

Weekly Weather and Crop Bulletin State Stories

Released July 13, 1999, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on "Weekly Weather and Crop Bulletin State Stories" call Mark E. Miller at (202) 720-7621, office hours 7:00 a.m. to 4:00 p.m. ET.

ALABAMA: Days suitable for fieldwork 4.3. Topsoil 7% short, 59% adequate, 34% surplus. Corn 82% silked, 95% 1998, 88% avg. Crop good to excellent. Wet weather conditions continue to make weed, insect control difficult. Corn 47% doughed; 25% dented, 48% 1998, 34% avg.; 7% mature, 19% 1998. Cotton 88% squaring, 89% 1998, 82% avg.; 30% setting bolls, 43% 1998, 26% avg. Soybeans 93% emerged, 93% 1998; 16% blooming, 28% 1998, 16% avg.; 3% setting pods, 10% 1998, 3% avg. Peanuts 59% pegged, 64% 1998, 52% avg. Wheat 95% harvested, 100% 1998, 95% avg. Hay 97% harvested, 100% 1998, 97% avg. Corn 1% very poor, 2% poor, 18% fair, 50% good, 29% excellent. Cotton 4% poor, 23% fair, 56% good, 17% excellent. Soybean 25% fair, 59% good, 16% excellent. Peanut 2% poor, 22% fair, 48% good, 28% excellent. Pasture feed 1% very poor, 2% poor, 19% fair, 53% good, 25% excellent. Livestock 2% poor, 16% fair, 45% good, 37% excellent.

ALASKA: Days suitable for fieldwork 5.5. Topsoil 15% short, 80% adequate, 5% surplus. Subsoil 15% short, 70% adequate, 15% surplus. Warm, sunny, dry conditions warmed soil temperatures, allowed fieldwork, planting to advance across the State. Daytime high temperatures were mostly in the sixties, with most stations reporting at least one high in the seventies. Lows were mostly in the thirties. Oats planting 15% complete, 65% 1998. Barley 25% planting progress, 75% 1998. Potatoes 5% planted, 10% 1998. Vegetable 10% planting, 5% 1998. Progress of farm work 3.5 to 4 days behind. State livestock 5% poor, 15% fair, 60% good, 20% excellent.

ARIZONA: Cotton squaring is ahead of last year but is slightly behind the average. Small grains harvest is virtually complete. Alfalfa harvest activity 59% not being harvested, 4% light, 8% moderate, 29% active. Alfalfa 5% poor, 16% fair, 63% good, 16% excellent. Central producers shipped a variety of vegetables, melons including cabbage, canary melons, cantaloupes, crenshaw melons, golden honeydew, honeydew, orange flesh melons, Santa Claus melons, parsley, sweet corn, watermelons. Grape shipments included beauty seedless, currants, flame seedless, thompsons. Eastern producers shipped greenhouse tomatoes, dry onions. Western producers harvested a variety of grapes, melons. Grape shipments included beauty seedless, flame seedless, perlettes, thompsons while melon shipments included canary, cantaloupes, honeydew, watermelons. Central, western area citrus producers shipped grapefruit last week.

ARKANSAS: Days suitable for fieldwork 6. Topsoil 2% very short, 33% short, 63% adequate, 2% surplus. Typical July weather all week with temperatures only 2 to 3° above normal. Scattered afternoon showers most days increased through mid week. Stalled front kept temperatures down slightly into the weekend. Rain was more widespread 9th to 11th. Sunday produced the heaviest rainfall amounts of the week. Livestock were reported in good condition. Main farm activities: Finishing planting soybeans, fertilizing cotton, corn, rice, harvesting wheat, hay. Other activities: Irrigating corn, soybeans, cotton, rice, cultivating cotton, spraying cotton, fields for insects, weeds, scouting for sheath blight in rice, harvesting tomatoes, peaches, spraying of rice, cotton, soybean fields for weeds, applying mid-season nitrogen applications to rice, treating cattle for external parasites for summer insect control, ear tagging cattle, vaccinating cattle, weaning calves. Cotton 100% squared; 3% poor 23% fair 60% good 14% excellent. Soybeans 23% bloomed; 5% setting pods; conditions 6% poor 30% fair 50% good 14% excellent.

Sorghum 100% planted; 100% emerged; 36% headed; 3% poor 29% fair 58% good 10% excellent. Wheat 98% harvested. Oats 95% harvested.

CALIFORNIA: Field activities progressed normally under favorable conditions in most areas. Grain harvests of wheat, barley and oats were rapidly winding down, except at higher elevations. Rice growth was good in most fields, although growers in the Sacramento Valley were battling heavier-than-normal weed infestations. Some rice fields were treated for weevils. Cotton bloom continued in earlier planted fields; squares were developing in the San Joaquin, Sacramento valleys. Cotton fields were irrigated, thinned, weeded, sprayed for aphids, armyworms, leafhoppers, lygus, mites. Seed alfalfa was treated for aphids, lygus, weevils. Safflower was sprayed for lygus; fields were drying for harvest in the southern San Joaquin Valley. Sunflowers were treated for head moth in the Sacramento Valley. New crop sugar beets were sprayed for mildew in central counties. Dry beans were blooming in the Sacramento Valley; fields were treated for aphids, stink bugs in the San Joaquin Valley. Corn silage harvest was active in the southern San Joaquin Valley. Alfalfa, Sudan grass were cut, baled for hay. Alfalfa, turf grass were sprayed for weeds. Grape growers were applying sulfur, insecticides to control powdery mildew, insects. Harvest of grapes for fresh use began in the San Joaquin Valley. Early grape picking in Kern County included the Perlette, Flame Seedless varieties. Picking of fresh use grapes in the Coachella Valley continued; Flame Seedless, Thompson Seedless were the primary varieties picked there. Other cultural activities last week included extensive weed control, irrigation of vineyards, orchards. Harvest of apricots, nectarines, freestone peaches, plums continued. Fruit quality was good. Warm weather has accelerated maturity. Black Mission fig harvest began in Merced County. Apple trees were treated for codling moth. Olive trees were exhibiting a good fruit set, maturing well. Tree limbs in almond orchards were propped up to bear the heavy nut set. Pistachio trees were sprayed with fungicides. Walnut trees were treated for blight. Valencia oranges, lemons were picked in southern areas. Most vegetable crops were progressing very well with the warmer temperatures. Cantaloupe, honeydew, watermelon harvest greatly accelerated in the southern San Joaquin Valley. Disease problems, including mildew, vine decline, have appeared in watermelons. Sweet corn was harvested in a few locations. Some sweet corn was treated for earworms, while melons, carrots, bell peppers were treated for armyworms, thrips, mites, aphids. Harvest of fresh market tomatoes continued in the San Joaquin Valley; volume was heavy. A few growers were beginning to harvest in the Sacramento Valley. Other crops harvested last week included beans, broccoli, carrots, celery, cilantro, cucumbers, garlic, leeks, squash, turnips, onions, peppers, potatoes, various greens, herbs. State pasture, range conditions were seasonally normal. Rangeland forage at upper elevations was in good condition, although drying rapidly. Stock water was readily available at higher elevations, but in the central area foothills, creek, stream, reservoir levels were down. Vegetation at lower elevations was very dry, with high danger of range fires. In some areas, grasshopper infestations were damaging foothill pastures. Livestock were in good to fair condition, with some stress from high temperatures. Milk cows suffered in the extreme heat. Bees were pollinating safflower fields in Sutter County, seed crops, melons in the San Joaquin Valley.

COLORADO: Days suitable for fieldwork 6.3. Topsoil 6% very short, 26% short, 67% adequate, 1% surplus. Subsoil 6% very short, 18% short, 75% adequate, 1% surplus. Continued warm temperatures have favored growth, development of all crops, allowed producers to make good progress in harvesting winter wheat. Winter wheat 94% turning

color, 99% 1998, 93% avg.; 76% ripe, 84% 1998, 69% avg. Spring wheat 73% headed, 80% 1998, 82% avg.; 23% turning color, 42% 1998, 24% avg.; 6% poor, 20% fair, 51% good, 23% excellent. Spring barley 99% headed, 98% 1998, 93% avg.; 38% turning color, 29% 1998, 33% avg.; 3% poor, 15% fair, 54% good, 28% excellent. Sorghum 100% emerged, 99% 1998, 94% avg. Oats 85% headed, 94% 1998, 83% avg.; 31% turning color, 44% 1998, 32% avg.; 1% poor, 19% fair, 67% good, 13% excellent. Dry onions 1% very poor, 5% poor, 11% fair, 57% good, 26% excellent. Sugar beets 3% poor, 9% fair, 53% good, 35% excellent. Dry beans 13% flowered, 5% 1998, 4% avg.; 2% poor, 8% fair, 65% good, 25% excellent. Summer potatoes 1% very poor, 2% poor, 3% fair, 54% good, 40% excellent. Fall potatoes 4% poor, 10% fair, 56% good, 30% excellent. Alfalfa 97% 1st cutting, 100% 1998, 94% avg.; 28% 2nd cutting, 18% 1998, 25% avg.; 1% very poor, 3% poor, 17% fair, 61% good, 18% excellent. Pasture, range feed in mostly good.

DELAWARE: Days suitable for fieldwork 6.7. Topsoil 77% short, 23% adequate. Subsoil 4% very short, 33% short, 63% adequate. Winter wheat 85% harvested, 92% 1998, 79% avg. Field corn 1% poor, 24% fair, 68% good, 7% excellent; 25% silked, 31% 1998, 20% avg.; 5% dough, 4% 1998, 2% avg. Soybeans 2% poor, 49% fair, 45% good, 4% excellent; 88% planted, 93% 1998, 89% avg.; 5% bloomed, 8% 1998, 6% avg. Sorghum 1% poor, 14% fair, 82% good, 3% excellent; 5% headed, 4% 1998, 2% avg. Sweet corn 6% harvested, 17% 1998, 12% avg. Snap beans 10% harvested, 11% 1998, 19% avg. Cucumbers 16% harvested, 17% 1998, 18% avg. Lima beans 10% harvested, 9% 1998, 2% avg. Potatoes 14% harvested, 16% 1998, 12% avg. Clover, other hay 48% 2nd cutting, 83% 1998, 59% avg.; 45% 3rd cutting, 47% 1998, 10% avg. Alfalfa hay 82% 2nd cutting harvested, 74% 1998, 73% avg.; 18% 3rd cutting harvested, 23% 1998, 7% avg. Hay supplies 20% short, 80% adequate. Pasture feed 2% very poor, 13% poor, 38% fair, 47% good. Apples 16% fair, 73% good, 11% excellent. Peaches 20% fair, 74% good, 6% excellent; 8% harvested, 11% 1998, 7% avg. Activities: Small grain harvest continued, dry weather continued to take toll on soil moisture levels, veggie harvest started.

FLORIDA: Topsoil throughout State mostly adequate to surplus. Scattered rains, hot temperatures continued. Rainfall less than 0.10 in. West Palm Beach, Jacksonville; to over 4.00 in. Pensacola. Temperatures lows in 60s, 70s to highs in 80s, 90s. Tobacco harvest active. Cotton in good condition. Cotton starting bloom. Digging green peanuts. Weeds becoming problem in some cotton, peanut fields. Sugarcane growth normal. Haying between showers. Peanut fair 1%, good 74%, excellent 25%; 73% pegged. Vegetable growers around Quincy have laid most plastic for fall crop tomatoes; transplanting to start within next 7 to 10 days. Few northern producers picking watermelons. Southern growers preparing land for fall crop vegetable planting. Dade County producers harvesting okra. Rains most citrus areas, some groves have excessive moisture problems, abundant new growth, new crop fruit making good progress. Valencia, grapefruit harvest over for season except for few fresh juice plants that plan to run late bloom fruit as long as supplies last. Caretakers cutting cover crops, spraying, fertilizing, pushing dead trees, replanting. Pasture feed poor 5%, fair 20%, good 60%, excellent 15%. Condition of cattle poor 5%, fair 20%, good 70%, excellent 5%. Pastures, cattle in mostly good condition throughout State. Recent rains permitted good grass growth. North, central areas; haying begun, yield, quality good.

GEORGIA: Days suitable for fieldwork 5.1. Soil moisture 2% very short, 14% short, 74% adequate, 10% surplus. Topsoil conditions changed slightly, however almost three-quarters of the State's cropland had adequate soil moisture. Corn, sorghum, soybean conditions continued to improve last week. Scattered showers continued over much of State last week which provided temporary relief to crops, pastures. Corn 85% dough, 80% 1998, 82% avg.; 58% dent, 49% 1998, 48% avg.; 13% mature, 9% 1998, 8% avg. Hay 1% very poor, 5% poor, 33% fair, 52% good, 9% excellent. Peanuts 93% blooming, 93% 1998, 96% avg. Sorghum 3% very poor, 9% poor, 37% fair, 46% good, 5% excellent; 98% planted, 93% 1998, 95% avg. Soybeans 98% planted, 96% 1998, 98% avg.; 95% emerged, 88% 1998. Tobacco 8% very poor, 16% poor, 37% fair, 33% good, 6% excellent; 13% harvested, 16% 1998, 27% avg. Watermelons 78% harvested, 81% 1998, 73% avg. Apples 19% fair, 52% good, 29% excellent. Peaches 1% poor, 26% fair, 36% good, 37% excellent; 63% harvested, 75% 1998, 82% avg. Pecans 3% very poor, 10% poor, 34% fair, 45% good, 8% excellent. Corn progress remained

ahead of the five year average pace. Sorghum planting neared completion. Soybean progress remained ahead of last year's pace in the blooming, setting pod stages with the crop almost completely emerged. There were isolated reports of insect pressure on cotton fields last week. Other cotton farmers were controlling weeds. Overall condition of the crop remained in fair to good condition. Tobacco harvest continued last week with slightly changed condition. Peanut condition changed slightly as progress remained behind the average pace in the blooming, pegging stages. Diseases affected some watermelon fields last week. Harvest remained ahead of the average pace. Peach condition remained steady last week as harvest continued to lag behind 1998, average pace. Pastures continued to improve with the rainfall. Haying operations continued as weather permitted. Other activities included applying fungicides to peanuts and growth regulators for cotton as well as the routine care of livestock.

HAWAII: Crop progress was fair. Irrigation remained heavy under generally dry conditions. Water conservation measures affected parts of Maui, Hawaii islands. Head cabbage harvesting to remain steady. Crop in good condition. Harvesting of sweet corn, tomato, cucumber active. Irrigation maintaining normal progress. Banana harvesting active. Summer weather benefitting crop. Papaya orchards in good to poor condition. Disease remains a problem in some fields. Overall, harvesting active at moderate to heavy volume.

IDAHO: Days suitable for fieldwork 6.8. Topsoil, 2% very short, 28% short, 68% adequate, 2% surplus. Warm temperatures across the State are helping crops grow rapidly. Northern counties report blight presence in some pea fields. Grasshoppers continue to cause damage throughout the State. Irrigation supply 73% excellent, 25% good, 2% fair. Alfalfa hay 91% 1st cutting, 84% 1998, 91% avg.; 13% 2nd cutting, 19% 1998, 15% avg. Oats 65% headed. Mint 2% harvested, 2% 1998, 2% avg. Cherries 46% harvested, 40% 1998, 76% avg. Potatoes 69% 12" high, 76% 1998, 79% avg.; 24% closing middles, 34% 1998, 44% avg. Barley 57% headed, 56% 1998, 67% avg.; 93% jointed; 79% booted; 3% turning color. Spring wheat 50% headed, 56% 1998, 70% avg.; 96% jointed; 78% booted; 2% turning color. Winter wheat 99% headed, 95% 1998, 98% avg.; 19% turning color. Activities: Irrigating, spraying weeds, cultivating, harvesting, applying insecticides.

ILLINOIS: Days suitable for fieldwork 6.2. Topsoil 2% very short, 23% short, 68% adequate, 7% surplus. Last week's drier weather allowed farmers to nearly complete wheat harvest but corn was showing some stress in areas of lighter soils. Most of the State went without precipitation last week, but a few areas in the south reported heavy rains. Soybeans are progressing well. Northern districts are quickly catching up in wheat harvest due to drier conditions during the week. Other activities for last week included mowing hay, baling straw, hauling grain, spraying pesticides. Corn 68 in. height, 57 in. 1998, 53 in. avg.; 1% dough, 1% 1998, 0% avg. Winter wheat 99% headed, 99% 1998, 95% avg. Oats 98% filled, 87% 1998, 84% avg.; 83% turning yellow, 57% 1998, 54% avg.; 20% ripe, 19% 1998, 17% avg.; 8% harvested, 2% 1998, 3% avg.; 1% poor, 14% fair, 68% good, 17% excellent. Alfalfa 68% 2nd cut, 44% 1998, 44% avg.; 3% 3rd cut, 1% 1998, 1% avg.; 2% poor, 18% fair, 65% good, 15% excellent. Red clover 92% cut, 90% 1998, 93% avg.

INDIANA: Days suitable for fieldwork 6.2. Topsoil 6% very short, 33% short, 55% adequate, 6% surplus. Subsoil 6% very short, 29% short, 60% adequate, 5% surplus. Very little precipitation. Soils dry, northern, central areas. Corn, soybean development far ahead of normal. Pastures deteriorating rapidly. Wheat harvest advanced sharply, aided by favorable weather conditions. Wheat harvest one day behind record pace established in 1988. Soybean double crop planting finished. Pastures 56% good to excellent. Alfalfa hay 70% 2nd cutting, 44% 1998, 36% avg. Activities: Harvesting wheat, applying post-emergence chemicals, planting double crop soybeans, selling grain, mowing roads, pastures, baling hay and straw, spraying, repairing equipment, monitoring fields for insects, caring for livestock.

IOWA: Days suitable for fieldwork 5.5. Topsoil 8% short, 80% adequate, 12% surplus. Subsoil 4% short, 81% adequate, 1% surplus. General crops looking a lot better this week; some fields damaged by hail, excessive water. Corn 85% cultivated, 79% 1998, 88% avg.; 6% tasseled, 19% 1998, 11% avg.; 2% silked, 11% 1998, 6% avg. Corn tallest 72 in.

height; 57 in. avg. Corn 2% very poor, 4% poor, 16% fair, 51% good, 27% excellent. Soybeans 41% blooming, 43% 1998, 32% avg.; 3% setting pods, 0% 1998, 4% avg.; 2% very poor, 4% poor, 17% fair, 54% good, 23% excellent. Oats 90% turning, 61% 1998, 59% avg.; 3% harvested, 10% 1998, 6% avg.; 1% very poor, 3% poor, 16% fair, good 55%, excellent 25%. Winter wheat 29% harvested, 28% 1998, 30% avg. Livestock considered to be in good condition. Some pinkeye being reported in southern third of State. Range, pasture feed 1% very poor, 4% poor, 17% fair, 55% good, 23% excellent. Alfalfa 47% 2nd cutting, 17% 1998, 22% avg. Clover hay 90% 1st cutting, 83% 1998, 87% avg.; 13% 2nd cutting, 15% 1998, 11% avg. Hay 1% very poor, 3% poor, 15% fair, 55% good, 26% excellent.

KANSAS: Days suitable for fieldwork 5.9. Topsoil 13% short, 79% adequate, 8% surplus. Subsoil 3% short, 85% adequate, 12% surplus. Continued hot, dry weather across most of the State has allowed the wheat harvest to progress rapidly. Harvest was slowed in some areas due to rain showers, some low-lying muddy areas remain to be harvested. Corn 1% doughing, 7% 1998, 7% avg. Soybeans 96% planted, 100% 1998, 99% avg.; 90% emerged, 99% 1998. Sorghum 97% emerged, 99% 1998. Sunflower 3% poor, 17% fair, 64% good, 16% excellent; 98% planted, 96% 1998; 84% emerged, 93% 1998.; 3% blooming, 7% 1998. Alfalfa 73% 2nd cutting, 87% 1998, 77% avg.; 6% 3rd cutting, 8% 1998, 8% avg. Major field activities: Harvesting wheat, cultivating corn, milo; working stubble, irrigating, applying herbicides, putting up hay, finishing up planting of fall crops. Hay, forage 1% short, 86% adequate, 13% surplus. Livestock producers are starting to move cattle from short-season pastures to feedlots. Pinkeye, flies are reported to be an increasing problem in some areas. Stock water supplies 2% short, 87% adequate, 11% surplus.

KENTUCKY: Days suitable for fieldwork 5.5. Topsoil 18% very short, 23% short, 56% adequate, 3% surplus. Subsoil 22% very short, 24% short, 52% adequate, 2% surplus. Temperatures above normal throughout the State, with high temperatures in the 90's. Rainfall below normal, with only scattered showers. Dry conditions are a concern specially in the Bluegrass, Eastern portions of the State. Burley tobacco, black shank is the leading problematic disease throughout the State, although blue mold is a problem in several areas. Tobacco 4% very poor, 13% poor, 27% fair, 40% good, 16% excellent; height 38% under 24 in., 41% 24-36 in., 21% over 36 in. Pasture feed 6% very poor, 19% poor, 30% fair, 37% good, 8% excellent. Pastures still need rain in northeastern, eastern areas. Winter wheat harvest 99% complete. Yields, test weights continue to look good. Hay crop was 4% very poor, 13% poor, 24% fair, 48% good, 11% excellent.

LOUISIANA: Days suitable for fieldwork 4.0. Soil moisture 1% very short, 7% short, 73% adequate, 19% surplus. Corn 1% very poor, 2% poor, 19% fair, 67% good, 11% excellent; 100% silked, 100% 1998, 99% avg.; 88% dough stage, 96% 1998, 88% avg.; 21% mature, 28% 1998, 18% avg. Hay 98% 1st cutting, 96% 1998, 96% avg.; 7% final cutting, 12% 1998, 15% avg. Hay harvest was slow due to the rains. Peaches 96% harvested, 80% 1998, 70% avg. Rice 5% ripe, 5% 1998, 3% avg. Rice began to ripen. Sorghum 6% turning color, 7% 1998, 6% avg. Sugarcane 10% fair, 63% good, 27% excellent. Sugarcane continued to look good. Sweet potatoes 100% planted, 98% 1998, 97% avg. Livestock 2% poor, 20% fair, 66% good, 12% excellent. Vegetables 1% very poor, 10% poor, 34% fair, 48% good, 7% excellent. Tomatoes, eggplants, and melons were being harvested.

MARYLAND: Days suitable for fieldwork 6.5. Subsoil 26% very short, 64% short, 10% adequate. Topsoil 35% very short, 46% short, 19% adequate. Winter wheat 85% harvested, 88% 1998, 73% avg. Rye 89% harvested, 78% 1998, 62% avg. Corn 3% very poor, 16% poor, 33% fair, 45% good, 3% excellent; 30% silked, 39% 1998, 18% avg. Soybeans 1% very poor, 12% poor, 34% fair, 50% good, 3% excellent; 91% planted, 94% 1998, 84% avg; 9% bloomed, 14% 1998, 5% avg; 5% setting pods, 13% 1998, 3% avg. Sorghum 1% poor, 49% fair, 40% good, 10% excellent. Tobacco 3% very poor, 10% poor, 53% fair, 34% good; 8% bloomed, 8% 1998, 5% avg. Snap beans 30% harvested, 25% 1998, 26% avg. Cucumbers 40% harvested, 28% 1998, 30% avg. Potatoes 31% harvested, 89% 1998, 32% avg. Sweet corn 22% harvested, 14% 1998, 13% avg. Tomatoes 22% harvested, 4% 1998, 4% avg. Cantaloupes 15% harvested, 10% 1998, 9% avg. Peaches 1% poor,

20% fair, 56% good, 23% excellent; 18% harvested, 17% 1998, 7% avg. Apples 4% fair, 68% good, 28% excellent. Clover and other hays 55% 2nd cutting harvested, 49% 1998, 36% avg.; 30% 3rd cutting, 39% 1998, 9% avg. Alfalfa 90% 2nd cutting harvested, 83% 1998, 69% avg.; 12% 3rd cutting harvested, 14% 1998, 7% avg. Pasture feed 10% very poor, 33% poor, 41% fair, 15% good, 1% excellent. Hay 2% very short, 32% short, 65% adequate, 1% surplus. Activities: Small grain harvesting continued, barley harvest completed, veggio harvest continued, dry weather persists.

MICHIGAN: Days suitable for fieldwork 5.0. Topsoil 7% very short, 8% short, 73% adequate, 12% surplus. Subsoil 2% very short, 26% short, 66% adequate, 6% surplus. Heat died down to more normal temperatures through State. Rain also came through as scattered showers. Crops seem to be doing well as one optimist from the thumb reported, "If rains keep coming as it has, beets and corn should have record yields." Another observer from the Northwest part agrees saying, "We are looking at the best crops in years." Warm weather, adequate rain has kept most field crops ahead of normal. All hay 1% very poor, 6% poor, 15% fair, 51% good, 27% excellent. Winter wheat 1% very poor, 5% poor, 14% fair, 61% good, 19% excellent. Hay 95% 1st cutting, 100% 1998, 95% avg.; 32% 2nd cutting, 32% 1998, 21% avg. Corn 50 in. height, 38 in. 1998, 38 in. avg. Drybeans 5% blooming, 2% 1998, 1% avg. Oats 54% turning yellow, 64% 1998, 32% avg. Good alfalfa yields reported in the south, west as 2nd cutting started. Potato leafhoppers active throughout the State with high grasshopper counts in the north. Early planted corn began to tassel in the south, central areas. Earliest planted soybeans beginning to bloom. Some fields with poor stands have been replanted. Farmers deciding viability of double cropping as wheat harvest was nearing completion in south. Timely rains, lots of sunshine have put sugar beets in excellent condition. Drybeans in generally good condition after struggling to establish although potato leafhoppers exerting pressure in some areas. Potatoes doing well with good tuber set in early fields. Warm temperatures, adequate rainfall continued to push vegetable growth. Cabbage harvest continued with good size and quality reported. Growth was slowed with warmer temperatures. Celery harvest started for many growers. No serious disease problems have been reported. Cucumber volume was very heavy. No significant disease or insect problems noted. Pea harvest continued with yields holding up well in spite of heat. Some blossom drop occurred on peppers last week. Snap bean growth accelerated with heat. Summer squash development was very rapid with harvest continuing. Early sweet corn fields fully silked with harvest already underway in some areas. Market tomatoes harvested with volume increasing. Processing tomatoes continued to make great growth. Fruit development continued ahead of normal. Southwest tart cherry harvest was almost completed with fruit quality reported being excellent. West central tart cherry harvest was underway with most early harvest graded good or excellent. Northwest tart cherry harvest was getting started. Windwhip damage, disease a concern in the northwest. Apples 2.25 in. diameter. Peaches 2.0 to 2.5 in. diameter. Apricot harvest had started. Plum harvest will start this week. Grape berries growing rapidly with clusters approaching berry touch. Blueberry harvest was in full swing, about two weeks ahead of normal. Quality and volume reported to be good. Sweet Cherry harvest was almost complete in the west central and continued in northwest. Quality was reported as excellent in west central. Some cracking was reported in northwest, damage was limited.

MINNESOTA: Days suitable for fieldwork 3.9. Topsoil 1% short, 67% adequate, 32% surplus. After another week of above normal precipitation, the State could use some warmer, drier conditions, especially in the northern part of the State. Weekly precipitation for the State has been above normal for eight of the last ten weeks. Dry weather is needed so any further cultivating or spraying can be finished. Also, it has been difficult to bale hay because of the frequent rains over the last few weeks. Corn 50 in. height, 62 in. 1998, 49 in. avg. Soybeans 14 in height, 17 in. 1998, 15 in. avg. Spring wheat 12% turning ripe, 18% 1998, 11% avg. Oats 22% turning ripe, 38% 1998, 27% avg. Barley 9% turning ripe, 15% 1998, 11% avg. Pasture feed 4% poor, 14% fair, 68% good, 14% excellent. Sugar beet 1% very poor, 7% poor, 16% fair, 65% good, 11% excellent. In general, it seems that the earlier the small grains were planted, the better condition the crop is in.

MISSISSIPPI: Days suitable for fieldwork 4.3. Soil moisture, 1% very short, 10% short, 61% adequate, 28% surplus. Corn 99% silked, 97% 1998, 91% avg.; 84% dough, 78% 1998, 62% avg.; 40% dent, 49% 1998,

25% avg.; 3% poor, 19% fair, 58% good, 20% excellent. Cotton 97% squaring, 99% 1998, 95% avg.; 61% setting bolls, 73% 1998, 55% avg.; 2% very poor, 4% poor, 17% fair, 50% good, 27% excellent. Rice 10% heading, 29% 1998, 19% avg.; 1% very poor, 2% poor, 19% fair, 60% good, 18% excellent. Sorghum 65% heading, 65% 1998, 58% avg.; 1% poor, 10% fair, 60% good, 29% excellent. Soybeans 84% blooming, 74% 1998, 50% avg.; 55% setting pods, 42% 1998, 16% avg.; 1% very poor, 4% poor, 20% fair, 56% good, 19% excellent. Sweet potatoes 97% planted, 100% 1998, 97% avg.; 1% poor, 30% fair, 65% good, 4% excellent. Hay (warm-season) 60% harvested, 61% 1998, 59% avg.; 1% very poor, 6% poor, 33% fair, 47% good, 13% excellent. Watermelons 49% harvested, 37% 1998, 33% avg.; 10% fair, 70% good, 20% excellent. Blueberries, 10% poor, 5% fair, 75% good, 10% excellent. Cattle, 3% poor, 21% fair, 57% good, 19% excellent. Pasture feed 3% poor, 27% fair, 53% good, 17% excellent. Rice development is progressing slightly behind the five-year. However, the cotton, corn, soybean crops are progressing ahead of normal. Scattered rainfall has been beneficial to many areas.

MISSOURI: Days suitable for fieldwork 5.9. Topsoil 2% very short, 19% short, 72% adequate, 7% surplus. Precipitation 0.48 in. Corn 39% silking, 89% Bootheel. Double-crop soybean 83% planting complete. Soybeans 19% blooming, 23% Bootheel. Soybean 1% very poor, 10% poor, 34% fair, 49% good, 6% excellent. Sorghum 12% headed, 32% Bootheel. Winter wheat 92% harvested; 1% very poor, 12% poor, 26% fair, 51% good, 10% excellent. Pasture feed 5% poor, 24% fair, 61% good, 10% excellent.

MONTANA: Days suitable for fieldwork 5.9. Topsoil 12% very short, 36% short, 48% adequate, 4% surplus. Subsoil 13% very short, 34% short, 50% adequate, 3% surplus. Majority of the State did not receive precipitation, excluding some locations in the northeastern part of the State. Sugar beets 4% poor, 13% fair, 59% good, 24% excellent. Winter wheat 38% turning, 69% 1998, 43% avg. Winter wheat 0% ripe, 2% 1998, 1% avg.; 2% very poor, 12% poor, 40% fair, 36% good, 10% excellent. Spring wheat 80% in boot, 99% 1998, 96% avg.; 4% turning, 9% 1998, 5% avg. Barley 79% in boot, 100% 1998, 95% avg.; 2% turning, 6% 1998, 5% avg. Oats 80% in boot, 99% 1998, 95% avg.; 52% headed, 78% 1998, 67% avg.; 5% turning, 10% 1998, 6% avg.; 1% very poor, 3% poor, 18% fair, 63% good, 15% excellent. Corn 7% fair, 80% good, 13% excellent. Potatoes 87% fair, 13% good. Dry beans 3% fair, 91% good, 6% excellent. Alfalfa 58% 1st cutting, 55% 1998, 65% avg.; 1% 2nd cutting, 1% 1998, 0% avg. Other hay 42% harvested, 29% 1998, 48% avg. Only other fieldwork being done is spraying of summer fallow.

NEBRASKA: Days suitable for fieldwork 6.0. Topsoil 11% short, 85% adequate, 4% surplus. Subsoil 4% short, 93% adequate, 3% surplus. Statewide, temperatures near normals, except in the Valentines' area where temperatures 4° below normal. Precipitation traces to over a half inch in the southeast. Corn 1% very poor, 2% poor, 14% fair, 60% good, 23% excellent. Irrigated corn 81%, dryland corn 87% in good or excellent. European corn borer infestation in some fields were noted to need treatment. Soybean 24% blooming, 22% 1998, 19% avg.; 1% poor, 17% fair, 67% good, 15% excellent. Sorghum 3% headed, just above 1998, average; 1% poor, 21% fair, 67% good, 11% excellent. Dry beans 1% very poor, 1% poor, 25% fair, 72% good, 1% excellent. Wheat 6% very poor, 5% poor, 21% fair, 50% good, 18% excellent; 51% ripe, 67% 1998, 57% avg.; 36% harvest, 35% 1998, 33% avg. Oats 11% harvest, 6% 1998, 10% avg.; 4% poor, 13% fair, 69% good, 14% excellent. Alfalfa 47% 2nd cutting, 32% 1998, 30% avg.; 1% very poor, 1% poor, 17% fair, 69% good, 12% excellent. Pasture feed, range 2% poor, 13% fair, 63% good, 22% excellent. Wild hay 1% very poor, 2% poor, 9% fair, 70% good, 18% excellent. Pastures were providing excellent grazing. Because of hot temperatures, livestock experienced some stress. Producers were busy using water to keep animals cool. Flies were a problem, control was necessary. Producer activities; irrigating, cultivating soybeans, applying herbicide, fertilizer, measuring weed control, insect scouting, harvesting wheat, alfalfa, oats, marketing of crops.

NEVADA: Weather varied greatly throughout the State. Las Vegas reported 1.33 inches of precipitation for the week; all but 0.04 inches fell on the 8th. Ely also received some rainfall at 0.15 inches for the week. Rest of the State had no precipitation. Only the central parts of the State

experienced above normal temperatures for the week, while the northern and southern parts of Nevada had below normal temperatures for the majority of the week. Though temperatures were below normal in much of the State, the range conditions decreased due to the hot temperatures and isolated precipitation. The majority of irrigation water supply remained adequate. First cutting of alfalfa is nearly completed and second cutting is well underway. Other hay is also being cut. Warm weather was good for the row crops. Livestock continued to graze the summer ranges. Main farm, ranch activities: irrigating, haying, spraying weeds, putting out bees for alfalfa.

NEW ENGLAND: Days suitable for fieldwork 5.6. Topsoil 10% very short, 27% short, 61% adequate, 2% surplus. Subsoil 10% very short, 40% short, 48% adequate, 2% surplus. Maine potatoes 100% emerged; excellent to good. Massachusetts potatoes 100% emerged; good. Rhode Island potatoes 100% emerged; good to fair. Oats in Maine 100% emerged; good to excellent. Barley in Maine 100% emerged; good to excellent. Field corn 100% emerged; good to excellent. Sweet corn 100% planted, 99% 1998, 99% avg.; 99% emerged; <5% harvested, <5% 1998, <5% avg.; good to fair. Shade tobacco 10% harvested, <5% 1998, <5% avg.; good. Broadleaf tobacco 100% planted, 100% 1998, 100% avg.; good. First cut hay 90% harvested, 75% 1998, 80% avg.; good to fair. Second cut hay 20% harvested, 15% 1998, 15% avg.; fair to good. Pasture feed 2% very poor, 11% poor, 48% fair, 31% good, 8% excellent. Apples set average, size average, condition good. Peaches set average, size average, condition good to fair. Pears set average to below average, size average to below average, condition good to fair. Strawberries 99% harvested, 99% 1998, 85% average, set average, size average, condition good. Cranberries petal fall, condition good to excellent. Highbush blueberries 10% harvested, <5% 1998, <5% average, set average, size average, condition fair to good. Wild Blueberries set average, size average, condition good. Major farm activities included: Harvesting early season vegetables, strawberries; shade tobacco, sweet corn harvest just starting; cultivating, hoeing; scouting for pest, applying pesticides when necessary; second cut hay harvest underway; irrigating where possible; side dressing fields, successive planting.

NEW JERSEY: Days suitable for fieldwork 7. Temperatures much above normal. Extremes 44°; 104°. Rainfall 0.05 in. north, 0.00 in. central, 0.00 in. south. Heaviest 24 hour total was 0.08 in. Charlotteburg on the 9th to the 10th. Estimated soil moisture, in percent of field capacity, this past week averaged 56% north, 43% central, 32% south. Four inch soil temperatures 77° north, 80° central, 81° south. Harvest of wheat, barley is picking up rapidly in the southern counties. Second cutting of hay is also under way but quality may have been affected by the dry conditions. It has been reported that some areas may not have a second cutting. Demand for hay is increasing due to the poor pasture conditions. Field corn condition is still between fair, good in most of the State, but yields are expected to be affected if no rain is received soon. Single crop soybeans condition is similar. Irrigation continues extensively across the State for vegetables, most fields have been rated in good condition. Some exceptions are pumpkins and sweet corn in northern areas, where many fields are not being irrigated. Some insect problems have been reported on snap beans fields. Harvest of tomatoes continued in south, central areas. Most tomato fields are between good and excellent condition. Hot temperatures have been favorable for sweet potato fields. Potato harvest has started in southern area and the quality seems to be good. Harvest for squash, cabbage, snap beans, sweet corn and peppers continued. Peach condition in southern areas is still in good and excellent condition. The condition of peaches in northern areas has been rated between good and fair. Some early varieties of peaches are being harvested now. Apple conditions are between fair and good. Blueberry harvest is at its peak. Cranberries are sizing up nicely.

NEW MEXICO: Days suitable for fieldwork 5.8. State experienced active weather, with scattered to numerous showers, thunderstorms. Cold front plunged southward late in the week, dropping Carlsbad's high temperature from 104° on Friday to 72° on Saturday. Clouds, precipitation kept temperatures a little below normal at most locations. Greatest precipitation included 3.13" at Des Moines, 2.93" at Raton, 2.70" at Roswell. Farmers continued to harvest hay, wheat, onions along with cultivating, thinning, spraying, irrigating other crops. Harvesting of summer potatoes started in Roosevelt county. Ranchers were still moving cattle and branding. Although rains have helped there were still a few locations reporting supplemental feeding, hauling of water. Range,

pasture feed 6% very poor, 9% poor, 33% fair, 37% good, 15% excellent. Cattle, sheep again showed little change with cattle in mostly good condition, sheep mostly fair to good condition.

NEW YORK: Days suitable for fieldwork 4.6. Soil moisture 9% very short, 39% short, 52% adequate. Rainfall beneficial. Hay condition 7% poor, 61% fair, 32% good. Alfalfa 97% 1st cutting harvested, 92% 1998, 94% avg.; 2nd cutting well underway. Dry beans 96% planted, 100% 1998, 97% avg. Wheat condition improved to 21% fair, 79% good. Sweet corn harvest underway. Pasture feed 9% very poor, 14% poor, 73% fair, 4% good. Strawberry picking finishing up. Onion crop in good condition. Apples in good condition. Sprays being applied. Irrigation needed. Sweet cherry harvest winding down, tart cherry harvest began. Grapes in good condition. Peaches in good condition, early varieties being harvested. Livestock stressed by heat.

NORTH CAROLINA: Days suitable for fieldwork 5.4 compared to 4.9 last week. Soil moisture levels dipped a little 10% very short, 35% short, 45% adequate, 10% surplus. Although the heat was nearly unbearable, the weather did allow farmers to get into the fields. Crop conditions remained mostly good, rainfall this coming week should prove beneficial. Week was highlighted by extreme hot weather across the State. Most areas in the Mountain region received good rainfall; however, the rest of State was burning up with temperature above 100° in many areas, especially in the Piedmont. Small grain harvest is nearly complete with only limited acres of wheat, rye unharvested. Good progress was made in soybean planting as the double cropped acreage is almost finished. Potato farmers made good gains this week in Irish potato harvest. Other activities included: Weed control in all crops, sucker control, topping in tobacco, planting sweet potatoes, wrapping up sorghum planting, making hay, tending livestock.

NORTH DAKOTA: Days suitable for fieldwork 5. Topsoil 6% short, 80% adequate, 14% surplus. Subsoil 3% short, 80% adequate, 17% surplus. Warm, dry weather is needed to aid the development of row crops, allow producers to finish the hay harvest. Isolated grasshopper outbreaks reported in the southeast district. Spraying for scab, rust in the northeast district. Durum wheat 41% boot, 80% 1998, 66% avg.; 20% heading, 53% 1998, 40% avg.; 3% milk, 13% 1998, 8% avg. Canola 69% blooming, 92% 1998. Dry edible beans 7% blooming, 42% 1998, 20% avg. Flaxseed 35% blooming, 62% 1998, 31% avg. Potatoes 26% blooming, 55% 1998, 42% avg. Soybeans 6% blooming, 14% 1998, 12% avg. Sunflowers 2% blooming, 1% 1998, 0% avg. Emerged crop condition: durum 5% poor, 28% fair, 58% good, 9% excellent; canola 3% poor, 20% fair, 59% good, 18% excellent; corn 1% very poor, 4% poor, 21% fair, 63% good, 11% excellent; dry edible beans 7% poor, 23% fair, 57% good, 13% excellent; flaxseed 4% poor, 25% fair, 59% good, 12% excellent; potatoes 5% poor, 12% fair, 50% good, 33% excellent; soybeans 7% poor, 28% fair, 54% good, 11% excellent; sugar beets 5% poor, 17% fair, 53% good, 25% excellent; sunflower 3% poor, 26% fair, 62% good, 9% excellent. Pasture feed 3% poor, 12% fair, 68% good, 17% excellent. Stock water 1% short, 90% adequate, 9% surplus. Broadleaf, wild oat spraying 92%, 97% complete, respectively. Hay 6% above normal.

OHIO: Days suitable for fieldwork 6.3. Topsoil 25% very short, 37% short, 37% adequate, 1% surplus. Soybeans 55% blooming, 40% 1998, 24% avg.; 6% setting pods, 4% 1998, 1% avg. Winter wheat 99% ripe, 99% 1998, 65% avg.; 87% harvested, 75% 1998, 39% avg. Oats 44% ripe, 38% 1998, 38% avg.; 6% harvested, 7% 1998, 3% avg. Alfalfa 70% 2nd cutting, 43% 1998, 32% avg. Other hay 42% 2nd cutting, 25% 1998, 17% avg. Corn 10% silked, 8% 1998, 4% avg. Summer apples 16% harvested, peaches 7% harvested. Pasture feed 15% very poor, 23% poor, 35% fair, 23% good, 4% excellent. Corn 3% very poor, 9% poor, 26% fair, 46% good, 16% excellent. Soybeans 3% very poor, 7% poor, 27% fair, 48% good, 15% excellent. Activities: Making hay; combining wheat; spraying for weeds; working on machinery; planting double crop soybeans; mowing ditches, waterways; baling straw; scouting for pests, disease; fixing fences; cultivating corn, soybeans, tobacco; chopping oatlage; harvesting barley; picking, shipping tomatoes in Meigs county; hauling water to livestock; feeding hay to livestock; reporting crops to FSA; harvesting cucumbers. Reported weed pressures include Canadian thistle, morning glory, sourdock, velvetleaf, buttonweed, foxtail, ragweed, hemp dogbane, milkweed, quack grass, poison ivy, broadleaf, chickweed, lambsquarter, Johnsongrass. Reported insects were potato

leafhopper, alfalfa weevil in alfalfa; cutworms, European corn borer, armyworms, western corn beetle, root worms, corn flea beetles in corn; spotted spidermite, beetles in soybeans; cicada, Japanese beetles on fruit trees. Reported diseases were phytophthora, rhizoctonia in soybeans, smut in wheat, blight on vegetables. Fruit, vegetable producers are busy picking raspberries, blueberries, squash, beans, tomatoes, sweet corn. Irrigated crops in the southern part of the State are doing well but non-irrigated crops are drying up, doing poorly. A Huron county reporter mentioned peaches are of excellent quality. A Pike county reporter commented that soybeans appear stunted, some corn is maturing at a height of 3 ft. In Highland county, some soybeans are dying due to drought. Pastures are good to adequate in the northern half of the State, dry and dormant in much of the southern half. Many producers are feeding hay, hauling water. Livestock are suffering from heat, humidity.

OKLAHOMA: Days suitable for fieldwork 5.4. Subsoil 4% short, 88% adequate, 8% surplus. Topsoil 14% short, 77% adequate, 9% surplus. Sunshine, hot weather aided harvesting activities for hay, wheat, other small grains. Temperature eclipse 100° southwest. Wheat 46% plowed, 59% 1998, 67% avg. Oats 89% harvested, 100% 1998, 93% avg.; 34% plowed, 56% 1998, 57% avg. Corn 1% poor, 4% fair, 91% good, 4% excellent; 25% tasseled, 22% 1998, 49% avg.; 9% milk-to-soft, 9% 1998, 15% avg.; Sorghum 97% planted, 98% 1998, 95% avg.; 92% up-to-stand, 91% 1998, 88% avg.; Soybeans 6% poor, 50% fair, 34% good, 10% excellent; 75% planted, 97% 1998, 94% avg.; 55% up-to-stand, 94% 1998, 87% avg.; 13% flowering, 23% 1998, 25% avg. Peanuts 6% setting pods, 16% 1998, 20% avg. Watermelons 57% fruit set, 96% 1998, 72% avg.; 2% harvested, 9% 1998, 6% avg. Alfalfa hay 1% poor, 20% fair, 64% good, 15% excellent; 83% 2nd cutting, 93% 1998, 90% avg.; 24% 3rd cutting, 37% 1998, 25% avg. Other hay 78% 1st cutting, 83% 1998, 84% avg.; 12% 2nd cutting, 2% 1998, 14% avg. Livestock 1% poor, 12% fair, 75% good, 12% excellent. Feeder cattle prices down \$1.00 to \$1.50 per cwt. from last week.

OREGON: Days suitable for fieldwork 6.8. Topsoil 16% very short, 53% short, 30% adequate, 1% surplus. Subsoil 15% very short, 48% short, 36% adequate, 1% surplus. Range, pasture feed 2% very poor, 8% poor, 35% fair, 47% good, 8% excellent. Activities: Westside haying continued. Grain crops turning color. Grass seed harvest underway. Crimson clover seed swathed, threshed. Mint fields look good, red clover in full bloom. East side, spring cereal at risk of drought damage. Hay cuttings continued, second cutting alfalfa yields normal. Grass seed harvest ongoing, summer fallow fertilizing started. Summer maintenance, irrigation occupy nursery activity. Christmas trees look good. East side pea harvest continued, yields reported poor except for irrigated. Potato cultivation, irrigation continued. Warmer temperatures on Westside boosted vegetable growth. Cucumber harvest underway, onions being weeded, growing well. Willamette Valley needs irrigation on sweet corn, green bean acreage; late corn plantings emerged. Willamette Valley, strawberry harvest winding down, raspberry harvest beginning. Blackberries ripening, some picking. Sweet cherry harvest underway, hazelnuts continued to size. Rogue River Valley pears sizing, strawberry harvest complete. South coast growers applying fertilizer on cranberries. Hood River Valley sweet cherry harvest underway in lower valley, pear, apple growers thinning fruit, irrigating orchards. Wasco County sweet cherry harvest continued. Livestock good throughout most State. Pastures good to excellent in Willamette Valley & on coast. Rains in Willamette Valley expected to extend grazing on dryland pastures.

PENNSYLVANIA: Days suitable for fieldwork 6.0. Soil moisture 42% very short, 43% short, 15% adequate. Corn silked 11% complete, 8% 1998, 7% avg.; 42 in. height, 37 in. 1998, 38 in. avg.; 3% very poor, 18% poor, 46% fair, 29% good, 4% excellent. Soybean 1% very poor, 8% poor, 54% fair, 30% good, 7% excellent. Winter wheat 97% turning yellow, 98% 1998, 93% avg.; 88% ripe, 80% 1998, 64% avg.; 47% harvested, 50% 1998, 28% avg.; 1% poor, 11% fair, 71% good, 17% excellent. Oats heading or headed 96% complete, 94% 1998, 88% avg.; 56% turning yellow, 59% 1998, 44% avg.; 30% ripe, 4% 1998, 9% avg.; 2% very poor, 14% poor, 44% fair, 37% good, 3% excellent. Alfalfa 2nd cutting 64% complete, 47% 1998, 41% avg. Timothy clover 1st cutting 94% complete, 84% 1998, 81% avg.; 22% 2nd cutting complete, 4% 1998, 4% avg. Quality of hay made 5% poor, 23% fair, 51% good, 21% excellent. Peach 1% poor, 28% fair, 40% good, 31% excellent. Apple 2% poor, 20% fair, 49% good, 29% excellent. Activities included: Planting soybeans; harvesting barley, wheat, oats, some vegetables;

picking apples and peaches; machinery maintenance; filling silos; hauling manure; spreading fertilizers; caring for livestock; building/repairing fences; cutting hay; making haylage; applying pesticides; irrigating crops.

SOUTH CAROLINA: Days suitable for fieldwork 5.7. Soil moisture 1% very short, 6% short, 84% adequate, 9% surplus. Barley 100% harvested, 100% 1998, 97% avg. Cantelopes 73% harvested, 83% 1998, 78% avg.; 2% very poor, 16% poor, 64% fair, 18% good. Corn 43% doughed, 63% 1998, 66% avg.; 8% very poor, 14% poor, 34% fair, 39% good, 5% excellent. Cucumbers 99% harvested, 97% 1998, 86% avg. Hay 2% very poor, 9% poor, 29% fair, 54% good, 6% excellent. Peaches 54% harvested, 50% 1998, 47% avg.; 10% poor, 24% fair, 40% good, 26% excellent. Rye 100% harvested, 100% 1998, 99% avg. Snapbeans 75% harvested, 91% 1998, 69% avg. Sorghum 100% planted, 99% 1998, 93% avg.; 4% very poor, 6% poor, 3% fair, 87% good. Sweet potatoes 3% poor, 17% fair, 79% good, 1% excellent. Tomatoes 91% harvested, 94% 1998, 85% avg. Watermelons 70% harvested, 83% 1998, 74% avg.; 2% very poor, 13% poor, 47% fair, 38% good.

SOUTH DAKOTA: Topsoil 2% short, 75% adequate, 23% surplus. Subsoil 75% adequate, 25% surplus. Weather conditions across the State allowed crops to advance with development still ahead of the average. Warm, dry weather enabled producers to make great progress in haying, cultivating, spraying. Corn 35 in. height., 46 in. 1998, 36 in. avg.; 92% 1st cultivation, 96% 1998, 93% avg.; 43% 2nd cultivation, 71% 1998, 57% avg. 0% tasseled, 8% 1998, 4% avg. Winter rye 28% excellent, 54% good, 17% fair, 1% poor. Flaxseed 19% excellent, 63% good, 17% fair, 1% poor. Alfalfa 22% excellent, 60% good, 16% fair, 2% poor. Sunflower 12% excellent, 70% good, 15% fair, 3% poor. Winter wheat 25% excellent, 59% good, 15% fair, 1% poor; 94% turning color, 94% 1998, 79% avg.; 29% ripe, 48% 1998, 24% avg.; 3% combined, 5% 1998, 3% avg. Spring wheat 100% in boot stage, 100% 1998, 96% avg.; 33% turning color, 44% 1998, 23% avg.; 0% ripe, 17% 1998, 4% avg. Oats 99% in boot stage, 98% 1998, 95% avg.; 23% turning color, 48% 1998, 28% avg.; 8% ripe, 20% 1998, 10% avg. Barley 100% in boot stage, 99% 1998, 94% avg.; 19% turning color, 57% 1998, 29% avg.; 0% ripe, 13% 1998, 4% avg.; 89% turning color, 79% 1998, 65% avg.; 6% ripe, 49% 1998, 20% avg.; 0% combined, 1% 1998, 1% avg. Flaxseed 54% blooming, 67% 1998, 43% avg. Sunflower 0% blooming, 27% 1998, 6% avg.; 93% 1st cutting, 92% 1998, 93% avg.; 19% 2nd cutting, 24% 1998, 13% avg. Other hay 50% harvested, 48% 1998, 46% avg. Cattle 30% excellent, 66% good, 4% fair. Sheep 39% excellent, 58% good, 3% fair. Stock water supplies 22% surplus, 77% adequate, 1% short.

TENNESSEE: Days suitable for fieldwork 5.0. Topsoil 2% very short, 13% short, 71% adequate, 14% surplus. Subsoil 1% very short, 12% short, 74% adequate, 13% surplus. Corn 84% tasseled, 77% 1998, 76% avg.; 2% poor, 16% fair, 56% good, 26% excellent. Tobacco 6% topped, 3% 1998, 7% avg.; 2% very poor, 6% poor, 25% fair, 54% good, 13% excellent. Pasture feed 2% very poor, 11% poor, 33% fair, 47% good, 7% excellent. Alfalfa 55% 2nd cutting, 65% 1998, 73% avg.; 4% poor, 28% fair, 55% good, 13% excellent. State's tobacco crop remained in mostly good condition last week, even though numerous locations reported low lying fields were showing signs of stress due to excess moisture caused by heavy rains. Growers in these areas are hoping for a few warm sunny days to allow their crop to recover. Tobacco producers continued to report problems with diseases, Black Shank, Tomato Spotted Wilt Virus, insects. State's corn crop continues to respond well to recent moisture, currently rated in mostly good condition. Rains received over the weekend should further help crop development. Pastures, hay fields throughout the State have responded very well to recent moisture.

TEXAS: Rainfall scattered across State, however where rain occurred amounts significant many cases. Fieldwork in areas of heavier rainfall slow. Temperatures again summer like, helping crops to rapidly mature. Ranges, pastures continued enjoy favorable conditions. Haying activity sporadic during week depending on where rain fell. Livestock conditions remained good across State.

Crops: Small Grains: Harvest moved rapidly where field conditions allowed High Plains. Yields continued very good most fields. Scattered rainfall kept progress to minimum some areas. Corn: Early planted fields in High Plains continued to make good progress, silking. Irrigation activity remained steady. Fields continued rapidly mature in Blacklands, Central. Harvest slowed by wet conditions part week in Coastal Bend, along Upper

Coast. Wet fields in Rio Grande Valley also kept harvest to minimum. Some fields have received excessive rain, may cause some loss. 58% doughing, 53% 1998, 52% avg. 46% dented, 46% 1998, 37% avg. 17% mature, 23% 1998, 12% avg. 3% harvested, 6% 1998, 2% avg. Cotton: Hot temperatures in Plains provided much needed heat units for fields to make good progress. Aphid, boll weevil populations have increased, spraying operations underway where field conditions allowed. Fields continued make good progress with good soil moisture conditions, hot temperatures Central, Blacklands. Bolls continued to open in Coastal Bend, Rio Grande Valley, additional rain these areas could hurt quality at this point. 4% open bolls, 8% 1998, 5% avg. Peanuts: Plants began to peg in Plains, most look very good. Irrigation remained steady in Low Plains where some fields still need moisture despite recent rains. Fields made good progress other areas of state under warm temperatures, adequate rainfall. Rice: Harvest began in few fields, however wet conditions kept progress minimal. Disease problems continue show up many fields. 1% harvested, 0% 1998, 0% avg. Sorghum: Most planted fields up, making good growth in Plains. Some cultivation occurred. Planting completed as conditions allowed many fields. Fields rapidly matured under hot temperatures in Blacklands, Central, harvest will begin as soon as conditions allow. Harvest Coastal Bend, along Upper Coast slowed by wet conditions. Harvest in Rio Grande Valley slowed by rain. 39% turning color, 45% 1998, 50% avg. 30% mature, 35% 1998, 31% avg. 21% harvested, 21% 1998, 15% avg. Soybeans: Growth good in Plains, irrigation remained steady. Progress also good along Upper Coast, Northern Blacklands. Open conditions now needed for a while.

Commercial Vegetables: Rio Grande Valley, minimum activity occurred. San Antonio-Winter Garden, a few more watermelon fields harvested between rain showers. East, good watermelon production reported, however harvest continued to be hampered by scattered rain. High Plains, onion, potato harvest began despite wet conditions some fields. Trans Pecos, onion, cantaloup harvest continued. Peaches: Scattered rain slowed picking some groves East, Hill Country. Pecans: Recent, continued rainfall lessened nut drop many areas. Spraying programs continued as weather conditions allowed.

Range and Livestock: Range, pasture conditions continued very favorable across State. Grasshopper populations remained high many areas. Haying activity active as weather allowed with good yields reported good most areas. Livestock conditions remained good across State. Prices a little better at some auctions.

UTAH: Days suitable for field work 7. Topsoil 4% very short, 33% short, 62% adequate, 1% surplus. Subsoil 4% very short, 23% short, 72% adequate, 1% surplus. Range, pasture feed 1% very poor, 7% poor, 36% fair, 55% good, 1% excellent. Corn height 29 in., 22 in. 1998, 30 in. avg. Winter wheat 1% harvested, 0% 1998, 4% avg. Spring wheat 93% headed, 84% 1998, 91% avg. Barley 94% headed, 75% 1998, 90% avg. Alfalfa hay 9% 2nd cutting, 15% 1998, 20% avg. Other hay 56% 1st cutting, 46% 1998, 51% avg. Oats 74% headed, 63% 1998, 67% avg.; 34% harvested for hay or silage, 33% 1998, 35% avg. Sweet cherries 51% picked, 39% 1998, 45% avg. Tart cherries 0% picked, 19% 1998, 14% avg. Irrigation water 1% very short, 16% short, 82% adequate, 1% surplus. Stockwater 11% short, 88% adequate, 1% surplus. Major activities: Harvesting alfalfa hay, irrigating crops, spraying for weeds, insects.

VIRGINIA: Days suitable for fieldwork 6.0. Topsoil 37% very short, 30% short, 30% adequate, 3% surplus. Subsoil 39% very short, 35% short, 26% adequate. Rainfall was variable across the Commonwealth this past week with regards to quantity and frequency. Crop conditions were equally varied. Pasture feed 31% very poor, 30% poor, 27% fair, 12% good. Livestock 2% very poor, 12% poor, 36% fair, 46% good, 4% excellent. Hay, other 46% very poor, 30% poor, 16% fair, 8% good. Hay, alfalfa 13% very poor, 20% poor, 46% fair, 19% good, 2% excellent. Corn for grain 33% silked, 34% 1998, 28% avg.; 3% dough, 0% 1998, 3% avg.; 13% very poor, 26% poor, 35% fair, 22% good, 4% excellent. Soybeans 75% planted, 93% 1998, 88% avg.; 68% emerged, 84% 1998; 1% blooming, 0% 1998, 0% avg.; 4% very poor, 11% poor, 47% fair, 33% good, 5% excellent. Winter wheat 83% harvested, 89% 1998, 81% avg. Barley 97% harvested, 97% 1998, 94% avg. Tobacco, flue cured 5% poor, 30% fair, 47% good, 18% excellent. Tobacco, burley 3% very poor, 11% poor, 14% fair, 41% good, 31% excellent. Tobacco, dark fire cured 9% poor, 47% fair, 34% good, 10% excellent. Tobacco, sun cured 25% poor, 25% fair, 50% good. Peanuts 50% pegged, 69% 1998; 9% fair, 65% good, 26% excellent. Cotton 85% squaring, 78% 1998; 0% setting bolls, 4% 1998, 4% avg.; 1% poor, 21% fair, 53% good, 25% excellent.

Summer potatoes 39% harvested, 32% 1998, 31% avg.; 1% very poor, 3% poor, 31% fair, 53% good, 12% excellent. Apples, all 13% poor, 38% fair, 40% good, 9% excellent. Peaches 10% very poor, 19% poor, 42% fair, 23% good, 6% excellent. Pastureland, hay acreage remains the hardest hit by the hot, dry conditions. Sixty-one percent of pastureland was reported in poor or very poor condition, as well as, 43% of alfalfa, 76% of all other hay. Livestock producers are aggressively reducing their herd size as forage conditions, water, feed supplies continue to decline. Corn condition diminished only slightly from the previous week. Progress remains on a normal schedule. Soybean condition remains virtually unchanged. Producers are actively planting double crop acres as small grain harvest nears completion. Several isolated soybean producers have reported blooms showing in full season acreage. Tobacco condition diminished slightly from the previous week. Some producers have reported black shank problems and the spread of blue mold. Neither plant disease is believed to be a serious concern at this time. Producers are currently in the process of topping plants. Peanut, cotton condition improved greatly from the previous week. Majority of peanut plants are setting pegs at this time. Eighty-five percent of cotton plants have begun squaring, are expected to begin setting bolls within the next couple of weeks. Producers of potatoes, tomatoes, snap beans, sweet corn, cucumbers, squash, peppers, other vegetables are busy harvesting their crops. Dry, hot conditions continue to affect yield, fruit size in orchards.

WASHINGTON: Days suitable for fieldwork 6.6. Topsoil 19% very short, 46% short, 35% adequate. Subsoil 18% very short, 60% short, 22% adequate. Increased temperatures accelerated winter wheat maturity as the crop started to ripen. Hot weather, lack of precipitation has been detrimental to the quality of both spring wheat, barley although the weather conditions may move up projected harvest dates. Harvest is projected to begin next week in the far eastern part of the State. Winter wheat, dryland 7% very poor, 19% poor, 55% fair, 17% good, 2% excellent. Irrigated 100% good. Spring wheat, dryland 12% very poor, 38% poor, 47% fair, 3% good. Irrigated 100% good. Headed, 99%, 99% 1998, 94% avg. Barley, dryland 8% very poor, 41% poor, 48% fair, 3% good. Irrigated, 100% good. Headed 96%, 100% 1998, 95% avg. Hay, other roughage 3% very short, 16% short, 51% adequate, 30% surplus. Range, pasture feed 34% poor, 50% fair, 13% good, 3% excellent. Livestock producers were baling hay as 2nd cutting of alfalfa harvest was winding down. Warmer weather was also beneficial to the silage, sweet corn. Raspberry harvest was started and strawberry harvest continued with some reports of mold. Warm weather was also helpful for the fruit crops. Cherries, apricots, early varieties of peaches were all being harvested. Variety of vegetables were being harvested.

WEST VIRGINIA: Days suitable for fieldwork 5.9. Topsoil 49% very short, 45% short, 6% adequate. Despite some rain this past week, inadequate moisture supplies continue to affect crop, livestock, pasture conditions throughout the State. Some farmers are feeding hay, selling off livestock as a result of the drought. Wheat 3% very poor, 7% poor, 51% fair, 39% good; 65% harvested, 52% 1998, 41% avg. Hay 21% very poor, 43% poor, 27% fair, 8% good, 1% excellent; 96% 1st cut, 87% 1998, 88% avg.; 21% 2nd cut, 14% 1998, 12% avg. Corn 21% very poor, 48% poor, 27% fair, 4% good; 9% silked, 33% 1998, 13% avg. Oats 24% very poor, 26% poor, 35% fair, 15% good; 90% headed, 95% 1998; 3% harvested, 14% 1998. Soybeans 8% very poor, 27% poor, 60% fair, 5% good; 23% bloomed, 10% 1998, 15% avg. Tobacco 31% very poor, 28% poor, 22% fair, 19% good. Apples 7% poor, 45% fair, 48% good. Peaches 43% fair, 57% good. Cattle 1% very poor, 8% poor, 55% fair, 33% good, 3% excellent. Sheep 15% poor, 58% fair, 22% good, 5% excellent.

WISCONSIN: Days suitable for fieldwork 4.9. Soil moisture 13% short, 76% adequate, 11% surplus. Insect population has been steadily growing with the recent warm, wet weather we have been receiving. Where the insects have not been sprayed, crops are struggling, sprayed fields, the crops are reported as doing very well. Insects have had a fairly large effect on the second crop hay according to many reporters. Some reported spraying hayfields multiple times for potato leafhoppers. Quantity, quality of second crop have been reported as good to excellent in sprayed fields, both are reduced in fields left unsprayed. According to a reporter in Buffalo County, recent rains have turned second crop into haylage rather than bales. Second Crop Harvested: 48% 1999, 38% 1998, 15% avg. Small grain crop also hasn't been able to escape pest problems. Manitowoc County reporter noted that he saw winter wheat

fields that had as much as 25% scab. Most small grains are headed, turning color. Winter wheat 3% harvest, 2% 1998, 1% avg.; 1% poor, 10% fair, 52% good, 37% excellent. Yields have been reported as good with an expected crop similar to last year. Some lodging resulted from recent storms. Corn crop has been reported as good to excellent with a few exceptions. Dunn County reporter noticed one field had to be replanted due to a corn borer infestation. Other problems include excess moisture on low ground, a moisture shortage on high, light soils, uneven growth. Soybean good to excellent, some fields are beginning to blossom. Soybean 1% very poor, 4% poor, 13% fair, 55% good, 27% excellent. Potatoes began blossoming, good crop is expected. Blackberries, raspberries are beginning to be picked. Canning peas are being harvested with yields well above average. Pasture feed 1% poor, 25% fair, 55% good, 19% excellent.

WYOMING: Days suitable for fieldwork 6.9. Topsoil 5% very short, 42% short, 53% adequate. Warmer weather, below normal precipitation for most of the week. Winter wheat 12% fair, 65% good, 23% excellent; 94% turning color, 89% 1998, 84% avg.; mature 28%, 26% 1998, 36% avg.; harvested 2%, 0% 1998, 3% avg. Spring wheat 1% poor, 32% fair, 63% good, 4% excellent; 78% boot, 99% 1998, 93% avg.; headed 67%, 89% 1998, 74% avg.; 8% turning color, 37% 1998, 31% avg. Barley 2% fair, 76% good, 22% excellent; 73% headed, 79% 1998, 83% avg.; 28% turning color, 24% 1998, 29% avg. Oats 1% very poor, 3% fair, 90% good, 6% excellent; 48% headed, 76% 1998, 69% avg.; 7% turning color, 20% 1998, 18% avg. Sugar beet 9% fair, 66% good, 25% excellent. Corn 1% poor, 4% fair, 74% good, 21% excellent; 3% tasseled, 0% 1998, 4% avg.; 32 in. average height, 26 in. 1998, 31 in. avg. Dry bean 4% fair, 83% good, 13% excellent.; 14% bloom, 10% 1998, 17% avg. Alfalfa 77% 1st cutting, 68% 1998, 74% avg. Other hay 31% cut, 39% 1998, 37% avg. Range, pasture feed 6% fair, 72% good, 22% excellent.