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ALABAMA: Days suitable for fieldwork 4.5. Topsoil 4% short, 68% adequate, 28% surplus. Temperatures a few degrees below normal. Rainfall continued in many areas hampering pest control, other fieldwork. Corn 95% silked, 98% 1998, 94% avg.; 58% doughed; 37% dented, 59% 1998, 48% avg.; 11% mature, 29% 1998. Hay 99% harvested, 100% 1998, 99% avg. Corn 1% poor, 13% fair, 60% good, 26% excellent. Pasture feed 2% poor, 12% fair, 63% good, 23% excellent. Livestock 1% poor, 15% fair, 60% good, 24% excellent. Vegetable harvest continued Statewide, as well as late season tomato, pumpkin planting.

ALASKA: Days suitable for fieldwork 2.8. Topsoil 20% short, 80% adequate. Subsoil 30% short, 70% adequate. Scattered showers brought welcomed moisture to the small grain crops, made the hay harvest difficult. Daytime high temperatures were mostly in the sixties and seventies. Lows were mostly in the forties and fifties. Oats 15% boot and earlier, 80% headed, 5% in dough. Barley, 60% headed, 40% in dough. Oat crop prospects, 20% below average, 70% average, 10% above average. Barley crop prospects, 40% below average, 60% average. Small grain 19.3 in. height, 18.6 in. 1998. Hay harvested, 65%, 65% 1998. Hay crop prospects, 30% below average, 65% average, 5% above average. Potato plants 10% bloomed; 16 in. plant height, 11 in. 1998. Potato crop prospects, 20% below average, 75% average, 5% above average. Vegetable crop prospects, 5% below average, 80% average, 15% above average. Crop growth, 35% slow, 35% moderate, 30% rapid. Wind damage to small grain fields, 95% none, 5% light. Major activities included: Cutting hay, harvesting hay, harvesting lettuce, greens, radishes, squash, broccoli, Chinese vegetables, weed control, irrigating crops, machinery repair.

ARIZONA: Widespread heavy rains throughout the State caused improved pasture conditions. Cotton squaring is still ahead of 1998, slightly behind the average. Alfalfa harvest activity 56% not being harvested, 6% light, 11% moderate, 27% active. Alfalfa 5% poor, 17% fair, 59% good, 19% excellent. Central producers shipped a variety of fruits, vegetables, melons last week. Grape shipments included currants, flame seedless, thompsons. Vegetable shipments consisted of parsley and sweet corn. Melon shipments included canary, cantaloupe, casaba, crenshaw, golden honeydew, honeydew, orange flesh, Santa Claus, and watermelons. Eastern producers shipped greenhouse tomatoes and dry onions. Western producers harvested a variety of grapes, melons. Melon shipments included canary, cantaloupes, honeydew, watermelons while grape shipments included beauty seedless, flame seedless, perlettes, thompsons. Central, western areas citrus producers shipped grapefruit last week.

ARKANSAS: Days suitable for fieldwork 6. Topsoil 5% very short, 31% short, 61% adequate, 3% surplus. Temperatures below normal. Frontal passage brought heat relief early in the week, but didn't produce a widespread rainfall event. Rainfall much below normal. Most crops good condition. Livestock good condition. Main farm: Fertilizing cotton, corn, rice, warm season forages, harvesting wheat and hay. Other activities: Irrigating corn, soybeans, cotton, sorghum, rice, cultivating cotton, spraying cotton for boll weevils, bollworms, 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, fruit harvesting, treating cattle for external parasites for summer insect control by dusting, ear tagging cattle, vaccinating cattle, weaning calves. Cotton 100% squared, 77% setting bolls; 3% poor

24% fair 57% good 16% excellent. Soybeans 35% bloomed, 9% setting pods; 6% poor 32% fair 49% good 13% excellent. Sorghum 100% emerged, 61% headed, 2% turning color; 4% poor 28% fair 58% good 10% excellent. Wheat 99% harvested. Oats 98% harvested. Alfalfa 20% fair 74% good 6% excellent. Other hay 4% poor 26% fair 57% good, 13% excellent. Range, pastures feed 5% poor 24% fair 57% good 14% excellent.

CALIFORNIA: Field activities progressed normally under favorable conditions in most areas. Grain harvests of wheat, barley, oats were nearing completion, except at higher elevations. Rice growth was improving in most fields, as weed problems were brought under control with herbicide treatments. Cotton bloom was ongoing in most fields in the San Joaquin and Sacramento valleys, early planted fields were setting bolls. Cotton fields were irrigated, thinned, weeded, sprayed for armyworms, leafhoppers, lygus; some fields received their final cultivation. Seed alfalfa was treated for aphids, lygus and weevils, most fields were in full bloom. Black eye beans, safflower were sprayed for lygus. Sunflowers were maturing rapidly in the Sacramento Valley, growers knocked down male plants as pollination progressed. Old crop sugar beet harvest continued in the central San Joaquin Valley. New crop sugar beets in the San Joaquin Valley were mowed off to halt bolting. Corn silage harvest continued in southern counties. A few second crop corn fields were planted following small grain harvest. Alfalfa and sudan grass were cut, baled for hay. Some alfalfa fields were treated for worms. Grape growers were applying sulfur and insecticides to control powdery mildew, insects. Harvest of grapes for fresh use continued in the San Joaquin Valley. Early pickings from Kern County included Perlette, Flame Seedless varieties. Picking of fresh use grapes in the Coachella Valley was winding down; Flame Seedless, Thompson Seedless were still being picked. Other cultural activities last week included irrigation, weed control in vineyards, orchards. Harvest of apricots, nectarines, plums, freestone peaches continued. Good quality was noted. Apple trees were treated for codling moths. Olive trees exhibited a good fruit set that was maturing well. Tree limbs in almond orchards remained supported 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. Processing tomatoes were setting fruit throughout the San Joaquin, Sacramento valleys. Harvest is expected to begin the last week of July in the central San Joaquin Valley. Some tomato fields were treated for mildew, tomato fruit worm, stink bugs, cabbage loopers, thrips. Sweet corn harvest continued to accelerate; growers were treating for earworms. Cantaloupe fields were treated for mites, aphids, leafhoppers. Cantaloupe harvest in the San Joaquin Valley continued; honeydew melon harvest was just getting underway. Fall melon fields were being planted. Other crops harvested included: Beans, broccoli, carrots, celery, cilantro, cucumbers, garlic, leeks, squash, turnips, onions, peppers, potatoes, watermelon, various greens, herbs. California's range conditions continued to seasonally decline. Rangeland forage at upper elevations was in good to fair condition, but drying rapidly. Lower elevation vegetation was very dry, with high danger of range fires. Irrigated pastures were in generally good condition. Some foothill pastures received further damage from heavy grasshopper infestations. Livestock were in good to fair condition, with some heat stress reported. Milk production was down slightly, due to the higher temperatures. Bees were pollinating seed alfalfa, melons in the San Joaquin Valley.

COLORADO: Days suitable for fieldwork 5.9. Topsoil 3% very short, 38% short, 56% adequate, 3% surplus. Subsoil 3% very short, 28%

short, 66% adequate, 3% surplus. Scattered, afternoon thunderstorms produced some heavy downpours that caused localized flooding in a few areas. Weather generally favored growth, development of all crops, allowed producers to make excellent progress in harvesting winter wheat. Winter wheat 95% ripe, 96% 1998, 86% avg. Spring wheat 84% headed, 93% 1998, 91% avg.; 33% turning color, 46% 1998, 32% avg.; 5% harvested, 0% 1998, 0% avg.; 4% poor, 16% fair, 51% good, 29% excellent. Spring barley 54% turning color, 56% 1998, 50% avg.; 5% harvested, 10% 1998, 8% avg.; 4% poor, 14% fair, 53% good, 29% excellent. Sorghum 2% headed, 2% 1998, 2% avg. Oats 97% headed, 98% 1998, 90% avg.; 47% turning color, 54% 1998, 50% avg.; 3% poor, 17% fair, 70% good, 10% excellent. Dry onions 1% very poor, 3% poor, 8% fair, 65% good, 23% excellent. Sugar beets 4% poor, 10% fair, 49% good, 37% excellent. Dry beans 21% flowered, 24% 1998, 20% avg.; 2% poor, 11% fair, 54% good, 33% excellent. Corn 3% silked, 22% 1998, 13% avg. Summer potatoes 3% fair, 63% good, 34% excellent. Fall potatoes 7% poor, 12% fair, 41% good, 40% excellent. Alfalfa 38% 2nd cutting, 34% 1998, 35% avg.; 1% very poor, 2% poor, 19% fair, 61% good, 17% excellent. Range, pasture feed in mostly good condition.

DELAWARE: Days suitable for fieldwork 6.3. Topsoil 3% very short, 72% short, 25% adequate. Subsoil 4% very short, 49% short, 47% adequate. Winter wheat 91% harvested, 98% 1998, 94% avg. Field corn 8% poor, 35% fair, 42% good, 15% excellent; 50% silked, 52% 1998, 39% avg.; 9% dough, 9% 1998, 4% avg. Soybeans 11% poor, 32% fair, 51% good, 6% excellent; 12% bloomed, 9% 1998, 14% avg; 5% setting pods, 0% 1998, 1% avg. Sorghum 1% poor, 30% fair, 65% good, 4% excellent; 7% headed, 5% 1998, 5% avg. Sweet corn 16% harvested, 20% 1998, 19% avg. Snap beans 20% harvested, 14% 1998, 25% avg. Cantaloupes 8% harvested, 8% 1998, 8% avg. Watermelons 8% harvested, 9% 1998, 5% avg. Cucumbers 20% harvested, 25% 1998, 29% avg. Lima beans 15% harvested, 14% 1998, 4% avg. Tomatoes 13% harvested, 8% 1998, 8% avg. Potatoes 30% harvested, 19% 1998, 18% avg. Clover and other hay 72% 2nd cutting, 92% 1998, 70% avg; 47% 3rd cutting, 54% 1998, 14% avg. Alfalfa hay 85% 2nd cutting harvested, 95% 1998, 87% avg.; 35% 3rd cutting harvested, 26% 1998, 12% avg. Hay supplies 22% short and 78% adequate. Pasture feed 3% very poor, 32% poor, 32% fair, 33% good. Apples 16% fair, 74% good, 10% excellent. Peaches 22% fair, 71% good, 7% excellent; 12% harvested, 19% 1998, 15% avg. Activities: Continued harvesting of veggies, fruits.

FLORIDA: Topsoil throughout State adequate to surplus with scattered areas short moisture in central Peninsula. Clash of sea breezes continued to cause scattered afternoon showers. Rainfall ranged from traces at West Palm Beach, Ft. Pierce to about 3.25 in., at Tallahassee. Temperatures within 1 to 2° of normal. Daytime highs 80s, 90s; nighttime lows 60s, 70s. Cotton blooming and in mostly good condition. Weeds, grass problems in some cotton, peanut fields. Daily rains, some areas delaying haying, land preparation. Sugarcane growth normal. Tobacco harvest active, haying active when weather permits. Peanut 4% fair, 51% good, 45% excellent; 91% pegged. Tomato planting getting underway, Quincy. Watermelon harvesting nearly finished, north. Producers picking okra, Dade County. Summer crop mustard greens, collards in good condition, Webster. Bell pepper planting starting, East Coast region. Land preparation for fall crop vegetable planting active, central, southern Peninsula. Scattered showers most citrus areas, some irrigation, abundant new growth, new crop fruit sizing well. Very little Valencia harvest, virtually no grapefruit movement. Caretakers cutting cover crops, spraying, fertilizing, herbiciding, pushing, burning dead trees. Pasture feed 20% fair, 60% good, 20 excellent. Statewide, cattle mostly good condition. Panhandle; cattle, calves excellent condition, however, rain almost every day made haying impossible. North; Bahia seed being harvested. Some dry locations north, west central counties, while most places received ample rain. Pastures steadily improving due to recent scattered rains. Hay harvesting increasing, weather permitting. Cattle, calves good condition. South, southwest pasture excellent condition. Cattle 15% fair, 60% good, 25% excellent.

GEORGIA: Days suitable for fieldwork 4.5. Soil moisture 1% very short, 7% short, 76% adequate, 16% surplus. Topsoil moisture conditions improved from last week with some counties reporting surplus levels. Corn 67% dent, 72% 1998, 66% avg.; 20% mature, 23% 1998, 21% avg. Hay 1% very poor, 4% poor, 25% fair, 56% good, 14% excellent. Peanuts 97% blooming, 95% 1998, 98% avg. Sorghum 2% very poor,

6% poor, 29% fair, 55% good, 8% excellent. Soybeans 99% emerged, 91% 1998, N/A avg. Tobacco 5% very poor, 15% poor, 40% fair, 37% good, 3% excellent; 30% harvested, 26% 1998, 37% avg. Watermelons 85% harvested, 89% 1998, 84% avg. Apples 33% fair, 40% good, 27% excellent; 0% harvested, 1% 1998, 1% avg. Peaches 68% harvested, 84% 1998, 87% avg. Pecans 1% very poor, 5% poor, 30% fair, 55% good, 9% excellent. Scattered showers provided relief during the week over most of State. Crop conditions improved for all crops except apples during the week. Corn progress is at or ahead of 1998 average for corn maturing, doughing stages. Soybean maturity is well ahead of 1998, average. Soybean planting was virtually complete. With the increased rains, weeds have become a problem in most row crops. Cotton condition was mostly good. Development of the crop was slightly behind normal. Tobacco harvest was ahead of last year, but behind the five year average. Condition of the tobacco crop was fair to good. Peanut condition improved slightly from last week. Fungicide and insecticide spraying was active in most peanut fields. Peanut development was near normal. Watermelon harvest continues ahead of the five year average, but is beginning to slow down. Peach harvesting was active during the week, remains behind 1998, average. Other activities include crop cultivation, spraying fungicides, insecticides, harvesting summer vegetables, routine care of livestock, poultry.

HAWAII: Crop made fair progress. Northern islands received beneficial mixture of sunshine, showers. Rainfall was lighter in the southern islands where many areas remained very dry. Mandatory water conservation was increased from 10 to 25% for users in the Upcountry area of Maui island. Agricultural water users were given a 60-day exemption from the 25% cutback to allow for adjustments to their operations. Upcountry Maui is one of the State's major vegetable, flower growing regions. Banana orchards were in fair to good condition. Warm, sunny conditions were conducive to growth. Regular spraying was minimizing disease. Papaya orchards ranged poor to good condition. Harvesting varied from light to heavy. Vegetable crops were in mostly good condition. Regular irrigation, spraying are offsetting some of the adverse effects of the warmer weather.

IDAHO: Days suitable for fieldwork 6.8. Topsoil 5% very short, 31% short, 63% adequate, 1% surplus. Windy conditions across much of the State creating lodging conditions in barley fields. Northern, eastern areas having problems with aphids. Apricot harvest just underway in Treasure Valley. Irrigation supply 1% poor, 2% fair, 33% good, 64% excellent. Alfalfa hay 98% 1st cutting, 96% 1998, 97% avg.; 33% 2nd cutting, 27% 1998, 23% avg. Oats 82% headed. Mint 4% harvested, 5% 1998, 6% avg. Cherries 84% harvested, 92% 1998, 94% avg. Peaches 1% harvested, 1% 1998, 6% avg. Potatoes 92% 12 in. high, 86% 1998, 88% avg.; 60% closing middles, 51% 1998, 62% avg. Barley 82% headed, 77% 1998, 83% avg.; 100% jointed; 95% booted, 20% turning color. Spring wheat 80% headed, 78% 1998, 87% avg.; 95% booted, 16% turning color. Winter wheat 100% headed, 98% 1998, 99% avg.; 45% turning color. Activities: Irrigating, spraying weeds, cultivating, harvesting, monitoring for disease.

ILLINOIS: Days suitable for fieldwork 6.7. Topsoil 10% very short, 43% short, 45% adequate, 2% surplus. More dry weather last week helped farmers finish wheat harvest, progress quickly with oat harvest, signs of heat stress on the corn, soybean crops is becoming more evident. Oat harvest was in full swing. Other activities for last week included hauling grain, baling hay, mowing weeds, scouting fields, FSA certification. Oats 99% filled, 96% 1998, 94% avg.; 97% turning yellow, 85% 1998, 78% avg.; 65% ripe, 46% 1998, 39% avg.; 42% harvested, 6% 1998, 12% avg. Alfalfa 84% 2nd cut, 73% 1998, 64% avg.; 10% 3rd cut, 5% 1998, 4% avg.; 1% very poor, 4% poor, 23% fair, 61% good, 11% excellent. Red clover 93% cut, 94% 1998, 96% avg.

INDIANA: Days suitable for fieldwork 6.8. Topsoil 25% very short, 46% short, 28% adequate, 1% surplus. Subsoil 14% very short, 47% short, 37% adequate, 2% surplus. Warm, dry week. Major crops under stress. Corn, soybean condition declined. Dry conditions exist central, northern areas. Scattered showers during weekend helped, some areas. Wheat harvest virtually complete. Good yields Statewide. Pastures deteriorating rapidly, 38% good to excellent. Alfalfa hay 95% 2nd cutting, 70% 1998, 52% avg. Activities: Harvesting wheat, irrigating crops, applying post-emergence chemicals, selling grain, mowing roads and pastures, baling

hay and straw, spraying weeds, harvesting vegetables, repairing equipment, monitoring fields for insects, attending fairs, caring for livestock.

IOWA: Days suitable for fieldwork 6.6. Topsoil 5% very short; 28% short, 62% adequate, 5% surplus. Subsoil 2% very short, 13% short, 76% adequate, 9% surplus. Warm weather helped crop development; producers indicate rain is needed. Some crops on lighter soils showing signs of stress. Leaf hoppers reported in northeast, west central, central districts. Corn 41% tasseled, 68% 1998, 38% avg.; 20% silked, 44% 1998, 23% avg. Corn 2% very poor, 6% poor, 19% fair, 45% good, 28% excellent. Soybeans 65% blooming, 73% 1998, 56% avg.; 12% setting pods, 21% 1998, 12% avg.; 2% very poor, 6% poor, 20% fair, 47% good, 25% excellent. Oats 98% turning, 92% 1998, 87% avg.; 27% harvested, 14% 1998, 15% avg.; 6% poor, 20% fair, 51% good, 23% excellent. Winter wheat 83% harvested, 68% 1998, 60% avg. Livestock generally in good condition; flies becoming a problem in some areas, pinkeye reported in southeastern Iowa. Range, pasture feed 1% very poor, 7% poor, 27% fair, 51% good, 14% excellent. Alfalfa 61% 2nd cutting, 44% 1998, 42% avg. Clover hay 97% 1st cutting, 92% 1998, 94% avg.; 24% 2nd cutting, 22% 1998, 17% avg.; 4% poor, 22% fair, 56% good, 18% excellent.

KANSAS: Days suitable for fieldwork 6.0. Topsoil 1% very short, 15% short, 78% adequate, 6% surplus. Subsoil 8% short, 85% adequate, 7% surplus. Most of the wheat has been cut, bringing harvest to a close. Mainly wet areas and hail damaged wheat is all that remains to be cut. Corn 4% doughing, 12% 1998, 13% avg. Soybeans 100% planted, 100% 1998, 100% avg.; 97% emerged, 100% 1998. Sorghum 99% emerged, 100% 1998. Sunflower 2% very poor, 3% poor, 22% fair, 61% good, 12% excellent; 100% planted, 98% 1998; 97% emerged, 97% 1998; 10% blooming, 20% 1998. Alfalfa 95% 2nd cutting, 93% 1998, 91% avg.; 12% 3rd cutting, 28% 1998, 19% avg. Major field activities: Harvesting wheat, cultivating, irrigating corn and milo, working stubble, controlling weeds, putting up hay, finishing row crop planting. Hay, forage 2% short, 89% adequate, 9% surplus. Livestock producers are starting to move cattle from short season pastures to feedlots. Pinkeye, flies remain a problem in some areas. Stock water 3% short, 88% adequate, 9% surplus.

KENTUCKY: Days suitable for fieldwork 5.8. Topsoil 26% very short, 39% short, 34% adequate, 1% surplus. Subsoil 27% very short, 32% short, 40% adequate, 1% surplus. Temperatures near normal, high temperatures in the 90's. Rainfall continued below normal, increasing drought concerns in Bluegrass, Eastern portions of State. Black shank remains leading problematic disease in burley tobacco, with reports of blue mold in several areas. Burley tobacco blooming or beyond 31%, topped 13%. Dark tobacco blooming or beyond 42%. Tobacco 4% very poor, 11% poor, 29% fair, 42% good, 14% excellent. Pasture feed 6% very poor, 19% poor, 33% fair, 35% good, 7% excellent. Hay crop 4% very poor, 15% poor, 34% fair, 36% good, 11% excellent.

LOUISIANA: Days suitable for fieldwork 5. Soil moisture 11% short, 73% adequate, 16% surplus. Corn 3% poor, 16% fair, 70% good, 11% excellent; 98% dough stage, 99% 1998, 93% avg.; 54% mature, 51% 1998, 35% avg.; 1% harvested, 3% 1998, 2% avg. Corn harvest underway, will be in full swing in about two weeks. Hay 99% 1st cutting, 97% 1998, 97% avg.; 18% final cutting, 23% 1998, 25% avg. Hay harvest has slowed to a halt due to evening showers. Peaches 98% harvested, 89% 1998, 79% avg. Rice 13% ripe, 20% 1998, 10% avg.; 4% harvested, 5% 1998, 3% avg. Sugarcane 11% fair, 50% good, 39% excellent. Sugarcane continued to look good from recent showers. Livestock 2% poor, 20% fair, 64% good, 14% excellent. Vegetables 1% very poor, 10% poor, 31% fair, 50% good, 8% excellent. Melons, eggplants, tomatoes were being harvested.

MARYLAND: Days suitable for fieldwork 6.7. Subsoil 37% very short, 57% short, 6% adequate. Topsoil 37% very short, 47% short, 16% adequate. Winter wheat 97% harvested, 96% 1998, 91% avg. Rye 91% harvested, 88% 1998, 80% avg. Corn 6% very poor, 20% poor, 43% fair, 29% good, 2% excellent; 54% silked, 54% 1998, 39% avg.; 10% dough, 12% 1998, 4% avg. Soybeans 4% very poor, 16% poor, 42% fair, 36% good, 2% excellent; 18% bloomed, 23% 1998, 13% avg; 8% setting pods, 15% 1998, 4% avg. Sorghum 17% poor, 69% fair, 14% good; 10% headed, 9% 1998, 4% avg. Tobacco 6% very poor, 14% poor, 52% fair,

28% good; 23% bloomed, 23% 1998, 17% avg. Snap beans 37% harvested, 33% 1998, 37% avg. Cucumbers 41% harvested, 35% 1998, 38% avg. Potatoes 45% harvested, 100% 1998, 42% avg. Sweet Corn 26% harvested, 24% 1998, 24% avg. Tomatoes 25% harvested, 11% 1998, 11% avg. Cantaloupes 24% harvested, 19% 1998, 22% avg. Lima beans 7% harvested, 13% 1998, 3% avg. Watermelons 11% harvested, 11% 1998, 10% avg. Peaches 32% fair, 54% good, 14% excellent; 20% harvested, 35% 1998, 15% avg. Apples 20% fair, 63% good, 17% excellent. Clover, other hays 75% 2nd cutting harvested, 67% 1998, 53% avg.; 31% 3rd cutting, 41% 1998, 39% avg. Alfalfa 20% 3rd cutting harvested, 21% 1998, 15% avg. Pasture feed 17% very poor, 40% poor, 35% fair, 8% good. Hay 6% very short, 45% short, 49% adequate. Activities: Small grain harvest almost complete, veggie harvest in full gear, dry weather persists.

MICHIGAN: Days suitable for fieldwork 6.0. Topsoil 7% very short, 34% short, 56% adequate, 3% surplus. Subsoil 9% very short, 32% short, 57% adequate, 2% surplus. All hay 3% poor, 16% fair, 56% good, 25% excellent. Winter wheat 1% very poor, 7% poor, 14% fair, 54% good, 24% excellent. All hay 41% 2nd cutting, 54% 1998, 34% avg. Corn height single 60%. Drybeans blooming 17%, 17% 1998, 10% avg. Oats 77% turning yellow, 79% 1998, 45% avg.

MINNESOTA: Days suitable for fieldwork 5.2. Topsoil 0% very short, 12% short, 71% adequate, 17% surplus. Corn 63 in. height, 73 in. 1998, 60 in. avg. Soybeans 17 in height, 22 in. 1998, 19 in. avg. Spring Wheat 28% turning ripe, 48% 1998, 29% avg. Oats 55% turning ripe, 75% 1998, 51% avg. Barley 32% turning ripe, 46% 1998, 28% avg. Rye 1% harvested, 8% 1998, 10% avg. Pasture feed 3% very poor, 4% poor, 24% fair, 60% good, 9% excellent. Sugar beet 1% very poor, 4% poor, 21% fair, 55% good, 19% excellent. Sunflowers 10% very poor, 19% poor, 43% fair, 22% good, 6% excellent. Dry beans 7% very poor, 12% poor, 33% fair, 41% good, 7% excellent. Warm, humid weather promoted steady development of crops. Little precipitation occurred in most of the southern half of the State, prompting some concern about dryness. Root systems are still shallow because of earlier wetness, so late season crops need frequent doses of rain.

MISSISSIPPI: Days suitable for fieldwork 4.7. Soil moisture 2% very short, 11% short, 75% adequate, 12% surplus. Corn 88% dough, 89% 1998, 77% avg.; 57% dent, 66% 1998, 38% avg.; 8% mature, 1% avg.; 6% silage harvested, 4% avg.; 2% poor, 19% fair, 55% good, 24% excellent. Cotton 100% squaring, 100% 1998, 98% avg.; 77% setting bolls, 93% 1998, 73% avg.; 3% poor, 14% fair, 56% good, 27% excellent. Rice 22% heading, 37% 1998, 30% avg.; 1% very poor, 2% poor, 13% fair, 53% good, 31% excellent. Sorghum 74% heading, 83% 1998, 72% avg.; 11% turning color, 16% 1998, 16% avg.; 2% poor, 13% fair, 59% good, 26% excellent. Soybeans 90% blooming, 84% 1998, 59% avg.; 61% setting pods, 55% 1998, 28% avg.; 1% very poor, 3% poor, 18% fair, 49% good, 29% excellent. Sweet potatoes 1% poor, 21% fair, 75% good, 3% excellent. Hay 67% harvested, 64% 1998, 66% avg. Watermelons 60% harvested, 46% 1998, 48% avg.; 9% fair, 66% good, 25% excellent. Cattle 2% poor, 19% fair, 64% good, 15% excellent. Pasture feed 7% poor, 20% fair, 57% good, 16% excellent. Rice crop development continues to progress behind the five-year average. Corn, soybean crop development is still progressing ahead of normal. Plant growth regulators have been applied to some cotton fields. Scattered rains hampered farming activities in some areas of the State.

MISSOURI: Days suitable for fieldwork 6.6. Topsoil 7% very short, 39% short, 51% adequate, 3% surplus. Precipitation 0.21 in. Row crop conditions are holding steady, primarily fair, good in most areas of State. Bootheel is in need of rain to maintain yield potential. Corn reporters are concerned that recent high temperatures could be detrimental to pollination of late planted corn, but most of the crop has been pollinating during favorable weather. Double-crop soybean 96% planting. Soybeans development most advanced Bootheel at 37% blooming, 14% setting pods, east central 37% blooming, 12% setting pods. Bootheel leads State sorghum 38% headed, 1% coloring, rest of State not yet begun. Winter wheat 99% harvested. Haying activities are slightly ahead of normal; 78% 2nd crop cut, 80% 1998, 74% avg. Other hay 86%, 84% 1998, 84% avg. Pasture feed 2% very poor, 11% poor, 37% fair, 45% good, 5% excellent.

MONTANA: Days suitable for fieldwork 6.2. Topsoil 13% very short, 51% short, 34% adequate, 2% surplus. Subsoil 14% very short, 38% short, 45% adequate, 3% surplus. Majority of the State did not receive precipitation, excluding some locations in the northeastern part of the State. Sugar beets 3% poor, 11% fair, 45% good, 41% excellent. Winter wheat 94% turning, 84% 1998, 70% avg.; 4% ripe, 15% 1998, 6% avg.; 1% very poor, 13% poor, 30% fair, 46% good, 10% excellent. Spring wheat 8% turning, 31% 1998, 15% avg. Barley 23% turning, 25% 1998, 18% avg. Oats 84% headed, 89% 1998, 83% avg.; 6% turning, 27% 1998, 15% avg.; 1% very poor, 4% poor, 24% fair, 59% good, 12% excellent. Corn 2% poor, 5% fair, 59% good, 34% excellent. Potatoes 1% poor, 19% fair, 51% good, 29% excellent. Dry beans 3% poor, 5% fair, 78% good, 14% excellent. Alfalfa 85% 1st cutting 85%, 75% 1998, 81% avg.; 2% 2nd cutting 2%, 2% 1998, 2% avg. Other hay 60% harvested, 46% 1998, 61% avg.

NEBRASKA: Days suitable for fieldwork 6.5. Statewide, temperatures averaged near normals. Topsoil 1% very short, 28% short, 70% adequate, 1% surplus. Subsoil 1% very short, 12% short, 85% adequate, 2% surplus. Precipitation traces north central to over 2.75 in. northwest. Corn 1% very poor, 4% poor, 15% fair, 56% good, 24% excellent. Irrigated corn 79%, dryland corn 82% in good or excellent; silking 22%, 61% 1998, 35% avg. Soybeans 44% blooming, 61% 1998, 43% avg.; 4% setting pods, 5% 1998, 5% avg.; 1% very poor, 3% poor, 20% fair, 59% good, 17% excellent. Sorghum 5% headed, just above 1998 and average; 1% poor, 19% fair, 70% good, and 10% excellent. Dry beans 2% poor, 20% fair, 72% good, 6% excellent; 24% blooming, 12% 1998, 24% avg. Wheat 93% ripe, 87% 1998, 81% avg.; 72% harvest, 68% 1998, 58% avg. Oats 34% harvest, 24% 1998, 30% avg.; 2% poor, 11% fair, 67% good, 20% excellent. Alfalfa 73% 2nd cutting, 60% 1998, 58% avg.; 1% very poor, 2% poor, 16% fair, 67% good, 14% excellent. Range, pasture feed 3% poor, 18% fair, 64% good, 15% excellent. Wild hay 2% poor, 12% fair, 71% good, 15% excellent. Pastures, as well as other dryland crops, were under some stress due to hot temperatures. Producer activities; irrigating, cultivating soybeans, sorghum, applying herbicide, insect scouting, harvesting wheat, alfalfa, oats, marketing of crops.

NEVADA: Weather in north started out with slightly above normal temperatures, but cooled later in the week. Elko was the only exception, with below normal temperatures every day except on the 13th. Southern areas had below normal temperatures for the week, a significant amount of precipitation. Las Vegas reported 0.85 in. of rainfall for the week. Elly had precipitation of 0.22 in. followed by Winnemucca with 0.01 in. Reno and Elko reported trace amounts of precipitation. Pasture, range conditions remained stable as some needed precipitation was received. First cutting of alfalfa was completed throughout the State. Second cutting continued as well as cutting of other hay. No rain damage to hay was reported for the week. Nearly all grain crops had headed, were beginning to turn color. A good majority of the grain crops remained in good condition. Potatoes had bloomed. Cantaloupe crop was doing well. Sweet corn was ripening, should be ready in a few weeks. Main farm and ranch activities: irrigating, harvesting 2nd cutting, baling alfalfa, cutting grain for hay, managing bees, checking livestock, topping garlic.

NEW ENGLAND: Days suitable for fieldwork 6.8. Topsoil 21% very short, 52% short, 27% adequate. Subsoil 18% very short, 51% short, 31% adequate. Pasture feed 6% very poor, 21% poor, 43% fair, 24% good, 6% excellent. Maine potatoes 100% emerged, condition excellent to good. Massachusetts potatoes 100% emerged, condition good. Rhode Island potatoes 5% harvested, condition fair. Oats in Maine 100% emerged, condition excellent to good. Field corn 100% emerged, condition good to excellent. Sweet corn 100% emerged; 15% harvested, 5% 1998, 5% avg.; condition good to fair. Shade Tobacco 10% harvested, 10% 1998, 10% avg.; condition good. Broadleaf Tobacco <5% harvested, <5% 1998, <5% avg.; condition good. First cut hay 95% harvested, 80% 1998, 85% avg.; condition good to fair. Second cut hay 30% harvested, 25% 1998, 25% avg.; condition good to fair. Apples set average, size average, condition good to fair. Peaches 5% harvested; set average, size average to below average, condition good to fair. Pears set below average to average, size below average, condition fair. Strawberries 99% harvested, 100% 1998, 95% avg.; set average, size average, condition good. Cranberries petal fall, condition good to excellent. Highbush blueberries 10% harvested, 10% 1998, 10% average, set average, size average, condition good to fair. Wild Blueberries <5% harvested; set average, size average,

condition fair. Major farm activities included: Irrigating where available; harvesting blueberries, raspberries, shade tobacco and vegetables including sweet corn; monitoring for pest and applying pesticides where required; preparing equipment for potato, oats and barley harvest; side dressing crops, mowing weeds.

NEW JERSEY: Days suitable for fieldwork 7. Temperatures above normal north, central; below normal south. Extremes 47°; 102°. Rainfall 0.17 in. north, 0.20 in. central, 0.64 in. south. Heaviest 24 hour total 0.99 in. at Pomona on the 12th to the 13th. Estimated soil moisture, in percent of field capacity, this past week averaged 56% north, 45% central, 43% south. Four inch soil temperatures 71° north, 73° central, 72° south. Harvest of wheat, rye and barley is nearly finished in the southern counties, still in progress in State. Wheat, rye has been rated as fair while barley is still in good condition. Corn is between good, fair condition in the south, fair in central areas, between fair and poor in northern areas. Some fields in that area are starting to tassel before they reached 30 in. height. Soybeans conditions are similar to corn. Condition of the second crop of alfalfa is between fair, poor. Pastures are drying out rapidly across the State due to the lack of rain and excessive hot temperatures. Loss of cattle to heat stress has been reported. Supplemental feeding is increasing. Most irrigated vegetable fields are still in good condition while non-irrigated vegetables are in fair and poor condition, yields are expected to be severely affected. Harvest continues for snap beans, tomatoes, squash, sweet corn, peppers, potatoes and other vegetables. Some fields are being prepared for seeding of fall vegetables. Peach still in good and excellent condition in southern areas where most of the commercial orchards are being irrigated. Peaches in northern areas is between good and fair. Harvest of peaches in southern areas continues. Apple conditions are between fair, good. Blueberry harvest is past its peak in southern areas the quality of the fruit is between good, excellent. Cranberries are in the flower set stage, doing well.

NEW MEXICO: Days suitable for fieldwork 6. Clouds, precipitation kept temperatures down a bit, with a Statewide average between 2°, 3° below normal. No locations reached 100° during the week. All but three locations measured rainfall. Greatest totals were out in the plains, where Clovis picked up 2.89", and Des Moines measured 2.85". Farmers were busy with typical mid-summer activities; harvesting, cultivating, irrigating, weed and insect control, fertilizing. Southern counties had begun their 4th cutting of alfalfa while northern counties were just finishing their 1st. Damage to hay crops were reported as rains continued Statewide. Most ranch activities centered around maintenance of fences, equipment. Stock tank water was adequate in most areas, only one report of supplemental feeding was received. Cooler temperatures have slowed grass growth, also helped keep insects down. Grasshoppers range caterpillars were still reported, no large scale spraying was being done at this time. Range, pasture feed 4% very poor, 8% poor, 33% fair, 42% good, 13% 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 6.5. Soil moisture 11% very short, 69% short, 20% adequate. Moisture needed. Pasture feed 14% very poor, 54% poor, 15% fair, 17% good. Alfalfa 62% 2nd cutting, 39% 1998, 30% avg. Hay crops 11% poor, 50% fair, 39% good. Corn 36% fair, 64% good. Crop tasseling. Wheat 58% harvested, 44% 1998, 21% avg. Sweet corn harvest 15% complete. Crop showed stress from dryness. Tomato harvest began. Vegetable crops irrigated where available. Apples continued in good condition. Tart cherry harvest 30% complete. Lake Erie grapes showing drought stress.

NORTH CAROLINA: Days suitable for fieldwork 3.4, 5.4 last week. Soil moisture levels recovered, 1% very short, 6% short, 71% adequate, 22% surplus. Cooler temperatures, widespread rainfall provided relief from the extreme heat. Mild weather, ground soaking precipitation was welcomed in all areas, crops have responded. Limited progress was made with the remaining soybean acres to be planted. Irish potato growers took advantage of breaks in the weather to make modest harvest gains. Other activities included weed control in all crops, sucker control, topping in tobacco, tending livestock. Overall, it was a quiet week in which farmers just enjoyed watching it rain. Recent rains came at an optimal time for corn as the silked, dough stages are at 80%, 50%, respectively. Likewise, the cotton crop will benefit as a significant portion of the crop has squared, now setting bolls.

NORTH DAKOTA: Days suitable for fieldwork 5. Warm, dry weather is needed to aid the development of row crops and allow producers to finish the hay harvest. Wheat midge activity started to spread throughout the State. Topsoil 0% very short, 7% short, 77% adequate, 16% surplus. Subsoil 0% very short, 4% short, 76% adequate, 20% surplus. Durum wheat 54% boot, 95% 1998, 83% avg.; 30% heading, 84% 1998, 63% avg.; 9% milk, 32% 1998, 19% avg. Canola 86% blooming, 98% 1998. Corn 19% tasseling, 44% 1998, 22% avg. Dry edible beans 38% blooming, 76% 1998, 48% avg. Flaxseed 54% blooming, 85% 1998, 50% avg. Potatoes 66% blooming, 86% 1998, 70% avg.; 52% rows filled, 71% 1998, 44% avg. Soybeans 23% blooming, 55% 1998, 44% avg. Sunflowers 2% blooming, 3% 1998, 2% avg. Emerged crop condition: durum 0% very poor, 6% poor, 26% fair, 60% good, 8% excellent; canola 0% very poor, 3% poor, 20% fair, 61% good, 16% excellent; corn 2% very poor, 5% poor, 21% fair, 62% good, 10% excellent; dry edible beans 0% very poor, 7% poor, 22% fair, 56% good, 15% excellent; flaxseed 0% very poor, 4% poor, 22% fair, 61% good, 13% excellent; potatoes 0% very poor, 5% poor, 12% fair, 52% good, 31% excellent; soybeans 0% very poor, 8% poor, 26% fair, 55% good, 11% excellent; sugarbeets 0% very poor, 5% poor, 17% fair, 51% good, 27% excellent; sunflower 0% very poor, 4% poor, 22% fair, 64% good, 10% excellent. Stockwater supplies rated 0% very short, 1% short, 86% adequate, 13% surplus. End of the week rain showers slowed haying progress. Hay condition rated 7% above normal.

OHIO: Days suitable for fieldwork 6.8. Topsoil 36% very short, 43% short, 21% adequate. Soybeans 77% blooming, 58% 1998, 43% avg.; 15% setting pods, 12% 1998, 6% avg. Winter wheat 99% harvested, 98% 1998, 70% avg. Oats 84% ripe, 59% 1998, 55% avg.; 28% harvested, 15% 1998, 10% avg. Alfalfa 88% 2nd cutting, 62% 1998, 51% avg. Alfalfa hay 8% 3rd cutting, 0% avg. Other hay 58% 2nd cutting, 42% 1998, 31% avg. Corn 46% silked, 24% 1998, 15% avg.; 2% in dough, 0% avg. Summer apples 45% harvested, peaches 15% harvested. Tobacco 3% topped, 0% 1998. Pasture feed 18% very poor, 27% poor, 35% fair, 18% good, 2% excellent. Corn 5% very poor, 10% poor, 32% fair, 43% good, 10% excellent. Soybeans 3% very poor, 8% poor, 32% fair, 47% good, 10% excellent. Activities: Harvesting wheat, oats, barley; baling straw, hay; hauling grain; planting double crop beans; mowing CRP ground; reporting acreage to FSA offices; spreading fertilizer, hauling manure; cultivating vegetables, tobacco; spraying fruits, vegetables; installing tile, sod waterways; attending county fairs; emptying hog manure facilities; setting up irrigation systems. 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. Reported diseases were black shank in tobacco, mildew on pumpkins, wilt on tomatoes. Fruit, vegetable conditions are mostly good in the north. In Portage county, the raspberry, blueberry crop is doing well. Reporters in the southern part of the State comment on drought stressed crops. Many producers have been irrigating vegetable crops. Pasture, grass conditions range from good to poor. Recovery of growth has been slow, grass is dormant in certain areas. There will be no 3rd cutting of alfalfa, other hay in much of the southern part of the State if it doesn't rain soon. Many livestock producers have been liquidating herds due to lack of pasture, water. Dairy production, feed intake has dropped in some areas with the onset of higher temperatures, humidity. Other reporters comment on good conditions.

OKLAHOMA: Days suitable for fieldwork 6.2. Subsoil 2% very short, 8% short, 88% adequate, 2% surplus. Topsoil 2% very short, 12% short, 83% adequate, 3% surplus. Hot, dry weather permits return to normal fieldwork. Short soil moisture supplies more numerous south. Wheat 61% plowed, 66% 1998, 77% avg. Oats 60% plowed, 66% 1998, 69% avg. Corn 5% fair, 91% good, 4% excellent; 28% tasseled, 73% 1998, 69% avg.; 10% milk-to-soft, 13% 1998, 22% avg. Sorghum 97% up-to-stand, 97% 1998, 95% avg. Soybeans 6% poor, 48% fair, 39% good, 7% excellent; 92% planted, 99% 1998, 97% avg.; 69% up-to-stand, 95% 1998, 93% avg.; 15% flowering, 42% 1998, 40% avg. Peanuts 19% setting pods, 28% 1998, 31% avg. Watermelons 85% fruit set, 100% 1998, 82% avg.; 10% harvested, 28% 1998, 13% avg. Alfalfa hay 1% poor, 18% fair, 69% good, 12% excellent; 92% 2nd cutting, 98% 1998,

96% avg.; 43% 3rd cutting, 42% 1998, 40% avg. Other hay 83% 1st cutting, 86% 1998, 89% avg.; 18% 2nd cutting, 2% 1998, 21% avg. Livestock 1% poor, 13% fair, 69% good, 17% excellent. Feeder steer prices up \$2.00 per cwt., feeder heifer prices unchanged from last week.

OREGON: Days suitable for fieldwork 6.9. Topsoil 19% very short, 49% short, 30% adequate, 2% surplus. Subsoil 18% very short, 43% short, 38% adequate, 1% surplus. Barley harvested 2%. Spring wheat harvested 1%. Winter wheat harvested 7%. Range & pasture 1% very poor, 7% poor, 29% fair, 59% good, 4% excellent. Activities: On east side, spring grain harvest underway, yield reports disappointing. Test weights light, kernels small many pinched. Spring barley recrop fields reported inadequate, may not justify harvest. Grass seed harvest starting in east, nearing completion in west. Alfalfa cutting continued, working wild meadow hay. Klamath Basin Sugarbeet rows 85% closed. Willamette Valley grass seed fields being cut, hay in second cutting. Mint growing well, harvest started. Greenhouses & nurseries are irrigating, doing weed control. Have limited digging & planting going on. Christmas tree shearing started. Some Easter lily growers sub-soiling to break up plow pan in planting preparation. Willamette Valley vegetables good, green beans being harvested. Irrigation required for sweet corn & green beans, onions late. Fresh market vegetables being harvested, more planted. Vegetables east of the Cascades looked good except those suffering from wind and hail damage. Potato fungicides being applied, early potatoes being dug. Willamette Valley strawberry harvest about finished, everbearing strawberries still available. Raspberries, Marion berries, blackberries, blueberries being harvested. Sweet cherry harvest winding down, hazelnuts continued to size. Rogue River Valley blackberries, raspberries, blueberries being picked. Pears sizing. South coast cranberry fertilization continued. Wasco County fresh cherry harvest winding down, light crop. Livestock condition mostly good. Some sheep sheared on south coast. Feed cattle shipped from Rouge River Valley. Rangeland continued to dry out, generally in better condition than normal for this time.

PENNSYLVANIA: Days suitable for fieldwork 6.4. Soil moisture 59% very short, 31% short, 10% adequate. Soybean, corn conditions continued to decline as a result of the recent hot, dry weather. Corn silked 38% complete, 33% 1998, 20% avg. Corn dough 6% complete, 0% 1998, 0% avg.; height 50 in., 49 in. 1998, 48 in. avg.; 16% very poor, 29% poor, 36% fair, 16% good, 3% excellent. Soybean 12% very poor, 16% poor, 38% fair, 31% good, 3% excellent. Barley 97% ripe, 100% 1998, 96% avg.; 95% harvested, 97% 1998, 86% avg. Wheat 89% ripe, 95% 1998, 86% avg.; 70% harvested, 82% 1998, 58% avg.; 1% poor, 12% fair, 76% good, 11% excellent. Oats 70% turning yellow, 71% 1998, 66% avg.; 35% ripe, 23% 1998, 24% avg.; 15% harvested, 4% 1998, 6% avg.; 3% very poor, 18% poor, 38% fair, 38% good, 3% excellent. Alfalfa 3rd cutting 16% complete, 4% 1998, 1% avg.; 2nd cutting 73% complete, 62% 1998, 55% avg. Timothy clover 1st cutting 96% complete, 89% 1998, 89% avg.; 2nd cutting 28% complete, 14% 1998, 14% avg. Quality of hay made 1% very poor, 8% poor, 21% fair, 48% good, 22% excellent. Peach harvest 6% complete, 13% 1998, 3% avg.; 1% very poor, 3% poor, 18% fair, 67% good, 11% excellent. Apple 6% poor, 12% fair, 71% good, 11% excellent. Activities: Harvesting barley, wheat, oats, fruits, vegetables; 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 5.4. Soil moisture 1% very short, 9% short, 80% adequate, 10% surplus. Cantalopes 88% harvested, 89% 1998, 85% avg.; 2% very poor, 16% poor, 64% fair, 18% good. Corn 57% doughed, 77% 1998, 77% avg.; 6% very poor, 14% poor, 34% fair, 40% good, 6% excellent. Cucumbers 100% harvested, 100% 1998, 89% avg. Hay 7% poor, 24% fair, 62% good, 7% excellent. Peaches 57% harvested, 59% 1998, 57% avg.; 3% poor, 24% fair, 34% good, 39% excellent. Snapbeans 79% harvested, 96% 1998, 77% avg. Sorghum 100% planted, 100% 1998, 95% avg.; 2% very poor, 8% poor, 10% fair, 66% good, 14% excellent. Sweet potatoes 3% poor, 18% fair, 78% good, 1% excellent. Tomatoes 100% harvested, 100% 1998, 100% avg. Watermelons 80% harvested, 89% 1998, 83% avg.

SOUTH DAKOTA: Topsoil 1% very short, 14% short, 73% adequate, 12% surplus. Subsoil 2% short, 86% adequate, 12% surplus. Weather across the State allowed crops to advance with development still ahead

of the five-year average. Warm, dry weather enabled producers to make great progress in haying, cultivating, spraying. Corn 54 in. height., 62 in. 1998, 49 in. avg.; 98% 1st cultivation, 97% 1998, 98% avg.; 79% 2nd cultivation, 90% 1998, 79% avg. Corn 17% tasseled 17%, 37% 1998, 18% avg. Corn 3% silked 3%, 14% 1998, 8% avg. Winter rye 28% excellent, 54% good, 12% fair, 6% poor. Flaxseed 21% excellent, 61% good, 17% fair, 1% poor. Alfalfa 31% excellent, 55% good, 12% fair, 2% poor. Sunflower 22% excellent, 57% good, 18% fair, 3% poor. Winter wheat 35% excellent, 52% good, 13% fair. Winter wheat 99% turning color, 99% 1998, 94% avg. Winter wheat 79% ripe, 80% 1998, 52% avg. Winter rye 93% turning color, 96% 1998, 90% avg.; 32% ripe, 62% 1998, 45% avg.; 1% combined, 35% 1998, 10% avg. Spring wheat 64% turning color, 74% 1998, 47% avg. Spring wheat 9% ripe, 22% 1998, 7% avg. Oats 55% turning color, 75% 1998, 49% avg.; 19% ripe, 39% 1998, 22% avg. Barley 43% turning color, 75% 1998, 53% avg.; 11% ripe, 21% 1998, 10% avg. Flaxseed 58% blooming, 79% 1998, 60% avg.; 0% ripe, 34% 1998, 7% avg. Sunflower 3% blooming, 29% 1998, 8% avg. Alfalfa 97% 1st cutting, 97% 1998, 97% avg.; 36% 2nd cutting, 45% 1998, 30% avg. Other hay 62% harvested, 59% 1998, 57% avg. Cattle 30% excellent, 62% good, 8% fair. Sheep 36% excellent, 60% good, 4% fair. Stock water 15% surplus, 83% adequate, 2% short.

TENNESSEE: Days suitable for fieldwork 5.0. Topsoil 1% very short, 14% short, 76% adequate, 9% surplus. Subsoil 1% very short, 12% short, 76% adequate, 11% surplus. Corn 94% tasseled, 87% 1998, 87% avg; 26% dough stage, 21% 1998, 24% avg; 1% poor, 14% fair, 53% good, 32% excellent. Tobacco 20% topped, 12% 1998, 16% avg; 2% very poor, 5% poor, 23% fair, 55% good, 15% excellent. Pasture feed 1% very poor, 7% poor, 27% fair, 56% good, 9% excellent. Alfalfa second cutting 76%, 83% 1998, 86% avg; 1% poor, 21% fair, 65% good, 13% excellent. Most crops throughout the State continued to benefit from the late June and early July rains, although some areas need additional rain to keep yield potential at their maximum. Tobacco growers, on the other hand, would like drier weather so water logged fields can dry out. Tobacco growers were busy spraying for pests as well as topping their early set fields. Isolated cases of blue mold have been reported. Alfalfa growers continued with their second cutting of the year, slightly behind the normal pace. Other field activities included: Applying herbicides, insecticides.

TEXAS: Scattered evening showers, thunderstorms kept field activity minimal most Central, South fields. Fieldwork in Plains however moved ahead without much delay. Temperatures more summerlike across State. Many dryland crops Plains, North Central need more rain. Irrigation activity remained steady these areas. Livestock conditions remained good across most areas. Ranges, pastures continued show good growth, greening. Grasshoppers remained a problem to both crops, pastures many areas.

Crops: Small Grains: Harvest moved ahead without much delay in High Plains, virtually completed by week's end. Yields remained very good. Corn: Irrigation operations remained steady in High Plains where crop continued to make good progress. Many fields in silking stage. Fields rapidly matured in Blacklands under warmer temperatures, however producers now need dryer, open conditions. Harvest began in few fields however scattered showers slowed progress. Harvest moved ahead in Coastal Bend, Rio Grande Valley most week. Dryer conditions needed along Upper Coast where many fields have matured, ready for harvest. 50% dented, 52% 1998, 45% avg. 29% mature, 39% 1998, 22% avg. 6% harvested, 14% 1998, 5% avg. Cotton: Progress in Plains improved with warmer, open conditions. Insects on rise many fields, spraying operations underway. Fields varied widely in stage from squaring to setting bolls. Growing conditions good over Blacklands, Central where bolls continued to set. Bolls continued to open along the Upper Coast, Coastal Bend, Rio Grande Valley. Peanuts: Progress very good in Plains, North Central during week, however some dryland fields have begun to need a rain. Irrigation remained steady. Some disease in fields South Central, however most fields look good. Rice: Scattered rain kept harvest activity minimum most fields along Upper Coast. Dryer, open conditions needed for futher progress. Later fields continued head out. Sorghum: Fields growing well in Plains, North Central during week. Some early planted fields began head out. Fields rapidly matured in Blacklands, Central where producers need several weeks open weather as harvest will increase over the next few weeks. A few fields harvested dryer areas last week. Harvest continued in Coastal Bend, Rio Grande Valley without much delay. Wet fields kept harvest progress minimal along Upper Coast. 44% turning color, 49% 1998, 54% avg. 32% mature, 41% 1998, 38%

avg. 32% harvested, 30% 1998, 23% avg. Soybeans: Stands good, irrigation steady in Plains during week. Fields had begun to bloom. Some early fields harvested in Northern Blacklands. Continued wet conditions along Upper Coast could lead to quality, disease problems. Many fields ready for harvest. Other Crops: Sunflowers 96% planted, 95% 1998, 96% avg.

Commercial Vegetables: Rio Grande Valley, minimal activity occurred for week. San Antonio-Winter Garden, cantaloup harvest continued, some cabbage planting occurred. East, grasshoppers caused damage many fields. High Plains, onion, potato harvest continued under mostly open conditions. Trans Pecos, onion, cantaloup harvest continued, winding down some fields. Harvest honeydew melons, watermelons got underway. Peaches: Harvest continued in Hill Country as weather permitted. Quality remained good. Pecans: Trees all areas still loaded with nuts as good rains, moderate temperatures lessened nut drop. Rainfall continued to alleviate irrigation needs many areas. Insect damage light most groves with some spraying occurring.

Range and Livestock: Conditions remained good most areas, continued rainfall increased growth, greening. Grasshoppers continued cause damage many areas. Haying activity continued Northern areas where less rain fell. Livestock conditions remained good. Flies still problem untreated herds. Spring calves, lambs in good condition.

UTAH: Days suitable for fieldwork 6. Topsoil 5% very short, 31% short, 62% adequate, 2% surplus. Subsoil 4% very short, 28% short, 68% adequate. Range, pasture feed 2% very poor, 7% poor, 31% fair, 59% good, 1% excellent. Corn height 44 in., 34 in. 1998, 40 in. avg. Winter wheat 18% harvested, 11% 1998, 15% avg. Spring wheat 96% headed, 88% 1998, 92% avg. Barley 97% headed, 79% 1998, 92% avg. Alfalfa hay: 37% 2nd cutting, 28% 1998, 33% avg. Other hay 64% 1st cutting, 51% 1998, 59% avg. Oats 80% headed, 70% 1998, 78% avg.; harvested 56% for hay or silage, 43% 1998, 49% avg. Sweet cherries 77% picked, 58% 1998, 61% avg. Tart cherries 4% picked, 37% 1998, 25% avg. Irrigation water supply 2% very short, 16% short, 81% adequate, 1% surplus. Stockwater supplies 1% very short, 14% short, 85% adequate. Major activities: Harvesting alfalfa hay, irrigating crops, spraying for weeds, insects. Rain in most of the State this past week improved the soil moisture but slowed the hay harvest.

VIRGINIA: Days suitable for fieldwork 5.0. Topsoil 30% very short, 22% short, 46% adequate, 2% surplus. Subsoil 44% very short, 25% short, 30% adequate, 1% surplus. Pastures feed 28% very poor, 26% poor, 25% fair, 20% good, 1% excellent. Livestock 4% very poor, 9% poor, 40% fair, 43% good, 4% excellent. Hay, other 50% very poor, 27% poor, 14% fair, 9% good. Hay, alfalfa 15% very poor, 31% poor, 39% fair, 13% good, 2% excellent. Corn for grain 48% silked, 57% 1998, 45% avg.; 10% dough, 13% 1998, 10% avg.; 19% very poor, 27% poor, 31% fair, 19% good, 4% excellent. Soybeans 90% planted, 97% 1998, 97% avg.; 75% emerged, 93% 1998; 4% blooming, 14% 1998, 7% avg.; 8% very poor, 12% poor, 42% fair, 32% good, 6% excellent. Winter wheat 95% harvested, 97% 1998, 93% avg. Barley 98% harvested, 99% 1998, 98% avg. Tobacco, flue cured 6% poor, 11% fair, 64% good, 19% excellent. Tobacco, burley 3% very poor, 6% poor, 16% fair, 42% good, 33% excellent. Tobacco, dark fire cured 35% fair, 51% good, 14% excellent. Tobacco, sun cured 25% poor, 25% fair, 50% good. Peanuts 73% pegged, 80% 1998; 8% fair, 65% good, 27% excellent. Cotton 89% squaring, 92% 1998; 2% setting bolls; 22% fair, 51% good, 27% excellent. Summer potatoes 47% harvested, 55% 1998, 49% avg.; 1% very poor, 1% poor, 15% fair, 63% good, 20% excellent. Apples 13% poor, 38% fair, 40% good, 9% excellent. Peaches 15% harvested, 18% 1998, 6% avg.; 15% very poor, 15% poor, 38% fair, 28% good, 4% excellent. Conditions for most of the State continued to be dry despite the variable rainfall across the Commonwealth this past week. As much as 4 inches of rainfall was received in some Southeastern localities greatly improving soil moisture conditions. Some isolated localities received as much as 2 inches of rainfall while other areas received as little as a trace. Pastureland has started to improve due to recent rainfall. However, livestock producers in most localities continue marketing cattle aggressively as pasture, water, hay supplies remain short. Despite the much needed rainfall, damage to early corn is irreversible as extreme hot, dry conditions limited growth to 3 to 4 feet in many fields. Early planted soybeans are also short on growth. Tobacco condition remain virtually unchanged from previous week. Black shank problems, spread of blue mold continue to concern some tobacco producers. Timely rains have greatly improved the condition of the peanut, cotton crops. 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. Producers are beginning to harvest peaches, are concerned with isolated brown rot problems.

WASHINGTON: Days suitable for fieldwork 6.6. Topsoil 16% very short, 38% short, 46% adequate. Subsoil 17% very short, 55% short, 28% adequate. Moderate temperatures benefitted grainfill in wheat, barley. Winter wheat harvest just underway, spring grain harvests projected a month away. Winter wheat 2% harvested, 7% 1998, 4% avg. Winter wheat, dryland 7% very poor, 21% poor, 49% fair, 20% good, 3% excellent; irrigated 100% good. Spring wheat, dryland 13% very poor, 35% poor, 42% fair, 10% good; irrigated 100% good; 99% headed, 100% 1998, 99% avg. Barley, dryland 8% very poor, 35% poor, 48% fair, 9% good; irrigated, 100% good, 98% headed, 100% 1998, 99% avg. Potatoes 5% harvested, 0% 1998, 4% avg.; 10% fair, 60% good, 30% excellent. Hay, other roughage 1% very short, 6% short, 75% adequate, 18% surplus. Range, pasture feed 5% very poor, 36% poor, 45% fair, 10% good, 4% excellent. Rangeland conditions remained dry with little regrowth, second cutting alfalfa hay production nearly completed, well ahead of the average. Cherry, strawberry harvests neared completion, apricot harvest continued. Raspberry harvest was peaking, blueberry harvest expected within a week. Vegetable harvests continued, sweet corn harvest in central areas was not yet underway.

WEST VIRGINIA: Days suitable for fieldwork 6.0. Topsoil 75% very short, 21% short, 4% adequate. Dry weather conditions continue to plague producers throughout the State. Hay, pastures are in danger of being depleted in most areas of the State. All crop, livestock conditions are suffering. Wheat 74% harvested, 59% 1998, 66% avg. Hay 33% very poor, 39% poor, 21% fair, 7% good; 24% 2nd cut, 21% 1998, 21% avg. Corn 27% very poor, 49% poor, 22% fair, 2% good; 17% silked, 37% 1998, 27% avg. Oats 32% very poor, 21% poor, 36% fair, 11% good; 95% headed, 98% 1998; 21% harvested, 16% 1998, 31% avg. Soybeans 6% very poor, 24% poor, 64% fair, 6% good; 26% bloomed, 16% 1998, 51% avg.; 1% setting pods, 8% 1998, 15% avg. Tobacco 32% very poor, 22% poor, 45% fair, 1% good. Apples 34% poor, 48% fair, 18% good. Peaches 66% poor, 17% fair, 17% good. Cattle 2% very poor, 16% poor, 42% fair, 36% good, 4% excellent. Sheep 12% poor, 30% fair, 47% good, 11% excellent.

WISCONSIN: Days suitable for fieldwork 5.6 Soil moisture 9% very short, 21% short, 59% adequate, 11% surplus. Busy in agriculture. Hay 66% harvest 2nd crop, 70% 1998, 35% avg. Most of State has enjoyed a 2nd crop that has had good quality, varying quantity. Northern half of the State, the harvest was moving much slower due to intermittent rains. In the southern half of the State, there was a great deal of hay made in the warm, dry weather that was ideal for baling hay. Small grain farmers also remained busy harvesting a bountiful crop. There were reports of winter wheat yielding 70-90 bushels per acre, and a Dane County reporter noted that one field yielded 100 bushels per acre. Winter wheat 35% harvest, 59% 1998 15% avg. Oat harvest also began, with only a few farmers getting in the fields before the weekend rains. Much of the early corn has tasseled, while the late-planted corn continues to grow and mature rapidly. Recent dry weather has caused some concern over pollination, and there were many reports of corn curling on the lighter soils. Weekend rains should have eliminated this problem. Warm weather has helped the soybean crop grow and mature. The crop has been reported to be well into the bloom period with good color, a nice canopy. Soybeans 28% bloomed, 38% 1998; 1% very poor, 3% poor, 11% fair, 55% good, 30% excellent. Sweet corn is being picked, sold. Grant County reporter noted that his tomatoes, cucumbers, peppers, eggplants, green beans were all in full bloom. Pasture feed 1% very poor, 8% poor, 30% fair, 46% good, 15% excellent.

WYOMING: Days suitable for fieldwork 6.9. Topsoil 1% very short, 58% short, 41% adequate. Subsoil 40% short, 60% adequate. Warm weather below normal precipitation. Winter wheat 86% mature, 69% 1998, 60% avg.; 23% harvested, 13% 1998, 13% avg. Spring wheat 77% headed, 89% 1998, 74% avg.; 34% turning color, 56% 1998, 44% avg.; 4% mature, 14% 1998, 9% avg. Barley 77% headed, 84% 1998, 89% avg., 42% turning color, 43% 1998, 53% avg.; 3% mature, 2% 1998, 8% avg. Oats 64% headed, 84% 1998, 80% avg.; 12% turning color, 31% 1998, 32% avg.; 2% mature, 5% 1998, 7% avg. Corn 15% tasseled, 2%

1998, 13% avg.; height 48 in., 33 in. 1998, 40 in. avg. Dry bean 29% bloom, 32% 1998, 38% avg. Alfalfa 86% 1st cutting, 80% 1998, 85% avg.; 4% 2nd cutting, 0% 1998, 5% avg. Other hay 39% cut, 51% 1998, 48% avg. Stockwater 100% adequate. Range, pasture feed 8% fair, 67% good, 25% excellent. All livestock 2% fair, 84% good, 14% excellent.
