

Weekly Weather and Crop Bulletin State Stories

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ALABAMA: Days suitable for fieldwork 6.3. Soil moisture supplies dropped in the wake of a hot, dry week. Topsoil 10% very short, 33% short, 54% adequate, 3% surplus. Corn 79% doughed, 61% dented, 77% 1998, 77% average. Corn mature 30%, 47% 1998, 39% average. Corn 1% harvested, 14% 1998, 7% average. Corn 3% poor, 16% fair, 60% good, 21% excellent. Pasture feed 1% very poor, 8% poor, 24% fair, 54% good, 13% excellent. Livestock 2% poor, 17% fair, 48% good, 33% excellent.

ALASKA: Days suitable for fieldwork 3.1. Another cool, cloudy, damp week hindered progress of the areas hay harvest. Daytime high temperatures were mostly in the sixties with lows mostly in the forties. Topsoil moisture supplies, 15% short, 85% adequate. Subsoil moisture supplies, 25% short, 75% adequate. Oats 55% headed, 45% in dough. Barley, 30% headed, 70% in dough. Barley 10% poor, 30% fair, 40% good, 20% excellent. Hay 80% harvested. Average height of second crop hay, 9" Potato plants 55% bloomed. Wind damage to crops 90% none, 10 light. Major activities included: Harvesting lettuce, greens, radishes, squash, broccoli, peas, beets, Chinese vegetables, weed control, cutting hay, harvesting hay when conditions allowed, grass seed harvest, and machinery repair.

ARIZONA: Pasture conditions steadily improved throughout the state last month with the arrival of the summer monsoons. Pastures throughout the state ranged from fair to excellent condition. Livestock were reported in fair to good condition. Many ranchers are reporting widespread rains and no supplemental feeding. The ranges are greening up, but need more time to bulk. Both stockwater and soil moisture were short to adequate. Insect damage was light. Overall, northern grazing conditions improved in July going from poor in June to good to fair condition. Low elevation pastures were in mainly good to fair condition. Mid elevation pastures were mainly in fair to good condition while high elevation pastures were in good to fair condition. Cattle were reported in fair to good condition. Stock water supplies, soil moisture were both reported as short to adequate. Many ranchers are reporting drought conditions have ended with the arrival of widespread rains. Insect damage was light. Central Areas pasture conditions were in fair to excellent condition overall. Low elevation pastures were reported as fair to good; mid level elevation were mainly excellent to fair; and high elevation pastures were good to fair. Livestock conditions were fair to good and both stock water, soil moisture were short to adequate. Ranchers reported that the ranges had received heavy rains, grasses were greening up, but need more time to bulk. Insect damage was light. Southern pasture conditions at all elevations were in excellent to fair condition. Ranchers reported that the rains were not as widespread as other regions of the state. Livestock conditions were good to fair with no supplemental feeding reported for the month of July. Both stock water, soil moisture were short to adequate, insect damage was very light. Pasture conditions steadily improved throughout the state. Pastures throughout the state ranged from fair to excellent condition. Livestock were reported in fair to good condition. Both stockwater and soil moisture were short to adequate. Insect damage was light. Overall, northern grazing conditions improved in July going from poor in June to good to fair condition. Low elevation pastures were in mainly good to fair condition. Mid elevation pastures were mainly in fair to good condition while high elevation pastures were in good to fair condition. Cattle were reported in fair to good condition. Stock water supplies, soil moisture were both

reported as short to adequate. Insect damage was light. Central Areas pasture conditions were in fair to excellent condition overall. Low elevation pastures were reported as fair to good; mid level elevation were mainly excellent to fair; and high elevation pastures were good to fair. Livestock conditions were fair to good and both stock water, soil moisture were short to adequate. Insect damage was light. Southern pasture conditions at all elevations were in excellent to fair condition. Livestock conditions were good to fair with no supplemental feeding reported for the month of July. Both stock water, soil moisture were short to adequate and insect damage was very light. Cotton squaring is equal to both last year, the 5 year average. As of August 1, 100% of the cotton was reported squared. Cotton setting bolls increased to 86% compared to 98% 1998, the five year average of 94%. Cotton condition is reported as 8% poor, 37% fair, 45% good, 10% excellent. Alfalfa harvest activity was reported as 41% not being harvested, 4% light, 13% moderate, 42% active. Alfalfa condition was reported as 1% poor, 13% fair, 71% good, 15% excellent. Central Areas producers shipped a variety of melons, grapes last week. Grape shipments included beauty, flame seedless, thompsons. Melon shipments included canary, cantaloupe, honeydew, orange flesh, santa claus, watermelons. Eastern Areas producers shipped greenhouse tomatoes. Western producers harvested cantaloupes, honeydew, thompson seedless grapes.

ARKANSAS: Days suitable for fieldwork 7. The temperatures for this past period were warmer than normal, very dry in most areas of the state. Temperatures reached an upward of 106 in some parts of the state with most areas at or above 100° all week. Only a few areas had an excess of 1 in. rain this week. Most crops were reported in good condition. Topsoil moisture 22% very short, 55% short, 23% adequate, 0% surplus. Livestock were reported in good condition, but the hot, humid weather was causing deaths in poultry, livestock. The main farm activities were: Fertilizing cotton, corn, rice, warm season forages, finishing harvesting hay. Other activities: Irrigating corn, soybeans, cotton, sorghum, rice, cultivating cotton, spraying cotton for boll weevils, bullworms, other fields for insects, weeds, putting down lime, scouting for sheath blight in rice, spraying of rice, cotton, soybean fields for weeds, applying mid-season nitrogen applications to rice, tree fruit, small fruit harvesting, dusting ear tagging cattle for external parasites, vaccinating cattle, weaning calves. Cotton 100% squared, 97% setting bolls, 4% poor 26% fair 51% good 19% excellent; Soybeans 67% bloomed, 26% setting pods, 2% very poor 10% poor 32% fair 45% good 11% excellent; Sorghum 88% headed, 22% turning color 1% very poor, 9% poor, 38% fair, 43% good, 9% excellent; Wheat 100% harvested; Oats 100% harvested, Alfalfa 1% very poor, 6% poor, 32% fair, 52% good, 9% excellent; Other Hay 2% very poor, 10% poor, 37% fair, 46% good, 5% excellent; Range, pastures 2% very poor, 15% poor, 38% fair, 41% good, 4% excellent.

CALIFORNIA: Field activities progressed normally under ideal conditions in most areas. A few late dryland wheat fields were still being harvested in Fresno, Tulare counties. Wheat straw was baled, stacked. Rice fields were fertilized, sprayed for armyworms, water grass. Recent cool temperatures delayed rice head development by one to two weeks. Cotton was blooming, setting bolls in the San Joaquin, Sacramento valleys. Imperial Valley cotton had open bolls on nearly half the acreage. The cool weather was beneficial for cotton growth; square shedding was minimal. Cotton growers continued spraying for aphids, armyworms, leafhoppers, lygus. Blackeye beans, seed alfalfa were drying for harvest in the San Joaquin Valley, treatments for aphids, lygus, mites were

ongoing. Garbanzo bean, safflower harvests were underway in central, southern counties. Lygus treatments were winding down in safflower fields. Corn silage harvest was active in the southern San Joaquin Valley. Cooler than normal weather caused corn grain fields to be developmentally delayed by two weeks in some areas. Old crop sugarbeet harvest continued, new crop fields were thriving. Alfalfa, sudangrass were cut for hay or greenchopped; some fields were sprayed for armyworms. The harvest of grapes for fresh consumption gained momentum in the San Joaquin Valley. Varieties picked included Perlette, Flame Seedless. Other cultural activities in vineyards, orchards included irrigation, extensive weed control. Harvest continued in plums, nectarines, clingstone, freestone peaches. Good stone fruit quality was noted. Apple trees were treated for codling moth. Picking of early variety apples was active. Olive trees were showing a good set, maturing well. Bartlett pear harvest continued in the Sacramento River delta area. Asian pear harvest was active in the San Joaquin Valley. Tree limbs in almond orchards remained supported to bear the heavy nut set. The almond crop was nearing full maturity, with some hull splitting reported. Pistachio trees were sprayed with fungicides. Walnut trees were treated for blight. Valencia oranges, lemons were picked in southern Areas. Strawberry fields were being cultivated, prepared for new plantings. The pace of the processing tomato harvest increased as fields in the San Joaquin Valley were harvested. Some processing and fresh market tomato fields were treated for aphids, loopers and fruit worms, but insect pressure was generally low. Some blight was reported. Fresh tomato harvest was in full swing. The cantaloupe, honeydew, mixed melon harvest continued. Quality was good. Aphid sprays were applied to cantaloupes. Excellent watermelon quality was reported, with little sunburn or internal breakdown. Low demand for eggplant has led to some fields being abandoned. Sweet corn picking continued. Planting of cauliflower sets for winter harvest was underway. Pumpkins were treated to control aphids, white flies. Among the multitude of vegetable crops harvested were basil, chives, broccoli, cauliflower, cucumbers, horseradish, parsley, peppers, radishes, squash. Irrigated pastures remained in good condition. Mild weather was reducing the irrigation requirements of pastures, improving conditions of milk and beef cattle. Livestock were in good condition. Cooler temperatures at higher elevations slowed the maturity of non-irrigated pastures. Most dry foothill pastures remained idle, awaiting the return of cattle or sheep for winter grazing. Fire danger was high. Grasshopper populations were beginning to decline in central areas.

COLORADO: Days suitable for fieldwork 5.7. Topsoil moisture 14% very short, 22% short, 58% adequate, 6% surplus. Subsoil moisture 13% very short, 26% short, 57% adequate, 4% surplus. Seasonal weather patterns continued during the week with warm temperatures, widely scattered afternoon thundershowers. Locally heavy rains late in the week resulted in some flooding of low lying areas. Spring wheat 68% turning color, 63% 1998, 68% avg.; 19% harvested, 16% 1998, 12% avg.; 9% poor, 18% fair, 53% good, 20% excellent. Spring barley 91% turning color, 80% 1998, 71% avg.; 15% harvested, 16% 1998, 17% avg.; 5% poor, 14% fair, 51% good, 30% excellent. Oats 76% turning color, 72% 1998, 78% avg.; 40% harvested, 34% 1998, 43% avg.; 3% poor, 20% fair, 63% good, 14% excellent. Dry onions 1% very poor, 2% poor, 14% fair, 54% good, 29% excellent. Sugar beets 4% poor, 12% fair, 51% good, 33% excellent. Dry beans 57% flowered, 66% 1998, 64% avg.; 3% poor, 20% fair, 62% good, 15% excellent. Summer potatoes 1% harvested, 1% 1998, 4% avg.; 2% poor, 8% fair, 65% good, 25% excellent. Fall potatoes 4% poor, 12% fair, 42% good, 42% excellent. Alfalfa 51% 2nd cutting, 57% 1998, 61% avg.; 3% poor, 23% fair, 55% good, 19% excellent. Pasture and range feed in mostly good condition.

DELAWARE: Days suitable for fieldwork 7.0. Topsoil moisture 7% very short, 90% short, 3% adequate. Subsoil moisture 4% very short, 92% short, 4% adequate. Field corn 9% very poor, 25% poor, 33% fair, 25% good, 8% excellent.; 90% silked, 74% 1998, 79% avg.; 24% dough, 25% 1998, 22% avg.; 9% dented, 8% 1998, 4% avg. Soybeans 5% very poor, 17% poor, 29% fair, 49% good, 27% bloomed, 28% 1998, 43% avg.; 14% setting pods, 14% 1998, 12% avg. Sorghum 4% poor, 46% fair, 50% good, 25% headed, 25% 1998, 33% avg.; 10% turned, 0% 1998, 0% avg. Sweet corn 45% harvested, 34% 1998, 43% avg. Snap beans 50% harvested, 36% 1998, 42% avg. Cantaloupes 23% harvested, 39% 1998, 39% avg. Watermelons 30% harvested, 25% 1998, 21% avg. Cucumbers 38% harvested, 39% 1998, 50% avg. Lima beans 35% harvested, 28% 1998, 14% avg. Tomatoes 25% harvested, 30% 1998,

29% avg. Potatoes 45% harvested, 30% 1998, 40% avg. Apples 10% harvested, 5% 1998, 3% avg. Peaches 28% harvested, 37% 1998, 37% avg. Clover, other hay 76% 2nd cutting, 98% 1998, 90% avg.; 66% 3rd cutting, 65% 1998, 27% avg. Alfalfa hay 65% 3rd cutting harvested, 39% 1998, 34% avg. Hay supplies 51% short, 49% adequate. Pasture 3% very poor, 63% poor, 22% fair, 12% good. Activities: Maintaining irrigation equipment, continued vegetable harvesting, livestock stressed by extremely hot temperatures.

FLORIDA: Widely scattered showers left many localities dry. Daily showers, some western Panhandle areas. Many Peninsula localities received no rain. Most major stations reported less than 1.00 in. Rainfall ranged from 0.00 in. at Jacksonville to a little over 1.00 in. at Pensacola. Temperatures soared to record highs many locations. Several reported highs in 100s on at least one day. Daily highs, major stations, averaged 90s; lows 70s, 80s.

Topsoil moisture mostly adequate to short with few reports very short supplies. Hay making underway. Cotton, soybeans, sugarcane, tobacco condition continues mostly normal. Some corn harvesting underway. Tobacco harvest active. Peanut 12% poor, 4% fair, 66% good, 18% excellent. Growers reported peanuts pegging at 93%. Tomato transplanting, Quincy, 75 to 80% finished; growers expected to wrap up planting over next 2 to 3 weeks. Some Sumter County summer crop vegetables suffering from hot weather. Vegetable planting for fall harvest active in northern parts East Coast region. Dry soils delaying some laying of plastic, southern half of Peninsula. Hot, all citrus areas. Some areas adequate rain, others irrigating. Generally abundant new growth in well cared for groves. New crop fruit sizing well where irrigation being used. Caretakers cutting cover crops to help save moisture. Some spraying, fertilizing, removing dead trees, a few resets being planted where irrigation available. Pasture feed 25% fair, good 75%. Condition of cattle; 5% poor, 10% fair, 85% good. Statewide, condition of range, pasture generally improved. Dry conditions good for haying operations; however, central area pasture beginning to need rain. Cattle, calves mostly in good condition.

GEORGIA: Days suitable for field work 6.5. Soil moisture 13% very short, 46% short, 39% adequate, 2% surplus. Corn 85% dent, 78% 1998, 86% avg.; 56% mature, 51% 1998, 57% avg.; 10% harvested for grain, 6% 1998, 6% avg. Hay 4% very poor, 12% poor, 38% fair, 42% good, 4% excellent. Sorghum 6% very poor, 13% poor, 37% fair, 37% good, 7% excellent. Tobacco 7% very poor, 18% poor, 41% fair, 33% good, 1% excellent; 52% harvested, 35% 1998, 58% avg. Watermelons 93% harvested, 95% 1998, 93% avg. Apples 23% fair, 50% good, 27% excellent; 3% harvested, 2% 1998, 3% avg. Peaches 93% harvested, 90% 1998, 95% avg. Pecans 3% very poor, 6% poor, 32% fair, 48% good, 11% excellent. Last week's hot temperatures stressed soil moisture, crops. The heat brought maximum temperatures over 100° in many areas of the state. The high temperatures dried out soils. Grain condition slipped last week. Corn matured near the five year average pace while harvesting occurred ahead of the average pace. Soybean condition deteriorated. Blooming continued ahead of the five year average pace. The dry weather wilted cotton in some areas. Spraying for bollworms occurred in isolated areas. Overall condition declined. Tobacco harvest continued behind the five year average pace. Tomato Spotted Wilt Virus affected peanuts in some areas. Overall peanut condition declined. Hay, pasture condition deteriorated last week due to the hot, dry weather. Insect control continued on pecan orchards last week while condition fell. Apple condition remained in fair to excellent condition as harvesting continued. Watermelon, peach harvests neared completion. Other activities included: Irrigating crops, cutting hay, the routine care of livestock.

HAWAII: Variable weather conditions were fair for crops. Unseasonally strong trade winds brought much needed rain to windward areas. Leeward areas remained dry, in need of rain. The gusty trade winds also hampered some forms of irrigation, spraying. Most banana orchards in good condition. Warm temperatures, adequate rainfall benefitting fruit development. Harvesting will be steady. Papaya orchards were in good to fair condition. Recent showers have benefitted orchards. Overall harvesting will be steady. Head cabbage plantings remain in mostly good condition. Insect pressure is higher due to warmer temperatures, however, close monitoring has limited damage.

IDAHO: Days suitable for fieldwork 6.8. Topsoil, 8% very short, 38% short, 54% adequate. Continued hot, dry. Irrigation supply 64% excellent, 27% good, 9% fair. Alfalfa hay 2nd cutting 64%, 61% 1998, 55% avg.; 3rd cutting 8%, 3% 1998, 2% avg. Oats 98% headed, 2% harvested, 2% 1998, 8% avg. Mint 11% harvested, 13% 1998, 34% avg. Peaches 12% harvested, 3% 1998, 20% avg. Dry Peas 17% harvested, 28% 1998, 21% avg. Lentils 6% harvested, 6% 1998, 8% avg. Onions 1% harvested. Potatoes 12" high 99%, 97% 1998, 98% avg.; 95% closing middles, 87% 1998, 91% avg. Barley 100% headed, 96% 1998, 98% avg.; 61% turning color. Spring wheat 100% headed, 95% 1998, 98% avg.; 58% turning color. Winter wheat 6% harvested, 13% 1998, 15% avg; 93% turning color.

Activities: Irrigating, spraying weeds, monitoring for disease, harvesting small grains, fruit, mint, dry peas, lentils, hay.

ILLINOIS: Days suitable for fieldwork 6.0. Topsoil moisture 26% very short, 42% short, 30% adequate, 2% surplus. The heat wave continued across most of the state last week, though scattered showers were a relief. Areas that were missed by the rains, crops planted in lighter, sandy soils are deteriorating very quickly. The percentage of corn rated good or excellent dropped another nine points between July 23, July 30, has dropped 27 points since July 9th. Similarly, the soybean condition has declined from 76% good to excellent on July 9, to 53% on July 30. The sorghum crop is developing quickly in the heat. Other activities for last week included: Grain hauling, baling hay, straw, mowing, caring for heat stressed livestock. Corn dented 7%, 4% 1998, 2% avg. Oats ripe 94%, 97% 1998, 85% avg. Oats 85% harvested, 65% 1998, 59% avg. Alfalfa 2nd cut 96%, 94% 1998, 88% avg. Alfalfa 3rd cut 24%, 19% 1998, 16% avg.

INDIANA: Days suitable for fieldwork 6.8. Topsoil 40% very short, 39% short, 21% adequate, 0% surplus. Subsoil 32% very short, 42% short, 26% adequate, 0% surplus. Extreme heat kept major crops, livestock under stress. Several mid 90th days. Very little precipitation around the state. Corn, soybean condition declined. Very dry soil conditions, most areas. Pastures, hay crops deteriorating rapidly. Livestock under severe stress. Feeding hay some areas. Third cutting alfalfa, 30% complete. Activities: Irrigating crops, spraying, topping tobacco, selling grain, mowing roads, pastures, baling hay, straw, harvesting vegetables, repairing equipment, monitoring fields for insects, attending fairs, caring for livestock.

IOWA: Days suitable for field work 6.1. Topsoil moisture 9% very short, 26% short, 53% adequate, 12% surplus. Subsoil moisture 6% very short, 19% short, 62% adequate, 13% surplus. Flood clean-up continued in north central Areas, soils still saturated, crops across northern 3rd of state that were not damaged by excess moisture made good progress this week. Rest of state in need of rain, some crops beginning to show signs of heat stress. Some deterioration of corn crop in south central, southeastern districts. Producers expressed concern about extreme heat on corn during pollination. Weeds a problem in soybean fields, respraying has occurred. Potato leaf hoppers remain a problem for alfalfa in north central, east central. Corn 97% tasseled, 98% 1998, 91% avg.; 92% silked, 93% 1998, 81% avg.; 42% milk stage, 47% 1998, 25% avg.; 6% dough stage, 9% 1998, 6% avg. Corn 2% very poor, 5% poor, 23% fair, 47% good, 23% excellent. Soybeans 95% blooming, 94% 1998, 89% avg.; 64% setting pods, 67% 1998, 52% avg. Soybean 2% very poor, 5% poor, 23% fair, 50% good, 20% excellent. Oats 90% harvested, 90% 1998, 74% avg. Oat 1% very poor, 4% poor, 20% fair, 54% good, 21% excellent. Winter wheat 99% harvested, 94% 1998, 94% avg. High heat, humidity continued to stress Areas livestock, in some cases severely. In lower 3rd of state some cattle loss due to the heat. Incidents of pinkeye reported in south central, southeast Areas. Range, pasture 4% very poor, 13% poor, 31% fair, 42% good, 10% excellent. Second cutting of alfalfa 84%, 86% 1998, 80% avg.. Second cutting of clover hay 64%, 53% 1998, 45% avg. Hay 3% very poor, 7% poor, 25% fair, 48% good, 17% excellent.

KANSAS: Days suitable for fieldwork 6.5. Topsoil 10% very short, 49% short, and 41% adequate. Subsoil 3% very short, 27% short, 69% adequate, 1% surplus. Fall crops, particularly dryland crops, are showing signs of stress as the heatwave maintained its grip on the State for most of last week. Temperatures exceeded 100^o, with very little rainfall, for

most of the week. Over the weekend, cooler temperatures moved into the State, with many areas receiving some much needed precipitation. Sunflower 1% very poor, 2% poor, 22% fair, 64% good, 11% excellent. Sunflowers 38% blooming, 50% 1998, NA average. Third cutting alfalfa 53%, 52% 1998, 51% average. Insect pressure continues to increase in crops across the State. Insect infestation 1% severe, 10% moderate, 34% light, 55% no infestation. Insects reported include corn borers, grasshoppers, greenbugs, aphids, leaf hoppers, alfalfa weevils. Sunflower moths are also showing up in some counties. Disease infestation remains at mostly light to none. Major field activities: Irrigating, cultivating row crops, spraying for insects, working wheat stubble, putting up alfalfa, prairie hay. Hay, forage supplies 2% short, 86% adequate, 12% surplus. Pastures in some areas are starting to turn brown due to the extreme heat, lack of moisture. Producers continue pasture rotation on full-season pastures, removing cattle from short-season pastures. Stock water supplies are mostly adequate.

KENTUCKY: Days suitable for fieldwork 5.8. Topsoil 52% very short, 37% short, 11% adequate. Subsoil moisture 54% very short, 32% short, 14% adequate. Record high temperatures, below normal rainfall continued to reduce soil moisture supplies. Dry weather stressed corn, soybean, tobacco crops, while halting the spread of blue mold in tobacco. Burley tobacco blooming or beyond 67%, 41% topped. Dark tobacco 84% topped. Tobacco 10% very poor, 18% poor, 37% fair, 29% good, 6% excellent. Black shank remains leading problematic disease in tobacco, with reports of soreshin increasing. Pastures 22% very poor, 31% poor, 32% fair, 14% good, 1% excellent. Farmers continue to feed hay to livestock because of poor pasture conditions. Hay crop 19% very poor, 29% poor, 32% fair, 17% good, 3% excellent.

LOUISIANA: Days suitable for fieldwork 5.9. Soil 9% very short, 29% short, 49% adequate, 13% surplus. Corn 3% poor, 19% fair, 67% good, 11% excellent; 100% dough stage, 100% 1998, 100% avg.; 71% mature, 88% 1998, 68% avg.; 7% harvested, 20% 1998, 10% avg. Small amounts of aflatoxin were found in corn that has been harvested. Cotton 5% open bolls, 8% 1998, 2% avg. Cotton producers were scouting, spraying for boll weevils. Hay 33% final cutting, 28% 1998, 42% avg. Rice 46% ripe, 47% 1998, 30% avg. Rice producers were spraying for stink bugs. Sorghum 11% ripe, 15% 1998, 10% avg. Sweetpotatoes 5% harvested, 2% 1998, 2% avg. Sugarcane 1% poor, 13% fair, 47% good, 39% excellent. Sugarcane producers were spraying for borers, preparing for planting. Livestock 1% poor, 27% fair, 56% good, 16% excellent. Vegetables 3% very poor, 15% poor, 32% fair, 46% good, 4% excellent.

MARYLAND: Days suitable for fieldwork 6.5. Subsoil 51% very short, 41% short, 8% adequate. Topsoil 46% very short, 41% short, 13% adequate. Corn 10% very poor, 26% poor, 42% fair, 20% good, 2% excellent; 86% silked, 79% 1998, 74% avg.; 35% dough, 32% 1998, 22% avg.; 5% dent, 8% 1998, 4% avg. Soybeans 3% very poor, 14% poor, 50% fair, 31% good, 2% excellent; 54% bloomed, 45% 1998, 42% avg.; 21% setting pods, 27% 1998, 14% avg. Sorghum 19% poor, 54% fair, 27% good; 40% headed, 72% 1998, 37% avg. Tobacco 6% very poor, 18% poor, 47% fair, 29% good; 59% bloomed, 58% 1998, 62% avg.; 21% topped. Snap beans 47% harvested, 54% 1998, 51% avg. Cucumbers 57% harvested, 59% 1998, 59% avg. Potatoes 72% harvested, 100% 1998, 73% avg. Sweet Corn 55% harvested, 69% 1998, 50% avg. Tomatoes 41% harvested, 44% 1998, 36% avg. Cantaloupes 47% harvested, 61% 1998, 50% avg. Lima beans 12% harvested, 18% 1998, 8% avg. Watermelons 24% harvested, 41% 1998, 37% avg. Peaches 2% poor, 38% fair, 52% good, 8% excellent; 30% harvested, 40% 1998, 32% avg. Apples 3% poor, 22% fair, 64% good, 11% excellent. Clover, other hays 80% 2nd cutting harvested, 80% 1998, 70% avg; 36% 3rd cutting, 49% 1998, 19% avg. Alfalfa 45% 3rd cutting harvested, 36% 1998, 39% avg. Pasture feed 31% very poor, 37% poor, 27% fair, 5% good. Hay 9% very short, 45% short, 46% adequate. Activities: Irrigation due to drought stress, vegetable harvest continued, small grains harvesting finished.

MICHIGAN: Days suitable for fieldwork 6.0. Topsoil 13% very short, 22% short, 61% adequate, 4% surplus; subsoil 11% very short, 27% short, 59% adequate, 3% surplus. Hay 0% very poor, 4% poor, 19% fair, 49% good, 28% excellent. Dry beans 1% very poor, 7% poor, 14% fair, 53% good, 25% excellent. Hay 2nd cutting 72%, 88% 1998, 67% avg. Corn Height 79", 70" 1998, 66" avg. Dry beans 79% blooming, 65%

1998, 54% avg. Dry beans setting pods 28%, 30% 1998, 13% avg. Oats 95% turning yellow, 95% 1998, 81% avg.; Record highs through State with temperatures in nineties. Combination of being hot, dry is starting to wear on crops. Even after heavy showers from weekend, reporters saying most crops need rain. Almost all areas except for southern tier counties have had sufficient rain to move crops along. Most areas seeing the best corn growth in recent memory. Some soybean fields sprayed to control white mold brought on by continued high humidity. Central area of Lower Peninsula had some dry bean fields suffering from root rot and mold due to excess moisture. High humidity was also causing a problem with Cercospora leaf spot on sugarbeets. Potatoes sizing tubers in most fields as earliest fields maturing and latest fields completing blossom. Hay harvest slowed considerably as rain, high humidity prevented curing. Cantaloupe harvest continued. Carrot harvest began. Hand-harvest of cucumbers for pickles in full swing. Melon harvest continued. Pea harvest ended. Pepper harvest began with good sized fruit reported. Snap beans developing rapidly with good yields expected. Squash yields excellent. Sweet corn harvest in full swing. Market tomato harvest continued and quality was good. Tart cherry harvest in Northwest was nearly complete. Apples continued to size extremely well. Harvest of summer apples was nearly complete. Peach harvest for early varieties was underway in the South. Japanese plum harvest continued. Harvest of early European varieties expected to start this week. The blueberry harvest continued. Bluecrop harvest slowed down, Jersey harvest began.

MINNESOTA: Days suitable for fieldwork 5.0. Topsoil 2% very short, 15% short, 71% adequate, 12% surplus. Corn 22% milking, 48% 1998, 21% avg. Spring Wheat 79% turning ripe, 93% 1998, 67% avg. Oats 91% turning ripe, 97% 1998, 88% avg. Barley 81% turning ripe, 96% 1998, 69% avg. Rye 41% harvested, 74% 1998, 48% avg. Sweet corn 4% harvested, 20% 1998, 8% avg. Pasture feed 2% very poor, 7% poor, 28% fair, 53% good, 10% excellent. Sugarbeets 1% very poor, 5% poor, 22% fair, 60% good, 12% excellent. Sunflowers 3% very poor, 17% poor, 28% fair, 45% good, 7% excellent. Dry beans 3% very poor, 12% poor, 37% fair, 38% good, 10% excellent. Crops continued to grow well where recent rainfall has been sufficient. Flooded areas in fields, which followed heavy rains the previous week, receded quickly with the heat. Rainfall amounts have been highly variable, even within counties, particularly in central areas. Corn, soybeans in the drier spots are thought to have suffered some damage from scorching heat during their pollination stages.

MISSISSIPPI: Days suitable for fieldwork 6.4. Soil moisture, 15% very short, 42% short, 41% adequate, 2% surplus. Corn 98% dough, 98% 1998, 91% avg.; 85% dent, 83% 1998, 66% avg.; 24% mature, 45% 1998, 22% avg.; 36% silage harvested, 59% 1998, 40% avg.; 1% very poor, 4% poor, 28% fair, 50% good, 17% excellent. Cotton 98% setting bolls, 100% 1998, 97% avg.; 1% very poor, 7% poor, 23% fair, 53% good, 16% excellent. Rice 53% heading, 72% 1998, 67% avg.; 1% very poor, 2% poor, 24% fair, 51% good, 22% excellent. Sorghum 91% heading, 98% 1998, 94% avg.; 48% turning color, 56% 1998, 49% avg.; 7% mature, 4% 1998, 3% avg.; 4% poor, 19% fair, 60% good, 17% excellent. Soybeans 97% blooming, 97% 1998, 83% avg.; 85% setting pods, 76% 1998, 53% avg.; 3% very poor, 9% poor, 29% fair, 49% good, 10% excellent. Sweet potatoes 1% harvested, NA 1998, NA avg.; 16% fair, 84% good. Hay (warm-season) 72% harvested, 69% 1998, 72% avg. Watermelons 75% harvested, 77% 1998, 78% avg. Cattle 1% very poor, 6% poor, 21% fair, 60% good, 12% excellent. Pasture 3% very poor, 10% poor, 26% fair, 53% good, 8% excellent. Most areas of the state continue to suffer under hot, dry conditions. Some reporters indicate a slight increase in insect pressure

MISSOURI: Days suitable for fieldwork 6.8. Topsoil 49% very short, 36% short, 15% adequate. Row crops remain in mostly fair to good condition although stress from lack of moisture is taking its toll. Soybeans 63% blooming, 21% setting pods. Sorghum 52% headed, 9% coloring, 18% coloring in Bootheel. 2nd crop alfalfa cut 97%, 94% 1998, 92% avg. 3rd crop alfalfa cut 26%, 30% 1998, 26% avg. Other hay 92% cut, same as year ago, avg. Pasture 18% very poor, 29% poor, 37% fair, 16% good. Precipitation for week ending August 1, 1999 avg. 0.68 in.

MONTANA: Days suitable for fieldwork 6.9. Majority of the State did not receive precipitation. Topsoil 35% very short, 53% short, 12% adequate. Subsoil 29% very short, 46% short, 25% adequate. Sugar

beets 17% fair, 48% good, 35% excellent. Winter wheat 97% turning, 98% 1998, 98% avg.; 67% ripe, 80% 1998, 53% avg.; 1% very poor, 4% poor, 50% fair, 35% good, 10% excellent. Spring wheat turning 80%, 93% 1998, 70% avg. Spring wheat 12% ripe, 27% 1998, 10% avg. Barley 71% turning, 90% 1998, 66% avg.; 12% ripe, 28% 1998, 13% avg. Oats 70% turning, 85% 1998, 67% avg.; 22% ripe, 45% 1998, 17% avg.; 2% very poor, 7% poor, 16% fair, 55% good, 20% excellent. Corn 1% very poor, 3% poor, 17% fair, 57% good, 22% excellent. Potatoes 2% very poor, 7% poor, 30% fair, 34% good, 27% excellent. Dry beans 3% poor, 14% fair, 50% good, 33% excellent. Alfalfa 99% 1st cutting, 97% 1998, 97% avg. Alfalfa 25% 2nd cutting 25%, 23% 1998, 18% avg. Other hay 88% harvested, 78% 1998, 80% avg.

NEBRASKA: Days suitable for fieldwork 6.8. Temperatures 3 to 6° above normals. Topsoil 12% very short, 44% short, 43% adequate, 1% surplus. Subsoil 8% very short, 30% short, 62% adequate. Precipitation three hundredths in the north central district. Corn 1% very poor, 6% poor, 24% fair, 49% good, 20% excellent. Irrigated corn 71%, dryland corn 65% good or excellent; corn silk 93%, 93% 1998, 80% avg. Soybeans blooming was 84%, 89% 1998, 82% avg.; 30% setting pods, 39% 1998, 34% avg.; 1% very poor, 7% poor, 27% fair, 53% good, 12% excellent. Sorghum 28% headed, 42% 1998, 32% avg. Sorghum 4% poor, 30% fair, 58% good, 8% excellent. Dry beans 4% poor, 27% fair, 63% good, 6% excellent; blooming 73%, 63% 1998, 72% avg. Wheat 97% harvest, 95% 1998, 93% avg. Oats 86% harvested, 86% 1998, 86% avg. Second cutting 96% alfalfa, 92% 1998, 89% avg.; 5% 3rd cut, 3% 1998, 6% avg.; 2% very poor, 3% poor, 23% fair, 61% good, 11% excellent. Range, pasture feed 2% very poor, 7% poor, 29% fair, 50% good, 12% excellent. Wild hay 3% poor, 18% fair, 58% good, and 21% excellent. Pastures, as well as other dryland crops, were under some stress due to hot temperatures. Producer activities; irrigating, haying, moving grain to market, caring for heat stressed livestock, tilling summer fallow, mowing, shredding roadsides, soil preparation for fall seeded wheat.

NEVADA: Weather in the Silver State dry, temperatures were slightly below normal. No precipitation was reported. In spite of this, irrigation water supply remains adequate in most parts of the State. Slightly cooler than normal temperatures were beneficial to pasture, range, hay, row crops. Majority of pasture and range was reported to be in good condition. Second cutting of alfalfa is nearing completion throughout the State. Dry weather has left the hay crop in good condition. Garlic harvest began in Douglas County. Over half of the grain crop had begun turning color, also in good condition. Corn had tasseled and sweet corn was ready for picking. Main farm, ranch activities: irrigating, haying, checking livestock, applying pesticides.

NEW ENGLAND: Days suitable for fieldwork 6.8. Topsoil 43% very short, 45% short, 12% adequate. Subsoil 40% very short, 42% short, 18% adequate. Pasture feed 12% very poor, 38% poor, 36% fair, 12% good, 2% excellent. Maine potatoes 5% harvested; condition good to excellent. Massachusetts potatoes 15% harvested, 5% 1998, 5% avg.; condition good to fair. Rhode Island potatoes 10% harvested, <5% avg.; condition fair. Oats in Maine <5% harvested; condition good. Barley in Maine condition good. Field corn condition good to excellent. Sweet corn 35% harvested, 25% 1998, 20% avg.; condition good to fair. Shade tobacco 40% harvested, 70% 1998, 40% avg.; condition good. Broadleaf tobacco 25% harvested, 30% 1998, 15% avg.; condition good. First cut hay 95% harvested, 95% 1998, 95% avg.; condition good to fair. Second cut hay 45% harvested, 40% 1998, 40% avg.; condition good to fair. Third cut hay 5% harvested, <5% avg.; condition fair. Apples <5% harvested, <5% 1998, <5% avg.; set average, size average, condition good to fair. Peaches 40% harvested; set average, size average to below average, condition fair. Pears set average to below average, size below average to average, condition fair to poor. Cranberries set average, size average, condition good to excellent. Highbush blueberries 60% harvested, 60% 1998, 40% avg.; set average, size average, condition good to fair. Wild Blueberries 20% harvested, <5% 1998, <5% avg.; set average, size average, condition good. Major farm activities included: Harvesting summer vegetables, potatoes, picking fruit including apples, peaches, blueberries. Irrigating where available. Monitoring for pest, applying pesticides where required. Mowing weeds, hoeing fields, marketing produce at roadside stands and farmer's markets.

NEW JERSEY: Days suitable for fieldwork 7. Temperatures much above normal. Extremes 56; 101. Rainfall 0.37 in. north, 0.00 in. central, 0.05 in. south. The heaviest 24 hour total 0.82 in. at Long Valley on the 28th to the 29th. Estimated soil moisture, in percent of field capacity, this past week averaged 58% north, 44% central, 30% south. Four inch soil temperatures averaged 79° north, 76° central, 80° south. Harvest of wheat, barley, rye is virtually complete across the State. Corn condition continues to deteriorate. Its condition is between fair, poor in the south, poor in central, northern areas. Little growth, pollination is occurring. No rain has been received during the critical tassel stage, yields are expected to be reduced significantly. Many fields have already been lost, others are near a complete loss unless rain is received very soon. Single crop soybeans are reported in fair condition while the double crop fields are being severely affected. Like corn, yields are expected to be significantly decreased across the state due to poor pod set. Many fields have been forced into a dormant stage. The condition of the second alfalfa cutting is between fair, poor. Condition of the second other hay crop is in poor condition, no second cutting is expected at all in some areas. Pasture feed is very poor in most of the State. Cattle continue to suffer heat stress, supplemental feeding is occurring extensively. Respiratory problems have been reported, several animals have died. Milk production has been affected. Most irrigated vegetable fields are in good condition, heat stress has begun to affect even irrigated fields. Some sun damage has been reported in tomato, peppers fields. Blossom end rot has also been reported in some tomato fields, production is expected to decrease. Significant damage to the pumpkin crop is expected since the crop is mostly non-irrigated. Good production is expected from early sweet corn plantings, but subsequent plantings are not setting ears. Harvest of tomatoes, squash, sweet corn, peppers, eggplant, potatoes, other minor vegetables continued. Early Cabbage harvest is near completion across the State. Seeding of irrigated fall vegetables has started in southern areas. Fields that are not usually irrigated are being delayed because of the extreme dry conditions. Volume of peaches from southern areas is increasing. Good color, size, flavor have been reported. Condition of peaches in northern area has been rated as good but reduced fruit size, premature fruit drop have been reported. Apples are in good and fair condition, also experiencing a reduced fruit size, premature fruit drop. Blueberry harvest continued in central area.

NEW MEXICO: Days suitable for fieldwork 6.3. Temperatures near normal around most of the State. Coolest areas of the State were west central, southwest. Precipitation was highest over the northeast part of the State. Least precipitation was recorded over the western, southeastern portions of the State. Farmers continued to irrigate, cultivate fields. Hay harvest was still being impacted by scattered showers with harvest slowed, decreased quality. Warmer temperatures provided favorable growing conditions for crops, range and pastures. Ranch activities continued to center around maintenance. Adequate stock tank water was reported in most areas. Range, pasture feed 2% very poor, 10% poor, 31% fair, 49% good, 8% excellent. Cattle, sheep stable with both being reported in mostly good condition.

NEW YORK: Days suitable for fieldwork 6.3. Soil moisture 50% very short, 38% short, 12% adequate. Pasture feed 49% very poor, 13% fair, 8% good. Hay 43% poor, 38% fair, 10% good, 9% excellent. Alfalfa second 84% cutting complete, 78% 1998, 65% avg. Third cutting underway. Growth limited due to dryness. Wheat 97% harvested, 97% 1998, 71% avg. Oats 37% harvested, 32% 1998, 22% avg. Corn 9% poor, 55% fair, 32% good, 4% excellent. Vegetable harvest gained momentum. Irrigation needed. Growers prioritizing which fields to water. Orchards, vineyards showing drought stress. Fruit crops in fair condition. Peach harvest active. Early variety apples picked.

NORTH CAROLINA: Days suitable for fieldwork 6, compared to 5.9 last week. Extremely hot weather coupled with high humidity pushed heat indices into the 100's for much of the State. Several areas received needed precipitation, especially the eastern one-third of the State, parts of the Piedmont. Severe weather accompanied some of that rainfall, no damage reports were received. Despite the scattered rains, soil moisture levels continued to slip, 7% very short, 41% short, 49% adequate, 3% surplus. Finishing tobacco topping, continuing tobacco harvest were the major activities conducted last week. Cotton crop is developing on schedule, corn is running about a week behind. Other activities included weed control in all crops, baling hay, harvesting peaches, vegetables,

sucker control, crop scouting, tending livestock. Irrigation activities resumed in dry areas not receiving rainfall.

NORTH DAKOTA: Days suitable for fieldwork 7. Topsoil 4% very short, 20% short, 68% adequate, 8% surplus. Subsoil 2% very short, 13% short, 74% adequate, 11% surplus. Above normal temperatures, dry conditions pushed development of all crops. Harvest of spring wheat, oats, barley, canola has started. Durum wheat 80% heading, 99% 1998, 93% avg.; 42% milk, 87% 1998, 63% avg.; 10% turning, 44% 1998, 22% avg. Canola 44% turning, 61% 1998; 7% swathed, 17% 1998. Corn 77% tasseling, 89% 1998, 74% avg.; 18% milk, 36% 1998, 22% avg. Dry edible beans 36% podding, 86% 1998, 63% avg.; 7% fully podded, 34% 1998, 13% avg. Flaxseed 90% blooming, 98% 1998, 81% avg.; 12% turning, 35% 1998, 14% avg. Potatoes 88% rows filled, 98% 1998, 86% avg. Soybeans 77% blooming, 95% 1998, 89% avg.; 37% podding, 70% 1998, 61% avg. Sunflowers 12% blooming, 36% 1998, 26% avg. Conditions of all crops, except sugar beets, sunflowers declined due to hot, dry weather. Emerged crop condition: durum 0% very poor, 6% poor, 34% fair, 54% good, 6% excellent; canola 3% poor, 21% fair, 61% good, 15% excellent; corn 1% very poor, 5% poor, 20% fair, 62% good, 12% excellent; dry edible beans 9% poor, 25% fair, 47% good, 19% excellent; flaxseed 4% poor, 23% fair, 60% good, 13% excellent; potatoes 5% poor, 13% fair, 49% good, 33% excellent; soybeans 3% very poor, 10% poor, 25% fair, 53% good, 9% excellent; sugar beets 1% very poor, 5% poor, 13% fair, 49% good, 32% excellent; sunflower 3% poor, 21% fair, 61% good, 15% excellent. Stockwater 2% short, 90% adequate, 8% surplus. Warm, dry weather across most of the state allowed hay harvest to progress. Hay 4% above normal.

OHIO: Days suitable for fieldwork 6.1. Topsoil 36% very short, 39% short, 25% adequate. Soybeans 95% blooming, 88% 1998, 78% avg.; 59% setting pods, 40% 1998, 31% avg. Oats 84% harvested, 56% 1998, 49% avg. Alfalfa 96% 2nd cutting, 90% 1998, 80% avg. Alfalfa 27% 3rd cutting, 19% 1998, 9% avg. Other hay 75% 2nd cutting, 72% 1998, 55% avg.; 12% 3rd cutting, 10% 1998, 3% avg. Corn 95% silked, 80% 1998, 63% avg.; 30% in dough, 14% 1998, 9% avg.; 1% dented, 0% 1998, avg. Summer apples 54% harvested, peaches 40% harvested. Tobacco 18% topped, 14% 1998. Potatoes 12% harvested, cucumbers 36% harvested. Pasture feed 26% very poor, 27% poor, 29% fair, 16% good, 2% excellent. Corn 7% very poor, 13% poor, 31% fair, 38% good, 11% excellent. Activities include mowing CRP ground; making hay; hauling manure; working on equipment; leveling fields; seeding alfalfa; seeding filter strips; spraying soybeans; chopping grass silage; cultivating vegetables; cleaning up down trees, repairing buildings; irrigating vegetables; mowing weeds; green chopping corn; prepping cattle for county fairs; topping, spraying tobacco. Reported weed pressures include Canadian thistle, morning glory, sourdock, velvetleaf, buttonweed, foxtail, ragweed, hemp dogbane, milkweed, quack grass, poison ivy, broadleaf, chickweed, lambs quarter, Johnson grass. Reported insects include spider mites in soybeans; leaf hoppers in alfalfa; rootworms, earworms in corn; beetles in soybeans, corn, cucumbers, squash. Reported diseases include root rot in soybeans; Stewart's wilt in popcorn; virus on melons, squash; dry rot on tomatoes; mildew on pumpkins; gray leaf spot on corn; black shank, sore shin, fusarium wilt on tobacco. Much of the fruit, vegetable crops are suffering from low moisture, high temperature. Peaches in the southern part of the state are ripening too quickly, not producing much fruit. A Columbiana reporter mentioned sweet corn is maturing too fast with the heat. Fruits, vegetables in the Northwest are mostly good to excellent while total losses are occurring in parts of the southeastern part of the state. In Geauga county, blackberries, raspberries are being picked while carrots, parsley are being harvested in Henry county. Pasture, grass conditions are improving in the northern part of the state with recent rains. Pasture in parts of the central, east central, much of the southern half of the state is either barren, dormant, or dried up. This past week was particularly stressful on livestock as many reporters comment on milk production, feed intake dropping. Milk production is down 25% in some areas. Many producers are liquidating herds after pasture, hay stocks, water sources are all but gone.

OKLAHOMA: Days suitable for fieldwork 6.4. Subsoil 5% very short, 28% short, 67% adequate. Topsoil 20% very short, 53% short, 27% adequate. Most of State remains hot, dry. Topsoil lowest since September, 1998. Wheat 87% plowed, 81% 1998, 87% avg.; 6% seedbed prepared, 8% 1998, 11% avg.; Rain needed to advance

seedbed preparation. Oats 90% plowed, 81% 1998, 88% avg.; 1% seedbed prepared, 12% 1998, 5% avg.; corn 1% poor, 6% fair, 90% good, 3% excellent; 99% tasseled, 100% 1998, 94% avg.; 26% milk-to-soft, 70% 1998, 63% avg.; most corn southwest lost because of drought. Soybeans 13% poor, 47% fair, 33% good, 7% excellent; 53% flowering, 68% 1998, 71% avg.; 21% setting pods, 33% 1998, 39% avg. Peanuts 49% setting pods, 53% 1998, 60% avg.; Spider mites beginning to show up in peanuts. Watermelons 100% fruit set, 100% 1998, 95% avg; 45% harvested, 52% 1998, 33% avg.; alfalfa hay 1% very poor, 10% poor, 32% fair, 52% good, 5% excellent; 73% 3rd cutting, 67% 1998, 68% avg.; 6% 4th cutting, 8% 1998, 9% avg.; other hay 93% 1st cutting, 89% 1998, 94% avg.; 33% 2nd cutting, 4% 1998, 39% avg.; Livestock 2% poor, 14% fair, 77% good, 7% excellent. Feeder cattle prices steady to 50 cents per cwt. below last week.

OREGON: Days suitable for fieldwork 6.9. Topsoil 35% very short, 48% short, 17% adequate. Subsoil 30% very short, 53% short, 17% adequate. Barley harvested 21%, 26% 1998, 28% average. Spring wheat harvested 18%, 8% 1998. Winter wheat harvested 48%, 30% 1998, 39% average. Range, pasture feed 4% very poor, 17% poor, 48% fair, 28% good, 3% excellent. Activities: Willamette Valley hay, grass seed harvest continued. Field corn at tassel stage, mint harvest started. Most crimson clover threshed, red clover in full to late bloom. On eastside wheat harvest continued under hot, dry conditions with disappointing yields reported. Northeast grass seed, hay harvest underway with hail, drought, frost damage contributing to low yields. Mid Columbia Basin wheat yields in the twenties, teens. In northeast better than expected wheat test weights in the 58-60 lb. range. Nurseries irrigating, doing summer maintenance, some transplanting, some digging, a little balling of plants. Greenhouses doing clean up, summer maintenance. Iris tubers continued to be harvested. Eastside onions, potatoes looked good with fresh pack potato harvest started. Malheur County some potato vines down, early harvest to begin in a couple of weeks. Northeast sweet corn harvest underway. Willamette Valley green beans, sweet corn growing well; with some green bean harvest underway. Willamette Valley caneberry harvest underway, blueberries at peak. Cherry harvest nearly done, early apples, peaches started to be picked. Hazelnuts sizing. Rogue River Valley tree fruits looked good, sizing well, blueberries harvested. South coast blueberry harvest continued, cranberries sizing, green in color. Northeast cherries, apricots, peaches being harvested. Livestock good to excellent condition statewide. Eastside pastures very dry. Klamath Basin pastures still good. Westside pastures also very dry, some farmers started to feed hay.

PENNSYLVANIA: Days suitable for fieldwork 6.1. Soil moisture 63% very short, 30% short, 7% adequate. Corn 75% silked, 72% 1998, 63% avg.; 23% dough 23% complete, 22% 1998, 9% avg.; height 60 in., 66 in. 1998, 65 in. avg. Soybean 16% very poor, 30% poor, 32% fair, 19% good, 3% excellent. Wheat 96% harvested, 98% 1998, 87% avg. Oats 92% turning yellow, 93% 1998, 91% avg.; 72% ripe, 71% 1998, 62% avg.; 45% harvested, 45% 1998, 35% avg.; 3% very poor, 21% poor, 40% fair, 34% good, 2% excellent. Barley 98% harvested, 100% 1998, 95% avg. Alfalfa 2nd cutting 85% complete, 81% 1998, 71% avg. Alfalfa 3rd cutting 38% complete, 27% 1998, 13% avg. Timothy clover 2nd cutting 33% complete, 38% 1998, 34% avg. Quality of hay made 3% very poor, 17% poor, 31% fair, 36% good, 13% excellent. Apple harvest 9% complete, 8% 1998, 4% avg.; 3% poor, 26% fair, 48% good, 23% excellent. Peach 22% harvest, 40% 1998, 16% avg.; 5% poor, 20% fair, 48% good, 27% excellent. Fall plowing 4% complete, 5% 1998, 2% avg. Activities include: Harvesting oats, fruits and vegetables; topping tobacco; preparing for corn silage harvesting; machinery maintenance; filling silos; hauling manure; spreading fertilizers; applying pesticides; caring for livestock; building and repairing fences; cutting hay; making haylage; baling straw; irrigating crops.

SOUTH CAROLINA: Days suitable for fieldwork 6.4. Soil moisture 6% very short, 51% short, 42% adequate, 1% surplus. Cantalopes 97% harvested, 95% 1998, 91% avg. Corn 6% harvested, 11% 1998, 8% avg.; 6% very poor, 16% poor, 32% fair, 42% good, 4% excellent. Grapes 70% fair, 30% good. Hay 1% very poor, 5% poor, 42% fair, 49% good, 3% excellent. Peaches 73% harvested, 79% 1998, 76% avg.; 6% poor, 30% fair, 35% good, 29% excellent. Snapbeans 99% harvested, 99% 1998, 87% avg. Sorghum 40% turned color, 49% 1998; 1% very poor, 6% poor, 16% fair, 63% good, 14% excellent. Sweet potatoes 3% poor, 28% fair, 68% good, 1% excellent.

SOUTH DAKOTA: Days suitable for fieldwork 5.7. Topsoil 1% very short, 17% short, 72% adequate, 10% surplus. Subsoil 1% very short, 6% short, 76% adequate, 17% surplus. Row crops continued to progress ahead of average spurred by the 100° days. Hot, humid weather has left many areas in desperate need of moisture, with many sites setting record high temperatures before cooler weekend temperatures set in. Winter rye 5% poor, 14% fair, 49% good, 32% excellent. Winter wheat 1% poor, 9% fair, 59% good, 31% excellent. Alfalfa 2% poor, 15% fair, 55% good, 28% excellent. Barley 1% very poor, 2% poor, 8% fair, 69% good, 20% excellent. Sunflower 2% poor, 18% fair, 61% good, 19% excellent. Flaxseed 1% poor, 14% fair, 65% good, 20% excellent. Winter wheat 98% ripe, 100% 1998, 94% avg. Winter rye 97% ripe, 98% 1998, 94% avg.; 49% harvested, 85% 1998, 49% avg. Barley 95% turning color, 99% 1998, 90% avg.; 63% ripe, 81% 1998, 54% avg. Oats 98% turning color, 99% 1998, 90% avg.; 73% ripe, 83% 1998, 62% avg. Spring wheat 95% turning color, 99% 1998, 86% avg.; 70% ripe, 80% 1998, 48% avg. Flaxseed 94% blooming, 89% 1998, 87% avg.; 18% ripe, 84% 1998, 22% avg. Sunflower 22% blooming, 43% 1998, 31% avg. Corn 73 in. height, 73 in. 1998, 61 in. avg.; 98% 2nd cultivation, 100% 1998, 98% avg.; 80% tasseled, 91% 1998, 74% avg. Alfalfa 61% 2nd cutting, 70% 1998, 62% avg.; 13% 3rd cutting, 0% 1998, 0% avg. Other hay 78% harvested, 78% 1998, 74% avg. Cattle 8% fair, 59% good, 33% excellent. Sheep 5% fair, 47% good, 48% excellent. Stock water supplies 21% surplus, 76% adequate, 3% short.

TENNESSEE: Days suitable for fieldwork 7.0. Topsoil 20% very short, 41% short, 35% adequate, 4% surplus. Subsoil 14% very short, 38% short, 44% adequate, 4% surplus. Temperatures averaged about 5 to 7 degrees above normal, with widely scattered thunderstorms and showers providing only temporary relief. The persistent hot, dry weather pattern continued to take a toll on the agricultural industry. For the second straight week, crop, pasture conditions declined, but even with the lack of rain, record high temperatures; all commodities were still rated in good to fair condition. Corn 78% dough, 63% 1998, 64% avg.; 42% dent, 30% 1998, 26% avg.; 4% mature, 2% 1998, 1% avg.; 11% silage harvested, 2% 1998, 3% avg.; 2% very poor, 9% poor, 29% fair, 48% good, 12% excellent. Tobacco 55% topped, 38% 1998, 42% avg.; 3% very poor, 11% poor, 29% fair, 47% good, 10% excellent. Pasture feed 4% very poor, 16% poor, 35% fair, 40% good, 5% excellent. Alfalfa 94% 2nd cutting, 96% 1998, 98% avg.; 6% poor, 34% fair, 49% good, 11% excellent. Cattle 2% very poor, 6% poor, 30% fair, 52% good, 10% excellent. Last week's weather can be summed up with just one word - HOT. Main activities: Topping tobacco, applying sucker control, cutting hay.

TEXAS: Temperatures began to get hotter across the State. Hot, dry weather allowed fieldwork, harvesting to continue, was beginning to cause stress to late planted crops. Most dryland crops continue to fair well, but will need rain in the Plains, North Central. Irrigation in most areas of the State was in full swing. Weeds and insects continued to be monitored, sprayed where needed. Livestock continued to be in good shape with some reports of fly problems. Hot, dry weather allowed hay cutting and baling to continue across the State.

Crops: Small Grains: Harvest was completed. Yields were mostly average to above average. Corn: High Plains crop was in good shape with most corn beginning to tassel. Blacklands harvest was beginning with good yields reported so far. Harvest picked up in south central, Coastal Bend with indications of good yields. Most growers are waiting to harvest along the Upper Coast, few fields have been harvested, yields are good to excellent. 55% dented, 62% 1998, 58% avg. 47% mature, 53% 1998, 44% avg. 16% harvested, 36% 1998, 21% avg. Cotton: Plains area made excellent progress, increased in maturity due to hot temperatures. These areas continued to battle insects, irrigation has been required. More fields were squaring, setting bolls. Blacklands needs moisture to boost maturity. Overall the crop was doing well. Central the crop was doing fair, pink bollworms and stink bugs were showing up. Coastal Bend began harvesting. Defoliation was in progress along the Upper Coast. Prospects for yields were good despite rank growth. Rio Grande Valley had many fields defoliated and some harvest activity began. Rice: Harvest began along the Upper Coast with excellent quality, good yields. In other areas the crop had good growth, maturity. Sorghum: Fields were in excellent condition in the Plains, North Central, dryland fields were in need of rain. Irrigation continued heavy. Insect, weed control continued to be a struggle. Majority of the fields were in

boot, heading stages. In the Blacklands and Central harvest was in full swing. Hot, dry conditions speeded up maturity. In some areas harvest was complete with reports of good yields. The Upper Coast, Coastal Bend, Rio Grande Valley have nearly completed harvest except for late planted fields. 52% turning color, 59% 1998, 61% avg. 45% mature, 48% 1998, 50% avg. 42% harvested, 43% 1998, 39% avg. Soybeans: Very good progress was made in the Plains but rainfall was needed for plants in reproductive stages. Dry conditions helped the Blacklands operators increase harvest activity. Along the Upper Coast wet fields have dried out and harvesting was in progress. Other Crops: Sunflowers 98% planted, 99% 1998, 99% avg.

Commercial Vegetables: Rio Grande Valley, minimal activity occurred for week. San Antonio-Winter Garden, cantaloup harvest neared completion and other activities were minimal. East, commercial production came to a slow stop. Fall vegetables were being planted. Sweet potatoes looked good as well as the pea crop. High Plains, onion harvest continued with other vegetables continuing to progress. Trans Pecos, vegetable harvest neared completion. Peaches: Harvest in most areas was nearing completion. Pecans: Walnut caterpillars infested trees in some areas and weevils in other areas. Nut crop looks good.

Range and Livestock: Pastures were dry with little plant growth occurring but condition was still holding fair to good. Continued heat will cause some fields to deteriorate without moisture. Dry conditions has allowed cutting, baling hay. Livestock for the most part remained in good condition with minimum stress from heat.

UTAH: Days suitable for fieldwork 6. Topsoil 11% very short, 24% short, 64% adequate, 1% surplus. Subsoil 10% very short, 23% short, 67% adequate. Pasture, range feed 2% very poor, 7% poor, 35% fair, 55% good, 1% excellent. Corn height 58 in., 57 in. 1998, 59 in. avg.; silked 44%, 32% avg. Winter wheat 43% harvested, 28% 1998, 47% avg. Spring wheat 21% harvested, 11% 1998, 28% avg. Barley 33% harvested (grain), 17% 1998, 33% avg. Alfalfa hay 71% 2nd cutting, 59% 1998, 63% avg. Other hay 79% 1st cutting, 70% 1998, 73% avg. Oats 91% headed, 85% 1998, 90% avg.; 79% harvested for hay or silage, 69% 1998, 70% avg.; 7% harvested for grain. Tart cherries 57% picked, 60% 1998, 76% avg. Irrigation water supply 7% very short, 18% short, 75% adequate. Stock water supplies 3% very short, 18% short, 77% adequate, 2% surplus. Many counties reported thundershowers throughout the state. Box Elder, Millard, Tooele counties reported grasshopper problems.

VIRGINIA: Days suitable for fieldwork 6.1. Topsoil 26% very short, 24% short, 49% adequate, 1% surplus. Subsoil 38% very short, 27% short, 35% adequate. Pasture feed 21% very poor, 25% poor, 30% fair, 22% good, 2% excellent. Livestock 2% very poor, 10% poor, 28% fair, 54% good, 6% excellent. Hay, other 27% very poor, 32% poor, 24% fair, 14% good, 3% excellent. Hay, Alfalfa 3% very poor, 24% poor, 50% fair, 19% good, 4% excellent. Corn for Grain 76% silked, 67% 1998, 73% avg.; 30% dough, 30% 1998, 33% avg.; 10% dent, 8% 1998, 11% avg.; 16% very poor, 26% poor, 29% fair, 22% good, 7% excellent. Soybeans 100% planted, 100% 1998, 100% avg.; 98% emerged, 99% 1998; 28% blooming, 41% 1998, 39% avg.; 9% setting pods, 15% 1998, 15% avg.; 7% very poor, 13% poor, 43% fair, 30% good, 7% excellent. Winter wheat 100% harvested, 100% 1998, 99% avg. Barley 100% harvested, 100% 1998, 100% avg. Tobacco, flue cured 5% harvested, 6% 1998, 10% avg.; 6% fair, 70% good, 24% excellent. Tobacco, burley 2% very poor, 4% poor, 15% fair, 40% good, 39% excellent. Tobacco, dark fire cured 1% poor, 13% fair, 67% good, 19% excellent. Tobacco, Sun cured 30% poor, 30% fair, 40% good. Peanuts 98% pegged, 97% 1998, na% avg; 4% fair, 70% good, 26% excellent. Cotton 99% squaring, 100% 1998; 54% setting bolls, 94% 1998, 91% avg.; 8% fair, 55% good, 37% excellent. Summer potatoes 83% harvested, 82% 1998, 81% avg.; 2% very poor, 5% poor, 15% fair, 59% good, 19% excellent. Apples, summer 11% harvested, 69% 1998, 20% avg. Apples, all 16% poor, 67% fair, 17% good. Peaches 37% harvested, 47% 1998, 37% avg.; 15% very poor, 13% poor, 40% fair, 21% good, 11% excellent. Temperatures averaged five to ten degrees above normal for most areas of the Commonwealth this past week. Heavy rains, thunderstorms continued, however, precipitation totals remained below average for the majority of localities. Rainfall helped green up pastures and improve crop conditions slightly but did little in terms of growth which was limited by the extreme heat. Some isolated fields were slightly damaged by high wind, hail, extremely hard rains. Subsoil moisture levels did not improve with the recent rains. What moisture was received was used up or evaporated before it could replenish the subsoil. Fall forage prospects may not be quite so bleak

provided rains continue, the extreme heat subsides. Sixty percent of livestock remain in good or excellent condition. This is directly attributed to producers hauling water to herds, feeding at full supplemental levels. Corn is progressing at normal levels but is in need of additional rain. All soybean acreage is reportedly planted at this time, however, progress has been slow, is currently behind 1998, average. Condition of soybeans decreased slightly from the previous week. Weather fleck and blue mold continues to plague the tobacco crop, however, acreage remains mostly in good to excellent condition. Ninety-six percent of peanut acres remain in good or excellent condition. Producers are busy applying herbicides and fungicides. Cotton acres remain in mostly good to excellent condition as well. Application of growth regulators and foliar nutrients are currently underway. Some cotton producers are reporting that plants are setting bolls slightly later than normal. Fruit conditions diminished slightly this past week. Harvest of summer apples, peaches is currently underway. Vegetable producers are busy harvesting summer crops, preparing land for the fall season.

WASHINGTON: Days suitable for fieldwork 7.0. Topsoil 25% very short, 43% short, 32% adequate. Subsoil 19% very short, 57% short, 24% adequate. Winter wheat harvest continued fairly normally, still lagged behind both 1998 and average. Reported yields were variable depending on location. Cooler temperatures before harvest appeared to be beneficial for quality. Harvest for spring wheat, barley was started, not expected to be in full swing for another week. Late maturity of many of the spring crops caused a higher number of aphids than normal. Winter wheat 18% harvested, 30% 1998, 33% avg. Winter wheat, dryland 8% very poor, 18% poor, 45% fair, 25% good, 4% excellent; irrigated 100% good. Spring wheat, dryland 17% very poor, 28% poor, 44% fair, and 11% good; irrigated 100% good; 4% harvested, 11% 1998, 15% avg. Barley, dryland 11% very poor, 27% poor, 48% fair, 14% good; 100% irrigated good; 6% harvested, 16% 1998, 21% avg. Potatoes 8% harvested, 12% 1998, 9% avg.; fair, 61% good, 34% excellent. Hay, other roughage supplies 5% short, 60% adequate, 35% surplus. Range, pasture feed 15% very poor, 32% poor, 34% fair, 19% good. Alfalfa 3rd cutting well underway. Hot, dry weather dried out pastures, increased the fire danger. Potato harvest was started, growers were busy killing vines. Onions were being harvested, a wide variety of vegetables were being harvested. Sweet corn was being harvested in eastern areas. Apricots, peaches were being harvested, apple orchards were being pruned, hand thinned.

WEST VIRGINIA: Days suitable for fieldwork 5.4. Topsoil 57% very short, 35% short, 8% adequate. Scattered rainfall across the State brought little relief to crop and pasture conditions. Hay 48% very poor, 31% poor, 20% fair, 1% good; 44% 2nd cut, 38% 1998, 37% avg. Corn 32% very poor, 50% poor, 13% fair, 5% good; 59% silked, 58% 1998, 58% avg.; 10% doughing, 14% 1998, 15% avg. Oats 13% very poor, 42% poor, 41% fair, 4% good; 33% harvested, 53% 1998, 51% avg. Soybeans 9% very poor, 25% poor, 66% fair; 64% bloomed, 44% 1998, 71% avg.; 22% setting pods, 19% 1998, 34% avg. Tobacco 42% very poor, 18% poor, 40% fair; 5% topped, 9% 1998, 25% avg. Apples 7% very poor, 19% poor, 59% fair, 15% good. Peaches 8% very poor, 16% poor, 60% fair, 16% good. Cattle 4% very poor, 15% poor, 42% fair, 36% good, 3% excellent. Sheep 1% very poor, 25% poor, 51% fair, 18% good, 5% excellent.

WISCONSIN: Days suitable for fieldwork 5.1 Soil moisture 7% short, 77% adequate, 16% surplus. Recent heat wave has caused the corn to grow like "gang busters", as reported from a Barron County reporter. Heat has also sped up corn maturity, with most of the corn silked, starting to set ears. A Dodge County reporter noted that canners have started sweet corn harvest, which is a little ahead of schedule. Soybean crop was rated mostly good to excellent with rapidly advancing maturity. Soybean 1% very poor, 2% poor, 10% fair, 52% good, 35% excellent; 81% bloomed, 83% 1998; 33% setting pods, 50% 1998. Farmers with small grains are wondering when their fields will be dry enough to harvest. Oats harvest has started to move into full swing, but the excessive rain, heat, humidity, have slowed some of the harvest. Marquette County reporter noted that oat yields are up to 80 bushels per acre, with most fields in the 60-70 bushel range. Winter wheat crop was starting to be harvested, but slow due to poor drying conditions. Winter wheat 93% harvested, 96% 1998, 49 avg. Baling of straw was also hampered due to high humidity, wet weather. Hay harvest has been slowed by the wet and humid weather. High humidity has made it hard to get good quality forage. Many reporters

have commented that the third crop is coming along nicely, but leafhoppers are still a problem. Second crop hay 78% harvested, 89% 1998, 66% avg. Pasture feed 1% very poor, 3% poor, 20% fair, 61% good, 15% excellent.

WYOMING: Days suitable for fieldwork 5.9. Topsoil 3% very short, 50% short, 47% adequate. Subsoil 4% very short, 51% short, 45% adequate. Winter wheat 99% mature, 98% 1998, 95% avg.; 82% harvested, 70% 1998, 56% avg. Spring wheat 50% turning color, 95% 1998, 75% avg.; 34% mature, 33% 1998, 32% avg.; 11% harvested, 21% 1998, 8% avg. Barley 79% turning color, 86% 1998, 85% avg.; 66% mature, 39% 1998, 37% avg.; 33% harvested, 8% 1998, 9% avg. Oats 89% headed, 95% 1998, 93% avg.; 40% turning color, 79% 1998, 68% avg.; 16% mature, 40% 1998, 29% avg. Corn 88% tasseled, 90% 1998, 78% avg.; 67% silked, 33% 1998, 40% avg. Dry bean 90% bloom, 96% 1998, 90% avg.; 36% setting pods, 50% 1998, 41% avg. Alfalfa 99% 1st cutting, 95% 1998, 98% avg.; 22% 2nd cutting, 16% 1998, 19% avg. Other hay 57% cut, 66% 1998, 65% avg. Range, pasture feed 1% poor, 12% fair, 77% good, 10% excellent. Crop infestation 25% none, 37% light, 30% moderate, 8% severe. Cattle, sheep in good condition. Stockwater supplies 8% short, 92% adequate. Warm weather continuing during most of the week with little precipitation. Weekend was cooler with scattered precipitation.