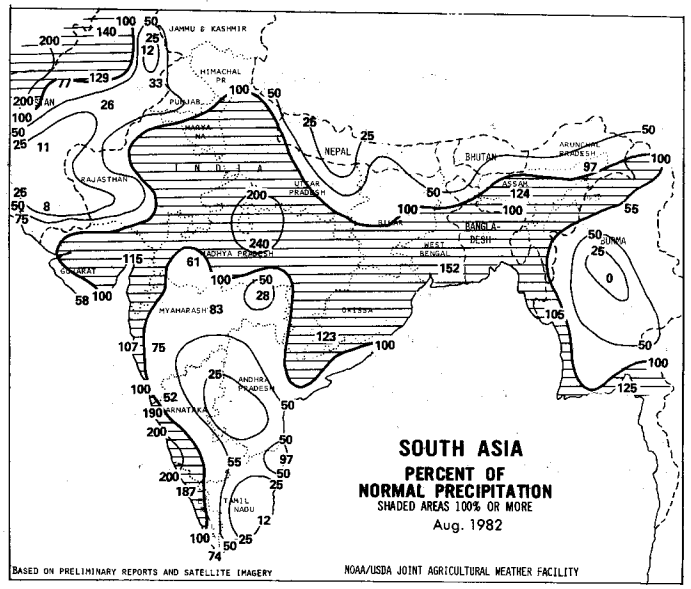
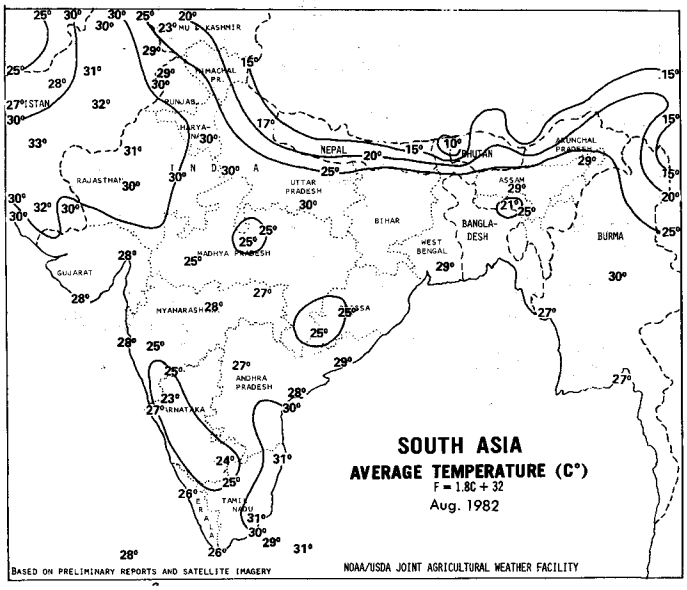
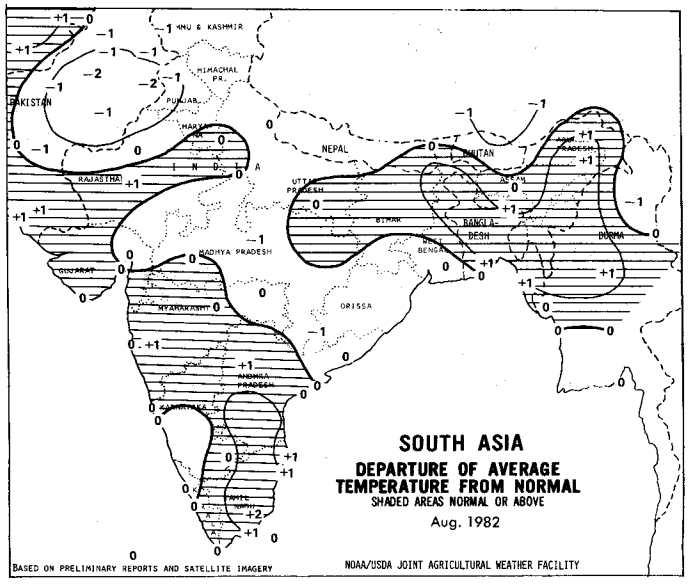
SOUTH ASIA: Dry weather persisted over Pakistan and the northwestern third of India. Irrigation supplies in the northern portions of these two countries should have been adequate for full-harvested crops, but the monsoon's early withdrawal in August poses serious questions about moisture conditions for sowing winter grains in November. Autumn is normally the driest season in that area. Growing conditions for peanuts and cotton in Gujarat worsened, but rainfall increased over many interior areas of the Indian Peninsula. Some peanut and cotton yield losses had already been sustained in these southern areas due to dry weather in August. Normal amounts of rain or greater fell over much of northeastern India, likely causing some additional flooding. Flooding due to heavy rains in August reportedly damaged rice in low-lying areas. Temperatures stayed near normal for the most part but were slightly below normal in northeastern India and slightly above-normal in the south.



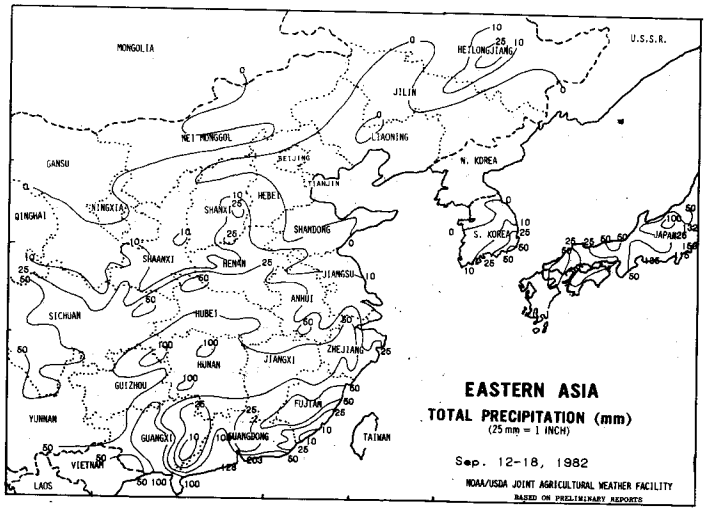


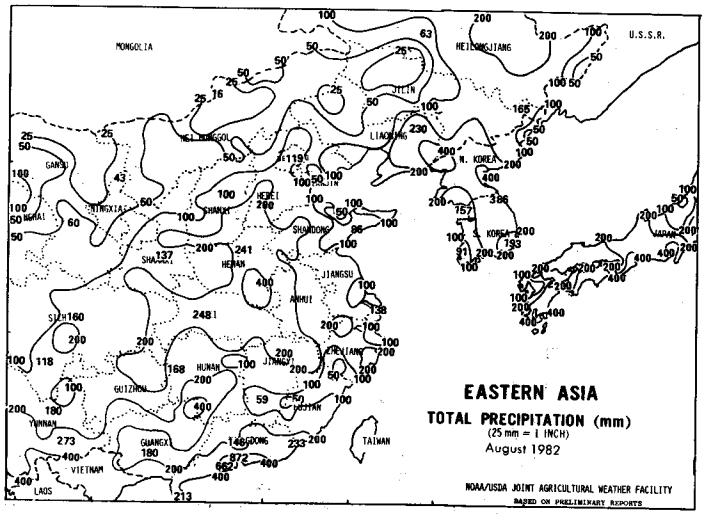


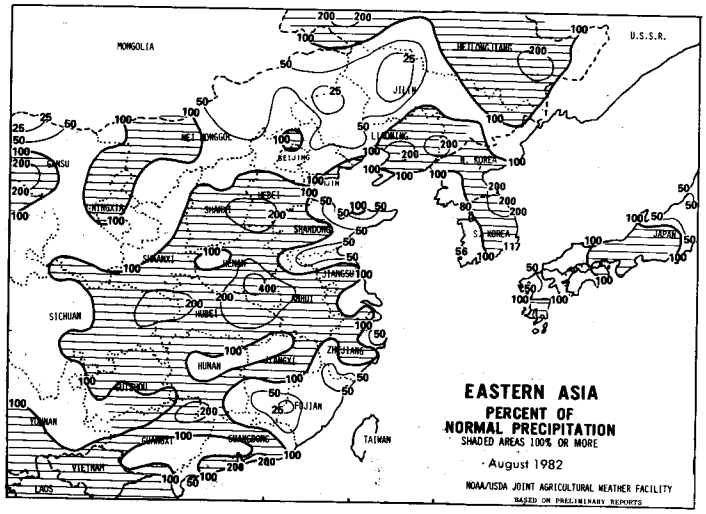


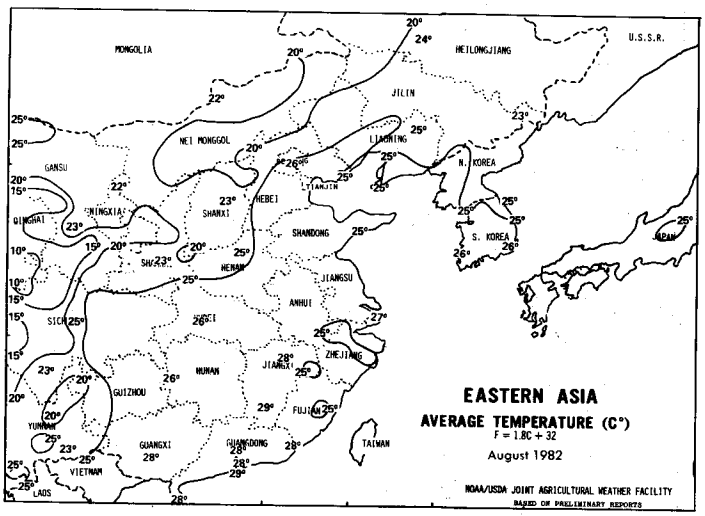


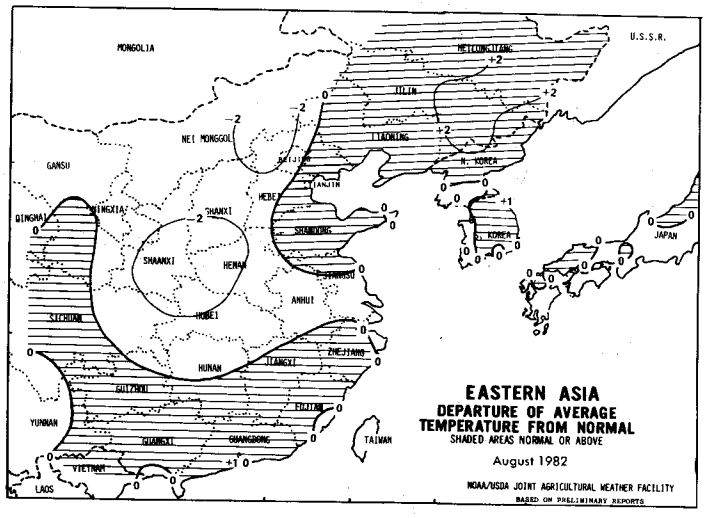
EASTERN ASIA: Mostly dry weather persisted over the northern half of China. Moisture should be adequate for sowing winter grains, due to above-normal rainfall in August. Drying conditions in recent weeks have not been abnormal. Above-normal rain in the Yangtze Valley likely benefited late rice, but the moisture interfered with harvesting of other crops. Mostly favorable weather persisted along the southern coast. Tropical Storm Irving dropped heavy rains only on coastal parts of Guangdong and western areas of Guangxi. Late harvesting in northeastern China was not interrupted much by localized moderate rains in Heilongjiang. Near-normal or greater rainfall during August came too late to prevent substantial yield losses over much of that region. In South Korea, only the southeast had near-normal rainfall, while the northern part was dry. These moisture conditions together with near-normal temperatures favored rice harvesting.

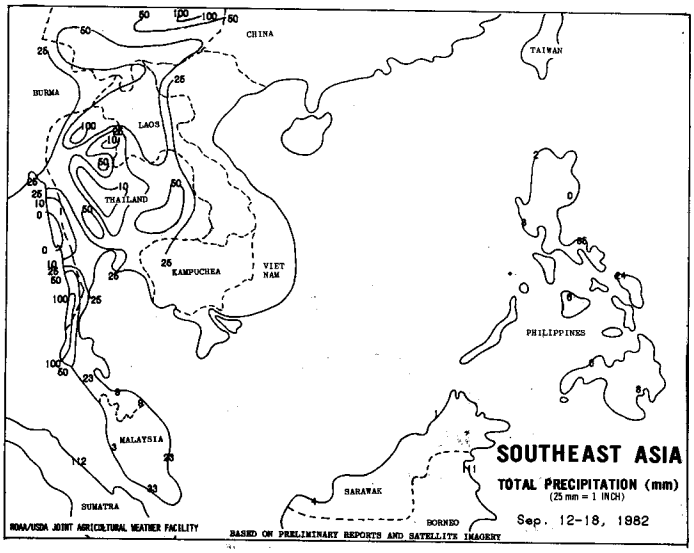




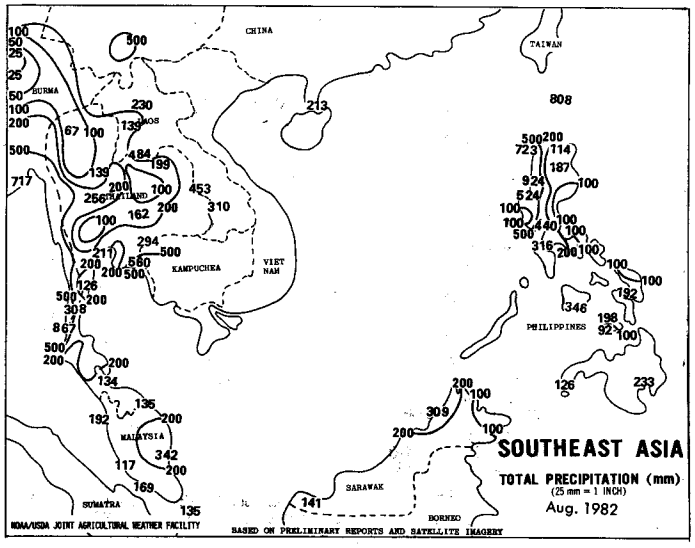


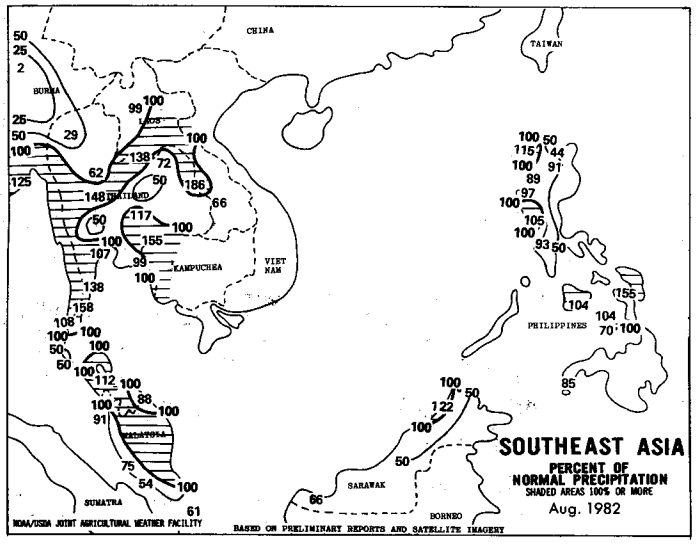


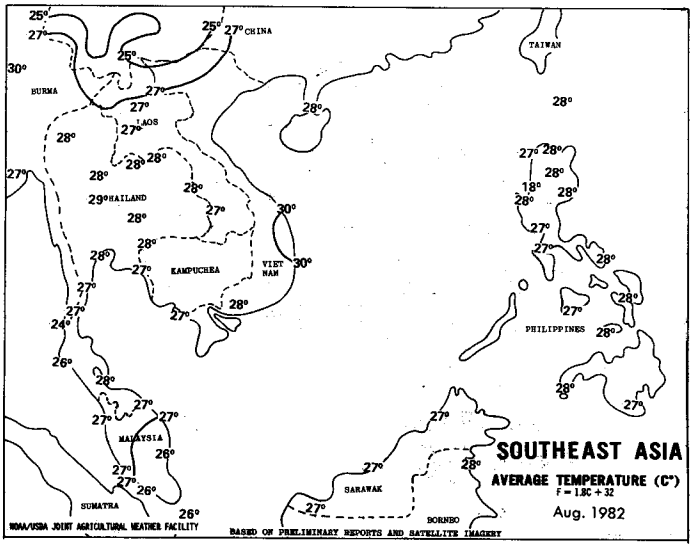


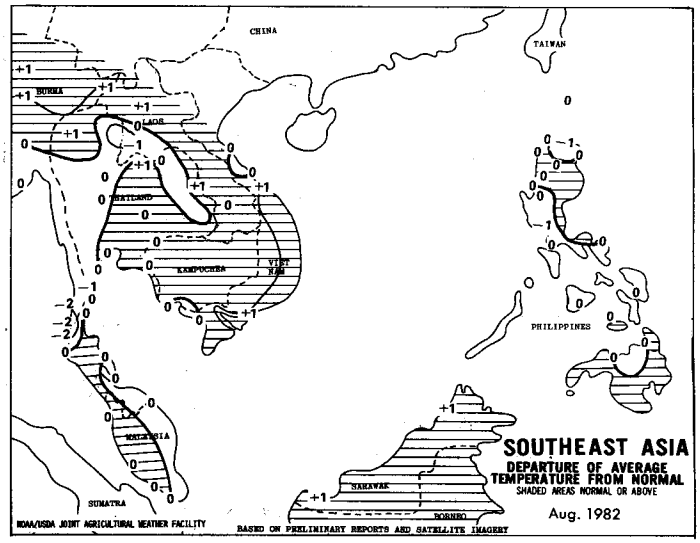


SOUTHEAST ASIA: Rainfall decreased to below normal over nearly all of Thailand. Moisture should have been adequate in most areas following the previous week's heavy rains. Some parts of the west remained unfavorably dry. August rainfall showed substantial deficits at many locations due to dryness in the first half of the month. Rains in late August and early September improved conditions. Northern parts of the country could use additional rains to bring reservoir levels up to par. Satellite imagery indicated that rainfall in Laos, Vietnam, and Kampuchea was about the same as in eastern Thailand.

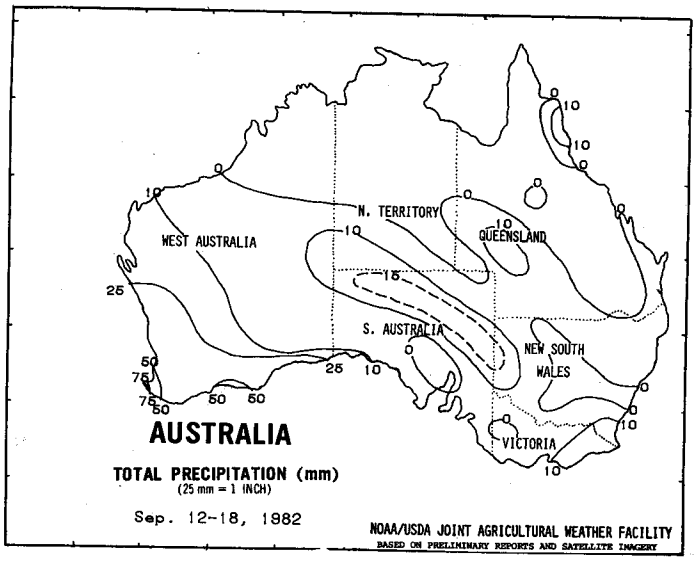


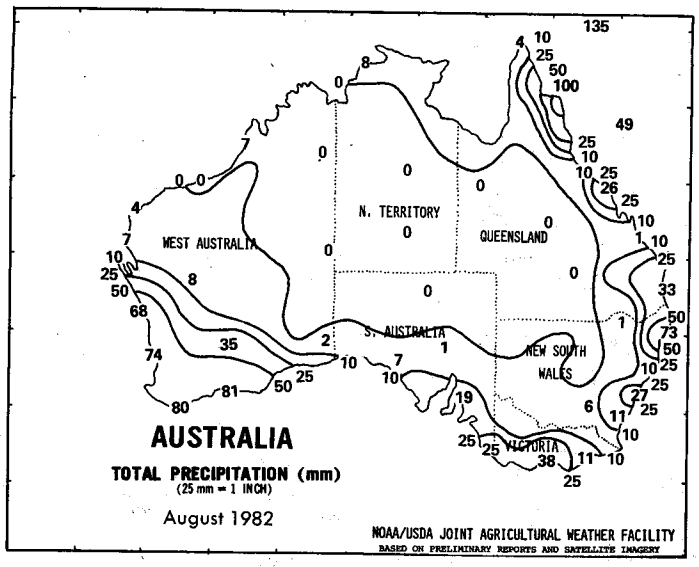


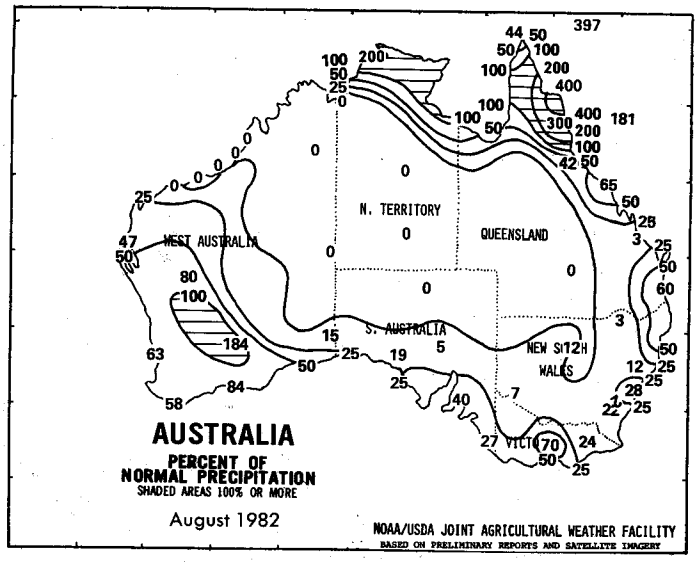


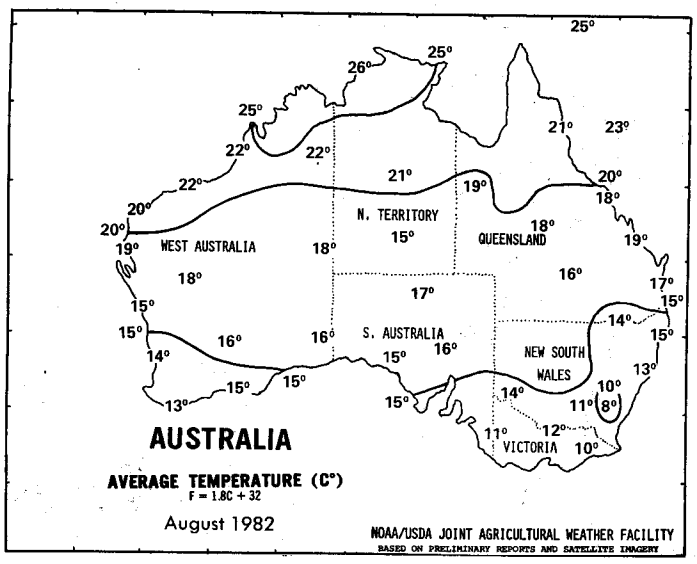


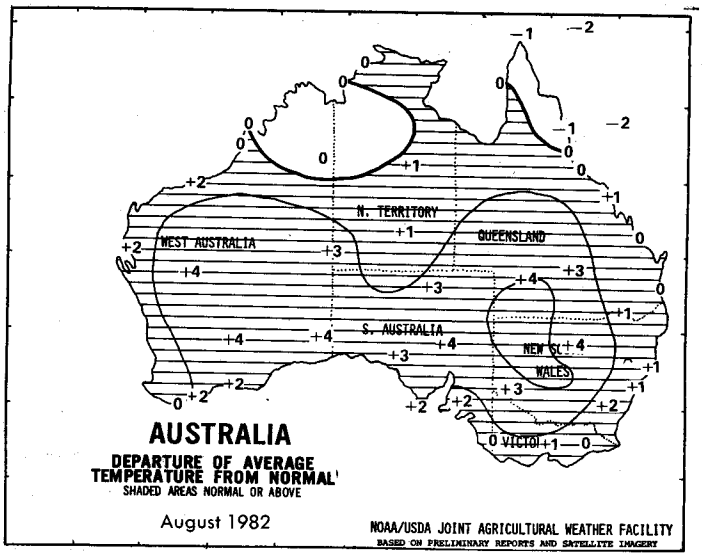
AUSTRALIA: An intense storm system produced widespread rain over crop areas of Western Australia, benefiting vegetative growth of wheat. Generally favorable August weather maintained good growing conditions for the western wheat crop. However, the severe, persistent drought continued over the remainder of the wheat belt with well-below-average rainfall and above-average temperatures causing further deterioration of agricultural conditions. The recent storm weakened considerably as it moved southeastward, bringing some showers to southern wheat areas. However, the weekly rainfall amounts provided only minimal relief to the parched croplands. Southern coastal areas are in somewhat better condition but moisture supplies are limited. Under normal conditions, wheat enters the heading period in upcoming weeks. Stunted vegetative growth and accelerated crop development due to dryness have likely forced the surviving crop into the critical reproductive stage early in desperate need of moisture.



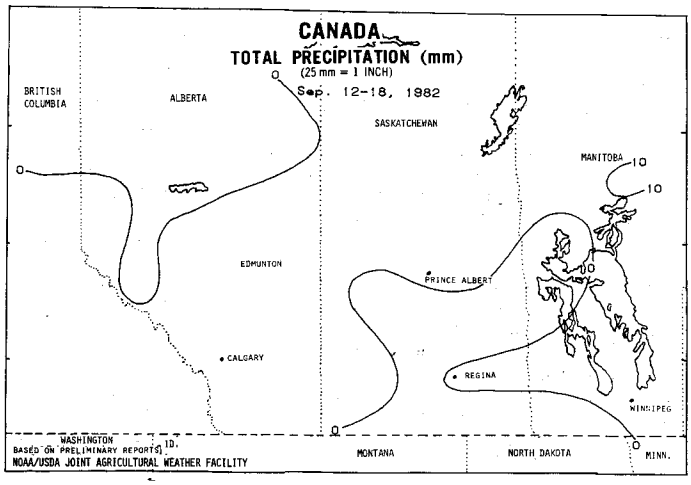


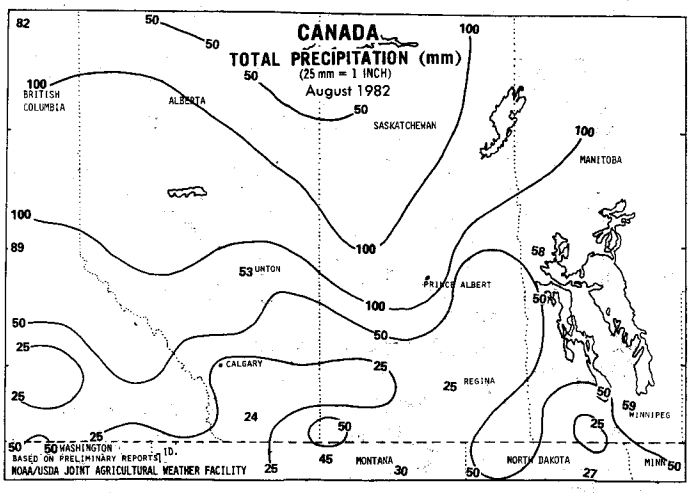


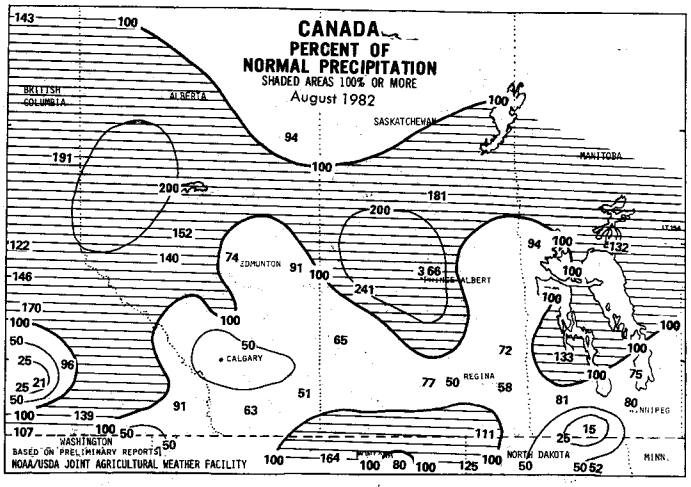


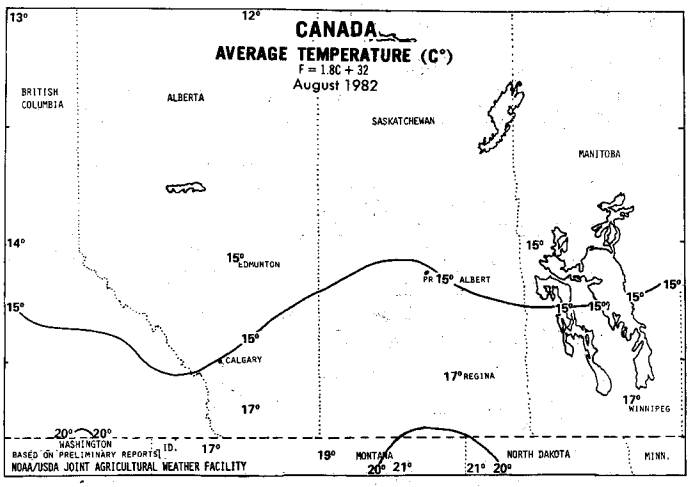


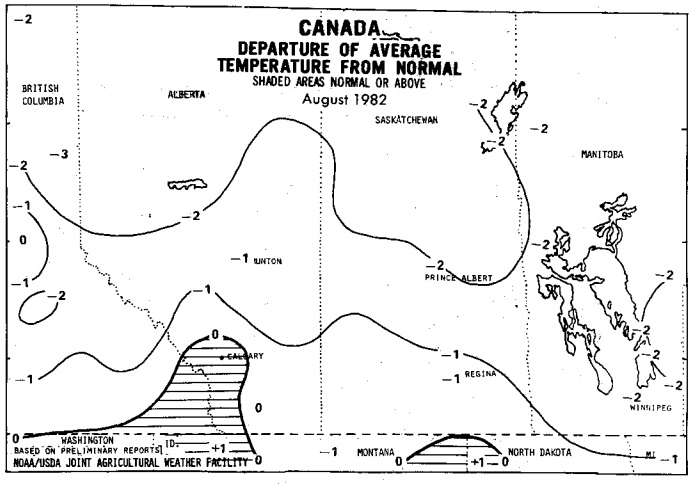
CANADA: Cold air pushed into the Prairie Provinces, producing widespread frost across the grain belt. However, mostly dry weather during the week aided harvesting of grain and oilseed crops. Above-average rainfall during August in extreme northern crop areas tended to delay maturity which, in turn, made the crop more vulnerable to frost damage during an outbreak of unseasonably cold air in late August. The quality of harvested wheat, rapeseed, and other crops in northern and eastern areas has been highly variable depending on the stage of maturity at the time of the early-season August frost. Yields and quality have been rated mostly good in southern and western crop areas where late-season weather has been more favorable. In Saskatchewan, which produces over 60 percent of Canada's spring wheat crop, the wheat is over 90 percent swathed and over 60 percent combined.



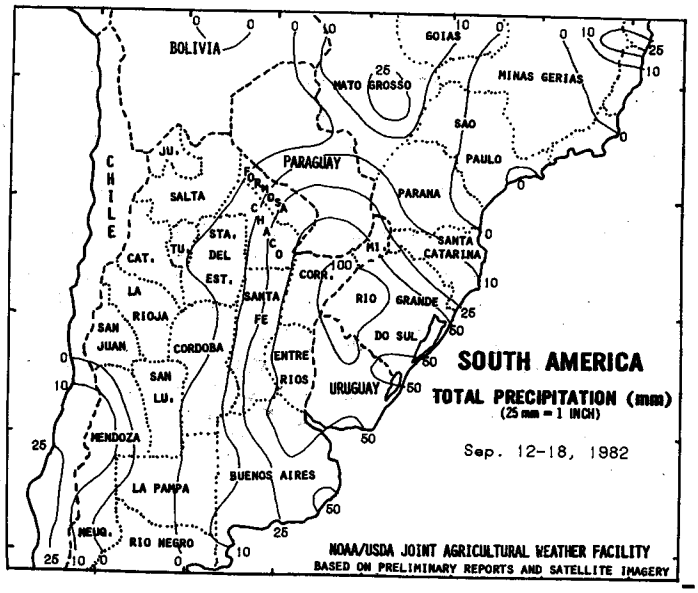


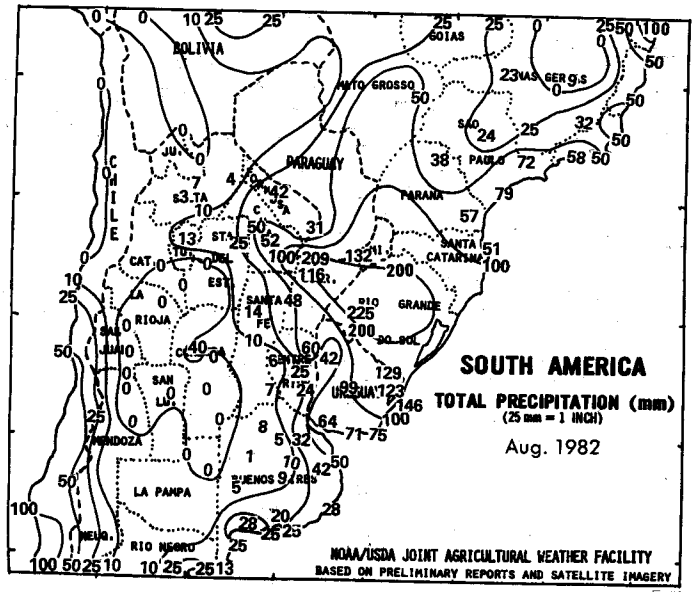


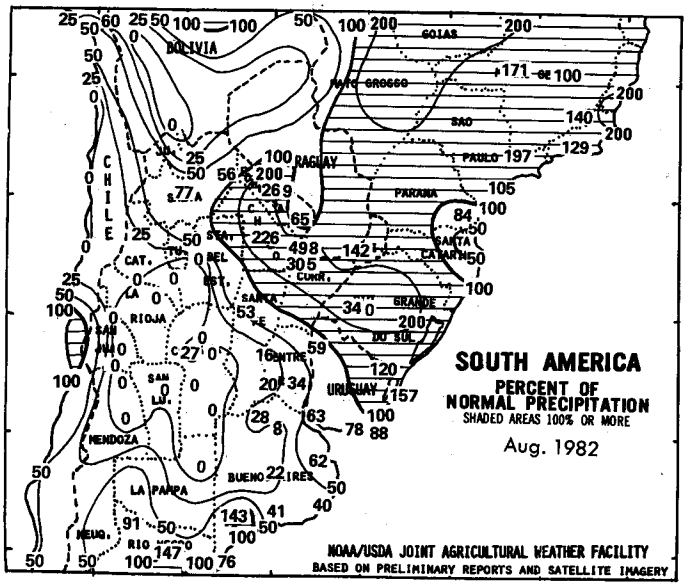


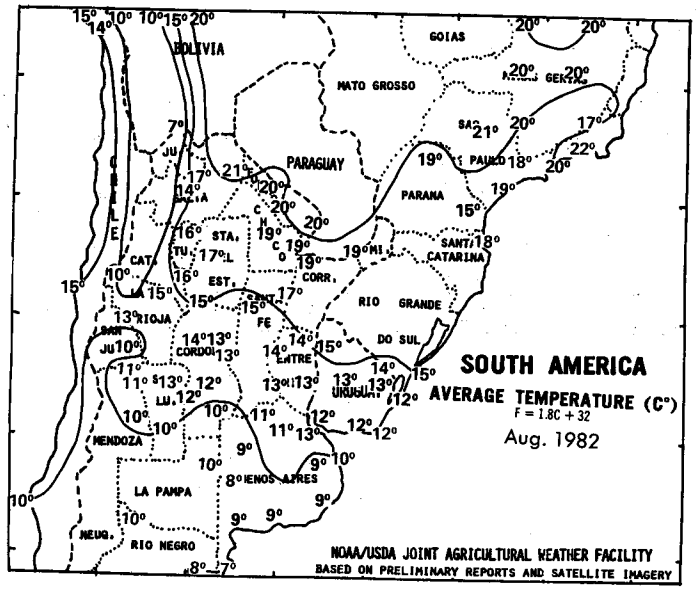


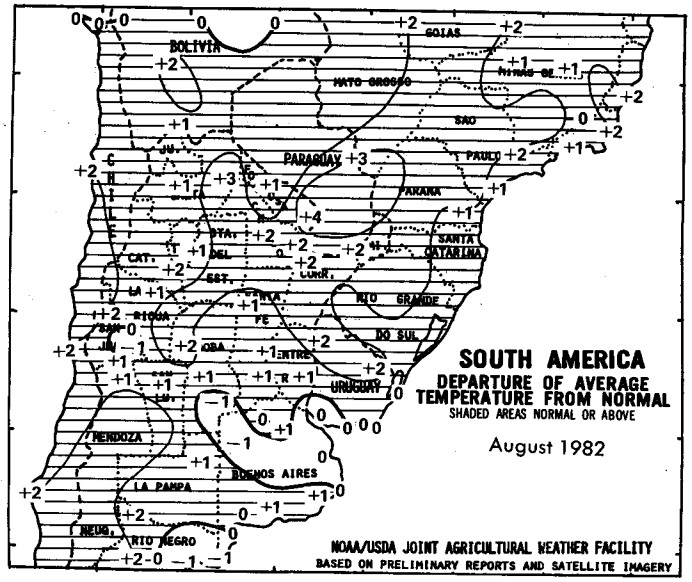
SOUTH AMERICA: A storm system brought beneficial moisture to the wheat areas of Argentina but produced excessive rainfall again in crop areas of southern Brazil. In Argentina, generally mild weather in the wheat areas since late August has promoted vegetative growth; thus, recent showers have been timely to meet increasing crop moisture demands. August rainfall was generally below average, but crop demands were also minimal during the semidormant period. In Brazil, heavy rain fell again during the week in Rio Grande do Sul where well-above-average August rainfall and higher than average monthly temperatures caused excessive weed growth, soil erosion, and fungus disease in the wheat area. Wheat should be approaching the heading stage in the south while advancing toward maturity with favorably drier conditions in Parana. Dry weather favors the orange harvest in Sao Paulo but may delay flowering of the coffee trees.



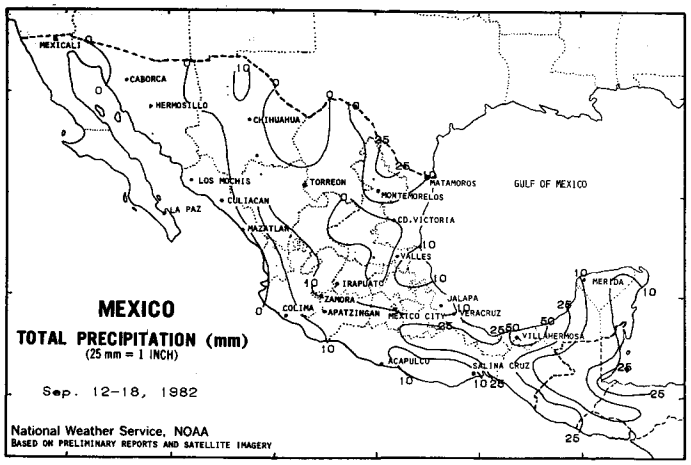


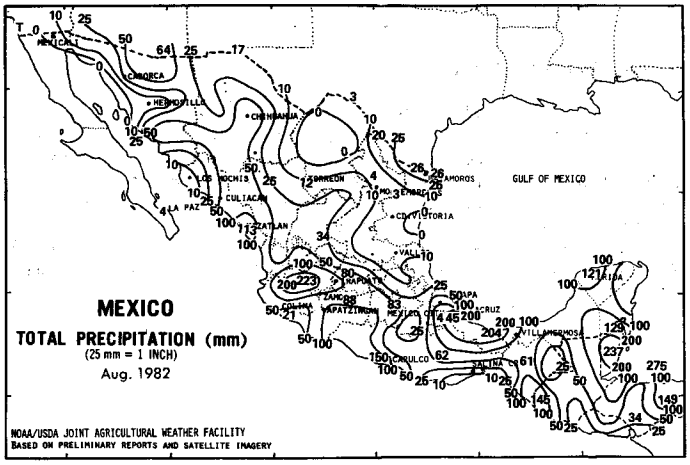


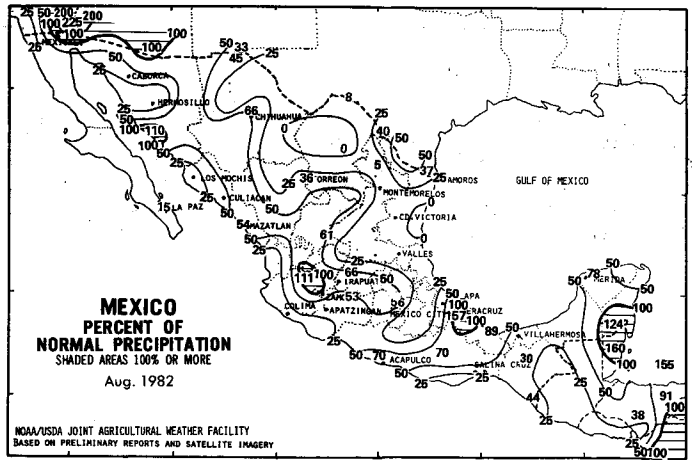


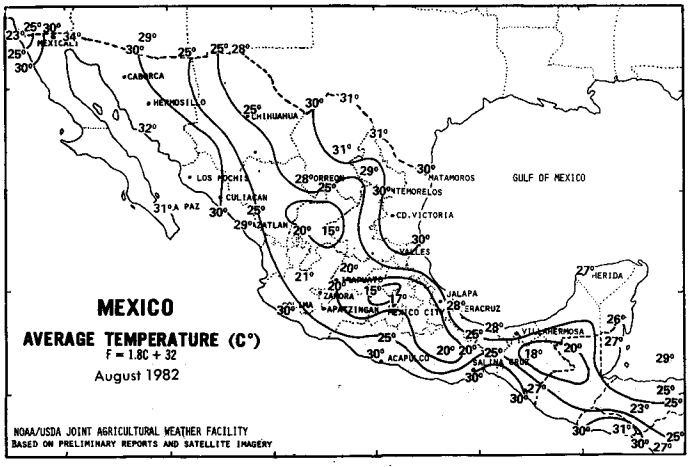


MEXICO: Drier than usual weather over the principal production areas during August and first half of September adversely affected agriculture. Immature crops, pastures and livestock were hurt, and reservoir supplies were low in the central, northeastern, and north-central regions. The summer rainy pattern has been weak over the northern two-thirds of the country. No significant rain has fallen over parts of the northeastern citrus area since May, critically stressing rainfed trees and causing a poor fruit crop. Rainfall has also been unusually light over the western mountain watersheds, causing concern for next year's water supply for crops.









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National Agricultural Summary (continued from front page)

SATURDAY . . .A cold front moving into the Southeast brought thunderstorms to the southern Atlantic coast. Cool temperatures covered the northern Plains, while record-high temperatures were set at several sites in southern Texas. Unseasonably early fall rains diminished in California and moved into Nevada and Utah.

National Weather Summary (continued from page 11)

PASTURES AND LIVESTOCK: Pastures and ranges were in fair to good condition in most areas. Texas ranges and pastures showed some improvement following recent showers, but more rain would be welcome so pastures would furnish a good supply of winter grazing. Many producers continued supplemental feeding. Livestock were rated in mostly good condition. Movement from summer grazing continued active.

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