

# Weekly Weather Crop Bulletin

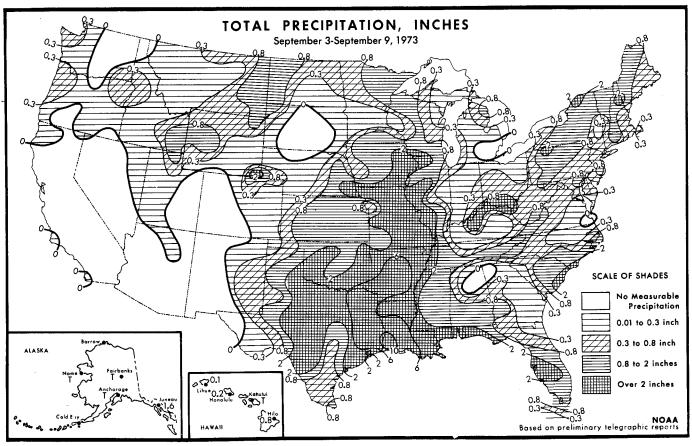
U. S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE Statistical Reporting Service

Volume 60, No. 37

Sep. 10, 1973

Washington, D. C.



### NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Cool, Canadian air finally broke the eastern heat wave late in the week and brought fall weather to many northern States. Mt. Washington, N.H., dropped to 30° over the weekend, and snow dusted the mountain. Tropical Storm Delia struck the Texas coastline near Galveston early Tuesday. The Lake Charles, La., area received 10.59 in.of rain and over 6.00 in.fell in parts of Texas, Louisiana, and Arkansas. Delia was also associated with 2.00 in.rains in parts of Oklahoma, Missouri, Iowa and Illinois.

PRECIPITATION: While thundershowers brought cold rain to the Corn Belt and northern Plains, Monday, Gulf Coast residents eyed Tropical Storm Delia. Galveston reported wind squalls of 57 mph, tides 4 ft. above normal, and 1.75 in rain in 2 hours.

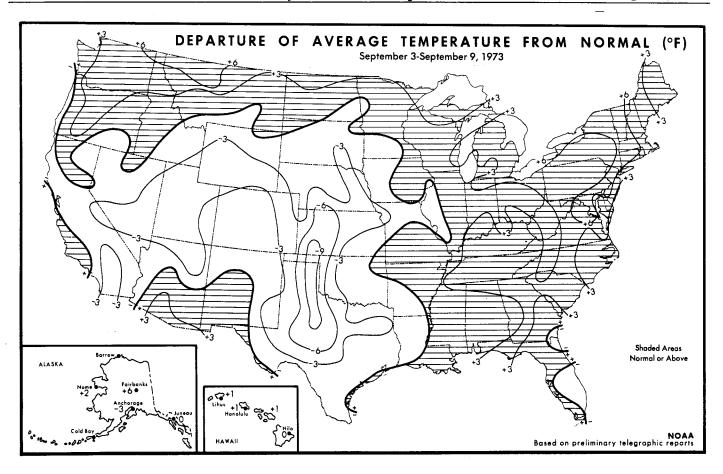
Delia came ashore Tuesday afternoon near Galveston, Tex., and moved slowly northwestward. Winds blew 70 mph near her center and torrential rains covered large areas. Ellington Air Force

Base, near Houston, Tex., received 2.87 in, rain in 6 hours. Lake Charles, La., received 1.38 in. during the same 6 hours, with a total of 3.33 in. in 24 hours.

Delia drifted slowly along the coast on Wednesday, depositing more than 1.00 in rain over east Texas. Late Wednesday rains included Lafayette, Tex., 2.50 in, and Lake Charles, La., 4.45 in. The Lake Charles total for Wednesday stood at 7.62 in. Delia also caused some tornadoes, mostly in Mississippi.

Thursday Delia caused rain from Florida to Texas and Oklahoma. Jonesboro, Ark., was drenched with 6.75 in.rain early Thursday. Thunderstorms were also active along a cold front from the Ohio Valley to New England. More than 3.00 in.rain fell on Millersburg, Ohio.

Later Thursday Delia weakened from a storm into a tropical depression, but still caused heavy rain: over 6.00 in.fell at Wolfe City, Tex., and rain from 1.00 to 3.00 in.was common through-



out the southern Plains. By late Thursday, Lake Charles, La., had received over 10.00 in of rain since Monday.

Early Friday, Delia's rain diminished in the southern Plains, but remnants of Delia drifted into the central Plains and upper Mississippi

Valley: Clinton, Kans., got 1.10 in.
Saturday, considerable thunderstorm activity
continued over the Plains, while another thunderstorm pocket accompanied a cold front into the Northwest. Saturday evening, golf-ball-size hail fell near Denver, while Moorcroft, Wyo., got 1.00 in rain.

Sunday, thunderstorms hit the central Gulf Coast and Tennessee. In the Carolinas, Wilmington, N.C., reported 3.64 in rain, while Sumpter, S.C., reported 1.28 in. Also scattered sections of the central Midwest received more than 5.00 in rain, while hailstones, up to 6.00 in. in diameter damaged mobile homes near Casper, Wyo.

TEMPERATURE: Sections of the East and South averaged 3° to 6° above normal--mostly due to a heat wave that started 2 weeks ago and broke Thursday night or Friday. The front that cracked the heat had spent over a week traveling across the Plains and the Midwest. Sections of the southern Plains averaged from  $6^{\circ}$  to  $9^{\circ}$ below the norm. The front was delayed by a large High system, which finally moved out over the Atlantic Wednesday, and by Tropical Storm Delia.

Monday, Tuesday and Wednesday, the heat continued in the East. Upstate New York temperational forms of the Continued in the East. tures peaked in low and mid-90's all three days. Tuesday, Boston hit 94°, breaking a record set in 1884. Philadelphia set a record 93°

However, it was even hotter in the Northwest:
Medford, Ore., reached 106°.
Wednesday, Burlington, Vt., reached a record
90°; however, a large High over Montana kept Corn Belt and northern Plains maximums in the high 70's and low 80's. The same High pulled desert air north into Washington and Oregon, where temperatures hit upper 80's and low 90's.

Orofino, Idaho, hit 103°, Moscow hit 100°.

By Thursday evening, the High, then centered over Iowa, pushed the front east. It extended from upstate New York, lay roughly along the Appalachians, and stretched through Tennessee and Kentucky into Arkansas. Early Friday it moved through the Northeast, relieving millions from the heat wave. Albany, N.Y., dipped to 47° that night. However, the oppressive heat, humidity, and smog continued in the Southeast. Friday was a fresh, clear, crisp fall day in

the Northeast. Coolness came also to the north Rockies: Havre, Mont., reached a high of only 66° Friday, after a 91° high Thursday.

Saturday morning, fall temperatures showed themselves along the Canadian border: Redmond, Ore., and Pellston, Mich., both reported 39°. Midday 50's were common from the Pacific Northwest to the Great Basin. Salt Lake City, Utah, reached a 57° high, compared to 87° Friday.

Sunday, fall was even more evident: snow dusted Mt. Washington, N.H., while locations in New England, the Lake States, and the Rockies dipped into the 30's. Nationwide a rather mild day followed, with highs mostly in the 70's and low 80's.

#### NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Good rains prompted by Tropical Storm Delia over much of the Central Region boosted soybeans and cotton but halted rice harvesting at the midpoint in Texas and Louisiana.

SMALL GRAINS: The small grain harvest is in the wrapup stage. Less than 10% stands left to combine in North Dakota, Montana, Idaho and Washington. All but the northernmost counties are completed in Minnesota and Wisconsin.

Small grain farmers concentrated on plowing and fertilizing land for fall planting. Improved soil moisture from Labor Day weekend rains permitted South Dakota farmers to get going on plowing and seeding. Winter wheat seeding there is 28% done while the Minnesota crop is 50% sown and Nebraska wheat is 15% sown.

Good rains over Kansas, Oklahoma and Texas improved soil moisture conditions. Seeding will be in full swing in these States soon. Topsoil moisture shortages continued to impede winter wheat seeding in Colorado, Montana, Idaho, Washington and Oregon.

CORN: The Corn Belt corn crop advanced to 31% mature and safe from frost on September 9, compared to about 27% mature this time last year. Maturity still lags behind normal in Ohio, Indiana, Illinois, Iowa, Missouri and Kansas. About 75% of the Corn Belt acreage is in or beyond the dent stage.

The Iowa crop enjoys good to excellent condition: 28% mature versus a 5-year average of 38% mature; 67% is dented versus an 82% average. Illinois corn is good to excellent and is the most mature in the Corn Belt at 45% mature versus a 1970-72 average of 52% mature.

Corn harvesting is well underway in the Carolinas, but slowness in maturing keeps picking in other Southern States on the light side. The Texas crop is only 32% harvested versus 50% in 1972.

COTTON: Good rains (2 in. or more) triggered by Tropical Storm Delia boosted cotton prospects over most of the South from western portions of Texas and Oklahoma across Arkansas and along the Mississippi River Valley. Remaining areas got at least 0.8 inch except areas missed in northern Alabama and most of Georgia where soil moisture is very short. The rains will aid sizing and development of bolls. Early planted cotton matures rapidly while late cotton is still fruiting. Less than 10% of the plants have open bolls in most areas.

First bales were ginned last week in central Alabama and in Oklahoma. Growers made fair progress harvesting cotton in the Lower Rio Grande Valley of Texas; statewide 6% is harvested versus 19% in 1972. Cotton in the Western States steadily matured permitting a few bales to be ginned near Yuma, Arizona. California growers completed their final irrigation on cotton.

SOYBEANS: Good rains totaling 0.8 to 2.0 inches benefited late planted soybeans in much of

Wisconsin, Iowa, Illinois, Kansas and Missouri while most of the South received the same except for rainless Georgia and northern Alabama. In contrast, soil moisture was mostly short in Michigan, Indiana and Ohio causing late soybeans to suffer.

The Corn Belt soybean crop advanced to 42% of the acreage with yellowing leaves while leaves were shedding on 11% of the acreage. This is about the same overall progress as for last year's late crop, but development now lags behind 1972 in Ohio, Indiana, Iowa, Missouri and Kansas.

The good rains in the South came at a critical time since most pods are filling. Some acreage is still setting pods in Arkansas and Mississippi. Dryness hurt soybeans in Kentucky, Alabama, and Georgia.

RICE: Tropical Storm Delia delt a severe blow to unharvested rice in Texas and Louisiana on September 4 and 5. The torrential rains and gusty winds caught the rice crops only about half harvested in these States. Plants on much remaining unharvested acreage have been blown down, some acreage flooded.

The full extent of rice losses will depend upon weather for the next few weeks. If it stops raining, farmers will be able to resume harvesting although harvesting losses will be abnormally large. Continued wet conditions will slow harvest progress and reduce chances to salvage the crop.

OTHER CROPS: Sorghum harvesting in Texas advanced to 45% complete versus 43% in 1972. Sorghum is 25% mature in Oklahoma, 10% mature in Kansas, and 15% mature in Nebraska.

Tobacco harvesting was active in Virginia and Maryland. In Kentucky, burley is 44% cut and dark types 45% cut.

Sugar beet harvesting was rapid in California and got underway in Minnesota.

Hot weather in Michigan pushed dry beans to maturity, 42% are harvested. Dry bean harvesting is progressing in California and are 19% cut in Colorado.

FRUITS AND NUTS: Apple harvesting increased in the mid-Atlantic States and started in Washington and Oregon. Harvest of early varieties continued in northeast orchards.

Harvest of Concord grapes began in New York. California's fresh grape picking continued active; wine grape harvesting is underway statewide.

VEGETABLES: Hot, dry weather hastened vegetable development and harvesting in the northeast and hurt late vegetables in Michigan.

Lettuce shipments increased in California at Salinas and moved in good volume at Santa Maria.

PASTURES AND LIVESTOCK: Good rains benefited pastures in much of the Nation's central area. Some rains even fell on parched Montana and North Dakota. Pastures in much of the East declined while danger of fires persisted in the Pacific Northwest.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Sep. 9, 1973

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#### 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: Continued dry north, central; scattered showers south, central. Heaviest rains past 2 weeks near coast, averaging 5.00 in. Temperatures well above normal for second week. Extremes: 98°, Gadsden, 63°, Muscle Shoals. Rain needed to maintain crop development, especially cotton and soybeans. Soil moisture short most counties.

Cotton opened most fields south, central and north. First bales ginned central. Heavy shedding of "top-crop", especially Tennessee Valley, due to dryness. Soybeans need rain during critical pod-filling stage, crop setting pods, many early fields yellowing. Corn harvest slow south and central as moisture content high. Peanut harvest has priority southeast. Federal-State Inspection reported 2,436 tons peanuts inspected, 45,736 tons last year when dry weather prompted early digging. Hay crops need rain for additional cuttings. Pastures short several northern and few southern and central counties.

ALASKA: Little or no precipitation Tanana Valley; temperatures a few degrees subnormal. Kenai Peninsula precipitation near normal and temperatures normal. Matanuska Valley precipitation much below normal. Temperatures a few degrees above normal. Soil moisture supply adequate to surplus all areas.

Barley harvest underway District 1, moisture content of grain very high. Potato harvest underway Tanana and Matanuska Valleys. Potatoes on Kenai Peninsula virtually froze out August 15 in Soldotna-Sterling area. Harvest in Homer area to begin shortly. Second crop hay harvest about 15% complete in Matanuska Valley.

ARIZONA: Dry statewide except light isolated showers Wednesday, Thursday in central, White mountains and scattered thundershowers east, north Sunday. Temperatures from 2° to 3° subnormal northeast, extreme southwest to near normal northwest, northcentral, 2° to 4° above southcentral, southeast.

Cotton matured steady rate, few bales harvested Yuma, full harvest expected in 2 weeks. Sorghum harvested Yuma. Satisfactory progress sugar beets Cochise County, planting started Yuma. Early harvest yields alfalfa seed Yuma about average. Alfalfa hay good, quality reduced Yuma, strong winds. Renovation, preparations for planting Yuma. Lettuce planting nearing completion Marico Maricopa, Pinal, Pima counties. Crop making good progress. Farmers weeded, thinned early plantings all areas. Early growing conditions good. Lemon harvest limited Yuma area, early quality good. Picking limes for local markets continued. Salt River Valley. Groves generally good, new crop sizing rapidly.

Ranges generally fair statewide. Summer rains scattered, very light, north better than normal. Southeast deteriorated rapidly due to dry July, August. New forage growth retarded, prospects for fall seed diminished. Stockwater adequate, rapidly diminishing. Cattle, calves mostly good. Sheep, lambs fair to good, movement to winter pasture to begin soon.

ARKANSAS: General rain, 2.00 in. Most places, locally much larger. Jonesboro got 9.27 in,

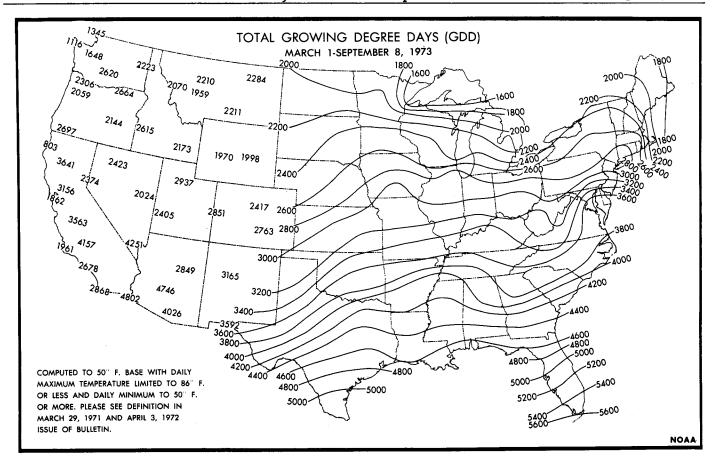
Little Rock 7.97 in., Mena 7.89 in., and Nashville 7.27 in. Some flooding in Jonesboro and Little Rock. Heaviest rains mid to late week from moisture shoved northward by Tropical Storm Delia. Temperatures averaged in low 70's north to near 80° south, with 4° subnormal central to 3° above eastcentral border. Cooling at midweek followed by warming on weekend. Extremes: 94° Judsonia, Calico Rock and Fayetteville; 64° at Gilbert.

Heavy rains replenished soil moisture. Cotton fair to good, premature opening slowed, conditions favorable for boll sizing and development. Open weather needed to prevent rot. Rice prospects good, limited harvest; widespread harvest expected midmonth. Heavy rains caused some rice lodging. Soybean prospects improved, early beans filling and maturing, late beans growing and blooming. Early sorghums and corn maturing, silage harvest continued. Early sorghum grain harvest began, yield prospects good. Limited land preparation and seeding of small grains. Hay harvest delayed. Hay prospects improved. Grape and apple harvests continued. Watermelon harvest almost over. Okra harvest active. Pastures revived, condition improving. Cattle good.

CALIFORNIA: Precipitation mainly limited to scattered showers or thundershowers. Temperatures warmed to above normal over most areas early week and cooled to subnormal most areas and several degrees subnormal south coast.

Small grains planting in progress. Rice harvest underway, some concern over cool weather on late varieties. Safflower harvest complete. Milo fields good progress, sprayed for aphids and corn earworm. Cotton opening, growers completing final irrigation, defoliation in few fields, more wilt reported. Sugar beet harvest rapid pace, planting 1974 crop started. Corn and dry bean harvest in progress. Alfalfa harvest continued.

Picking fresh grapes continued active. Wine grape harvest underway all areas. Thompson raisins harvest continued. Zante currants rolled. Some growers experiencing lighter trays. Late varieties freestone peaches, nectarines, plums continued; picked volume light, decreasing. Harvest clingstone peaches nearly over. Prune harvest very active. Watsonville Delicious apples underway. Harvest other varieties starting. Bartlett pear harvest virtually complete. harvest over half complete. Walnut harvest underway few areas early varieties. Broccoli, cauliflower Salinas moving good volume. Cauliflower Santa Maria full swing. Brussels sprout harvest full swing. Picking cantaloupes light westside, cool weather delayed maturity. Carrot digging light Salinas. Celery cutting Salinas increasing. Sweet corn continued southern California, San Francisco Bay area. Honeydew harvest continued Sacramento Valley. Lettuce shipments increased Salinas, good volume Santa Maria. Bell pepper harvest light Salinas. Sizing slowed, cool weather Gilroy. Potato digging expected full swing northern areas about 2 weeks. Potato harvest active Livingston area. Fresh market tomato picking continued central valley, south. Processing tomato increased Sacramento Valley. near over areas San Joaquin, watermelon harvest north San Joaquin.



Movement cattle, sheep from higher to lower pastures. Livestock generally good. Stockwater mostly adequate, problem some north counties, fire hazard high. Fires prohibited all northern National Forests. Supplemental feeding increased. Milk, egg production seasonal levels.

COLORADO: Fair and mild early week. Partly cloudy skies with scattered thundershowers were the rule after 5th. Precipitation increased late week. Hail, 1 to 1-3/4 in fell over portions of east on the 8th and 9th. Total precipitation extremely variable ranging from over 2.00 in at Creede to less than 0.25 in at most locations. Temperatures several degrees subnormal. Coldest weather fall season occurred early on the 3rd as lows dropped to the 20's, 30's and 40's. Lowest: 20°, Fraser.

Planting winter wheat areas sufficient rainfall, 13% acreage seeded, 36% 1972. Light frost reported higher areas. Corn maturing rapidly, 81% in dough, 40% dented, 95% and 67% 1972. Grain sorghum good to excellent, 55% turning color. Summer potato harvest active, 46% due. Potatoes, dry beans and sugar beets good to excellent. Dry beans 19% cut, 4% threshed. Harvest peaches and pears in volume. Picking apples few orchards. Second cutting alfalfa 90% harvested, third cutting 25%. Pastures declining seasonally, providing adequate forage. Livestock good to excellent.

FLORIDA: Temperatures near normal. Daily showers and thundershowers mainly peninsula. Rainfall moderate except heavier in interior of central. Spotty rainfall throughout summer rainy season causing varied crop prospects, overall condition field crops mostly good.

Harvest field corn active. Peanut digging increased. Early soybeans good, variable late crop. Sugarcane grew well some seeding still underway. Farmers made hay and silage actively between showers. Soil moisture mostly adequate, some areas have surplus. Pastures mostly good. Cattle good to excellent.

Citrus excellent aided by warm temperatures, rain. Some ditching and pumping of excessive water. Snap bean, cucumber, eggplant, pepper, tomato planting active. Cabbage, celery being transplanted. Earliest lettuce, romaine, other leaf crops emerged; near thinning stage. Carrots, radishes being seeded. East Coast sweetcorn planting to start midmonth, earliest up to good stands. Light supplies greens, southern peas to local markets.

GEORGIA: Temperatures 1° to 4° above normal except near normal southeast. Scattered showers extreme south; variable amounts averaged 0.75 in. Continued dry central and north with isolated showers, but no rain in many areas. Hot weekend and continued dry except scattered showers welcomed northeast.

Soil moisture short to mostly very short northern two-thirds. Extremely varies south. Soybeans and cotton need moisture. Peanuts good, harvest late but increasing, 25% dug. Corn good, 8% harvested. Cotton fair to good, harvest still very light. Soybeans fair to good, shedding pods in drier areas. Pecans fair to good, considerable shedding. Pastures declining. Cattle good. Haying very active but volume off. Small grains 2% seeded, dry weather delaying.

HAWAII: Weather dry except light showers windward areas. Heavy irrigation needed to maintain crop progress. Supplies of some vegetables decreased because irrigation water lacking. Bananas plentiful. Forage feed low most areas. Supplementary feeding and hauling water necessary drought areas. Market demand excellent. Pineapple and sugar harvesting active; weather favorable.

IDAHO: Following storm fronts, temperatures rose midweek. Highs ranged from mid 80's to mid 90's except north. Highest at Orofino 103°. Lewiston's 101° and Moscow's 100° broke their all-time September high record. A few higher elevation stations reported some lows freezing or below. Storms end period lowered temperatures and brought significant precipitation to east and southcentral areas as well as Grangeville and Lewiston in north where seasonal totals remain much subnormal. Warming followed cool wet

Rains slowed harvesting. Combining at mop-up stage winter wheat, nearing 90% complete spring wheat and barley. Mostly higher elevation fields remaining. Potatoes made good progress, harvest active southwest. No killing frost, spraying and mechanical killing of vines starting. Rain delayed dry bean harvest. Onion harvest neared peak. Dryland pastures and ranges need additional rains.

ILLINOIS: Moderate to heavy rains early week, Saturday. Little precipitation at other times. Temperature warm, humid Monday, Tuesday, mild remainder of week.

Corn 13% excellent, 74% good, 12% fair, 1% poor; 1972 88% good or excellent. Corn about 90% dent stage, 82% 1972, 1970-72 average 90%. About 45% mature, 37% 1973, average 52%. Soybeans 10% excellent, 72% good, 18% fair; 1972 95% good or excellent. Soybeans about 55% yellowing, 46% 1972, average 67%. About 15% shedding leaves, 9% 1972, average 19%. Harvest started few fields early-maturing soybeans.

Third crop alfalfa hay nearly 75% cut, 57% 1972, average 71%, condition mostly fair to good. Plowing for winter wheat about 80% complete, average 76%. Pastures 9% excellent, 45% good, 38% fair, 8% poor. Soil moisture 40% short, 59% adequate, 1% surplus. Farmers had nearly 6 days suitable for fieldwork. They cut and baled hay, plowed winter wheat, prepared equipment and storage for harvest, and harvested corn for silage.

INDIANA: Warm but cool weekend brought showers; 0.50 in north and central, 0.75 in south. Temperatures ranged from 50's to low 90's. Farmers had 6 days for fieldwork. Topsoil moisture mostly short to adequate. Subsoil moisture short to adequate. Corn 95% in or past dough stage, 15% mature, 55% dented; ahead of 1972 pace. Soybeans 25% turning yellowing, normal 40%. Wheat land 65% plowed, same as 1972, 5% ahead of average. Pastures declined, rated poor to fair.

IOWA: Temperatures were near seasonal to cool with moderate to locally heavy showers. Row crop conditions fair to excellent; over 91% either good or excellent. Farmers had nearly 6 days suitable for fieldwork. Corn 91% dough stage, dent stage 67% with 5-year average 82%, and 28% mature compared to 5-year average 38%. Soybeans 36% leaves turning, average 47%. Soybeans 10% leaves shedding, average 17%. Third cutting alfalfa 67% harvested. Second crop clover 50% harvested. Winter wheat 16% planted. Hay crops condition ranges from poor to excellent with over

86% either good or excellent. Pastures 1% very poor, 3% poor, 18% fair, 51% good, 27% excellent. Topsoil moisture 22% short, 75% adequate, 3% surplus.

KANSAS: Cool temperatures averaged 1° to 4° subnormal. Precipitation widespread. Greatest amounts eastern two-thirds State. Largest amounts La Bette County 8.18 in, Miama County 6.33 in and Linn County 5.15 in. Wheat and winter barley seeding started west. Grain sorghum 95% headed, same 1972; average 95%. Grain sorghum acreage 10% mature, same 1972, average 15%. Corn 90% in or past dough stage, 95% 1972 and average. Corn 25% mature, 35% 1972, average 50%.

Most soybeans setting pods, few fields ready to harvest. Alfalfa third cutting 90% complete, 95% 1972 and average. Fourth cutting 15% complete same 1972, average 20%. New alfalfa acreage 50% seeded, 55% 1972 and last year. Pastures and ranges generally improved. Some range cattle receiving supplement. Major activities: Silage harvesting, preparing seedbeds and fertilizing wheat.

KENTUCKY: Hot, dry early week. Showers, cooler mid and late week. Temperatures a few degrees above normal and precipitation averaged a little less than 0.50 in.west to around 1.00 in.east.

Nearly all days suitable fieldwork. Soil moisture 91% short, 9% adequate. Crops beginning show moisture stress. Corn 19% mature, 61% dented, 20% dough or earlier. Soybeans all stages maturity, 13% shedding leaves, another 32% turning yellow. Bloom droppage and poor filling late beans. Burley tobacco 44% cut, dark types 44% cut. Burley yields spotty, many below average. Curing conditions favorable. Lespedeza hay harvest 85% complete. Pastures rapidly turning brown, supplemental feeding increased.

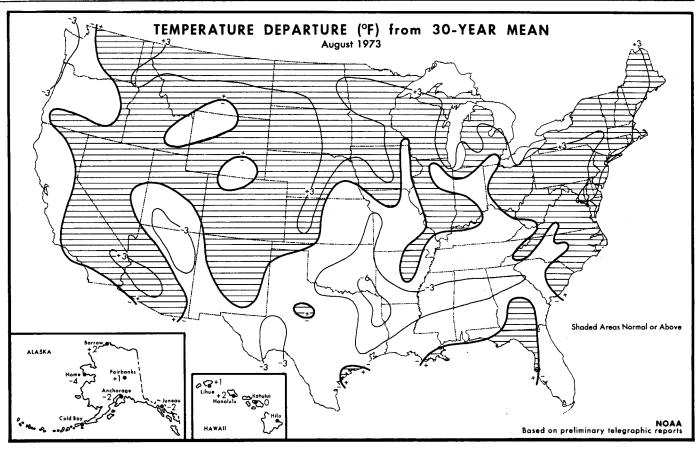
LOUISIANA: Gusty winds from Tropical Storm Delia early week. Heavy statewide rains 2.00 in to 10.00 in +. Greatest 1-day total 7.62 in, Lake Charles Wednesday. Temperature average extremes 1° above to 4° subnormal. Extremes 91° and 68°. Fieldwork limited. Farmers ditched and pumped water from fields. Little fall plowing and grass planting northern parishes early week. Farmers readying harvesting equipment. Statewide fieldwork possible 0.5 day. Soil moisture surplus statewide.

Cotton prospects good, late planted still fruiting, earlier planted started maturing. Soybeans good, some fields armyworm problems. Early beans maturing. Rice 50% harvested; 50% to 98% acreage remaining southern parishes down, some under water. Considerable acreage sugarcane lodged. Pasture feed above average, some low pastures flooded. Livestock good.

MARYLAND-DELAWARE: Warm, average 8° above normal. Extremes: Upper-90's to upper-50's except low-90's and low-50's Garret County. Precipitation normal to above except from Fredrick County west and northeastern Maryland and northern Delaware. Amounts 0.50 to over 1.00 in except near 3.00 in isolated showers near Baltimore and central Eastern Shore.

Soil moisture short across most northern areas. Crops matured rapidly. Corn 40% mature, 1972 26%, normal 29%. Harvest started. Soybeans 14% yellowing, normal 10%. Tobacco 72% cut, 1972 66%, normal 77%. Peach harvest near end. Jonathan and Grimes apples at peak. Delicious varieties to peak about October 1.

(Continued on Page 11)



August 1973

TEMPERATURE: August temperatures over the Nation mostly averaged above normal, but below normal temperatures occurred in the south-central and southeastern States, and along the Pacific coast.

Average temperatures varied greatly. August began with subnormal temperatures except along the coasts and the Pacific northwest, but ended with an intense heat wave which roasted areas from the Rockies to the Atlantic.

The month began with a large Canadian high bringing cool, dry air southward to the Gulf, setting many record lows: Omaha, Neb., 53° on 2nd; Fort South, Ark., 57° on 3d. As the High moved eastward, temperatures warmed markedly, but a second cold air mass kept temperatures below normal over the Rockies and Plains States for the 3rd consecutive week. Temperatures averaged 3° to 6° below normal in much of this area, while from the Mississippi eastward and over the western mountains they were 3° to 6° above normal.

The midmonth temperature pattern reversed itself except over the western mountains, the Atlantic Coast, and New England. A large High over the northern Appalachians brought warm air as far north as the Dakotas and Canada: Philip., S.D., 103° on 16th, Glasgow, Mont., 102°. Dakotans endured extreme temperatures for several days.

The Plains continued above normal through the rest of August; temperatures averaged from 6° to 16° above normal across the northern Plains, the corn Belt and southern Kentucky-Virginia northward. A large High over the southeast pumped hot, humid air northward. In the Upper Great Lakes area, temperatures averaged 16° above normal. Milwaukee, Wisc. weathered it's hottest day in 18 years with a record 99° on the 27th; Bismarck, N.D. hit 107°, Pierre, S.D. 110°. Meanwhile, temperatures over the far western States averaged 3° to 6° below normal as cool, Canadian moved south-

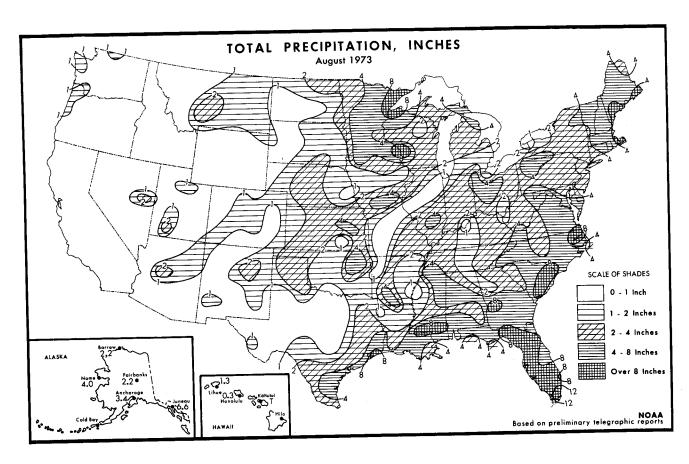
ward. However, the large High over the southeast blocked the cooler air's eastward advance.

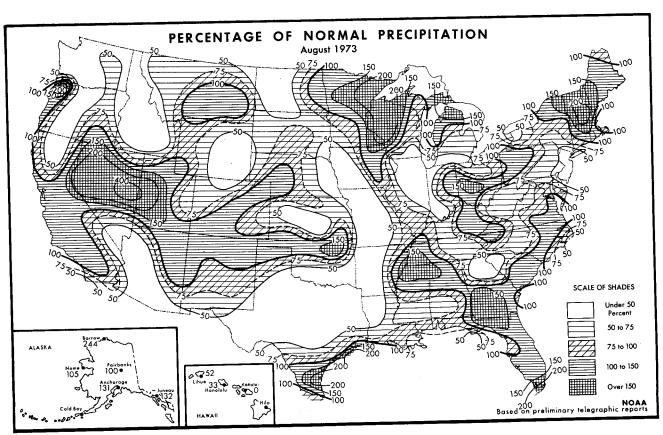
PRECIPITATION: August rainfall was below except for a few scattered areas. Notable areas above normal include: New England, the Ohio River Valley, the southeastern Seaboard and Florida, southern Texas, Minnesota and Wisconsin and a narrow area extending from Oklahoma, through Utah and Nevada. Rainfall amounts in the last area, however, were generally small. While Winnemucca, Nev., received 250 percent of normal, that measures only 0.50 in of rain. Duluth, Minn., received 8.46 in of rain, 224 percent of normal.

August began with most heavy precipitation in New England and along the Atlantic Coast, although some scattered thunderstorms occurred over the rest of the Nation. The Passaic River brought death and destruction when it reached record heights at Chatham, N.J. Thunderstorm activity was locally heavy: Houston, Tex., 2.50 in on the 2d, Florence, S.C., 5.55 in on the 3rd.

A slow moving front brought thundershowers to the Nation's eastern half during the week ending the 12th. One storm dumped 2.10 in of rain at Randloph, Iowa, in 45 minutes; another, 2.81 in at Baileyville, Kansan, in 1 1/2 hours.

At midmonth, the western half was dry, with thunderstorm activity in the east. During the last decade of the month, the weather was dominated by a massive High located over the southeast. Rainfall was spotty during the week of the 20th; the Gulf States, the southern Great Plains and Texas received no rain. Rainfall was associated with thunderstorm activity: Peterson, Iowa, had 9.45 on the 22nd, 8.00 in of it in 6 hours, Sheldon measured 6.31 in. Shower activity was heavy at month's end along a slow moving cold front located over the Dakota's and Wyoming.





Temperature and Precipitation Data for August 1973

	Tem	pera- e °F	Preci	oitation ches	pitation Data for	Temp ture			pitation nches		Temp	era-		itation ches
States and Stations	Average	Departure	Total	Departure	States and Stations	Average	Departure	Total	Departure	States and Stations	Average	Departure	Total	Departure
ALA.Birmingham. Mobile Montgomery. ALASKA.Anchorage Barrow Fairbanks Juneau Kodiak Nome ARIZ.Flagstaff. Phoenix Tucson Winslow Yuma ARK.Fort Smith. Little Rock CALIF.Bakersfield. Eureka Fresno Los Angeles Red Bluff San Diego San Francisco. Stockton COLO.Denver Grand Junction. Pueblo CONN.Bridgeport. Hartford D.C. Washington. FLA.Apalachicola. Daytona Beach. Ft. Myers Jacksonville. Key West Lakeland Miami Orlando Tallahassee Tampa W.Palm Beach. GA.Atlanta Augusta Macon Savannah. HAWAII.Hilo HOnolulu Kahului Lihue IDAHO.Boise Lewiston Pocatello ILL.Cairo Chicago Moline Peoria Rockford Springfield IND.Evansville Ft. Wayne IOWA.Burlington Des Moines Dubuque Siouk. Burlington Des Moines Dubuqe Siouk. Burlington Des Moines Dubuqe Siouk. Burlington Des Moines Dubuqe Siouk. City KANS. Concordia Dodge City Goodland Topeka Wichita KY.Lexington Louisville Louisville	81 54 40 55 45 56 57 81 81 82 83 81 82 82 81 82 82 83 81 82 83 84 85 85 85 86 86 87 87 87 87 87 87 87 87 87 87	-41122+12-4+5303012-12-12-12-12-12-12-12-12-12-12-12-12-1	5.5.7.4.2.2.6.0.3.T.5.4.4.4.3.0.1.T.0.0.T.T.0.3.6.8.1.5.4.4.4.6.7.5.6.0.6.3.8.4.5.4.6.1.5.0.3.T.3.T.T.1.5.9.3.9.9.7.8.8.7.3.5.4.5.1.4.4.2.8.7.6.9.1.2.4.4.4.3.7.8.7.8.7.8.7.8.7.8.7.8.7.8.7.8.7.8.7	+ .5.94.83.06.1.00.00.1.1.5.1.4.0.1.5.1.4.0.1.5.1.4.0.0.00.0.1.1.5.1.4.0.1.5.1.4.0.1.5.1.4.0.1.5.1.4.1.5.1.4.5.1.6.3.1.3.2.1.3.2.6.9.0.1.5.5.0.0.0.0.1.1.5.2.4.4.1.4.4.4.1.4.4.4.4.4.4.4.4.4.4.4.4	La.Baton Rouge. Lake Charles. New Orleans. Shreveport. MAINE.Caribou Portland. MD.Baltimore. MASS.Boston Chatham MICH.Alpena Detroit Flint Grand Rapids. Houghton Lake Lansing. Marquette Muskegon. S. Ste. Marie MINN.Duluth Internatl Falls Minneapolis Rochester St. Cloud MISS.Jackson. Meridian. MO.Columbia Kansas City St. Louis Springfield MONT.Billings Clasgow Great Falls Havre Helena. Kalispell Miles City. Missoula. NEER.Grand Island Lincoln Norfolk N.Platte Omaha. Valentine NEEV.Ely Las Vegas Reno. Winnemucca N.H.Concord N.J.Atlantic City Trenton N.MEX.Albuquerque Roswell N.Y.Albany. Binghamton Buffalo New York. Rochester Syracuse. N.C.Asheville Charlotte Creensboro. Hatteras. Raleigh Wilmington N.DAK.Bismarck Fargo Williston OHIO.AKron-Canton Cincinnati Cleveland Colveland	80 80 80 80 80 80 80 80 80 80	12063423   401333332425311220634413 223123124011252321334344220101325123110	7.7785389055521773459650022976667348387911559112394039063706439606109	$\begin{smallmatrix} -1.5 & 8.7 & 7.1 & 8.9 & 7.2 & 4.4 & 6.4 & 9.0 & 9.0 & 9.2 & 5.3 & 3.3 & 4.4 & 6.4 & 9.0 & 9.1 & 7.2 & 1.3 & 9.4 & 6.5 & 4.9 & 9.1 & 7.2 & 1.3 & 9.4 & 6.5 & 4.9 & 9.1 & 7.2 & 1.3 & 9$	Youngstown. OKLA.Okla. City Tulsa OREG.Astoria. Burns Medford. Pendleton Portland. Salem. PA.Allentown. Erie. Harrisburg. Philadelphia. Pittsburgh. Scranton. R.I. Providence S.C. Charleston Columbia. Greenville. S.D. Aberdeen Huron Rapid City. Sioux Falls TENN.Chattanooga. Knoxville Memphis. Nashville TEX.Abilene. Amarillo. Austin. Beaumont. Brownsville Corpus Christi Dallas. Del Rio. El Paso Fort Worth. Galveston Houston Lubbock Midland San Angelo. San Antonio Victoria. Waco Wichita Falls UTAH.Blanding. Salt Lake City. VT.Burlington VA.Lynchburg. Norfolk Richmond. Roanoke WASH.COlville Omak Quillayute. Seattle-Tacoma Spokane. Walla Walla Yakima. W.Va.Beckley. Charleston. Huntington. Parkersburg WIS.Green Bay La Crosse Madison. Milwaukee WYO.Casper. Cheyenne. Lander. Sheridan. P.R.San Juan.	71 80 79 79 75 86 66 72 72 66 64 75 77 78 81 81 77 76 80 83 83 83 83 84 83 83 84 83 85 86 86 86 86 86 86 86 86 86 86 86 86 86	- 3 - 3 - 2 - 2 - 3 - 2 - 2 - 3 - 4 - 5 - 5 - 1 +	.3 .2 .2 T 2.8 2.1 1.7 2.6 8.6 2.5	7 -1.1 -1.022 +.3 -2.1 -1.5 -2.6 -1.5 -2.6 -1.2 -1.2 -1.2 -1.2 -1.3 -1.2 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3

(Continued From Page 7)

MICHIGAN: Temperatures averaged 3° to 5° above normal and rain totaled around 0.25 in. but locally over 1.00 in. upper to generally under 0.10 in lower except some amounts up to 1.00 in. some northern areas. Daytime highs in 80's and 90's prevailed early week, 60's and 70's common weekend; Stambaugh western upper had weekend frost, lows of 34° and 32° respectively while mid-30's in eastern upper and extreme northern lower Michigan over weekend.

Dry soils and hot early week weather matured fall crops rapidly but hurt later planted fields. Soil moisture short most of lower peninsula. Farmers had 5.8 days suitable for fieldwork. Dry, hot weather pushed corn to maturity rapidly. Later planted fields hurt. Corn 64% dented or more advanced, 11% mature. Corn silage 8% harvested. Soybeans suffered from dry weather, leaves turning or more advanced 54%, leaves shedding 12%. Hot weather forced dry beans to maturity 42% harvested. About 28% third cutting hay harvested. Pasture feed supplies below average. Dry, hot weather caused some drop of apples and poor coloring and hurt late vegetables. Sugar beets need rain. Potatoes 29% harvested.

MINNESOTA: Temperatures mostly normal to 2° below except for eastcentral and southeast districts where averages 2° above. Precipitation continued above normal by 0.50 in, or so for northern districts and parts of southeast district. Elsewhere weekly totals were 0.25 to 0.50 in, subnormal. Rains of 0.50 in, finally fell over southwest district morning of 8th.

Fall row crops good condition except several dry southwest counties where prospects poor to fair. Corn 80% dented, 40% mature. Soybeans 33% shedding leaves. Spring grain harvest complete except northern counties. Sugar beet harvest underway, crop condition good. Sunflowers fair to good. Seeding winter wheat and rye 50% complete. Fall plowing of grain and hay stubble about 50% finished. Soil moisture adequate except southwest where supplies remain short.

MISSISSIPPI: Scattered showers daily, greatest day's rainfall 3.55 in. Temperatures near normal. Weekend generally fair to warmer. Tornado hit Hinds County, no significant damage.

Soil moisture supplies mostly short north-central and generally adequate to surplus elsewhere. Farmers got an average 2.8 days suitable for fieldwork. Cotton and pecans fair to good. Corn mostly fair. Sorghums, hay crops, soybeans, rice, sweet potatoes, pasture and livestock mostly good. Cotton 5% open. Soybeans 79% setting pods, 17% turning. Corn 39% dented, 44% mature, 6% harvested. Sorghums 62% headed, 27% mature. Rice 78% headed. Hay 83% harvested. Sweet potatoes 24% harvested.

MISSOURI: Precipitation general statewide with totals ranging mostly from 1.00 to over 5.00 in. A few local areas, mostly in extreme north and southeast, had lesser amounts. Temperatures averaged near or little above normal.

Farmers had 4 days suitable for fieldwork. Corn 77% dent stage, fair to good condition. Soybeans 89% setting pods. Grain sorghum 30% mature, 34% 1972. Cotton bolls 3% open, fair to good condition. Third crop alfalfa 90% harvested. Soil moisture 29% short, 71% adequate.

MONTANA: Mostly warm and dry then cooler late week, some precipitation fell end week. Temperatures normal eastern to 7° above normal west and central. Warmest temperatures midweek. Lowest nighttime temperatures early week. Precipitation subnormal except in northcentral, southcentral and northeast.

Topsoil moisture shortages continued to impede winter wheat seeding. Some grasshopper control necessary on new seedings local areas. Winter wheat crop nearly 10% seeded. Soil moisture short northwestern, northcentral and central. Winter wheat harvest virtually complete, spring wheat 95% done, oats and barley about 90%. Corn sileage and dry beans nearly 15% harvested. Flaxseed 60% harvested. Range feed supplies still short except east, south-

central and parts southwest. About 45% cattle and calves moved from summer ranges in northwest, northcentral and central, about 25% elsewhere.

NEBRASKA: Needed general rains fell east; scattered showers west. Heaviest rains southcentral and southeast. Temperatures subnormal. Soil moisture supplies increased: Topsoil 3% surplus, 36% adequate, 61% short; subsoil 45% adequate, 55% short. Farmers hayed, put up silage, irrigated, prepared seedbeds and seeded wheat. Fieldwork 5.5 days. Range and pasture 5% above average, 56% average, 39% below average.

Corn 15% excellent, 70% good, 15% fair; 85% in or beyond dent. Corn 30% mature, 20% 1972, 25% normal. Sorghum 24% excellent, 56% good, 20% fair; heads turned 80%, 65% 1972, 70% average. Ripe 15%, 10% 1972 and average. Soybeans 13% excellent, 60% good, 27% fair, leaves turning or beyond 70%. Leaves shedding 25%, earlier than 1972 and average. Winter wheat 15% planted, later than 1972 but near normal. Third cutting alfalfa 95% complete, 40% fourth crop; 7% excellent, 61% good, 32% fair. Wild hay 10% excellent, 67% good and 23% fair. Sugar beets maturing, harvest about October 8. Dry beans combined.

NEVADA: Temperatures varied from 2° subnormal south-central to 6° subnormal extreme south. Extremes: 105°, Las Vegas; 24°, Mountain City. Only precipitation: 0.07 in., Ely and 0.03 in. Tonopah. Hay harvest neared completion. Small grain harvest continued high valleys. Third cutting alfalfa underway west, fifth cutting about over extreme south. Alfalfa seed harvest active all areas. Pahrump Valley cotton progressed well with most bolls formed. Cattle, sheep good to excellent. Very little movement from range.

NEW ENGLAND: Temperatures hit 80's to 90's until Wednesday. Then averaged in 60's to 70's. Severe storms south. Most showers Thursday Friday. Farmers hayed and cut silage. Early potato yields good south, fair to poor north. Aroostook County potatoes need rain. Cranberry harvest began. Apples sized well.

NEW JERSEY: Temperatures: 3° to 7° above normal. Extremes: Mid-90's; 38°, Newton. Isolated heavy thundershowers dumped over 1.00 in. of rain a few areas, but most of State remained very dry. Heaviest amount 1.42 in., Mahwah Thursday. Soil moisture short. Cooler weather beneficial. Harvest of fall vegetable acreage increased. Harvest of summer crops moderate to light. Light sweet potato movement started. Peach harvest neared completion. Apple

harvest increased. Cranberry harvest next week. Early soybeans began to color. Late field corn and soybeans need rain. Silage making active. Recent hot weather hurt milk and egg production.

NEW MEXICO: Week began cool, then warmed sharply. Precipitation generally sparse, greatest amount 6.78 in. Los Alamos. Temperatures near normal southeast plains to 5° above normal central, Northeastern plains cool spot with subnormal temperatures. Subfreezing readings mountainous northern areas early week. Soil moisture short. Ranges fair. Livestock good. Grain sorghum, corn good. Corn well into dough stage. Corn silage harvesting. Dryland winter wheat seeding expected to increase. Cotton fair to good, some bolls opened. Alfalfa good, cutting continued. Apple harvesting increased, crop good. Other irrigated crops good.

NEW YORK: Temperatures averaged 4° to 9° above normal, ranging from 96°, Poughkeepsie, to 42°, Boonville. Heat wave ended Thursday and temperatures in the upper 80's and 90's dropped to the 60's and low 70's by the weekend. Rainfall mainly confined to midweek significant and generally beneficial except for Hudson Valley where less than 0.50 in. fell. Bridgehampton had only a trace while Massena had 3.58 in. and Ellenburg Depot had over 2.00 in.

Corn matured rapidly and harvest for silage underway most areas. Dry bean harvest began but yields reduced due to dry weather. Third cutting alfalfa continues with about 40% cut, yields good. Late harvesting of oats continues in a few areas. Pastures generally poor to fair. Hot weather and dry soil conditions continued to hasten vegetable crop development and advance harvest schedules. Potato harvest increased, Long Island, upstate. Orange County onion harvest progressed steadily in late seed fields. In central and western onion sections topping in full swing. Harvest of Concord grapes for cold press began. Apple harvest mostly early varieties although some McIntosh have been picked in Hudson Valley.

NORTH CAROLINA: Continued hot with little or no rainfall. Noontime temperatures in upper 80's to low 90's, and nighttime in mid-60's to low-70's. Some isolated thindershowers, most of State received none. Fieldward veraged 5.0 days. Soil moisture 90% short, 10 yes short. Flue-cured tobacco harvest over Borde Belt. Old, Middle Belt still barning, markets opened. Border, Eastern Belts closed for week. Burley Belt 35% crop barned. Corn harvest well underway, 20% harvested. Cotton condition good, bolls opening. Heavy spraying dusting soybeans, insect numbers increased; field deterioration. Peanut digging, high gear in week or two. High yields anticipated. Few small grains planted. Haying heavy, good second cut. Pastures fair to good. Apple harvesting 35% picked.

NORTH DAKOTA: Temperatures ranged from normal in eastcentral to  $3^{\circ}$  above normal northwest. Temperatures pleasant. Extremes:  $34^{\circ}$ , Watford City:  $95^{\circ}$ , Dunn Center. Precipitation above normal statewide, northwest got 1.73 in. above normal. Wahpeton had most, 2.91 in. Weekend precipitation scarce.

Harvest resumed midweek except for few areas with standing water from last week's rains. Small grain harvest generally complete south, almost over north. Statewide soil moisture conditions greatly improved and rains will help late crops and pastures.

OHIO: Mostly fair, hot and humid weather continued till cold front moved across State on 5th, accompanied by showers and thundershowers, ending

prolonged hot spell. Cooler, drier air well established over State on 6th. Soil moisture supplies shortest in over 2 years: 76% short, 24% adequate.

Dry weather allowed farmers steady progress hay-making, fall plowing, some soil too dry to plow. Corn 75% dented, 20% mature; 1972 15% mature, average 30% mature. Corn fair, some concern late corn not maturing properly. Soybeans fair, 40% leaves yellow, 5% leaves shedding; normal, 50% leaves yellow, 30% leaves shedding. Potatoes 60% dug, well ahead normal. Corn silage 20% complete. Third-cutting alfalfa 55% finished. Tobacco cutting now 35% complete. Fall land 60% plowed.

OKLAHOMA: Temperatures near normal northeast and eastcentral to 6° subnormal panhandle. Precipitation averaged from near 1.00 in. panhandle and northcentral to 5.30 in. southeast. Weekend warm with scattered rains. Widespread rains slowed fieldwork but improved crop prospects. More rain needed in northcentral and panhandle but most areas have adequate moisture to get wheat seeding under-

Intended wheat acreage 6% planted, 12% 1972. Less than 25% state now short topsoil moisture, 60% 1972. Nearly 25% sorghums at or near maturity, armyworm infestations increasing. First bale of cotton ginned last week. Nearly all cotton now setting bolls, all cotton counties received good rainfall. Some hail loss Kiowa County. Peanuts and soybeans grew well and in good to excellent condition. Rain slowed haying but should promote new growth. Pastures expected to improve.

OREGON: Temperatures near normal. Cooling early week brought lows to upper 20's scattered locations east with frost general. Rapid warming midweek brought highs in 90's entire State. Medford recorded 106°. General rain followed midweek central coast to northern interior. Amounts ranged 0.10 south coast to 0.80 north coast, 0.50 to 0.75 in. fell Willamette Valley, up to 0.25 in. north half eastern Oregon.

Seedbed preparation underway. Seeding pastures, ryegrass, fall grains early areas. Some grain emerged Wasco county. Red Clover seed harvest increased volume. Mint nearly complete. Hops continued. Contracting, planting sugar beets, onions for seed. Sugar beet harvest starting Pendleton. Onion harvest continued. Potatos starting Klamath Falls. Ready for harvest central, continued Ontario, Umatilla Basin. Winter pear harvest continued, good crop prospects. Apples starting Milton-Freewater. Blackberries neared completion. Fire danger remains high. Ranges short. Stockwater supplies critical some areas.

PENNSYLVANIA: Continued hot, humid early week. Highs upper 80's to 90's, lows upper 60's to 70's. Cold frontal passage Wednesday night and Thursday with showers and thunderstorms, followed by fair, cooler and drier remainder of week. Weekend highs upper 60's to low 80's, lows 40's and 50's. Extremes 97°, 32°. Weekly temperatures 3° to 5° above normal. Total precipitation under 0.25 in. south to over 1.00 in. parts north and west. Topsoil moisture 58% adequate, 34% short,

Topsoil moisture 58% adequate, 34% short, remainder surplus. Corn 25% dented, 54% dough, remainder predough. Limited chopping of corn for silage. Oats harvest almost over. Fall plowing 56% complete. Showers improved soil working conditions. Hay quality fair to good. Pastures average to below average. Picking of Elberts and Rio-Oso-Gem peaches continues. Harvest of Concord grapes in Erie County expected to start September

24th, current brix test 13%. Harvest of McIntosh apples underway.

PUERTO RICO: Rainfall averaged 3.37 in, nearly 1.50 in. above normal. Heaviest rains southeast from passage of tropical wave Christine on September 4. Highest weekly total 12.32 eastern mountains with highest 24-hour total of 9.52 in. southeast coast. Western interior averaged 2.00 to 4.00 in. with relatively drier belt center of island with 1.00 to 2.00 in. Gusty winds 50 to 60 mph with some flooding in east caused some agricultural damage. Temperatures averaged 80° on coasts and 75° interior. Highest 92°. lowest 58°

ior. Highest 92°, lowest 58° Weather favored development of young sugarcane except north and east where heavy rain showers, local flooding and gusty winds damaged some cane. Rains helped development new coffee crop; however, some zones reported wind damage and loss of some beans. Fieldwork on tobacco delayed due rains but some zones able to prepare fields for planting. Pastures improved by rains most zones. Only minor flood damage east. Winds damaged bananas and plaintain crops. Excess rains and humidity caused fungus damage to yams east.

SOUTH CAROLINA: Temperatures hotter than usual, hottest first and last of week. Temperatures of 90° or above central and southeast. Rainfall generally deficient; few heavy, but highly localized downpours central and southeast.

Spraying cotton and soybeans still active. Farmers actively prepared land for fall planting. Soil moisture very short to adequate. Cotton fair to good, essentially all bolls set, 20% open bolls; 1972 18% open bolls. Corn fair to good, 81% mature, 24% harvested; 1972 85% mature, 16% harvested. Soybeans fair to good, 95% bloomed, 83% set pods, 10% leaves turning; 1972 83%, 80%, and 12%, respectively. Peanuts 48% harvested, 51% 1972. Lespedeza, pastures, grain sorghum, hay crops fair to good. Grapes 89% harvested; 93% 1972. Apples 37% harvested, 40% 1972. Pecans fair to good.

SOUTH DAKOTA: Temperatures: as much as 5° subnormal east to 3° subnormal west. Sunny and mild early week, warmed midweek, cloudy and cool over weekend. Scattered showers and thundershowers with significant amounts over all but southwest where only traces fell. Seasonal precipitation remains subnormal, 5.00 to about 6.50 in. subnormal in northeast about 2.00 to 6.00 subnormal elsewhere.

Labor Day weekend moisture improved soil conditions and allowed fall plowing and fall grain seeding to progress. Fall plowing 52% complete, 50% 1972. Rye seeding 25% complete, normal 31%, 1972 37% winter wheat seeding 28% complete, normal 24%, 1972 44%. Corn 100% in dough stage or past, 1972 91%, normal 93%, 90% dented, normal 81%, 1972 62%, 40% safe from frost, 1972 23%, normal 26%. Flaxseed 95% harvested, last year 60%. Sorghum 78% showing head color, normal 63% 1972 45%. Soybeans 38% shedding leaves, normal 34%, 1972 22%. Much of drought-damaged corn and sorghum being cut for feed. Some pastures greening up due to moisture received, many still short and supplemental feeding continues.

TENNESSEE: Temperatures ranged from 3° above normal west to 5° above east. Precipitation amounts ranged from less than 1.00 in. east to near 3.00 in. west. Almost all areas received precipitation. Weekend rains gave big boost to cotton, corn, and soybeans in west, but corn and soybeans need more rain in east.

Harvesting of tobacco, hay and cutting corn for silage made rapid progress, but plowing and seeding

were greatly hindered by dry soil conditions. Cotton crop matured rapidly, prospects good. About 10% open bolls. Soybeans generally good, mostly in important west but dry weather has reduced pods and beans east. Most of crop had set pods. Corn 33% mature, very few fields harvested except for silage. Most of crop looks good, but late corn suffering from lack of moisture during critical growing period. Cutting of tobacco about 67% completed. The tobacco crop has not greatly suffered from the recent hot, dry weather but many fields have not fully recovered from a very poor start.

TEXAS: Heavy rain whipped by gusty winds over eastern third followed Tropical Storm Delia into upper Texas coast Tuesday, Wednesday. Widespread rain developed over western areas Thursday, Friday as tropical air reached panhandle. Torrential rains left weekly totals averaging near 5.00 in. over middle, upper-coastal plains, eastcentral, northeast. Showers locally heavy. More than 10.00 in. fell between Edom and Jacksonville in northeast. Winds of 40-50 mph gusted to near 70 mph around storm's center at Galveston as Delia made landfall Tuesday. Winds of 25-30 mph over South Texas common. Rainfall amounts between 2.00 and 5.00 in. soaked an area of west between San Angelo, Gainesville and Childress Wednesday and Thursday.

Childress Wednesday and Thursday.

Temperatures over high plains, Trans-Pecos were 4° to 5° subnormal. Temperatures were several degrees below weekly averages over all but east and lower valley where near normal readings prevailed. Severe thunderstorm activity preceded Delia over west Texas causing gusty winds Tuesday. Winds gusted to 54 mph at Wichita Falls Tuesday and to 108 mph at Big Springs on same day. Numerous funnels hovered over Amarillo as moist, unstable air reached panhandle Friday.

Wheat seeding slowed by rains high plains. When fields dry, wheat seeding will get into full swing. Elsewhere, farmers preparing to plant when fields dry. Cotton harvest fair progress lower Rio Grande Valley. Crop prospects high plains good to excellent, helped by rains. Corn harvest behind 1972. Rice harvest behind schedule making slow progress.

schedule making slow progress.
High Plains: Potato supplies Potato supplies continue seasonal decline. Cucumber picking almost complete. Moderate supplies of peppers remain available. Tomato and green bean harvest gaining momentum.
Carrots making good progress. North Texas: Declining supplies of watermelons and cantaloupes still available. East Texas: Sweet potato harvest delayed by rains. San Antonio-Winter Garden: Cucumber picking continued. Cabbage making good growth. Lettuce planting continued. Lower Rio Grande Valley: Vegetable seeding active again as fields dried. Tomatoes and peppers continue good progress. Citrus continued good progress. Much of unharvested rice acreage is lodged and will cause above normal harvesting losses. Full extent of loss will depend weather during next few weeks. Sorghum harvest good progress. Major crops percent harvested: cotton 6, 1972 19; corn 32, 1972 50; sorghum 45, 1972 43; peanuts 21, 1972 20; rice 54, 1972 96.
Rains improved range conditions most areas.

Rains improved range conditions most areas. Grazing abundant eastern half. Pasture conditions west half should improve. Hay baling delayed by heavy rains east and south. A sixth cutting of alfalfa hay anticipated some areas northern low plains. Goat shearing nearing completion Edwards Plateau and Trans-Pecos. Sheep shearing full swing. Additional cases screwworm reported South and Coastal Bend.

UTAH: Few scattered showers southwest and another fairly heavy storm northwest over weekend. Temperatures  $1^\circ$  to  $6^\circ$  subnormal. Few areas of local frost in colder valleys again past weekend.

Frost further damaged corn and froze down potato vines. Winter wheat 25% planted, 1972 37%. Third crop alfalfa hay 25% harvested. About 70% of total acreage will have 3 or more cuttings, normal 75%. Completion of harvests: corn 10%, dry onions 5%, potatoes under 5%, tomatoes 10%, sweet corn 80%, peaches 30%, pears 60%, and under 5% for apples. Feed prospects on fall and winter ranges rated at 104% of normal, probably best ever this fall.

VIRGINIA: Prolonged heat wave broken Friday. Thunderstorm activity midweek. Daytime highs 90's early, mid-80's late. Extremes 96° and 52°. Soil moisture mostly short. Corn silage harvest statewide. Grain harvest 7% complete, very active Tidewater area. Peanuts good. Soybean spraying very active, late beans need rain to fill out. Flue-cured tobacco marketing active. First Old Belt tobacco sales September 4-6. Harvest flue-cured 64% complete, fire 51%, sun 47%, burley 36%. Ideal weather for haying. Pastures declined. Good progress small grain land preparation. Tomato, cabbage, cucumber, sweet potato, Irish potato harvest continued. Apple harvest increasing.

WASHINGTON: West: Temperatures midweek 80° with 60° end of week. Precipitation from trace to 0.8° in. Showers relieved dry conditions, eased fire danger. Farmers harvested blueberries, blackberries, cucumbers, potatoes, sweet corn. Late carrot harvest underway. Pea, broccoli, harvest neared completion. Preparing fields, planting cabbage, brussels sprouts active. Small grain harvest neared completion. Third cutting alfalfa continued. Pastures short. Supplemental feeding continued. East: High temperature midweek 90°, then low-80's end of week. Precipitation from trace to 0.50 in. Harvested potatoes, hops, peaches, pears. Apple harvest beginning. Mint, sweet corn, alfalfa seed, harvest in progress. Third cutting alfalfa nearing completion. Fourth cutting started. Seeding small grains slowed by dry soil. Pasture: short. Supplemental feeding many areas. Winter feed short supply.

WEST VIRGINIA: Heat wave persisted until Thursday, highs in 90's with 80's in mountains, lows mostly in 60's with 40's and 50's in mountains. Thunderstorms produced small amounts precipitation late week.

Soil moisture down, 70% short, 30% adequate.

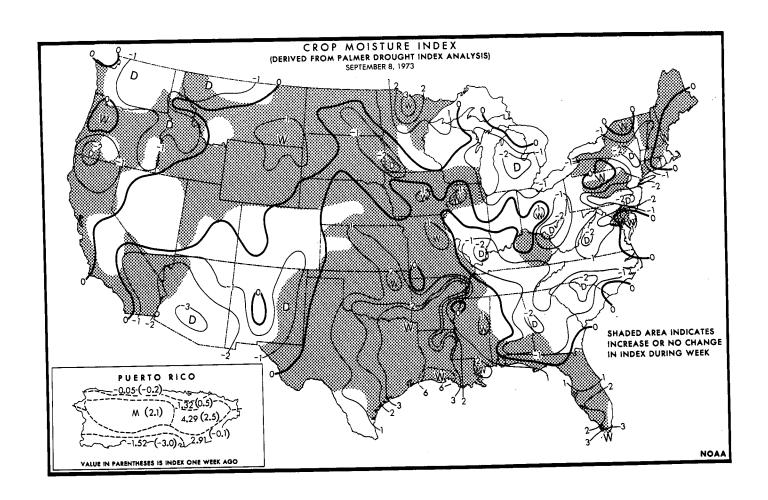
Farmers got an average 5.5 days suitable field work. Pastures deteriorated, but still productive. Tobacco 85% topped, 30% harvested, dryness may have reduced yields. Corn maturing rapidly, 54% dented, 7% mature, 1972 29% and 12%. Silage making underway eastern panhandle, other areas getting ready. Weather favored haymaking, second cutting 82% complete, third cutting 30%. Potato harvest active, 50% dug. Fall plowing underway.

WISCONSIN: Temperatures 2° subnormal north and west, near normal elsewhere. Cold front brought cooler air at early week along with showers and thunderstorms. Sunny and pleasant around midweek with showers returning on Saturday. Rain heaviest north Monday, southeast Tuesday, southwest Saturday. Rainfall averaged from 0.40 in. eastcentral to 1.50 in. southeast.

Early corn maturing, well dented and husks drying; corn 55% dented, 1972 55%, normal 45%. Late corn needs a few weeks without frost. Silo filling started west and southeast. Seed corn producers picking early corn southeast. Some second and third crop hay made. New seedings showed good growth. Pastures improved west and north where moisture adequate to surplus. Soybeans doing well except where weedy. Combining of oats mostly done except for late oats north and east. Oats yielded rather poor and straw mostly short. Land being prepared for winter wheat. Tobacco harvest continuing but late plantings will mean later harvest than usual. Tobacco crop good. Harvesting of sweet corn going well. Vegetable crops harvested under much more favorable conditions than 1972. Yields vary from fair to good. Harvests of cranberries and fall potatoes began. Picking early apple varieties continued. Fall plowing underway on some farms where soil moisture permited. Soil moisture 28% short, 63% adequate, 9% surplus.

WYOMING: Moderate to heavy rains, snow higher elevations, early week over all but extreme southeast. Moisture amounts of more than 0.75 in. common. Lander reported most with 2.31 in. Temperatures 2° to 7° subnormal. Highs upper 70's and 80's. Lows mostly 25° to 35° west of Divide, 35° to 45° east. Extremes: 90° at Guernsey Dam and Worland, 23° at Big Piney. Rains slowed harvest of small grains: 90% barley, 90% spring wheat, and 80% of oats cut. Winter wheat 50% planted, 15% emerged, about same as 1972. Second cutting alfalfa 85% complete. Third cutting 10% finished. Corn 25% in milk, 35% dough, 35% dented 5% mature. Potatoes 5% dug, 1972 80% dug. Dry beans 30% windrowed, 5% combined. Soil moisture mostly adequate.

Standard copy for the Weekly Weather and Crop Bulletin is prepared by: Dr. Richard E. Felch, Agricultural Climatologist; Arlon M. Scott, Agricultural Statistician; John Carlin Ryan, Editor.



Index increased or did not change SHADED AREAS: last week

#### Index

3.0 Excessively wet, some fields flooded Above 2.0 to 3.0 Too wet, some standing water 1.0 to 2.0 Prospects good, some fields too wet 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 Drough eased, but still serious Below -4.0 Not enough rain, still extremely dry

UNSHADED AREAS: Index decreased last week

#### Index

3.0 Some drying, but still excessively wet 3.0 More drying weather needed, work delayed Above 2.0 Favorable, except still too wet in spots 2.0 to 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 interinterpret.

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

## IMMEDIATE - U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

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#### Heating Degree Days (Base 65° F.) August 1973

ALA, Birmingham	0	MAINE, Caribou	44	OKLA.Okla. City	0
Mobile	0	Portland	9	Tulsa	0
Montgomery	0	MD.Baltimore	0	OREG. Astoria	225
ALASKA, Anchorage . Barrow	341 772	MASS.Boston	2	Burns U	62 12
Fairbanks	302	Nantucket	35	Medford	16
Juneau	404	Detroit	10	Pendleton	47
Nome	604	Flint	18	Salem	85
ARIZ.Flagstaff	45	Grand Rapids	7	PA.Allentown	2
Phoenix	0	Houghton Lake	25	Erie	18
Tucson	0	Lansing	. 5	Harrisburg	1
Winslow	0	Marquette U	37	Philadelphia	0
Yuma	0	S. Ste. Marie	22	Pittsburgh	8
Little Rock	0	MINN. Duluth	66	Scranton	11
CALIF. Bakersfield.	0	Internatl Falls . Minneapolis	20	R.I.Providence S.C.Charleston	3 0
Eureka U	308	Rochester	15	Columbia	0
Fresno	0	St. Cloud	111	Greenville	ŏ
Los Angeles U	Ö	MISS, Jackson	ا أهُ ا	S.DAK. Aberdeen	ŏ
Red Bluff	0	Meridian	Ö	Huron	Ŏ
Stockton	0	Vicksburg U		Rapid City	0
oan Diego	0	MO.Columbia	0	Sioux Falls	0
San Francisco	129	Kansas City	0	TENN.Chattanooga	0
COLO.Denver	0	St. Louis	0	Knoxville	0
Grand Junction	0 2	Springfield	0	Memphis	0
Pueblo	0 0	MONT.Billings	3	Nashville	0
CONN.Bridgeport Hartford	0	Glasgow	27	TEX.Abilene	0
D.C. Washington	ŏ	Great Falls Havre	22	Amarillo	Ö
FLA. Apalachicola .	ŏ	Helena	47	Austin	ŏ
Ft. Myers	ŏ	Kalispell	72	Brownsville	ŏ
Jacksonville	Ō	Miles City	ő	Corpus Christi	ŏ
Key West	0	Missoula	47	Dallas	
Lakeland U	0	NEBR.Grand Island.	0	Del Rio	0
Miami	0	Lincoln	0	El Paso Fort Worth	o o
Orlando	0	Norfolk	0	Fort Worth	0
Daytona Beach Tallahassee		North Platte	0	Galveston U	0
Tampa	0	Omaha	0 1	Houston	0
GA.Atlanta	ŏ '	NEV.Ely.	42	Lubbock	ŏ
Augusta	ŏ	Las Vegas	0	San Angelo	ŏ
Macon	0	Reno	36	San Antonio	ō
Savannah	0	Winnemucca	26	Victoria	0
IDAHO, Boise	13	N.H.Concord	9	Waco	0
Lewiston	6	N.J. Atlantic City.	0	Wichita Falls	0
Pocatello ILL.Cairo U	18	Trenton U	0	UTAH, Blanding R	
Chicago	0	N. MEX. Albuquerque.	0	Salt Lake City	0
Moline	1 0	Roswell	0 3	VT.Burlington VA.Lynchburg	17 0
Moline	0	Binghamton	27	Norfolk	ŏ
Rockford	7	Buffalo	14	Richmond	ŏ
Springfield	0	New York	0	Roanoke	ō
IND.Evansville	0	Rochester	14	WASH.Colville	47
Fort Wayne	7	Syracuse	12	Omak	
Indianapolis	0	N.C.Asheville	0	Quillayute	291
South Bend	4	Charlotte	0	Seattle-Tacoma	114
IOWA, Burlington	0	Greensboro	0	Spokane	47 5
Des Moines Dubuque	2	Hatteras R		Walla Walla U	42
Sioux City	0	Raleigh	Ö	Yakima	13
KANS.Concordia	ŏ	Wilmington N.DAK.Bismarck	4	w.va.beckiey	13
Dodge City	ŏ	Fargo	3	Charleston Huntington	ō
Goodland	0	Williston U	ĭ	Parkersburg U	Õ
Topeka	0	OHIO. Akron-Canton.	12	WIS.Green Bay	11
Wichita	0	Cincinnati U	1	Madison	25
KY.Lexington	1	Cleveland	9	Milwaukee	5
Louisville	0	Columbus	3	WYO.Casper	0
LA.Baton Rouge	. 0	Dayton	2	Cheyenne	4 3
Lake Charles New Orleans	0	Toledo	16 25	Lander	4
Shreveport	0 1	Youngstown	25	Sheridan	*
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Preliminary reports from airport locations, except those marked U for urban and R for rural. \*Estimated.