

Weekly Weather & Crop Bulletin

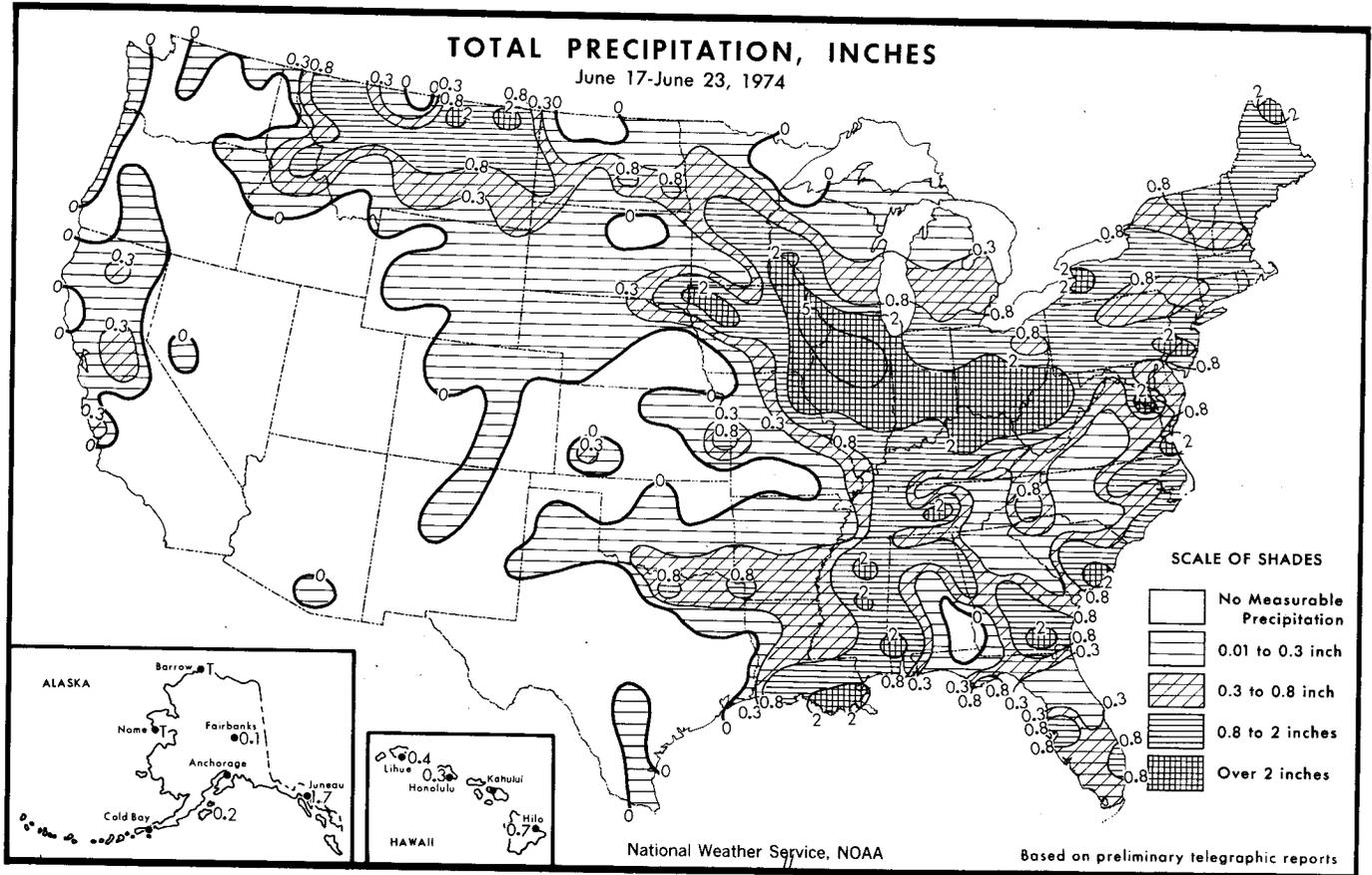
U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service

Volume 61, No. 26

June 25, 1974

Washington, D. C.



NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Severe thunderstorms drenched Minnesota, Iowa, Illinois, Indiana and Ohio with rains averaging 2.00 to 7.00 in. last week.

Hot and dry conditions continued for the second consecutive week from the Central Plains westward to the Pacific Coast. Both Havre and Glasgow, Mont., received 2.00 in. of rain, the only significant amounts in the West.

Temperatures again remained above normal from the Central Plains westward, while in the east temperatures were below normal for the week. Boise, Idaho averaged as much as 14° above normal for the week while Grand Rapids, Mich., averaged 7° below normal.

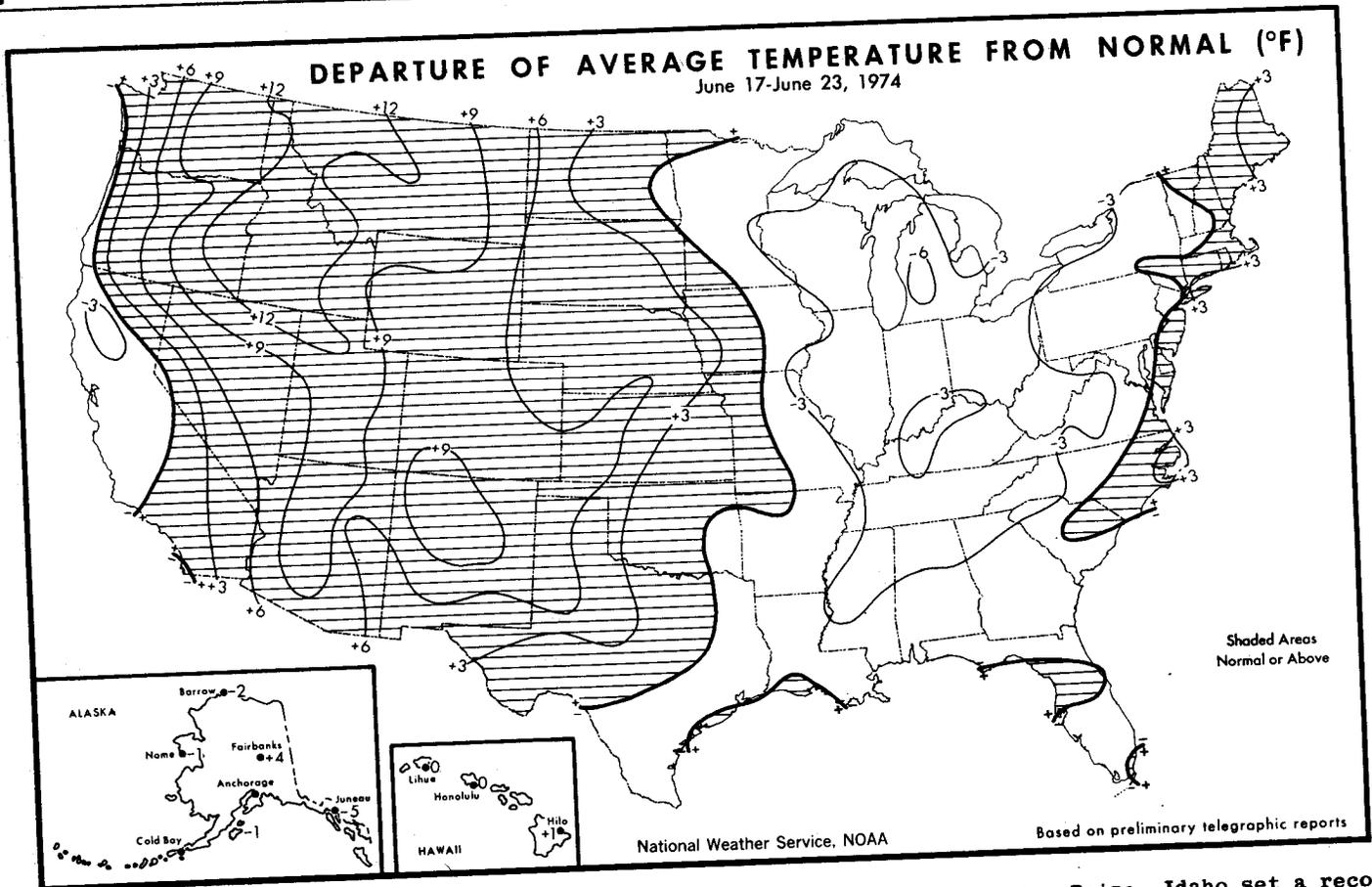
PRECIPITATION: Isolated showers dampened many sections of the Nation's eastern half last week. Rains averaging up to 2.00 in. were reported throughout the New England, Mid-Atlantic and Gulf

Coast States. East central Iowa and central Illinois received over 5.00 in.

Early in the week severe weather erupted across Florida and the Midwest. A tornado swept through Lakeland and near Tampa, Fla. Golf ball size hail struck Albert Lea, Minn., Ainsworth, Nebr., and Milbank, S.D.

Midweek a storm with 50 mph winds hit Des Moines, Iowa killing three persons, causing considerable property damage. Nearby Ames, reported baseball size hail with up to 3 ft. of water in the streets. Charles City, Iowa received 2.50 in. of rain in only a half hour.

Thursday, a frontal system extending from the New England Coast into South Dakota and Montana triggered thunderstorms that produced winds over 60 mph and tornadoes. Tornadoes were reported in Illinois, Iowa and Indiana. During the storm, Great Falls, Mont., got over 1.50 in. rain.



Holland, Mich., received 1.40 in. of rain in one hour.

Saturday, severe thunderstorms again hit the North Central U.S. Hail, damaging winds, and tornadoes accompanied the heavy storms in South Dakota, Nebraska, Iowa, and northern Illinois.

By afternoon, thunderstorms had left heavy amounts of rain from the middle Mississippi Valley to the central Appalachians. Local amounts over 4.00 in. caused flooding of some rivers in Iowa and northern Illinois. Wind gusts from 60 to 70 mph accompanied the rains in several parts of northwest Illinois.

By afternoon thunderstorms continued from the lower Mississippi Valley to the Mid-Atlantic coast. Sunday afternoon severe thunderstorms hit the southern Atlantic Coast. The Newport News-Hampton Roads area of Virginia received 2.25 in. of rain and hail 2 in. in diameter with gusts up to 60 mph.

TEMPERATURE: Above normal temperatures dominated the Nation from the Central Plains westward last week. Temperatures averaged as much as 14° above normal at Boise, Idaho; 13° at Kalispell, Mont.; and 12° at Salt Lake City, Utah. Meanwhile, the eastern half of the Nation reported temperatures averaging as much as 5° to 7° below normal.

Monday was hot over much of the Nation west of the Divide. A number of readings topped the 110°

in the Desert Southwest. Boise, Idaho set a record of 105°. In contrast, South Bend, Ind., reached only 62°, the lowest maximum temperature on record for June 17.

Midweek, temperatures again soared above the 100° mark from the Central Plains through the southern Rockies, the Desert Southwest, and southern Idaho. Albuquerque, N.M., hit 103°, the hottest June 19 in 43 years. New daily records were set at Lincoln, Nebr., with 103°, and Colorado Springs, Colo., with 101°.

On Thursday, most parts of the Country were sunny and warm. The heat wave in the northern and central Plateau Region of the previous several days broke with most places only in the 70's and 80's. New records were set in Rapid City and Sioux Falls, S.D., and Pueblo, Colo.

On Friday an unusual weather phenomena occurred at Grand Island, Nebr., when the temperature rose to 97° at 2:00 a.m.

Saturday, temperatures topped the 100° mark in the southern portions of the Plateau and Rocky Mountain regions. The hottest spot was 117° at Buckeye, Ariz. However the Great Lakes region was unseasonably cool. Milwaukee, Wis., recorded a high of only 57°.

Sunday, most points in the Northwest U.S. were in the 80's, while the southwestern sections were in the 90's and 100's. The Pacific Coast remained cool with temperatures in the 50's and 60's.

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Winter wheat crop maturity advanced rapidly, harvest ahead of 1973 in Texas, Oklahoma, and Kansas. Soybean planting in Corn Belt gains momentum and is 81% complete, slightly behind 1973 at 85% and normal 93%. Corn planting nears completion, Indiana and Illinois lag at 95%. Rain in Eastern States slow haying operations, Western States continue dry.

SMALL GRAINS: Winter wheat harvest was in full swing in Texas, Oklahoma, and Kansas. Texas is 86% complete, more than double last year. Oklahoma is nearing completion, two weeks ahead of 1973; Kansas harvest advanced to 35%, compared with 5% last year and 20% normal. Missouri has cut 17% of the winter wheat and Colorado has just started. Hot weather advanced crop maturity in Nebraska where 85% of the wheat has turned, normal 70%. Spring wheat planting is in final stages in Minnesota and North Dakota. Oats remain in good condition with harvest advancing in Southern States. Texas is 98% done, Georgia 91%, South Carolina 92%, Tennessee 60%, and Oklahoma nearly complete. Stage of oat maturity in other States: Iowa 76% headed, South Dakota 50%, and Wisconsin 5%.

CORN: Corn planting in Illinois and Indiana were hampered by rain but is 95% complete. Corn Belt planting was virtually complete June 23. Iowa corn has nearly all emerged but heavy rains and erosion have reduced stands in parts of State. Corn development has a wide range: late plantings just emerging, Michigan and Indiana 7 in. high; Ohio 15 in.; and southern Nebraska to 3 ft. Illinois farmers replanted 15% of crop. Condition fair to excellent with most areas good. Cultivating and spraying with control fair to good. Early acreages in southern Corn Belt cultivated for last time and laid by. Soil moisture is adequate in western Corn Belt and adequate to surplus in east.

COTTON: Cotton planting advanced only 2 points in Texas and is now 94% complete, compared with 99% last year. The remaining acreage up to stand made excellent progress. The Oklahoma and Arkansas crops are up to 92% stand. California's crop is in good condition and farmers are irrigating and cultivating. Arizona crop good condition with favorable weather. The Yuma area is flowering and setting bolls but heat stress is showing in Salt River Valley. Tennessee's crop is behind normal with 10% of the acreage squaring, average is 30%. Alabama and Louisiana crops growing rapidly with very little insect damage.

SOYBEANS: Soybean planting gained momentum in the Corn Belt and is now 81% complete. Last year 85% was planted and normal is 93%. Missouri, Illinois, Indiana, and Kansas short of last year and averaged with 65%, 70%, 75% and 75% respectively. Illinois replanted 10% of acreage and soybean condition is fair to good. Soybean planting in Arkansas made good progress but current 48% lags far behind 1973's 84%. Many stands in low-lying areas to be replanted. Grass and weeds a problem with cultivation and herbicide application ac-

tive. Louisiana planting at 80% complete, same as last year; wet weather in northeast holding up completion. Kentucky planting is active with 40% acreage in.

OTHER CROPS: Sorghum planting made excellent progress in the major producing States. Oklahoma in final stages and one week ahead of last year. Texas now 90% done, slightly behind 96% last year. Kansas plantings advanced to 85%, 5 points ahead of last year and normal. Nebraska's crop is good to excellent. Haying active in all areas but wet weather Eastern States was poor for downed hay. Tobacco transplanting nearing completion in Virginia. Flue-cured cultivated, top-dressed, and laid by. North Carolina flue-cured tobacco in fair condition, blooming too early in some areas. Burley set and in good condition. Kentucky burley in good condition and growing well. Hot weather in east Idaho aided potato emergence to 80%. Some potatoes in north Aroostook County washed out, other Maine areas emerging. Sugarbeets good to excellent condition in Colorado and California. Colorado's crop is 82% thinned. Nebraska's beets are 85% thinned; some lost to drought, late freeze, hail, and wind.

FRUIT: Peach harvest advanced to 33% complete North Carolina and is active in Alabama, Georgia, Kentucky, and Texas. Sweet cherry picking increasing in New York. June drop for most apples in western New York was heavy. Hail June 15 seriously damaged all tree fruit in parts of southwestern Michigan. California nut crop good; almonds sizing well, walnuts some wind damage. Cherry, nectarine, plum, and peach harvests normal. June navel drop started but light. Valencia orange picking active; size, quality good.

VEGETABLES: Strawberry picking increasing in Michigan, New York, and Oregon. Harvest of asparagus nearing completion in Michigan and New York. Sweet corn harvest continues strong in southern California with Kern County starting. Market tomato harvest continues in southern California, getting underway central areas. Onion harvest in San Joaquin Valley active, tapering off in Arizona and Pecos Texas area. Celery, peppers, and cucumber supply from Florida rapidly declining volume. Season practically over for tomatoes, snap beans, and potatoes.

PASTURE AND LIVESTOCK: Pasture and range conditions good to excellent in the Eastern States and poor to fair in the West. Montana and North Dakota got significant amounts of precipitation that helped conditions. Fire hazards from the dry conditions are extreme in most Western States. Supplemental feeding is increasing in California where ranges are deteriorating. Livestock are in generally good condition. Movement from lower to higher elevations continues. Marketing of cattle and sheep slow with depressed prices. Ticks and flies a problem across Nation with control measures being taken. Stockwater is adequate in most areas but supplies are being depleted.

June 23, 1974

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t.,

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	75	- 3	.1	-.9	La. Baton Rouge . . .	80	- 1	.9	- 0	Youngstown . . .	65	- 3	1.2	+.4
Mobile . . .	79	- 2	1.4	-.1	Lake Charles . . .	82	+ 1	1.0	-.2	OKLA. Okla. City . . .	79	+ 1	T	-.9
Montgomery . . .	78	- 2	0	- 1.0	New Orleans . . .	79	- 2	2.2	+ 1.0	Tulsa . . .	80	+ 1	T	- 1.1
ALASKA. Anchorage . . .	---	---	---	---	Shreveport . . .	80	- 1	T	-.7	OREG. Astoria . . .	57	0	T	-.6
Barrow . . .	33	- 2	T	-.1	MAINE. Caribou . . .	64	+ 3	2.2	+ 1.4	Burns . . .	72	+12	T	-.2
Fairbanks . . .	64	+ 4	.1	-.3	Portland . . .	66	+ 2	2.0	+ 1.3	Medford . . .	69	+ 4	T	-.2
Juneau . . .	49	- 5	1.7	+ 1.0	MD. Baltimore . . .	72	- 1	.6	-.3	Pendleton . . .	67	+ 4	0	-.4
Kodiak . . .	50	- 1	.2	-.8	MASS. Boston . . .	70	+ 1	1.0	+.3	Portland . . .	64	+ 2	0	-.3
Nome . . .	46	- 1	T	-.2	Chatham . . .	63	---	1.7	---	Salem . . .	69	- 2	1.1	+.3
ARIZ. Flagstaff . . .	70	+11	0	-.2	MICH. Alpena . . .	60	- 2	.2	-.5	PA. Allentown . . .	63	- 3	1.8	+ 1.0
Phoenix . . .	96	+10	0	-.1	Detroit . . .	66	- 4	.5	-.3	Erie . . .	72	- 1	1.4	+.7
Tucson . . .	90	+ 7	T	0	Flint . . .	64	- 3	.5	-.3	Harrisburg . . .	74	0	2.3	+ 1.4
Winslow . . .	79	+ 6	T	-.1	Grand Rapids . . .	62	- 7	.6	-.2	Philadelphia . . .	67	- 3	1.2	+.4
Yuma . . .	93	+ 6	0	-.1	Houghton Lake . . .	60	- 4	.1	-.7	Pittsburgh . . .	66	- 3	.7	-.1
ARK. Fort Smith . . .	77	- 2	.1	-.8	Lansing . . .	63	- 5	.6	-.2	Scranton . . .	70	+ 2	2.0	+ 1.4
Little Rock . . .	78	- 1	.3	-.5	Marquette . . .	58	- 4	.1	-.7	R.I. Providence . . .	77	- 2	2.7	+ 1.1
CALIF. Bakersfield . . .	78	0	0	-.1	Muskegon . . .	62	- 5	.4	-.2	S.C. Charleston . . .	80	0	1.4	+.5
Eureka . . .	54	- 2	.1	0	S. Ste. Marie . . .	58	- 2	.1	-.7	Columbia . . .	74	- 3	.6	-.4
Fresno . . .	74	- 1	0	0	MINN. Duluth . . .	59	- 1	T	- 1.1	Greenville . . .	69	+ 2	T	-.9
Los Angeles . . .	71	+ 2	0	0	Internatl Falls . . .	62	0	T	- 1.0	S.D. Aberdeen . . .	78	+ 9	.1	-.8
Red Bluff . . .	73	- 4	.1	0	Minneapolis . . .	65	- 2	2.6	+ 1.5	Huron . . .	71	+ 5	.1	-.8
San Diego . . .	66	0	0	0	Rochester . . .	64	- 2	.9	-.2	Rapid City . . .	70	+ 1	.9	-.1
San Francisco . . .	61	- 1	.1	+.1	St. Cloud . . .	77	- 3	.4	-.4	Sioux Falls . . .	71	+ 1	.2	-.7
Stockton . . .	73	0	.3	+.3	MISS. Jackson . . .	78	- 2	1.2	+.3	TENN. Chattanooga . . .	73	- 3	.2	-.7
COLO. Denver . . .	74	+ 7	T	-.4	Meridian . . .	72	- 2	.3	-.7	Knoxville . . .	78	- 2	.1	-.7
Grand Junction . . .	80	+ 7	0	-.1	MO. Columbia . . .	72	- 2	.3	-.7	Memphis . . .	75	- 3	.3	-.5
Pueblo . . .	79	+ 7	T	-.3	Kansas City . . .	76	+ 1	T	- 1.3	Nashville . . .	86	+ 5	0	-.6
CONN. Bridgeport . . .	73	+ 4	1.4	+.8	St. Louis . . .	73	- 3	.9	-.2	TEX. Abilene . . .	82	+ 6	.1	-.7
Hartford . . .	70	+ 1	.8	0	Springfield . . .	79	+ 4	T	- 1.1	Amarillo . . .	83	0	T	-.7
D.C. Washington . . .	74	- 2	.8	0	MONT. Billings . . .	74	+10	.5	-.1	Austin . . .	81	- 1	T	- 1.1
FLA. Apalachicola . . .	82	+ 1	1.0	-.4	Glasgow . . .	72	+ 9	1.8	+ 1.1	Beaumont . . .	81	- 2	.2	-.5
Daytona Beach . . .	80	0	.1	- 1.6	Great Falls . . .	74	+12	.9	+.2	Brownsville . . .	81	- 1	T	-.6
Ft. Myers . . .	81	- 1	.7	- 1.5	Havre . . .	74	+11	T	-.6	Corpus Christi . . .	82	- 1	T	-.6
Jacksonville . . .	79	- 1	.3	- 1.3	Helena . . .	70	+10	.2	-.4	Del Rio . . .	85	0	0	-.5
Key West . . .	82	- 2	.4	-.7	Kalispell . . .	71	+13	1.3	+ .5	El Paso . . .	85	+ 4	T	-.2
Lakeland . . .	80	0	1.6	-.1	Miles City . . .	74	+ 8	.5	-.3	Fort Worth . . .	83	+ 1	0	-.7
Miami . . .	82	+ 1	.4	- 1.8	Missoula . . .	72	+12	.8	+.3	Galveston . . .	83	+ 1	.2	-.8
Orlando . . .	82	+ 1	.1	- 1.7	NEBR. Grand Island . . .	77	+ 5	0	- 1.1	Houston . . .	82	0	T	- 1.0
Tallahassee . . .	79	- 2	.2	- 1.5	Lincoln . . .	79	+ 6	0	- 1.2	Lubbock . . .	85	+ 7	T	-.6
Tampa . . .	81	0	1.1	-.6	Norfolk . . .	74	+ 3	0	- 1.2	Midland . . .	84	+ 3	0	-.3
W. Palm Beach . . .	80	- 1	1.1	-.9	N. Platte . . .	72	+ 3	.1	-.8	San Angelo . . .	85	+ 2	0	-.4
GA. Atlanta . . .	74	- 3	.2	-.7	Omaha . . .	76	+ 4	0	- 1.2	San Antonio . . .	82	- 1	.1	-.5
Augusta . . .	77	- 2	.2	-.7	Valentine . . .	71	+ 3	.1	-.1	San Antonio . . .	83	0	0	-.7
Macon . . .	78	- 2	1.0	+.1	NEV. Ely . . .	66	+ 7	0	-.2	Victoria . . .	85	+ 2	0	-.6
Savannah . . .	79	- 1	.4	- 1.0	Las Vegas . . .	89	+ 5	0	0	Waco . . .	85	+ 2	T	-.7
HAWAII. Hilo . . .	76	+ 1	.7	-.8	Reno . . .	63	0	T	- 1.1	Wichita Falls . . .	75	+ 2	0	-.1
Honolulu . . .	79	0	.3	+.2	Winnemucca . . .	72	+ 9	0	-.2	UTAH. Blanding . . .	79	+12	0	-.3
Kahului . . .	---	---	---	---	N.H. Concord . . .	66	0	.4	-.4	Salt Lake City . . .	79	+12	0	-.3
Lihue . . .	78	0	.4	0	N.J. Atlantic City . . .	73	+ 2	.9	+.1	VT. Burlington . . .	67	0	1.3	+.5
IDAHO. Boise . . .	80	+14	T	-.2	Trenton . . .	74	+ 1	1.4	+.6	VA. Lynchburg . . .	70	- 4	.1	-.7
Lewiston . . .	78	+12	.1	-.3	N.MEX. Albuquerque . . .	86	+10	.2	+.1	Norfolk . . .	78	+ 2	3.3	+ 2.4
Pocatello . . .	72	+ 9	T	-.3	Roswell . . .	84	+ 6	---	---	Richmond . . .	73	- 2	.4	-.4
ILL. Cairo . . .	76	- 3	.5	-.5	N.Y. Albany . . .	67	- 2	1.5	+.8	Roanoke . . .	71	- 2	T	-.8
Chicago . . .	68	- 4	3.1	+ 2.1	Binghamton . . .	66	0	.7	-.1	WASH. Colville . . .	72	+10	T	-.4
Moline . . .	70	- 2	5.3	+ 4.2	Buffalo . . .	64	- 3	2.1	+ 1.6	Omak . . .	76	+11	T	-.3
Peoria . . .	68	- 5	7.1	+ 6.2	New York . . .	73	0	1.3	+.6	Quillayute . . .	56	0	T	-.8
Rockford . . .	67	- 3	2.2	+ 1.1	Rochester . . .	65	- 3	1.1	+.5	Seattle-Tacoma . . .	65	+ 4	T	-.4
Springfield . . .	70	- 4	2.1	+ 1.1	Syracuse . . .	65	- 3	1.7	+ 1.0	Spokane . . .	72	+10	T	-.3
IND. Evansville . . .	73	- 3	1.4	+.6	N.C. Asheville . . .	68	- 4	1.3	+.3	Walla Walla . . .	78	+10	T	-.3
Ft. Wayne . . .	68	- 3	.9	0	Charlotte . . .	74	- 3	.2	-.7	Yakima . . .	75	+10	0	-.2
Indianapolis . . .	69	- 4	2.5	+ 1.5	Greensboro . . .	73	- 2	.3	-.7	W. Va. Beckley . . .	64	- 5	.7	-.3
South Bend . . .	67	- 3	1.9	+ 1.0	Hatteras . . .	79	+ 4	1.8	+.6	Charleston . . .	69	- 4	2.7	+ 1.9
IOWA. Burlington . . .	68	- 5	3.2	+ 2.1	Raleigh . . .	75	0	1.0	+.1	Huntington . . .	70	- 3	2.2	+ 1.4
Des Moines . . .	73	+ 1	.7	-.4	Wilmington . . .	78	0	1.2	-.2	Parkersburg . . .	68	- 5	3.2	+ 2.2
Dubuque . . .	66	- 3	3.4	+ 2.1	N.DAK. Bismarck . . .	66	+ 1	T	-.9	Parkersburg . . .	61	- 5	.3	-.5
Sioux City . . .	75	+ 3	.7	-.4	Fargo . . .	65	- 1	.4	-.4	WIS. Green Bay . . .	68	- 5	3.3	-.5
KANS. Concordia . . .	82	+ 7	T	-.8	Williston . . .	70	+ 6	.1	-.7	La Crosse . . .	66	- 4	1.4	+.3
Dodge City . . .	75	+ 4	T	-.7	OHIO. Akron-Canton . . .	66	- 4	.6	-.2	Madison . . .	64	- 3	.5	+.6
Goodland . . .	76	+ 1	.3	- 1.1	Cincinnati . . .	70	- 3	3.6	+ 2.7	Milwaukee . . .	61	- 5	.8	-.1
Topeka . . .	79	+ 2	T	- 1.1	Cleveland . . .	66	- 3	1.2	+.4	WYO. Casper . . .	71	+ 8	T	-.3
Wichita . . .	70	- 4	3.2	+ 2.2	Columbus . . .	68	- 4	2.2	+ 1.2	Cheyenne . . .	69	+ 6	.2	-.4
KY. Lexington . . .	70	- 4	T	+.2	Dayton . . .	68	- 5	2.8	+ 1.9	Lander . . .	71	+ 8	.1	-.3
Louisville . . .	72	- 2	1.0	+.1	Toledo . . .	65	- 5	1.4	+.6	Sheridan . . .	73	+11	T	-.7
										P.R. San Juan . . .	84	+ 3	.2	- 1.1

Based on 1941-70 normals.

CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

ALABAMA: Warmest week of the year with temperatures low 90's June 19-22; 95° two separate days at Anniston. One inch rains across the Tennessee Valley weekend. Dry weather continued in southeast where soil temperatures averaged from maximums in the 90's to minimums in the 70's.

Good progress cultivating and applying herbicides to row crops. Soybean planting, putting up hay and wheat harvest made advancement. Cotton squaring freely many fields. Insect scouting underway most areas but no build-up reported. Corn silking 33%. Peanuts made favorable growth but some acreage needs additional moisture. Plants pegging in many fields. Less than 10% expected soybean acreage remains to be planted, most to follow small grains. Wheat harvest active over State. Combining 75% complete compared with 50% year earlier. Open weather enabled farmers to save much good quality hay.

ALASKA: Light precipitation during the week. Precipitation remained below normal except for Kodiak which received 2.04 in. rain during week. Temperatures averaged about normal with the max temperatures just below normal and minimum temperatures just above normal.

Soil moisture supply remains short in all agricultural areas. Hay harvest underway in Palmer area. Harvest of early vegetables for market continues. Crop conditions fair to average.

ARIZONA: Record breaking hot, dry weather continued. Scattered thunderstorms over White Mountains, southeast 23rd brought mostly under 0.05 in. rain. Isolated, mostly dry thunderstorms earlier in week, lightning caused forest fires. Record heat raised maximums to 90's in mountains, 119° southwest deserts. Minimums 40's and 50's in mountains, 80's in deserts.

Cotton good condition, weather favorable. Heat stress showing Salt River Valley. Yuma crop flowering and setting bolls. Small grains at midharvest, yields about average. Many fields harvested in Yuma area being prepared for second crops. Sorghum progress varies. Early safflower reaching maturity Yuma County. Sugarbeets mostly harvested, Yuma. Third cutting alfalfa hay underway some areas. Harvest cantaloups full volume. Watermelon harvest underway Yuma area. Potato harvest still in progress, central areas. Dry onion harvest tapering off. Grape harvest continued full swing. Picking Valencia oranges complete Salt River Valley, winding down Yuma area. Harvest ruby and white grapefruit active. Poor conditions ranges northern mountains. Lower elevations very poor due high temperatures, lack of moisture. Livestock in higher ranges fair to good. Other areas livestock poor to fair. Supplemental feeding required many areas. Very little stock water available.

ARKANSAS: Near to below normal temperatures. Humid with warming trend through week, cooler and drier weekend. Sparse rainfall most of state, especially northern one-third and western border. Scattered showers early week and on weekend with amounts ranging from 0 to 1.44 in.

Weather ideal for plant growth. Fieldwork active. Fuel supplies adequate, fertilizer scarce. Additional warm, dry weather needed for cotton,

92% up to acceptable stand. Cotton in fair condition. Squaring common. Herbicides being applied. Rice development good, condition good. Soybeans 48% planted, last year 84%. Many low-lying areas to be replanted. Grass and weed problems. Cultivation and herbicide application active. Harvest of wheat and oats active. Yields below average: wheat harvested 83%, oats 86%. Corn tasselling. Sorghum planting continued. Hay cutting resumed. Harvest of peaches, cucumbers, tomatoes and squash continued. Cattle in good condition. Fly and tick problems.

CALIFORNIA: Thundershowers from a cold weather disturbance produced relatively large amounts of rainfall over the Northern San Joaquin Valley, and the Sacramento Valley: Totals a little over 0.60 in. The cold weather system lowered average temperatures by 1-2° except the south coast and southeastern desert areas. Southern interior temperatures continued well above normal with 100° plus almost a daily occurrence.

Locally heavy showers damaged grain crops, Sacramento region. Harvest slowed. Northern regions dry, grain heading short. Double-cropping milo, beans continues central regions. Sugarbeet, safflower crops doing well. Rice crops doing well, weed control continues. Haying full swing. Favorable conditions for dry beans. Cotton good, irrigating, weeding. Almonds good, continue to size well. Walnuts normal, some wind damage. Thinning apples, complete some areas. Pears developing normally. Apricot harvest varies,-- light yields reported most areas. Nectarine, plum, peach harvest continues seasonal levels. Prunes good snap. Cherry harvest progressing normally, complete in Stockton, Riverside. Perlette grape harvest complete Coachella Valley, Thompson seedless harvest increasing. Black mission figs being picked, Visalia. Valencia orange picking active, sizes, quality good. June drop Navels started but light. Grapefruit harvest continues. Avocado harvest over Riverside but increasing Santa Barbara. Broccoli moderate Salinas, Santa Maria. Cauliflower heavy Salinas, moderate Santa Maria. Carrot continues Kern, increasing Salinas. Celery slightly heavier Oxnard, increasing Salinas. Sweet corn continues southern California--Kern County underway current week. Lettuce light central coast. Dry onion continues San Joaquin Valley. Green pepper underway San Joaquin. Potato digging Kern continues heavy. Rain impaired strawberry quality Salinas. Market tomato harvest continues Imperial Valley, increasing San Diego, picking underway San Joaquin. Processing tomato started Imperial. Watermelon continues desert. Livestock good condition. Supplemental feeding increasing rangelands, pastures dry, feed value declines. Movement sheep, grain stubble increasing San Joaquin Valley. Water supplies adequate, areas expect decreased supplies ahead. Cattle to sales slow, operators watching for break in market. Bee colonies San Joaquin Valley being moved melon, seed alfalfa for pollination. Second crop turkeys doing well. Some birds placed range soon. Milk, egg production seasonally normal.

COLORADO: Much of week hot and dry with record temperatures east 19th through 21st. Weekly

mean temperatures 4 to 7° above normal. Temperatures near 100° common east, with highest 106° at La Junta and Lamar on 20th. Cooling spread over the east 22nd with daily maximums 9 to 16° cooler. Most precipitation occurred beginning of the week and confined to mountains and east portion. Western valleys were dry throughout the week. Heaviest precipitation was in the southeast with heavier amounts ranging from 0.10 to 0.40 in.

Winter wheat 2% harvested, 9% ripe--most good condition. Winter barley 2% harvested, 10% ripe. Oats fair to good condition. Spring barley and corn good to excellent condition. Corn final cultivation made 27% acreage. Sorghum 88% planted, 73% emerged--most good condition. Sugar beets good to excellent condition--82% thinned. Dry beans 96% planted, 73% emerged--good to excellent condition. Fall potatoes 85% emerged. Summer and fall potatoes very good condition. First cutting alfalfa 5% complete. Range and pasture poor to fair condition San Luis Valley and southwest, fair to good other areas.

FLORIDA: Monday through Sunday, June 17 through June 23, 1974: Warm days, mild nights, temperatures averaged near normal. Rainfall generally moderate with only a few stations reporting little or no precipitation.

Soil moisture adequate north and south counties, short all others. Crops in good condition. Corn making good progress, but more rain needed. Soybean planting nearing completion. Tobacco harvest active. Cured tobacco appears to be of good quality. Peanuts in good condition. Sugarcane, sorghum and millet making good progress. Pastures very poor to good condition. Cattle and calves fair to good condition. Citrus tree condition continues excellent. New crop fruit progressing well. Sizes good. Harvest Valencias and grapefruit slowing. Supplies limited. Vegetable season rapidly moving to completion. Eggplant continues in good supply. Celery, peppers, and cucumbers available in rapidly declining volume. Season practically over for tomatoes snapbeans and potatoes.

GEORGIA: Temperatures 3° to 6° below normal. Mean temperature 65° north in mountains to 78° south. Scattered thundershowers through week. Less than 0.50 in. north, and 0.50 to 1.50 in. central and south and locally in excess of 3.00 in. Scattered thundershowers over weekend, mostly south. Cooler north June 30.

Soil moisture ranged from short to adequate. Cotton mostly good condition, 60% squaring, 24% setting bolls. Insecticide applications continued active. Corn condition good. Tobacco good to excellent, 15% harvested. Peanuts good with heavy pesticide application. Soybeans 90% planted. Sorghums 80% planted. Wheat 93%, oats 91% harvested. Peaches remain poor to fair with harvesting of short crop active. Pastures in good condition and haying active. Cattle good condition. Truck crops mostly good with heavy volume moving to market.

HAWAII: Growing condition generally fair to good throughout state. Irrigation heavy use because dry weather. Spraying intensified increase insect infestations. Supplies of vegetables adequate. Banana production continues low level. Papaya production still heavy. Cattle condition good. Pastures in leeward, areas beginning to brown. Sugar and pineapple operations in full swing.

IDAHO: Hot, dry weather continued. Maxima ranged 90° to 106°, minima 41° to 58° averaging 8° to 15°

above normal. Thundershowers at end of week brought some precipitation extreme north and central mountains and cooled maxima temperatures 15° to 25°. The Salmon and Big Wood Rivers crested above flood stage midweek and slowly receded as mountain snowpack was depleted.

Hot, dry weather bringing drought conditions dryland farming areas southern and eastern Idaho localities. Water systems near capacity to maintain adequate moisture supplies in irrigated areas. Winter wheat crop 75% headed, earlier fields turning. Adequate moisture for north Idaho dryland wheat crop. Spring barley and spring wheat in boot and heading stages with advanced fields turning. Hot weather brought rapid emergence east Idaho potato crop with 80% above ground. Crop generally emerged other areas. Haying made rapid progress with 50% of first cutting alfalfa crop harvested. Dry beans making satisfactory growth. Hot weather damaged more advanced dry pea and lentil fields in north Idaho.

ILLINOIS: Temperatures 2° to 5° subnormal. Precipitation relatively light. Last of week heavy rainfall caused some flooding.

Corn planting 95% complete, 96% 1973, 1971-73 average 99%, 15% replanted. Average height 12 in. Most advanced fields 24 in. New plantings fair to good condition. Soybean planting 70% complete, 81% 1973, average 94%, about 10% replanted. Soybean condition fair to good. Winter wheat 85% ripe, 50% last year, average 56%. Over 15% combined, 10% 1973, average 18%. Oats heading 80%, average 84%, about 60% filling stage, average 66%. Ten percent turning, average 15%. First cutting alfalfa hay 55% complete, 71% 1973, average 83%. Red clover hay over 50% complete, 60% 1973, average 70%. Alfalfa, red clover conditions mostly good to excellent. Grain sorghum 30% complete. Pastures good to excellent. Soil moisture 14% adequate, 86% surplus. Fieldwork: 3.5 days suitable.

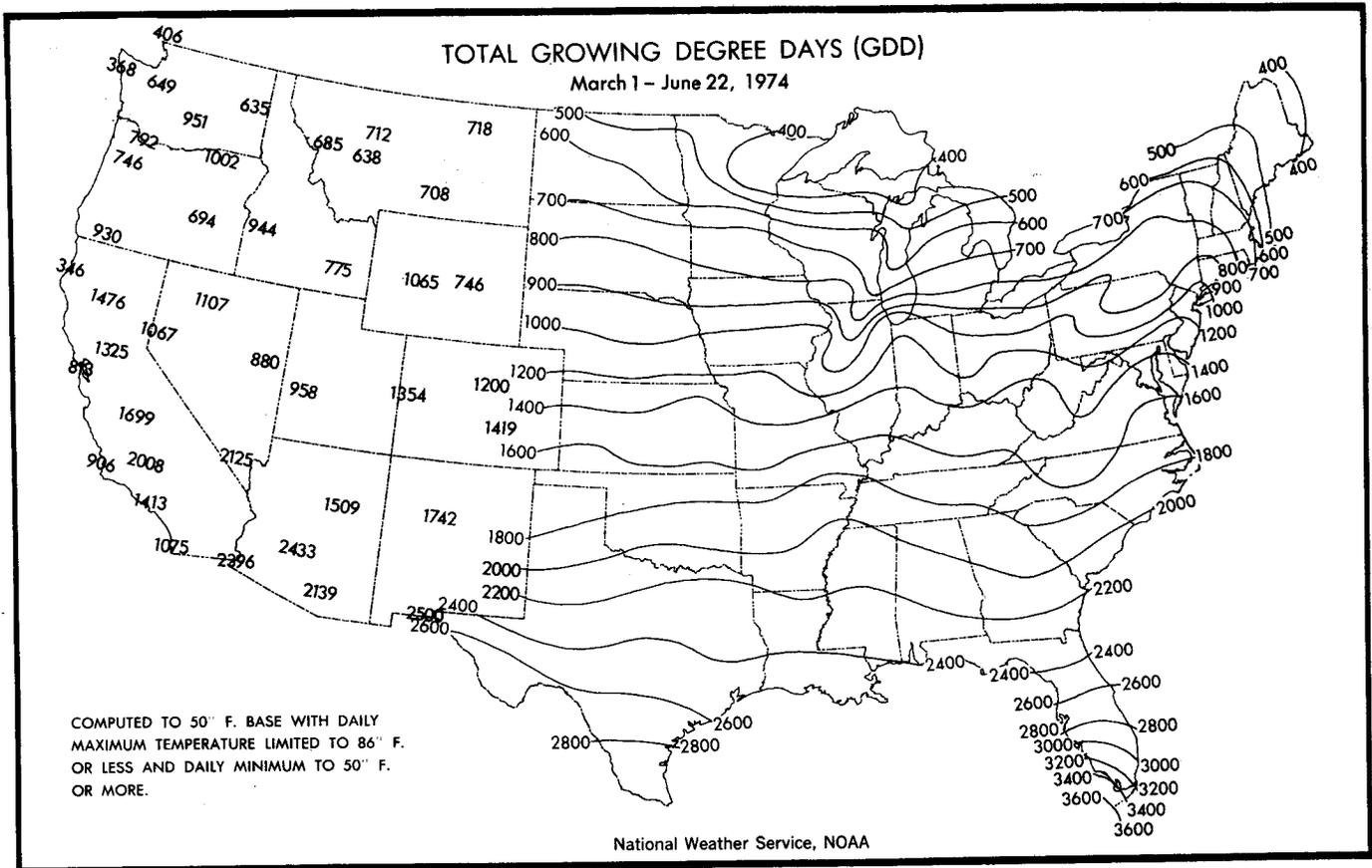
INDIANA: Another wet, stormy week but few tornadoes and no fatalities. Severe thunderstorms and local wind did cause damage. Temperatures ranged 47 to 91°, and averaged 4° below normal. Precipitation averaged 1.60 in. in most areas.

Fieldwork averaged 4 days. Topsoil and subsoil moisture mostly adequate to surplus. Corn 95% planted, same as 1973, 11 days behind average. Corn 11 in. tall. Soybeans 75% planted, 80% in 1973, 95% average. Wheat 25% ripe, harvest starting in south.

IOWA: Temperatures averaged subnormal east to above normal west. Severe thunderstorms left over 4.00 in. of rain in sections of northwest, central and east while the southwest was dry throughout the week.

Warm weather improves outlook, rain and hail hurt some areas. Days suitable for fieldwork 5.5, average 5.1 days. Corn planting virtually complete, nearly all emerged. Heavy rains and erosion reduced stands 15% in some areas east central, south central, and southeast. Crop condition fair to good. Soybeans planted 94%, last year and normally complete. Soybeans emerged 82%, crop condition fair to good. Weed control for corn and soybeans fair to good. First crop alfalfa 70% harvested, yields good to excellent. Oats headed 76%, crop condition mostly good. Clover and pasture good to excellent condition. Topsoil moisture 14% short, 51% adequate, 35% surplus.

KANSAS: Much above normal temperatures portions western Kansas; 110° at Healy in Lane County. By 22nd and 23rd, readings below normal. Precip-



itation inconsequential, except Johnson County with 1.35 in.

Wheat harvest full swing last week under favorable harvest weather. Wheat harvest 35% by June 21, 5% 1973, 20% average. Cultivating row crops. Sorghum 85% seeded, 80% last year and average. Corn laid by 45%, 1973 and average 35%. Soybeans 75% planted, 80% both last year and average. Alfalfa regrowth good, second cutting 25% harvested, 1973 and average 20%. Sugarbeets doing well. Harvesting native hay. Livestock good to excellent condition.

KENTUCKY: Warm and humid through week, cooler June 22. Showers and thundershowers last half week. Temperatures near normal west, below normal east.

Favorable week field work. Soil moisture 35% short, 64% adequate and 1% surplus. Heavy showers many areas over weekend. Wheat harvest advanced rapidly, 40% complete. Garlic onion causing heavy discounts considerable wheat. Soybean planting active, 70% done. Much of harvested wheat acreage being followed by soybeans. Corn planting last week few areas. Average corn height 21 in., emerged soybeans 5 in. Fifty percent corn laid by. Burley tobacco good condition growing well. About 11% acreage over 12 in. and another 45% 6 to 12 in. Tall fescue harvest active. Peach crop short, apples somewhat better. Pastures excellent.

LOUISIANA: Weekly temperatures 1 to 2° below normal except slightly above normal southcentral. Extremes 95° Monroe and Leesville and 61° Minden and Tallulah. Weekly precipitation up to 2.00 in.

in scattered showers. Greatest one day rain 1.77 in. at Bunkie.

Soil moisture adequate. Field work possible 5.1 days. Cultivation, monitoring crops for insects, and hay harvest main activities. Soybeans 80% planted, about same as last year. Planting held up in northeast by wet fields. Most fields good shape, some back water flooding delta parishes. Sorghum 80% planted, slightly behind normal. Corn good, insect damage in some parishes. Cotton growing rapidly, cultivation and chemical weed control active. Little insect damage; crop is fruiting. Sugarcane growth excellent. Borer infestation heavy some localities. Small grain over 90% harvested. Yields fair to good. Sweetpotatoes good, first crate dug June 16. Harvest other vegetables heavy most areas. Haying active. Pastures supplying normal grazing. Cattle good condition.

MARYLAND AND DELAWARE: Temperatures normal to 4° below. Extremes: Low 90's - upper 30's. Showers over two states, amounts less than 0.25 in. to over 2.75 in. Heaviest western Maryland and parts of Delaware. Weekend started warm but ended rainy and cool.

Generally favorable work week. Dry spots developing central and southern Maryland and south eastern shore. Some relief scattered weekend showers. Corn growing good, some stress drier areas. Soybean planting 86%, 1973, 84%, average 78%. Tobacco setting passed 90%, same as 1973. Barley combining 53%, 1973 47%. Wheat harvest started in south. Hay harvest ahead of usual. Summer apple picking starting. Early peaches about ready.

MICHIGAN: Temperatures averaged 3 to 6° below normal. Warmest temperatures midweek with 80's through lower, and upper 70's upper peninsula. Coldest beginning and close of week with 40's throughout state. Precipitation totals ranged from 0.25 in. to 2.00 in. Showers and thunderstorms mainly 17th through 19th.

Heavy rains and hail damaged crops and slowed fieldwork. Soil moisture mostly surplus. Only 2.8 days fieldwork. Corn 97% planted, 1973, 93%. Cool weather and excessive water slowed corn growth; average corn height 7 in. Soybeans 92% planted, 1973 85%, average 95%. Early planted dry beans seriously damaged by heavy rains. Dry beans 60% planted, 1973, 75%, average 82%. Winter wheat developing well, about 90% headed, 1973 95%. Oats heading southern counties. Rains damage much cut hay. Over 20% first cutting harvested. Pasture feed supplies above average. Hail June 15th seriously damaged all tree fruits in some southwestern localities. Frequent rains have made scab control for apples difficult. Strawberry harvest at peak southwest. Asparagus harvest nearing completion.

MINNESOTA: Temperatures averaged normal to 3° below. Highs in 80's 18th through 20th; first time this season. Rainfall less than 0.33 in. much of north west central and southwest. Elsewhere totals normal to much above. Nearly 7.00 in. fell southeast; storm runoff flooded all streams and creeks. Hail up to 1.50 in. in diameter with straight line winds 60 to 80 mph general throughout entire storm path.

Weather conditions were favorable for crop development and progress toward completion of small grain seeding in northern Minnesota. Major farm work included weed spraying, hay making, cultivation of row crops and completion of small grain planting. Stormy weather with high winds, heavy rains and hail in midweek did moderate to extensive damage to parts of several counties of west central, south central and southeast. Small grains in south approaching heading stage but development behind last year and average. Corn height 10 in., last year 16 in., average 14 in.; soybeans 5 in. last year and average 6 in. Spring wheat 80% emerged, average 94%; barley 72% emerged, average 99%; oats 90% emerged, average 97%. First crop alfalfa hay 51% cut, average 68%. Yields generally good.

MISSISSIPPI: Showers and thunderstorms were widespread 16th and 18th with south receiving parts of the little or no rain. Average temperatures were 5° cooler than usual. Extremes: were 95° on the 20th and 50° at university on the 17th. There were widely scattered thunderstorms during the weekend.

Soil moisture surplus to excessive in North and short to adequate in South. Average of 3.3 days suitable for fieldwork, 2.2 days last week and 4.9 days a year ago. Soybeans 49% planted, 79% 1973. Sweetpotatoes 78% planted, 77% 1973. Sorghum 69% planted, 84% 1973. Wheat 63% harvested, 87% 1973; Oats 67%, 88% 1973. Hay 27% harvested, 36% 1973. Cotton 43% squaring, 14% a year ago. Condition of cotton is mostly fair, with corn, rice, soybeans, and peaches in poor to good condition. Pastures are in mostly good condition.

MISSOURI: Temperatures averaged 1 or 2° below normal Statewide but 4° below normal in the bootheel and 6° below normal in the northeast prairie. Precipitation was very light in the west and ranged from around 0.50 to 1.00 in. in the east.

Five suitable days for fieldwork. Soybeans 65% planted, 73% 1973. Grain sorghum 74% planted, 76%

1973, average 68%. Wheat crop 66% ripe, 14% harvested, 1973 50% ripe and 17% harvested. Alfalfa harvested 87% first cutting, 10% second cutting. Clover-Timothy 36% harvested, 43% 1973, 44% normal. Cotton poor to fair condition, corn fair to good condition. Soil moisture adequate.

MONTANA: Temperatures above normal. Highest maximums in 90's. Extensive thunderstorm activity during week gave significant amounts of precipitation most divisions except southwest and south-central.

Winter wheat in good condition except for north-central, where fair to good and southeast where good to excellent. Winter wheat nearly 50% headed. Spring grain mostly fair to good. Sugarbeets and potatoes mostly good condition. Alfalfa 10% cut and haying in full swing. Some weevil damage. Ranges making average growth except in southeast where growth average to rapid.

NEBRASKA: Temperatures above normal. 100 to 107°. Rainfall very sparse.

Winter wheat condition fair to excellent east, west fair to good. 85% wheat turned, normal 70%. Corn condition good to excellent. Corn 1.0 to 1.5 ft. high in north, 3.0 ft. or more in south. Sorghum and soybeans good to excellent. Oats and small grains in milk to dough stage. Sugarbeet thinning 85% complete. Some sugarbeets lost due to drought, late freezes, hail, wind. Alfalfa condition 4% poor, 37% fair, 53% good and 6% excellent. First cutting 95% completed. Wild hay condition good to excellent, declined during week. Fieldwork: 7.0 days suitable. Topsoil moisture 62% short, 38% adequate. Subsoil moisture 10% short, 90% adequate. Pasture and range 9% short, 90% adequate and 1% surplus. Livestock survived heat quite well.

NEVADA: Weather mostly fair with above normal temperatures. Temperatures ranged from low 33° Reno to 109° Las Vegas. Rainfall limited to few showers and thunderstorms June 19.

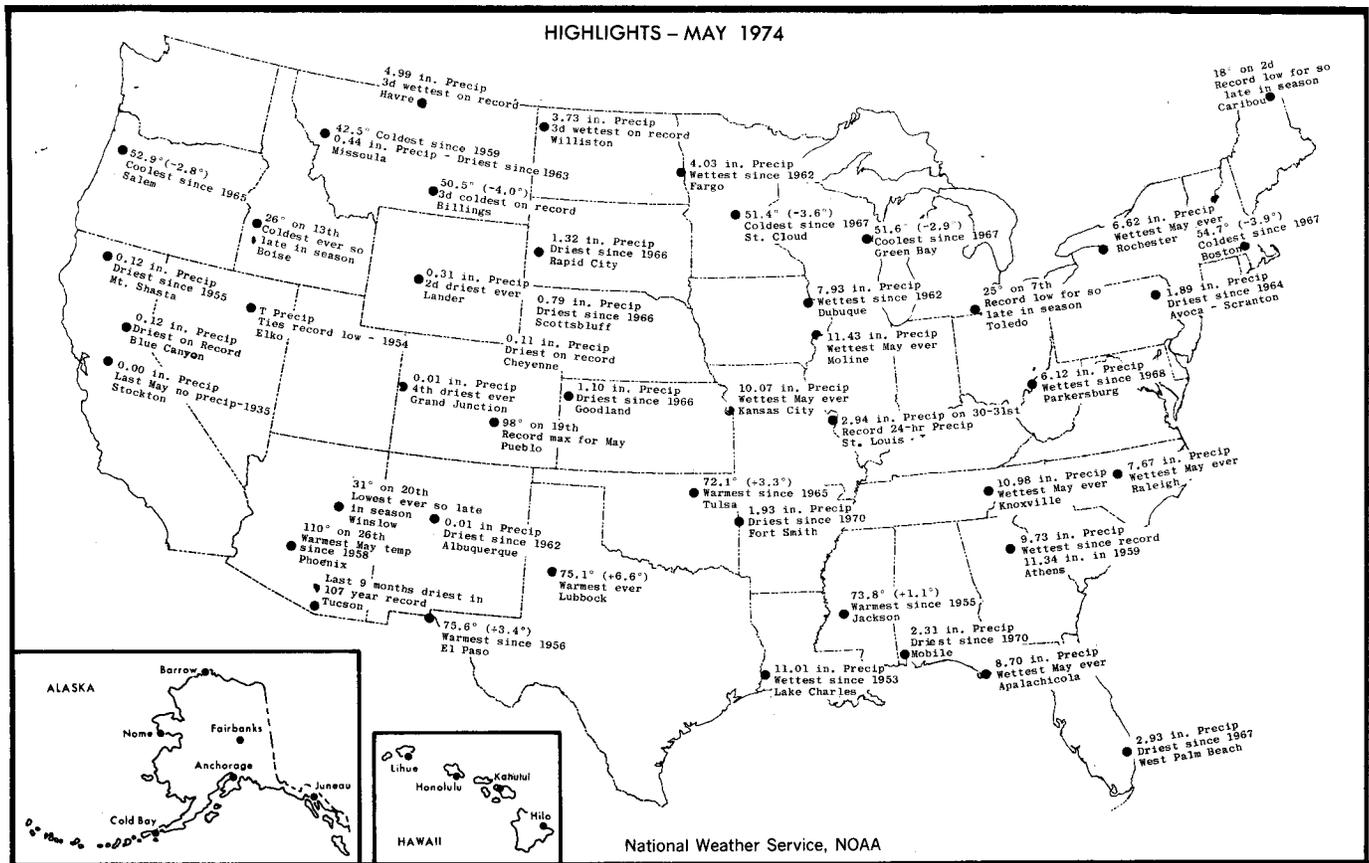
Alfalfa harvest continues. Small grain harvest nearing completion southern valleys. Ranges dry, fire hazard high.

NEW ENGLAND: Frequent showers except for generally fair weather 21st and 22nd. Temperatures uniform through week with daytime highs mostly in 70's and 80's, and nighttime readings in 50's and 60's. On 23rd southern New England had overcast skies and occasional showers to keep daytime temperatures in cool 60's.

Some hay made all areas between showers. Crops made good growth. All silage corn planted, some cutworm southern areas. Apple, blueberry, cranberry prospects good. Strawberry yield good. Earliest sweet corn tasseling. Some potato wash-out, Aroostock County, elsewhere crop emerging good.

NEW JERSEY: Temperatures averaged 67° north, 71° central, and 72° south. Extremes were 89° at several stations on 21st and 47° at Newton on 24th. Rainfall averaged 1.18 in. north, 1.24 in. central, and 1.05 in. south. Highest daily total 1.25 in. at Hammonton on 23rd.

Soil moisture June 24 averaged 89% north, 82% central and 68% in south. Timely showers benefit crops. Asparagus harvest nearing completion. Lettuce supplies declining. Cabbage volume good. Harvest of sweet corn under plastic beginning. Strawberry harvest declining rapidly. Blueberry harvest becoming general. Field corn planting complete. Some soybeans going in following barley harvest. Wheat harvest about to start. Alfalfa 1st cutting about finished.



NEW MEXICO: Dry and very hot early week topping 100°. Mean temperatures for week 4 to 7° hotter than normal. Slight relief 22nd and 23rd with scattered thunderstorms central and northeast and some rainfall totals near 0.33 in.

Moisture very short, scattered rains east side beneficial. Considerable damage to crops from sand, hail, high winds - Clovis-Portales; limited rains allowing some dryland sorghum planting. Alfalfa good, 2nd cut, 50% south, starting north. Cotton, irrigated sorghum, corn, oats, good. Onion harvest, full swing, Mesilla Valley. Lettuce, peanuts, potatoes, good; apples, fair. Cattle, sheep, fair. Ranges, poor.

NEW YORK: Western New York 4° below normal, eastern areas slightly warmer. Below normal rain southern tier, elsewhere generally above normal. Thunderstorm 17th brought 1.34 in. rain to Poughkeepsie. Weekly low 45° 18th morning, Massena. Weekly high 87° 20th, Elmira. Spotty showers through period, with general rain 21st. More than 1.00 in. common Upstate. Rain extreme south-east 23rd. Otherwise 22nd and 23rd cooler and drier.

Final plantings and hay harvest delayed cool, wet conditions. Soil moisture adequate to surplus, some excessive. Corn growing well, some yet to be planted. Wheat good to excellent - heading, some lodging. Poor haying weather. Weevil damage widespread. Some hay harvested as haylage. Few dry beans to be planted, most look good. Iceberg lettuce harvest underway Orange County, excellent quality. Moisture improved. Spraying onion fields for leaf blight. Eden Valley lettuce harvest continues, fair quality. Early variety cabbage moving in good volume. Some acreage under water.

Hudson Valley apples sizing nicely. Sweet cherries available. June drop heavy apple varieties western New York. Grapes reached full bloom in Finger Lakes, considerable wind damage. Volume harvest good quality, good yielding strawberries continued.

NORTH CAROLINA: Cold front moved across state 23rd led by squall line. High temperatures mid-week in mid 70's -- low 80's. Week ended with near normal temperatures and scattered showers.

About 4.5 days suitable for fieldwork. Soil moisture short to mostly adequate. Fluë-cured tobacco only fair, -- blooming too early in some areas. Burley now set, condition good. Corn fair to good. Soybeans 83% planted, same as 1973. Cotton fair to good. Irish potatoes 34% harvested. Sweet potatoes 83% set, 90% 1973. Small grain harvest progressing nicely. Hay 45% cut. Pasture good to excellent. Peaches 33% harvested -- condition mostly fair.

NORTH DAKOTA: Temperatures across state near normal except east 2 to 3° below normal. West division 1° above normal. Highs 97° at Bowman to 62° at Pembina. Lows 30° at Breien to 68° at Ft. Yates. Precipitation across state below normal. North central, central, and southeast reported trace or less. Greatest weekly and 24-hour precipitation 1.97 in. at Watford City June 21. Unofficial reports of 2.87 inches received from trotters and 4:00 in. just east of Marmarth. Weekend in North Dakota warm and generally dry.

Completion of small grain seeding aided by generally fair weather. Planting of flax, corn, potatoes, soybeans and sunflowers also essentially

completed. Crops generally quite late, stands good on early seedings, but some germination problems on late plantings. Pasture growth very good. Haying well underway.

OHIO: Cloudy, cool, showers, and thunderstorms everyday except 18th. Heavy rain, southern half caused flooding. Dry and cooler week's end. Temperature extremes: 91° and 45°. Precipitation ranged 4.86 in. Cincinnati to 0.37 in. Canton-Akron.

Winter wheat and oats maturing ahead of normal. Wheat 70% turning, 55% 1973, and 65% average. Few fields ripe. Oats 70% headed. Corn, soybeans, and pasture mostly good condition. Average height corn 15 in. soybeans 5 in., both normal for date. Fieldwork: 4 days favorable. Soilmoisture supplies; 28% short, 43% adequate and 29% surplus. Weed problems increased in wet southern areas. Tobacco 90% set. First cutting alfalfa 80% done, clover-timothy, 55%.

OKLAHOMA: Temperatures 3° below normal southeast to 4° above normal in panhandle. Precipitation was a trace in panhandle to 1.38 in. southeast. Weekend hot with scattered showers in some areas.

Wheat harvest nearing completion, 93% combined by June 21, almost 2 weeks ahead last year. Oats and barley combining nearly complete; large percent stubble tilled. Planting rows crops nearly done, week earlier than a year ago. Cotton 92%, peanuts 87% up to stand. Alfalfa cutting in full swing, 57% second crop baled. Pastures good. High temperatures and winds causing some drying of top soils. Grasshoppers heavy infestation many areas. Cattle in excellent flesh.

OREGON: Temperatures averaged near normal on coast to 15° above normal in extreme east central. Western interior valleys 4° above normal. Maximums 100° extreme east, 90° east and southwestern valleys. Other interior valleys upper 70's. Minimums 40's to 50's across state. Minor precipitation northeast.

Hot weather hastened turning of grain crops east. some moisture stress. Heads filling well, west. First cutting hay continues. Peppermint and vegetable crops responding to warmer temperatures. Pea harvest full swing, beans are in bloom. Potatoes onions making good growth, harvest nearing for Norfolks. Strawberry harvest full swing. Cherry harvest starting Milton-Freewater, the Dalles area. Hot spell drying ranges, melting snow pack. Streams and rivers eastern Oregon at flood stage. Fire danger increasing. Cattle, feeder lamb markets poor.

PENNSYLVANIA: Mostly fair, cool early week then warm and humid. Scattered showers and thunderstorms most days with significant rain south 23rd. Weekly rainfall totaled 1.00 to over 2.00 in. south. 0.50 to 1.00 in. north except under 0.25 in. northwest mountains. Temperatures 2 to 5° below average except 1 to 2° below southeast. Extremes: 88° to 36°.

Soil moisture adequate to surplus. First cutting alfalfa 67%, clover-timothy 50%. Quality of hay fair to good. Pastures average; Barley harvest started. Wheat ripening rapidly. Oats are heading. Corn height averages 10 in.

PUERTO RICO: Island average rainfall 0.56 in. below normal. Highest weekly total 2.46 in. at Cerro Maravilla. Temperatures averaged about 80° on coasts and mid-70's interior.

Dry weather retarded development sugarcane ratoons especially in south coastal areas but rain showers over west was beneficial. Most coffee zones report abnormal bean development due drought condition.

Pasture lands mostly in south southwest and central areas have been destroyed by drought. Prolonged drought destroying food crops most sections except some western interior areas where they have received some relief due recent rains.

SOUTH CAROLINA: Temperatures averaged 5° below normal in mountain, north central, west central zones. Northeast warmest with 1° above average. Eastern third state driest with some stations reporting no rainfall for week.

Soil moisture short to very short many areas; crop conditions declined. Tobacco harvest 8%, 1973 4%. Topping, suckering active. Cotton condition good. Cultivating, applying insecticides, herbicides. Corn condition down, still fair to good. Soybeans planted 89%, 1973, 76%. Condition, stands, plants, good. Sorghum planted 80%, 1973, 70%, condition good. Transplanting sweetpotatoes 90%, 1973, 85%. Peach harvest 23%, 1973, 18%. Condition fair to good, size running smaller than last year. Grape condition fair to good. Small grain harvest nearing completion; 89% wheat, 40% 1973; 92% oats, 48% 1973; barley 89% 46% 1973. Hay crops, pasture fair to good condition. Vegetables good condition. Low Country tomato volume heavy. Watermelons fair to good condition. Light harvest underway southern areas.

SOUTH DAKOTA: Weekly temperatures averaged above normal--central and western 4° to 9° above normal. Extremes: 38° Sioux Falls, 111° Philip. Weekly precipitation mostly 0.65 to 0.99 in. below normal except in southeast. Topsoil moisture adequate only in southeast. Short all other areas.

Heat detrimental to all crops, rain needed. First cutting alfalfa 74% complete, ahead of normal. Drought cut yields in southwest. Wild hay harvest beginning. First corn cultivation 89% complete, second 19%; both ahead of normal. Drought causing winter wheat to turn ahead of normal. Barley 45%, oats 50%, and spring wheat 32% headed; behind normal. Flax starting to bloom. Livestock good condition. Pastures starting to dry. Fly problems increasing.

TENNESSEE: Temperatures averaged 2° to 7° below normal. Above normal precipitation central and west with showers Saturday giving locally over 1.00 in. rains to those sections. In east conditions were cooler and generally drier than in other areas.

Fieldwork at rapid pace during week, 5 days suitable for fieldwork. Soybeans 60% planted, one week behind last year, 2 weeks later than normal. Cotton 10% squaring, average 30%. Corn planting virtually complete, 5% silked. Wheat and barley 75% harvested, oats 60% harvested. Small grain harvest nearly one week ahead of normal. Second cutting alfalfa 50% complete. Soil moisture 21% short, 71% adequate and 8% surplus.

TEXAS: Temperatures with over 100° west Texas. El Paso record high 107°. Showers generally light, widely scattered over Texas, coastal plains and high plains of west Texas. Major exception southeast Texas, with 1.00 in. Cool front brought relief north Texas by weekend. Lower Rio Grande Valley harvest of last fields of honeydews and bell peppers underway. Coastal Bend watermelon harvest virtually complete. San Antonio-Winter Garden area potato harvest complete. Watermelon harvest rapidly nearing completion. Cantaloups, cabbage, peppers, onions still being harvested. Upper Coast watermelon harvest beginning. Central Texas tomato harvest at peak. East Texas watermelon harvest should get underway in about a week. North Texas tomato harvest underway. Watermelon, cantaloups continue

set fruit. Knox-Haskell area potato harvest is about 75% complete. Trans-Pecos, lettuce harvest continues. Pecos onion harvest almost complete with cantaloup crop making good progress. High Plains potatoes, onions, carrots, cabbage making good growth. Peach harvest continues active throughout state. Walnut caterpillars are disappearing most pecan areas but another generation expected.

Harvest wheat, oats, barley nearing completion. Harvest early sorghum underway south Texas, Lower Rio Grande Valley. Short moisture continues delay planting cotton sorghum High, Low Plains. Cotton, corn, sorghum making excellent progress from blacklands southward to Lower Rio Grande Valley. Major crops percent harvested: Wheat 1974 86, 1973 41; Oats 1974 98, 1973 78; Barley 98, 1973 74. Percent planted: Cotton 1974 94, 1973 99; Sorghum 90, 1973 96; Soybeans 75, 1973, 76; Peanuts 85, 1973 86. Livestock generally good condition. Some ranchers still feeding Edwards Plateau, Trans-Pecos areas. Ranges generally good condition southern, eastern areas. Grazing adequate to abundant. Hay baling active second, third cuttings underway from Blacklaw to Lower Rio Grande Valley. Ticks, horn flies problem many areas. New screwworm cases appeared Edwards Plateau.

UTAH: Another very dry week with little or no precipitation. Average temperatures 5 to 20° above normal. Accumulated precipitation for the crop year beginning April 1 much below normal most sections of state. Soil moisture very short most localities.

Irrigated crop progress good during week. Sugarbeet thinning almost completed. Spring planted small grains about 50% headed out. Oats averaged 42% headed, spring wheat 51%, and barley 56%. First crop hay harvest 62% completed. Nonirrigated crops need moisture. High winds have been a large factor in reducing soil moisture. Haying, cultivating, irrigating, and spraying for weeds and insects main farm activities.

VIRGINIA: Showers and thunderstorms beginning and end of period. Cool first of week and becoming very warm towards end. Temperature extremes 94 and 36°.

Average 5.0 days suitable field activities. Soils becoming dry east-central, east and southeast. Corn east and southeast beginning to silk. Condition good, rain needed. Planting acreage southwest about completed where problems army worms and slugs reported. Some late corn after small grains. Soybean following small grain increased. No till or stubble planting common. Insects, particularly Mexican Bean Beetles causing concern. Some control measures. Peanut growers applying land plaster and chemicals for leafspot, weed and insect control. Crop condition good. Flue-cured tobacco cultivated, top-dressed and laid by. Spraying and dusting for insects. Fire-cured, sun-cured and burley transplanting nearing completion. Barley harvest 65% completed, wheat 25%, and oats 35%. Most first cutting hay finished. Some second cuttings beginning. Quality improved. Fruit growers spraying and clipping orchards. Pasture condition declined east southeast. Potato digging increased eastern shore. Cabbage harvest tapering off. Tomatoes slow due cool temperatures. Many early vegetables harvested.

WASHINGTON: West: Mostly sunny west Max 70's and 80's. Min's 40's and 50's. Warm weather improved development late planted crops. Strawberry harvest beginning. Blueberry crop will be reduced due to "mummyberry" disease. Some late

seeding silage corn, sweet corn, bush beans and carrots still underway north. Harvest early vegetable crops, hay and silage continues. East: Dry temperatures 8° to 12° above normal. Heat stress began to show shallow and clay soils. Heading of fall grains nearly complete, spring grains developing rapidly. Cheatgrass and grasshopper problems in some northern areas. Asparagus harvest near completion, pea harvest well underway, cabbage harvest beginning. Sugarbeets thinned, weeded and sweet corn cultivated. Potatoes look good. First cutting alfalfa completed many areas. Range grass abundant, livestock in good condition.

WEST VIRGINIA: Temperatures below normal with low of 33° in Canaan Valley 18th. Warm and humid end of week with heavy rainfall most areas, except southern and northeastern.

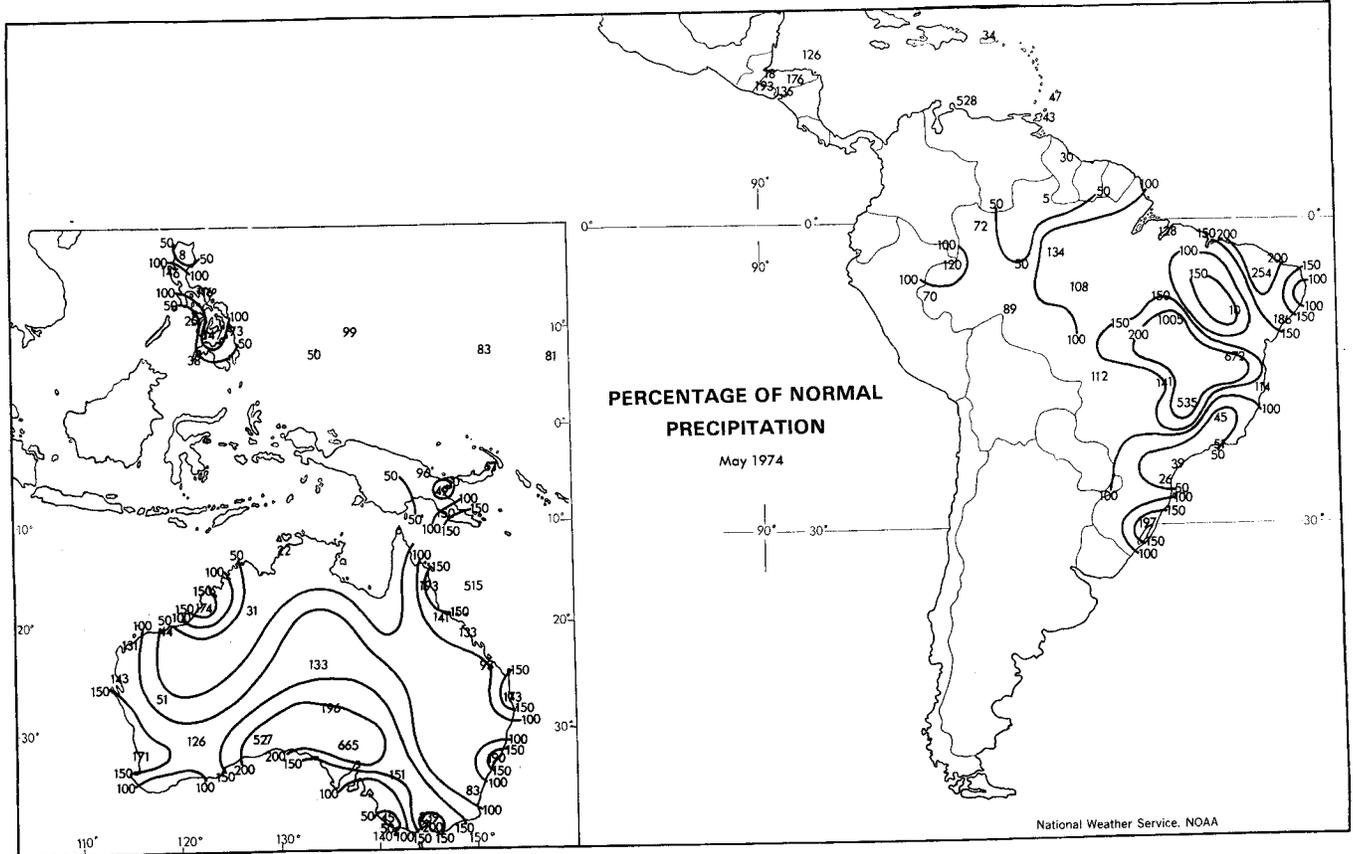
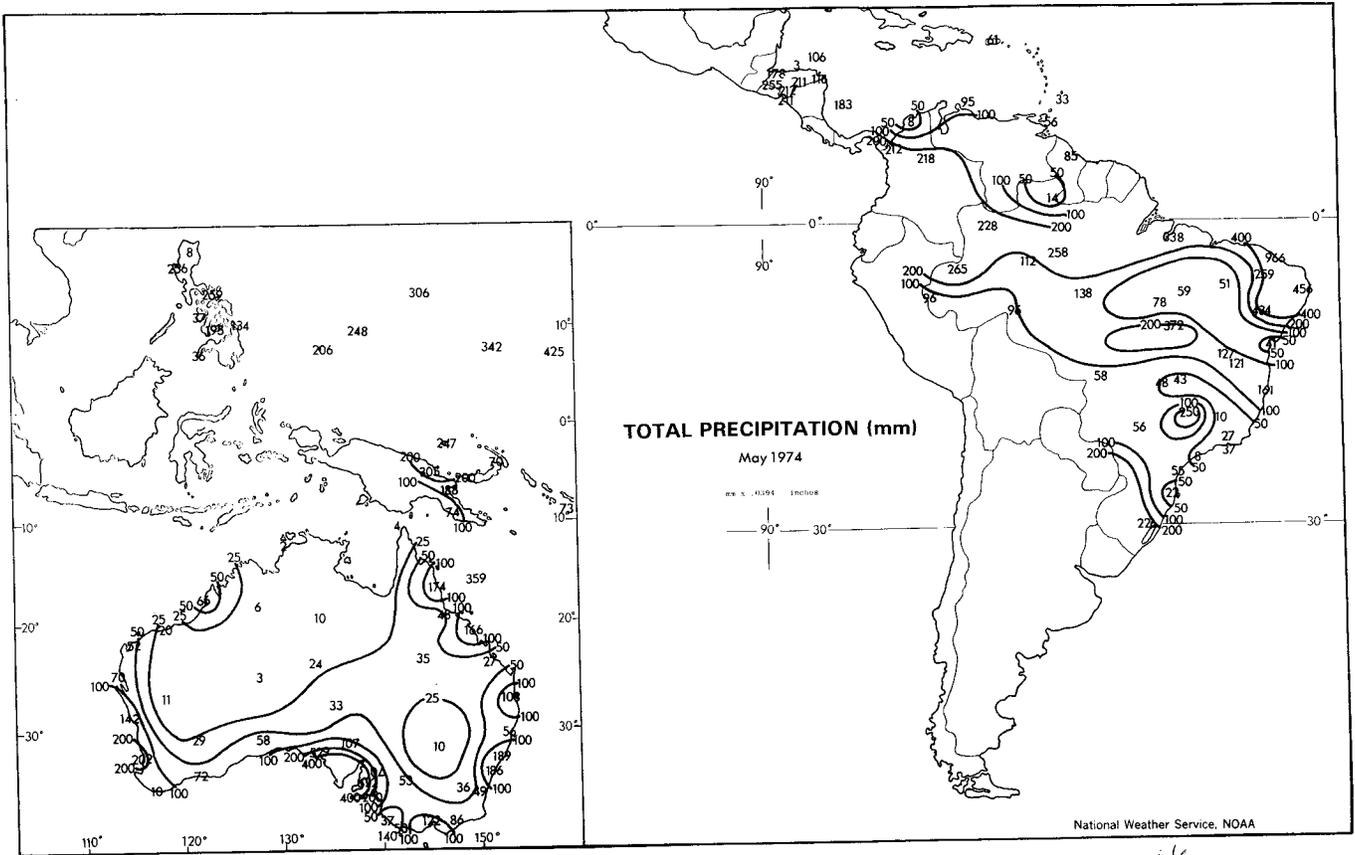
Soil moisture 5% short, 61% adequate, 34% surplus. Favorable work days 3.6. Main field activities haying, gardening, and clutivating. Good growing conditions for hay but wet for harvesting. Small grains good condition. Corn 93% emerged. Tobacco 98% set. Barley 63% turning, wheat 68% headed, oats 38% jointed and 36% headed. Pasture good condition. Livestock good condition with some problem from pink eye and flies.

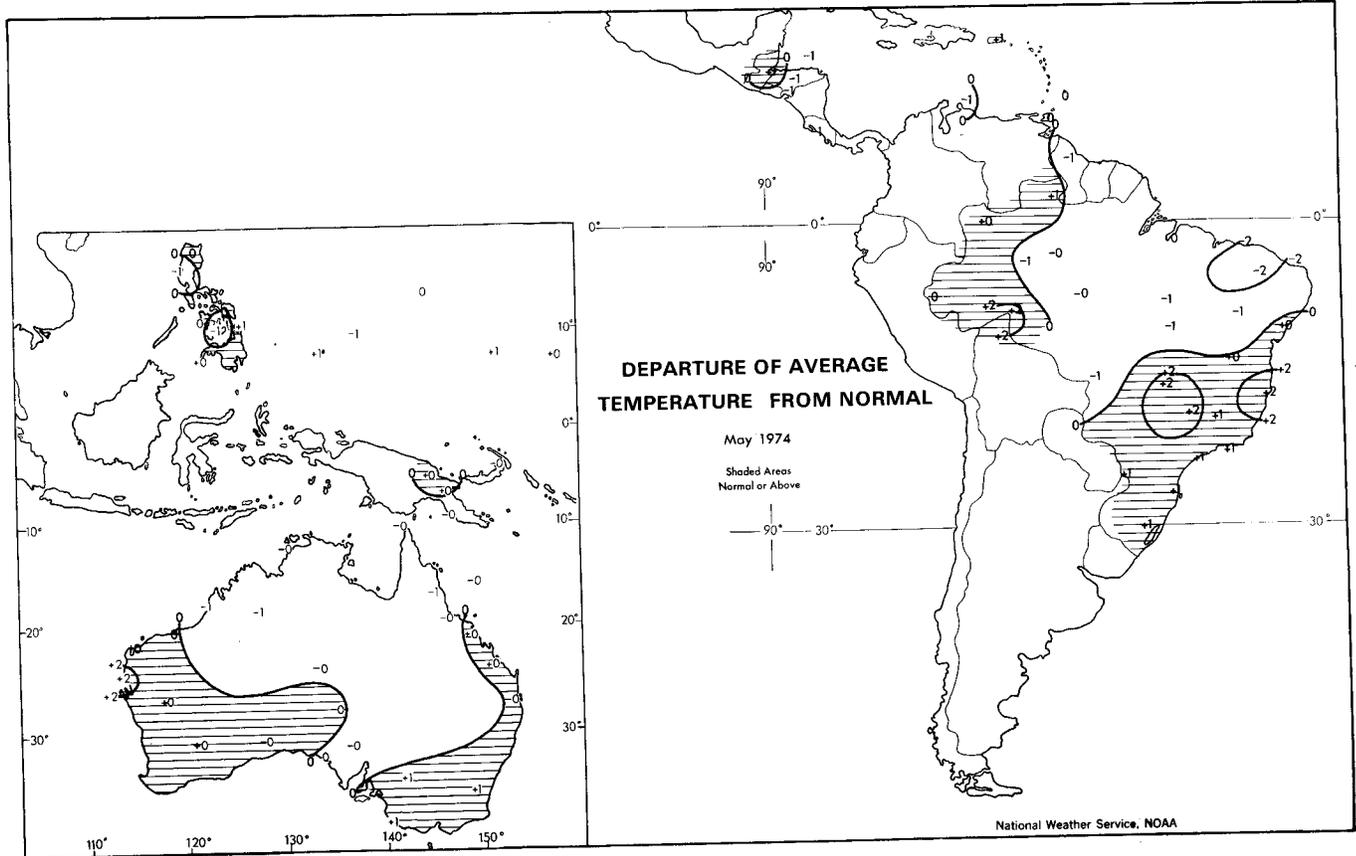
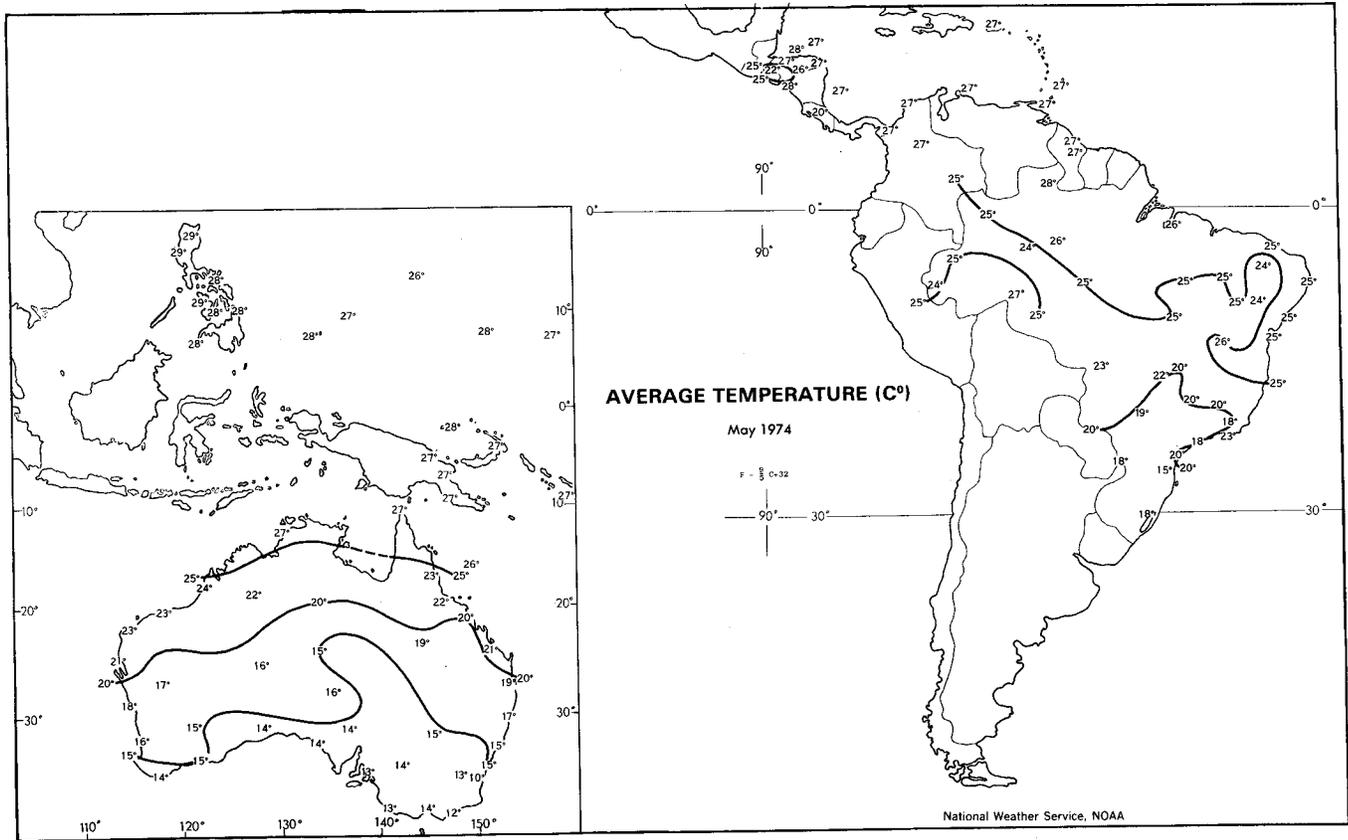
WISCONSIN: Temperatures averaged below normal. Moderate to locally heavy showers west central to southeast 18th evening. Heavy thunderstorms southwest 20th with 4.00 in. rain at Platteville and 85 mph winds at Dubuque. Showers extreme south and southwest early 22nd.

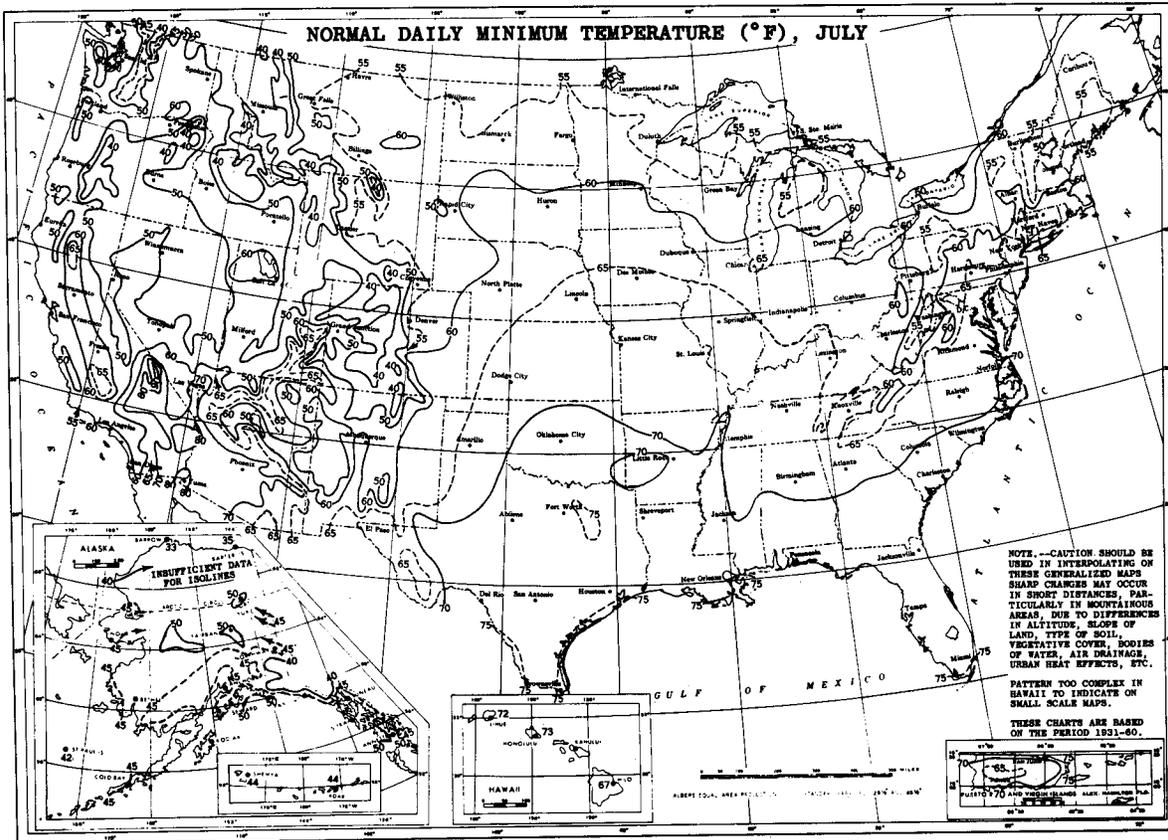
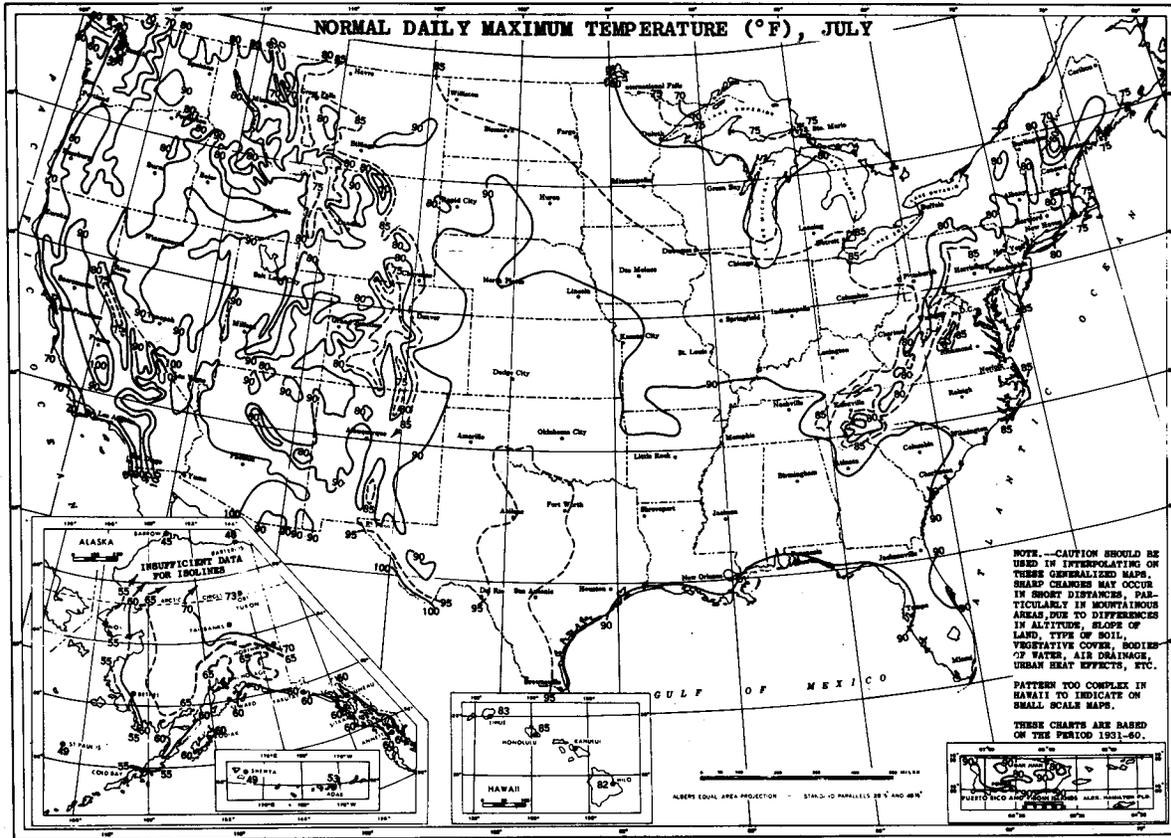
Corn improved with warmer temperatures last week but development behind normal. Corn averages 7 in. high, 1973, 8 in., normal 10 in. Some planting left in the wetter areas of east and southeast. Quackgrass problem in wet fields. Oats and small grains doing very good. Oats 5% headed, 1973, 5%, normal 20%. Hay harvest slowed by showers, soft fields, and later maturity. Hay 20% harvested, 1973 35%, normal 40%. First crop of hay starting to lodge. Pastures in good condition except where too soft from heavy rains. Some soybeans left to plant in southeast. Soybeans 85% planted, 1973, 95%, normal 99%. Potatoes coming good. Vegetable crops good in central but some damage from hail and heavy rains in the south. Tobacco being transplanted, progress behind usual. Picking strawberries started. Soil moisture 45% adequate, 55% surplus, wet in south and east.

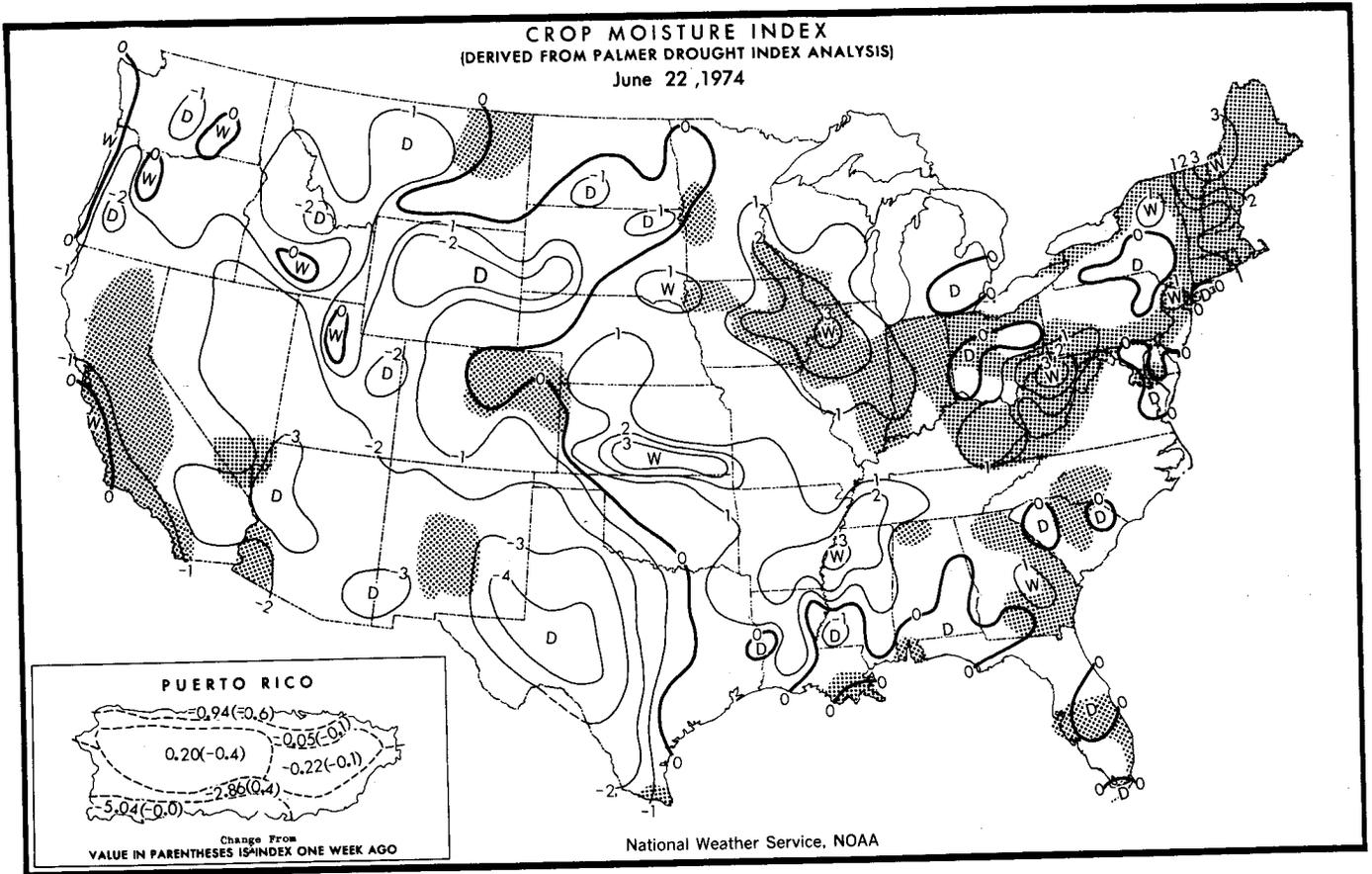
WYOMING: Temperatures ranged from above normal for week but little or nor precipitation. Several stations recorded above 100° mark, lows mostly in upper 40's and low 50's.

Topsoil moisture supplies short. Planting row crops virtually completed. Corn 85%, dry beans 75%, potatoes 90% emerged. Sugarbeets 70% thinned. Prospects for winter wheat, spring wheat, barley, oats, alfalfa, fair to good. Winter wheat 90% headed, slightly ahead of normal, 10% turning color. Scattered showers have improved crop prospects. Spring wheat 65%, barley 40% headed. First cutting alfalfa hay 10% harvested, other hay just underway. Summer fallowing, cultivating row crops continued. Ranges, pastures generally fair to good. Stock water adequate except short northeast, east central. Movement of livestock to summer ranges continued.









SHADED AREAS: Index increased or did not change last week

Index

- Above 3.0 Excessively wet, some fields flooded
- 2.0 to 3.0 Too wet, some standing water
- 1.0 to 2.0 Prospects good, some fields too wet
- 0 to 1.0 Moisture adequate for present normal needs
- 0 to -1.0 Prospects improved, but rain still needed
- 1.0 to -2.0 Some improvement, but still too dry
- 2.0 to -3.0 Drought eased, but still serious
- Below -4.0 Not enough rain, still extremely dry

UNSHADED AREAS: Index decreased last week

Index

- Above 3.0 Some drying, but still excessively wet
- 2.0 to 3.0 More drying weather needed, work delayed
- 1.0 to 2.0 Favorable, except still too wet in spots
- 0 to 1.0 Normal growth and fieldwork
- 0 to -1.0 Topsoil moisture short, germination slow
- 1.0 to -2.0 Abnormally dry, prospects deteriorating
- 2.0 to -3.0 Too dry, yield prospects reduced
- 3.0 to -4.0 Potential yields severely cut by drought
- Below -4.0 Extremely dry, most crops near ruin

The map gives a general picture of how wet or dry the Nation was last week. It shows areas where abnormal wetness or dryness have hindered crops and areas where moisture conditions have favored them.

The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas...350 climatological divisions, which correspond roughly to SRS's crop reporting districts. Previous weekly computations of soil moisture account for the effects of prior weather.

Shaded areas are those where precipitation increased the index last week or where soils did not dry. Unshaded areas dried last week.

The centers of wet or dry areas are marked: W=wet; D=dry. The map lines mark off crop situations. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. While shallow rooted crops in poor soils may suffer more than the map shows, conditions may be better where soils are good. Also, legends apply to growing rather than mature plants. Any map interpretation must consider both the growth stage and moisture status and trend. In irrigated regions, the index values reflect only departures from ordinary irrigation requirements.

Agricultural Climatology Service Office
South Building Mail Unit
U. S. Department of Agriculture
Washington, D.C. 20250

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