

Weekly Weather and Crop Bulletin State Stories

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ALABAMA: Days suitable for fieldwork 2.6. Topsoil 1% short, 65% adequate, 34% surplus. Continued rainfall kept major crop condition ratings mostly good to excellent. Conditions made weed, insect control difficult. Vegetables suffered from increased disease pressure. Corn silked 77%, 86% 1998, 76% avg.; 33% doughed; 17% dented, 27% 1998, 20% avg.; 2% mature. Cotton 64% squaring, 81% 1998, 73% avg.; 9% setting bolls, 25% 1998, 12% avg. Soybeans 90% emerged, 88% 1998; 7% blooming, 12% 1998, 8% avg. Peanuts 42% pegged, 54% 1998, 43% avg. Wheat 92% harvested, 99% 1998, 91% avg. Hay 94% harvested, 100% 1998, 95% avg. Corn 2% poor, 13% fair, 64% good, 21% excellent. Cotton 2% poor, 24% fair, 57% good, 17% excellent. Soybean 23% fair, 63% good, 14% excellent. Peanut 1% poor, 19% fair, 55% good, 25% excellent. Pasture feed 1% poor, 16% fair, 62% good, 20% excellent. Livestock 2% poor, 17% fair, 54% good, 27% excellent. Summer season tomato harvest underway.

ALASKA: Days suitable for fieldwork 5.1. Topsoil 40% short, 60% adequate. Subsoil 45% short, 55% adequate. Hot, sunny conditions by the end of the week allowed hay harvest to start rapidly. Daytime high temperatures mostly in the 70s, many 80s were recorded by the end of the week. Lows in the 40s and 50s. Oats 50% pre-boot, 50% boot. Barley 20% pre-boot, 80% boot; 20% poor, 60% fair, 10% good, 10% excellent. Small grain 13.7 height, 14.6 1998. Hay crop 5% poor, 30% fair, 55% good, 10% excellent. Hay harvested 35% complete. Potatoes 90% emerged, 85% 1998. Crop growth 5% slow, 50% moderate, 45% rapid. Wind, rain damage to crops, 75% none, 25% light. Major activities included: Spraying fields for weeds, cutting hay, harvesting hay, irrigating crops, machinery repair.

ARIZONA: Cotton squaring is ahead of 1998, still remains behind average. As of July 4, 90% cotton squared compared to 81% 1998, 92% avg. Small grains harvest continues. As of July 4, 93% durum wheat, 90% other wheat, 95% barley, all of the other small grains had been harvested. Alfalfa harvest activity 61% not being harvested, 3% light, 4% moderate, 32% active. Alfalfa 5% poor, 17% fair, 60% good, 18% excellent. Range, pasture feed 15% very poor, 58% poor, 27% fair. Central areas producers shipped a variety of vegetables, melons including cabbage, canary melons, cantaloupes, crenshaw melons, golden honeydew, honeydew, orange flesh melons, Santa Claus melons, parsley, specialty melons, sweet corn, watermelons. Grape shipments included beauty seedless, currants, flame seedless, perlettes, thompsons. Eastern areas producers shipped green onions, 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 cantaloupes, honeydew, watermelons. Central, western areas citrus producers shipped grapefruit last week.

ARKANSAS: Days suitable for fieldwork 4. Topsoil 8% short, 70% adequate, 22% surplus. Temperatures were at or slightly above normal for most of the State except northern areas which had temperatures slightly below normal. Heavy rains occurred over parts of the north and west central areas during the first part of the week. Southern areas had below normal rainfall for the week. Livestock were reported in good condition. Main farm activities were: Finishing planting soybean, fertilizing cotton, corn, rice, harvesting wheat, hay. Other activities: Irrigating corn, rice, cultivating cotton, spraying cotton, fields for insects, weeds, 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 97% squared; 1% poor 19% fair 63% good 17% excellent. Soybeans 90% emerged 13% bloomed; 3% poor 30% fair 54% good 13% excellent. Sorghum 100% planted 100% emerged; 4% poor 27% fair 58% good 11% excellent. Wheat 97% harvested; 4% poor 11% fair 74% good 11% excellent. Oats 93% harvested; 60% fair 40% good.

CALIFORNIA: Field activities progressed normally under favorable conditions in most areas. Grain harvests of wheat, barley, oats were nearing completion in the Imperial, San Joaquin valleys, were in full swing in the Sacramento Valley. Rice showed good growth; some fields fertilized, treated for weeds, weevils. Corn, cotton, dry beans, sugar beets grew rapidly with the continued warmer temperatures. Some cotton fields in the San Joaquin Valley were blooming. Cotton fields were irrigated, thinned, weeded, sprayed for armyworms, leafhoppers, lygus, mites. Seed alfalfa bloom continued in the San Joaquin Valley, some fields were treated for aphids, lygus, weevils. Safflower, sunflowers were in full bloom in the Sacramento Valley. Safflower was sprayed for lygus in central counties. Harvest of old crop sugar beets was ongoing in the Imperial Valley, virtually complete in the San Joaquin Valley. Dry beans were treated for aphids, stink bugs. Corn was still being planted following small grain harvest. Silage harvest of early planted single crop corn was underway in the southern San Joaquin Valley. Alfalfa, Sudan grass were cut, baled for hay. Some alfalfa fields were sprayed for weeds. Grape growers treated vineyards for powdery mildew, insects. Flame Seedless, Thompson Seedless grapes were picked in the Coachella Valley. Other cultural activities last week included extensive weed control, irrigation of vineyards, orchards. Harvest continued in apricots, nectarines, freestone peaches, plums. Warm weather last week enhanced maturity levels. Apple trees were treated for codling moth. Olive trees showed a good fruit set, maturing well. Tree limbs in almond orchards were propped due to the heavy nut set. Pistachio trees were sprayed with fungicides. Walnut trees were treated for blight. Valencia oranges, lemons were picked in southern areas. Fresh market tomato harvest accelerated in the San Joaquin Valley. Processing tomatoes were developing rapidly due to the warm temperatures. Few early cantaloupe, watermelon fields were harvested in the San Joaquin Valley. Squash harvest neared completion. Some squash varieties had severe mosaic virus problems. Sweet corn fields were treated for earworm. Watermelon was treated for mildew, thrips. Harvest of honeydew, mixed melon varieties ended in the Imperial Valley, cantaloupe, watermelon, sweet corn harvests were winding down. Other crops harvested last week included beans, broccoli, carrots, celery, cilantro, cucumbers, garlic, leeks, turnips, onions, peppers, potatoes, various greens, herbs. Higher elevation summer pastures continued in good to excellent condition. Livestock were in good condition. Ample water supplies were still available in most areas. In some central areas, grasshoppers were eating dry grass on foothill pastures, but Yellow Star Thistle was also being eaten. Few fires were reported in foothill, mountain locations.

COLORADO: Days suitable for fieldwork 6.3. Topsoil 9% very short 20% short, 71% adequate. Subsoil 5% very short, 15% short, 80% adequate. Hot weather has favored growth, development of all crops, localized thunderstorms, some with hail, have slowed winter wheat harvest, have damaged numerous fields just prior to harvest. Winter wheat 84% turning color, 96% 1998, 87% avg.; 45% ripe, 54% 1998, 42% avg. Spring wheat 65% headed, 59% 1998, 68% avg.; 17% turning color, 35% 1998, 19% avg.; 2% very poor, 8% poor, 20% fair, 48% good, 22%

excellent. Spring barley 91% headed, 89% 1998, 81% avg.; 14% turning color, 19% 1998, 24% avg.; 2% poor, 15% fair, 58% good, 25% excellent. Sorghum 97% emerged, 93% 1998, 90% avg. Oats 75% headed, 84% 1998, 68% avg.; 11% turning color, 35% 1998, 23% avg.; 2% poor, 19% fair, 64% good, 15% excellent. Dry onions 1% very poor, 4% poor, 13% fair, 50% good, 32% excellent. Sugar beets 1% very poor, 3% poor, 12% fair, 54% good, 30% excellent. Dry beans 95% emerged, 91% 1998, 88% avg.; 2% poor, 7% fair, 57% good, 34% excellent. Summer potatoes 1% very poor, 2% poor, 8% fair, 49% good, 40% excellent. Fall potatoes 100% emerged, 100% 1998, 98% avg.; 7% poor, 16% fair, 60% good, 17% excellent. Alfalfa 95% 1st cutting, 96% 1998, 85% avg.; 20% 2nd cutting, 8% 1998, 11% avg.; 1% very poor, 3% poor, 18% fair, 63% good, 15% excellent. Pasture, range feed in mostly good condition. Seasonal drying of forage has increased the fire danger, especially on western slope.

DELAWARE: Days suitable for fieldwork 5.8. Topsoil 42% short, 58% adequate. Subsoil 7% very short, 29% short, 64% adequate. Winter wheat 50% harvested, 71% 1998, 47% avg. Barley 97% harvested, 95% 1998, 95% avg. Field corn 3% poor, 29% fair, 49% good, 19% excellent; 10% silked, 9% 1998, 4% avg. Soybeans 4% poor, 60% fair, 32% good, 4% excellent; 77% planted, 77% 1998, 78% avg. Sorghum 2% poor, 5% fair, 78% good, 15% excellent; 92% planted, 74% 1998, 85% avg. Sweet corn 5% harvested, 2% 1998, 4% avg. Snap beans 5% harvested, 10% 1998, 12% avg. Cucumbers 11% harvested, 12% 1998, 11% avg. Lima beans 5% harvested, 4% 1998, 1% avg. Green peas 74% harvested, 89% 1998, 90% avg. Potatoes 10% harvested, 13% 1998, 7% avg. Clover, other hay 40% 2nd cutting, 74% 1998, 48% avg.; 35% 3rd cutting, 25% 1998, 5% avg. Alfalfa hay 65% 2nd cutting harvested, 60% 1998, 51% avg.; 15% 3rd cutting harvested, 19% 1998, 4% avg. Hay supplies 20% short, 80% adequate. Pasture feed 3% very poor, 25% poor, 36% fair, 35% good, 1% excellent. Apples 26% fair, 55% good, 19% excellent. Peaches 34% fair, 52% good, 14% excellent; 5% harvested, 3% 1998, 2% avg. Activities: Some early planted, early variety sweet corn harvested, barley finished, wheat harvest active.

FLORIDA: Topsoil throughout Panhandle adequate to surplus. Peninsula adequate, scattered areas surplus. Warm week with high temperatures ranging high 80s to low 90s. Low temperatures mostly low 70s. Scattered afternoon thunderstorms with heavy rain in some areas. Most severe storms Tampa, south areas. Tobacco harvest active. Cotton good condition, starting to bloom. Digging green peanuts. Daily rain hampering application of post emergence herbicide some peanut fields. Sugarcane growth normal. Hay growth responding to rainfall. Haying between showers. Peanut 14% fair, 77% good, 9% excellent; 62% pegged. Most vegetable growers shipped last tomatoes, sweet corn, watermelons during week, harvesting virtually finished. Producers continue to pick small summer crop for local markets. Rain all citrus areas, surplus moisture some groves. Lakes, ponds, canals, water reservoirs refilling. Abundant new growth, new crop fruit sizing well. Valencia, grapefruit harvest almost over for this season. Major processors closed. Caretakers cutting cover crops, spraying, herbiciding, pushing dead trees, some replanting in larger groves. Pasture feed 25% fair, 60% good, 15% excellent. Cattle 10% fair, 80% good, 10% excellent. Pastures, range continued to improve following seasonal rains. Almost daily rains delayed hay baling. Panhandle, north; livestock ponds still low. Central counties; pastures progressing well following scattered rains. West central pasture grass growing. Statewide cattle, calves mostly good condition.

GEORGIA: Days suitable for fieldwork 3.5. Soil 1% very short, 9% short, 74% adequate, 16% surplus. Corn 75% dough, 74% 1998, 70% avg.; 36% dent, 36% 1998, 32% avg.; 5% mature, 0% 1998, 2% avg. Hay 3% very poor, 8% poor, 38% fair, 44% good, 7% excellent. Peanuts 84% blooming, 91% 1998, 90% avg. Sorghum 6% very poor, 14% poor, 34% fair, 39% good, 7% excellent; 96% planted, 92% 1998, 92% avg. Soybeans 96% planted, 91% 1998, 95% avg.; 3% setting pods, 0% 1998, 2% avg. Tobacco 7% very poor, 19% poor, 36% fair, 35% good, 3% excellent; 10% harvested, 9% 1998, 17% avg. Watermelons 4% very poor, 9% poor, 30% fair, 49% good, 8% excellent; 67% harvested, 69% 1998, 56% avg. Apples 22% fair, 55% good, 23% excellent. Peaches 1% poor, 26% fair, 36% good, 37% excellent; 46% harvested, 74% 1998, 76% avg. Pecans 5% very poor, 9% poor, 32% fair, 46% good, 8% excellent. Continued rainfall benefitted many counties this week. Showers slowed some field activities, helped crop, pasture conditions

improve. More rain is needed to prevent soils from drying due to rising temperatures. Corn, soybean, sorghum conditions improved last week. Corn development was ahead of the five year averages for the dough, dent, mature stages. Soybean progress remained ahead of 1998 in the emerging, blooming, setting pod stages. Sorghum planting neared conclusion. Cotton, peanut, tobacco conditions improved last week. Some farmers were side-dressing cotton. Cotton crop trailed the five year average pace for squaring, setting bolls. Peanut blooming, pegging remained behind last year's pace. Tomato Spotted Wilt Virus continued to be a concern in some peanut fields. Tobacco harvest continued ahead of 1998, but behind the average pace. Peach harvest continued last week with improved condition. There were reports of sizing problems because of insufficient thinning. Watermelon harvest sped ahead of the average pace with improved condition, isolated reports of powdery mildew appeared. Many counties reported weed problems last week. Other activities included spraying pecans for insects and leaf disease as well as applying boron to peanuts.

HAWAII: Warm temperatures, mostly sunny skies, light winds enabled crops to make fair progress. Rainfall was generally light with increased showers in western islands during second half of week. Banana orchards in fair to good condition. Summer weather benefitting crop development. Harvesting activity expected to increase seasonally. Papaya fields were in variable condition. Harvesting activity varied from heavy to light. Head cabbage plantings remained in mostly good condition. Harvesting will remain steady. Chinese cabbage crop making rapid growth due to warmer weather. Harvesting at moderate volumes. Dry onion crop condition was fair to good. Harvesting is steady.

IDAHO: Days suitable for fieldwork 6.5. Topsoil 1% very short, 26% short, 71% adequate, 2% surplus. Second consecutive week below normal temperatures. Cereal leaf beetle infesting grain in eastern areas. Irrigation supply 72% excellent, 26% good, 2% fair. Alfalfa hay 86% 1st cut, 75% 1998, 82% avg.; 8% 2nd cutting, 7% 1998, 6% avg. Oat 55% headed. Dry beans 96% emerged, 96% 1998, 97% avg. Cherries 13% harvested, 17% 1998, 52% avg. Potatoes 12" high 46%, 60% 1998, 63% avg.; 11% closing middles, 19% 1998, 26% avg. Barley 37% headed, 32% 1998, 49% avg.; 89% jointed; 64% booting. Spring wheat 35% headed, 32% 1998, 51% avg.; 94% jointed; 68% booting. Winter wheat 89% headed, 92% 1998, 93% avg.; 98% booting; 13% turning color. Activities: Irrigating, spraying weeds, monitoring for disease.

ILLINOIS: Days suitable for fieldwork 4.7. Topsoil 1% very short, 10% short, 68% adequate, 21% surplus. Scattered showers across the northern part of the State welcome for the corn, soybean crops, rains slowed wheat harvest in other areas. With the good growing weather, corn averaged more than a foot taller than 1998 and average at this time. There is a wide difference in soybean progress across the State. Between rains, winter wheat harvest continued. Oat harvest is off to an early start this year compared to the last five years. Other activities for last week included cultivating soybeans, replanting drowned spots, mowing, baling hay, spraying pesticides. Corn height 57 in., 44 in. 1998, 41 in. avg. Winter wheat 99% turning yellow, 99% 1998, 98% avg.; 97% ripe, 97% 1998, 85% avg. Oats 90% filled, 79% 1998, 63% avg.; 41% turning yellow, 35% 1998, 26% avg.; 10% ripe, 9% 1998, 5% avg.; 4% harvested, 0% 1998, 0% avg.; 1% poor, 15% fair, 71% good, 13% excellent. Alfalfa 42% 2nd cut, 30% 1998, 27% avg.; 1% poor, 14% fair, 73% good, 12% excellent. Red clover 88% cut, 79% 1998, 87% avg.; 12% fair, 71% good, 17% excellent.

INDIANA: Days suitable for fieldwork 3.1. Topsoil 2% very short, 11% short, 65% adequate, 22% surplus. Subsoil 3% very short, 14% short, 70% adequate, 13% surplus. Precipitation across the north, central part of the State was spotty, helped to relieve dry soil conditions, while areas in southern areas received excessive rainfall during the week. Wheat 80% good to excellent; soybeans 81%; corn 87%. Wheat 51% harvest, 66% 1998, 34% avg. Soybean double crop planting virtually completed. Soybeans 24% blooming, 8% 1998, 6% avg. Corn 5% silking, 3% 1998, 2% avg. Pasture feed 55% good to excellent. Alfalfa hay 44% 2nd cut complete, 31% 1998. Activities: Applying post-emergence chemicals, planting double crop soybeans, harvesting wheat, second cutting of alfalfa, side-dressing corn, mowing roads, baling hay, spraying, repairing equipment, monitoring fields for insects, caring for livestock.

IOWA: Days suitable for fieldwork 4.0. Topsoil 4% short, 71% adequate, 25% surplus. Subsoil 2% short, 72% adequate, 26% surplus. Corn 73% cultivated, 67% 1998, 77% avg.; 0% tasseled, 1% 1998, 2% avg. Corn stand compared to normal 93%. Corn height tallest 57 in.; 43 in. avg.; 2% very poor, 5% poor, 20% fair, 45% good, 28% excellent. Soybeans 12% blooming, 23% 1998, 14% avg.; 2% very poor, 4% poor, 23% fair, 48% good, 23% excellent. Oats 53% turning, 24% 1998, 31% avg.; 1% very poor, 4% poor, 17% fair, 53% good, 25% excellent. Winter wheat 4% harvested, 12% 1998, 17% avg.; 2% very poor, 1% poor, 24% fair, 55% good, 18% excellent. Livestock generally in good condition. Few producers indicated flies starting to be a problem. Range, pasture feed 1% very poor, 2% poor, 15% fair, 56% good, 26% excellent. Alfalfa 95% 1st cut, 87% 1998, 94% avg.; 17% 2nd cut, 9% 1998, 12% avg. Clover hay 77% 1st cut, 66% 1998, 74% avg.; 3% 2nd cut, 8% 1998, 5% avg. Hay 3% poor, 19% fair, 52% good, 26% excellent.

KANSAS: Days suitable for fieldwork 3.0. Topsoil 2% short, 56% adequate, 42% surplus. Subsoil 2% short, 72% adequate, 26% surplus. Wheat harvest, aided by hot, dry weather near the end of the week, made excellent progress across the State. Rainy weather earlier in the week, along with hail, high winds in western areas, kept combines out of the fields. However, by the weekend, a heatwave moved across the State, allowing harvest to make rapid progress. Sorghum 92% emerged, 97% 1998. Soybeans 89% planted, 99% 1998, 96% avg. Sunflower 1% very poor, 4% poor, 18% fair, 68% good, 9% excellent. Sunflowers 91% planted, 94% 1998. Sunflowers 75% emerged, 83% 1998. Sunflowers 1% blooming, 2% 1998. Alfalfa 38% 2nd cut, 75% 1998, 58% avg.; 1% 3rd cut, 4% 1998, 4% avg. Major field activities included: Harvesting wheat, putting up hay, spraying weeds, planting fall crops, cultivating corn, working stubble. Hay, forage supplies 2% short, 86% adequate, 12% surplus. Stock water 3% short, 67% adequate, 30% surplus.

KENTUCKY: Days suitable for fieldwork 2.4. Topsoil 7% very short, 15% short, 54% adequate, 24% surplus. Subsoil 12% very short, 24% short, 50% adequate, 14% surplus. Temperatures were above normal throughout the State, with high temperatures in the mid to upper 90s. Rainfall throughout the State was above normal. Crops in good to excellent condition where moisture is adequate. Despite rain in some drier eastern regions, crops, pastures still need more rain. Seeding of double crop soybeans 93% complete, 70% 1998, 68% avg.; single crop planting complete. Black shank is the leading problematic disease for burley tobacco, throughout the State, although scalding was a problem in several areas. Tobacco 2% very poor, 7% poor, 29% fair, 45% good, 17% excellent; height 34% under 12 in., 43% 12-24 in., 23% over 24 in. Pasture feed 4% very poor, 12% poor, 36% fair, 40% good, 8% excellent. Pastures which received rain are doing better in central, eastern areas. Winter wheat harvest 91% complete. Yields, test weights continue to look good.

LOUISIANA: Days suitable for fieldwork 3.8. Soil moisture 5% short, 64% adequate, 31% surplus. Corn 1% very poor, 2% poor, 19% fair, 73% good, 5% excellent; 99% silked, 100% 1998, 98% avg.; 78% dough stage, 88% 1998, 76% avg.; 2% mature, 11% 1998, 9% avg. Corn conditions continued to improve. Cotton growers continued to spray for aphids. Hay 95% 1st cut, 96% 1998, 93% avg.; 4% final cut, 7% 1998, 7% avg. In the south, hay harvest was slow due to the rains. Peaches 71% harvested, 71% 1998, 61% avg. Sorghum 0% turning color, 2% 1998, 1% avg. Soybeans 10% setting pods, 22% 1998, 10% avg. Sugarcane 9% fair, 53% good, 38% excellent; conditions continued to improve. Sweet potatoes 99% planted, 95% 1998, 93% avg. Livestock 2% poor, 23% fair, 61% good, 14% excellent. Vegetables 2% very poor, 12% poor, 32% fair, 46% good, 8% excellent.

MARYLAND: Days suitable for fieldwork 5.3. Subsoil 17% very short, 64% short, 19% adequate. Topsoil 19% very short, 45% short, 36% adequate. Winter wheat 57% harvested, 63% 1998, 43% avg. Barley 98% harvested, 95% 1998, 89% avg. Rye 60% harvested, 74% 1998, 46% avg. Corn 2% very poor, 11% poor, 34% fair, 50% good, 3% excellent; 25% silked. Soybeans 1% very poor, 8% poor, 43% fair, 46% good, 2% excellent; 84% planted, 89% 1998, 80% avg. Sorghum 60% fair, 32% good, 8% excellent; 97% planted, 100% 1998, 95% avg. Tobacco 10% poor, 20% fair, 70% good. Snap beans 26% harvested, 21% 1998, 16% avg. Cucumbers 26% harvested, 21% 1998, 22% avg. Potatoes 25% harvested, 21% 1998, 13% avg. Sweet Corn 17%

harvested, 7% 1998, 4% avg. Tomatoes 20% harvested, 1% 1998, 1% avg. Cantaloupes 10% harvested, 5% 1998, 4% avg. Peaches 1% poor, 20% fair, 76% good, 3% excellent; 13% harvested, 12% 1998, 4% avg. Apples 10% fair, 75% good, 15% excellent. Clover, other hays 45% 2nd cutting harvested, 31% 1998, 20% avg.; 20% 3rd cutting. Alfalfa 65% 2nd cutting harvested, 64% 1998, 53% avg.; 8% 3rd cutting harvested, 6% 1998, 3% avg. Pasture feed 17% very poor, 25% poor, 36% fair, 21% good, 1% excellent. Hay supplies 3% very short, 35% short, 62% adequate. Activities: Received some showers this past week to help relieve conditions, grain harvesting still very active, veggie, fruit harvesting continued.

MICHIGAN: Days suitable for fieldwork 4.0. Topsoil 1% very short, 7% short, 75% adequate, 17% surplus. Subsoil 2% very short, 22% short, 73% adequate, 3% surplus. Hay 1% very poor, 2% poor, 17% fair, 60% good, 20% excellent; 92% 1st cut, 99% 1998, 89% avg.; 8% 2nd cut, 23% 1998. Corn 36 in. height, 37 in. 1998, 27 in. avg. Oats 36% turning yellow, 55% 1998. Wheat 98% turning yellow, 96% 1998, 54% avg. High temperatures dominated throughout week as humidity started to rise. Much needed rain came through this past week. Although rains were needed by field crops, hay harvesting stopped. Hard rain came through some areas as one observer from the thumb said, "We had 2.3 inches of rain in six hours." Another reporter from the Southwest commented on rain saying, "About four inches in the past week has relieved the dry conditions." Field crops benefitted from rains that passed through on Thursday. Corn responded well to heat after receiving adequate moisture. Rain germinated last of soybeans in the southeast. In more advanced fields, Roundup Ready beans were sprayed. Sugar beets in good condition with canopy covering 85% of rows. Some late planted dry beans were hurt by heavy rains. Hay curing came to a standstill with rain, humid weather that followed. Alfalfa growth continued to advance nicely. Wheat harvest began this past weekend as fields dried out. Some fields were flattened by locally heavy rains. Earliest planted potatoes were full bloom while later fields were filling rows. Heat following a soaking rain have pushed vegetable crop growth rapidly. Cabbage harvest was going strong with good head size, quality reported. Carrots growing well in spite of heat. Celery hearts, full size celery being harvested. Harvest of cucumbers advanced ahead of normal for both market and pickles. Harvest of leaf lettuce, turnips was underway with good quality. Peppers put on remarkable vegetative growth. Snap bean stands looked good. Summer squash, zucchini were producing abundantly. Sweet corn harvest was just getting started in early fields. Market tomatoes were harvested with volume increasing. Processing tomatoes made great growth. Fruit development was still about a week ahead of normal. Progress has been slowed in west central region by dry conditions. Tart cherry harvest continued in the southwest, will get underway shortly in other regions. Apples 1.50 in. diameter. Significant drop occurred in some areas. Peaches had 1.50 to 2.00 in. fruit. Oriental fruit moth catches were up. Grape berries in southwest 0.20 to 0.40 in. diameter. Hot, humid weather resulted in infection periods for black rot, powdery mildew. Red raspberry harvest was underway; summer black raspberry picking will start this week. Sweet cherry harvest began in west central, northwest regions. Plums had 1 to 1.50 in. fruit.

MINNESOTA: Days suitable for fieldwork 3.9. Topsoil 4% short, 76% adequate, 20% surplus. Corn 90% cultivated, 95% 1998, 87% avg.; 37 in. height, 45 in. 1998, 36 in. avg. Soybeans 61% cultivated, 78% 1998, 63% avg.; 11 in height, 13 in. 1998, 11 in. avg. Spring Wheat 97% jointed, 99% 1998, 91% avg.; 1% turning ripe, 1% 1998, 1% avg. Oats 97% jointed, 99% 1998, 96% avg.; 8% turning ripe, 10% 1998, 10% avg. Barley 95% jointed, 98% 1998, 92% avg.; 0% turning ripe, 1% 1998, 2% avg. Pasture feed 1% very poor, 5% poor, 21% fair, 60% good, 13% excellent. Sugar beet 2% very poor, 8% poor, 24% fair, 54% good, 12% excellent. After a mostly cool week, high temperatures with high humidity at the end of the week pushed crop development forward, detrimental effects from the long period of excessively wet conditions are evident. Weeds are a severe problem for many producers, since wet ground has hindered cultivating, pesticide spraying.

MISSISSIPPI: Days suitable for fieldwork 3.8. Soil moisture 11% short, 66% adequate, 23% surplus. Corn 96% silked, 92% 1998, 85% avg.; 64% dough, 61% 1998, 46% avg.; 25% dent, 25% 1998, 11% avg.; 5% poor, 22% fair, 56% good, 17% excellent. Cotton 95% squaring, 96% 1998, 90% avg.; 37% setting bolls, 48% 1998, 34% avg.; 3% poor, 24% fair, 51% good, 22% excellent. Rice 8% heading, 15% 1998, 10% avg.; 2%

poor, 19% fair, 64% good, 15% excellent. Sorghum 44% heading, 41% 1998, 41% avg.; 1% poor, 15% fair, 61% good, 23% excellent. Soybeans 99% emerged, 97% 1998, 95% avg.; 66% blooming, 57% 1998, 39% avg.; setting pods 37%; 1% very poor, 4% poor, 23% fair, 54% good, 18% excellent. Sweet potatoes 94% planted, 99% 1998, 89% avg.; 2% poor, 28% fair, 65% good, 5% excellent. Hay (warm-season) 54% harvested, 54% 1998, 53% avg.; 1% very poor, 10% poor, 34% fair, 49% good, 6% excellent. Watermelons 30% harvested, 26% 1998, 22% avg.; 2% poor, 22% fair, 55% good, 21% excellent. Wheat 99% harvested, 100% 1998, 97% avg. Blueberries, 3% poor, 4% fair, 81% good, 12% excellent. Cattle, 5% poor, 19% fair, 63% good, 13% excellent. Pasture feed 1% very poor, 4% poor, 24% fair, 61% good, 10% excellent. Cotton, corn, soybean crop development is progressing ahead of normal. All row crops are mostly good condition.

MISSOURI: Days suitable for fieldwork 2.7. Topsoil 2% very short, 9% short, 64% adequate, 25% surplus. Precipitation 1.74 in. Corn 25% silking, 88% Bootheel. Double-crop soybean 48% planting complete; 91% emerged. Soybeans 8% blooming, Bootheel 13%. Soybean 1% very poor, 10% poor, 29% fair, 53% good, 7% excellent. Sorghum 1% headed, Bootheel 4%. Winter wheat 58% harvested, Bootheel 98%. Winter wheat 2% very poor, 14% poor, 34% fair, 44% good, 6% excellent. Pasture feed 1% very poor, 6% poor, 26% fair, 66% good, 12% excellent.

MONTANA: Days suitable for fieldwork 4.8. Topsoil 7% very short, 31% short, 58% adequate, 4% surplus. Subsoil 9% very short, 28% short, 60% adequate, 3% surplus. Majority of the State received some amounts of precipitation, but not enough to slow progress or delay fieldwork. Sugar beets 4% poor, 13% fair, 52% good, 31% excellent. Winter wheat 97% headed, 97% 1998, 92% avg.; 37% turning, 16% 1998, 14% avg. Spring wheat 67% in boot, 94% 1998, 85% avg.; 1% turning, 1998, 1% avg. Barley 64% in boot; 93% 1998, 83% avg.; 1% turning, 1% 1998, 1% avg. Oats 59% in boot, 88% 1998, 82% avg.; 36% headed, 48% 1998, 39% avg.; 3% turning, 1% 1998, 2% avg.; 2% poor, 17% fair, 65% good, 16% excellent. Corn 9% fair, 46% good, 45% excellent. Potatoes 96% emerged, 98% 1998, 98% avg.; 32% fair, 58% good, 10% excellent. Dry beans 10% fair, 80% good, 10% excellent. Alfalfa 48% 1st cutting, 32% 1998, 43% avg. Other hay 31% harvested, 16% 1998, 30% avg. The only other fieldwork being done is spraying of summer fallow.

NEBRASKA: Days suitable for fieldwork 2.4. Topsoil 1% short, 77% adequate, 22% surplus. Subsoil 2% short, 84% adequate, 14% surplus. Statewide, temperatures 3 to 8° below normals across State. Precipitation occurred across State with averages ranging from one inch in north central, southeast areas to one and three-fourth inches in the southwest area. Corn % very poor, 3% poor, 14% fair, 53% good, 29% excellent. Irrigated corn 79%, dryland corn 86% in good or excellent. Green-snap damage was noted in central, south central regions. European corn borer infestation was low, most producers didn't have to treat it. Soybean blooming 6%, above 1998 5%, same as average.; 2% poor, 17% fair, 64% good, 17% excellent. Sorghum emerged 98%, compared to 100% 1998, 100 avg.; 1% poor, 18% fair, 67% good, 14% excellent. Dry beans 1% very poor, 2% poor, 28% fair, 59% good, 10% excellent. Wheat 3% very poor, 7% poor, 21% fair, 56% good, 13% excellent; wheat turning color was 96%, compared to 94% 1998, 89% avg. Wheat ripe 32% below 42% 1998, 35% avg. Oats headed 92% complete compared to 99% 1998, 97% avg. Oats 4% poor, 23% fair, 55% good, 18% excellent. First cutting of alfalfa 98%, compared to 99% 1998, 99% avg. Second cutting of alfalfa 16%, above 15% 1998, 14% avg. Alfalfa 1% very poor, 4% poor, 22% fair, 61% good and 12% excellent. Pasture, range feed 1% very poor, 2% poor, 15% fair, 53% good, 29% excellent. Wild hay 2% poor, 12% fair, 69% good, 17% excellent. Pastures were providing excellent grazing. Feedlots were muddy from recent rain causing weight gain to decline. Producer activities; laying irrigation pipes, spraying soybeans, corn, cultivating corn, applying herbicides to crops, moving grain.

NEVADA: Northern areas had below normal temperatures throughout most of the week, with only a trace amount of precipitation in the Elko area, a trace in the Winnemucca area. In the central, southern portions of the State, above normal temperatures persisted except on the 4th, there was no precipitation. Irrigation water supply remains adequate. First cutting of alfalfa was completed throughout the majority of the State, 2nd

cutting had begun. Second cutting looks good. Majority of wheat, oats had begun turning color. Grasshoppers were spotted in some alfalfa fields, on some of the range lands in the Ely, Winnemucca areas. In spite of this, the range condition remains in the good range. Majority of livestock were on summer range. Main farm, ranch activities: Irrigating, repairing, maintaining equipment, second cutting of alfalfa, grasshopper patrol, some movement of livestock.

NEW ENGLAND: Days suitable for fieldwork 5.7. Topsoil 13% very short, 47% short, 40% adequate. Subsoil 23% very short, 45% short, 32% adequate. Pasture feed 9% very poor, 19% poor, 43% fair, 25% good, 4% excellent. Maine potatoes 100% emerged, condition good to excellent. Massachusetts potatoes 100% emerged, condition good. Rhode Island potatoes 100% emerged, condition good to fair. Oats in Maine 100% emerged, condition good to excellent. Barley in Maine 100% emerged, condition good to excellent. Field corn 100% emerged, condition good. Sweet corn 99% planted, 95% 1998, 99% avg.; 99% emerged, condition good to fair; <5% harvested. Shade tobacco <5% harvested, condition good. Broadleaf tobacco 95% planted, 99% 1998, 95% avg.; condition good. First cut hay 90% harvested, 60% 1998, 70% avg.; condition good to fair. Second cut hay 10% harvested, 10% 1998, 10% avg.; condition fair. Apples set average, size average, condition good to fair. 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 95% harvested, 90% 1998, 70% avg.; set average, size average, condition good. Cranberries petal fall to full bloom, condition good to excellent. Highbush blueberries 5% harvested 0%, 1998, 0% avg., set average, size average, condition good to fair. Wild Blueberries set above average, size average, condition good to excellent. Major farm activities included: Irrigating where it's available; side dressing vegetable, corn fields; cultivating; scouting for pest, applying pesticides when necessary; cutting hay; harvesting strawberries, vegetables; hilling potatoes; harvesting shade tobacco.

NEW JERSEY: Days suitable for fieldwork 6. Temperatures much above normal. Extremes 58°; 101°. Rainfall 0.42 in. north, 0.53 in. central, 0.85 in. south. Heaviest 24 hour total 0.99 in. at Seabrook on the 29th to the 30th. Estimated soil moisture, in percent of field capacity, this past week 61% north, 50% central, 50% south. Four inch soil temperatures 76° north, 77° central, 77° south. Farmers continued to harvest hay, wheat, barley, other small grains. Field corn was reported to be in fair, dry condition in all regions. First harvest of Alfalfa hay is almost complete, reported to be in good condition. Second harvest is beginning although lower yields have resulted because of the dry weather. Rye, wheat, barley are in good to fair condition, being harvested. Soybeans are in good condition in the north. In the south, soybeans are in fair condition, double cropped soybeans are growing slower due to the hot weather. Irrigation is occurring on many vegetable fields to help deal with heat stress. Most vegetables had a rating of good except for lettuce, which had a rating of fair. Harvest for squash, cabbage, snap beans, sweet corn, peppers is underway. Tomatoes continue to be harvested, good to excellent condition. Apples, peaches were in fair condition in the north, good condition in the south. Peach harvest started in some places this week. Early harvesting of blueberries continued. Cranberries, also reported to be in good condition, are reaching full bloom.

NEW MEXICO: Days suitable for fieldwork 6.7. Hottest weather of the summer affected State, but an increase in moisture helped alleviate the situation late in the week. Statewide about 4° above normal with many locations below 6000 feet hitting 100° at least once. Over half the reporting locations received some measurable rainfall during the week, but no locations reported as much as an inch. Greatest totals reported included 0.90" at Quemado, 0.75" at Des Moines. Farmers continued to harvest hay, wheat, onions along with cultivating, irrigating other crops. Ranchers were still moving cattle, branding. Although rains have helped there were still reports of supplemental feeding, hauling water in a few locations. Grasshoppers continued to be reported, no reports of grass damage at this time. Range, pasture feed 8% very poor, 11% poor, 32% fair, 39% good, 10% excellent. Cattle, sheep showed little change with cattle in mostly good condition, sheep mostly fair to good condition.

NEW YORK: Days suitable for fieldwork 5.2. Soil 19% very short, 50% short, 31% adequate. Much needed rains fell on most of the State, helping to replenish soil moisture supplies, stimulate crop development,

rejuvenate hay fields, pastures. Pasture feed 7% very poor, 50% poor, 37% fair, 6% good. Hay 19% poor, 44% fair, 37% good. Alfalfa 1st cut 97% complete, 90% 1998, 90% avg. Clo-tim 85% cut, 95% 1998, 85% avg. Corn greening up nicely. Cultivating where possible. Wheat combining active in some areas. Potential sprouting a major concern due to high humidity. Wheat 7% fair, 80% good, 13% excellent. Oats maturing nicely, filling out after rains. Last of dry bean planting emerged. Earlier plantings doing better. Soybean growth accelerated. Most beans have filled the row. Strawberry harvest winding down with good yields reported. Sweet corn picking began. Apples in good condition statewide. Tart cherry harvest underway. Sweet cherries show some splitting due to rains.

NORTH CAROLINA: Days suitable for fieldwork 4.9. Topsoil 3% short, 82% adequate, 15% surplus. Subsoil 1% short, 81% adequate, 18% surplus. Soil moisture levels 2% very short, 20% short, 66% adequate, 12% surplus. Lingering precipitation early in the week was replaced by hot, dry weather in much of State. Most crops benefitted from the rainfall early in the week, more precipitation is needed, particularly in the Piedmont, Coastal Plains. Despite the return of dry weather, crop conditions continue to be mostly good. Small grain harvest is winding down at or ahead of the five-year average. Soybean planting and weed control in all crops were among the major activities during the week. Other activities included planting sweet potatoes, sorghum, making hay, tending livestock. As tobacco topping begins there are concerns of scattered blue mold in areas that have received more rainfall. Additionally, there were widespread reports of weather fleck in tobacco, which is associated with high ozone levels.

NORTH DAKOTA: Days suitable for fieldwork 5. Topsoil 3% short, 82% adequate, 15% surplus. Subsoil 0% very short, 1% short, 81% adequate, 18% surplus. Continued showers, wet fields across the State slowed the hay harvest, row crop cultivation. Wheat midge was reported across the State, scab in the eastern districts. Hail, wind damage to crops, farm buildings were reported in the east central, southern districts. Durum wheat 62% jointed, 83% 1998, 72% avg.; 25% boot, 54% 1998, 44% avg.; 11% heading, 23% 1998, 18% avg. Canola 90% rosette, 97% 1998; 55% blooming, 74% 1998. Dry edible beans 2% blooming, 13% 1998, 6% avg. Flaxseed 17% blooming, 32% 1998, 15% avg. Potatoes 12% blooming, 27% 1998, 17% avg. Emerged crop condition: durum 3% poor, 27% fair, 61% good, 9% excellent; canola 4% poor, 24% fair, 61% good, 11% excellent; corn 2% very poor, 4% poor, 19% fair, 65% good, 10% excellent; dry edible beans 2% very poor, 7% poor, 22% fair, 60% good, 9% excellent; flaxseed 3% poor, 27% fair, 60% good, 10% excellent; potatoes 5% poor, 12% fair, 51% good, 32% excellent; soybeans 1% very poor, 6% poor, 26% fair, 58% good, 9% excellent; sugar beets 5% poor, 15% fair, 55% good, 25% excellent; sunflower 2% poor, 25% fair, 64% good, 9% excellent. Pasture feed 1% very poor, 3% poor, 10% fair, 65% good, 21% excellent. Stock water supplies 89% adequate, 11% surplus. Broadleaf and wild oat spraying 84%, 95% complete, respectively. Hay 4% above normal.

OHIO: Days suitable for fieldwork 5.3. Topsoil 20% very short, 40% short, 39% adequate, 1% surplus. Soybeans 26% blooming, 16% 1998, 8% avg.; 1% setting pods, 0% 1998, 0% avg. Winter wheat 83%, 83% 1998, 35% avg.; 20% harvested, 26% 1998, 10% avg. Oats 13% ripe, 15% 1998, 27% avg.; 3% harvested, 0% 1998, 0% avg. Alfalfa 51% 2nd cutting, 21% 1998, 17% avg. Other hay 23% 2nd cutting, 12% 1998, 10% avg. Corn 1% silked, 0% 1998, 0% avg. Summer apples 3% harvested, 0% avg. Pasture feed 11% very poor, 24% poor, 34% fair, 26% good, 5% excellent. Winter wheat 2% poor, 16% fair, 58% good, 24% excellent. Corn 2% very poor, 7% poor, 26% fair, 51% good, 14% excellent. Soybeans 2% very poor, 7% poor, 27% fair, 50% good, 14% 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; planting garden crops; cutting firewood; picking raspberries; resetting tobacco; tying tomatoes; spreading manure. Farmers in Meigs county have been irrigating vegetable crops, hauling water to cattle due to scattered rainfall. Reported weed pressures include Canadian thistle, morning glory, buttonweed, foxtail, ragweed, hemp dogbane, milkweed, quack grass, poison ivy, broadleaf, chickweed, Johnsongrass. Reported insects were potato leafhopper, alfalfa weevil in alfalfa; cutworms, European corn borer, armyworms, corn flea beetles in corn; spotted spidermite in

soybeans; cucumber beetles in vine crops. Reported diseases were phytophthora root rot in soybeans, smut in wheat, blight on vegetables, scab on young corn. Pasture conditions range from excellent to poor. Although most pastures have improved since last week, some are still dormant, brown. A Meigs county reporter mentioned that hay production has been about 50 to 60% of last year's production. Winter stocks are being fed to many livestock operations particularly in the southern part of the State. Livestock have been stressed from hot, humid conditions, an increase in the fly population.

OKLAHOMA: Days suitable for fieldwork 4.0. Subsoil 2% short, 77% adequate, 21% surplus. Topsoil 3% short, 74% adequate, 23% surplus. Wheat harvest accelerates as hot, dry conditions replace wet weather. Moisture at beginning of week boosts row crop, pasture growth. Wheat 34% plowed, 54% 1998, 54% avg. Oats 80% harvested, 97% 1998, 84% avg.; 25% plowed, 49% 1998, 44% avg. Corn 1% poor, 10% fair, 84% good, 5% excellent; 20% tasseled, 19% 1998, 36% avg.; 8% milk to soft, 6% 1998, 11% avg. Sorghum 73% up to stand, 88% 1998, 79% avg. Soybeans 10% poor, 38% fair, 43% good, 9% excellent; 68% planted, 94% 1998, 90% avg.; 53% up to stand, 86% 1998, 79% avg.; 8% flowering, 11% 1998, 13% avg. Peanuts 98% up to stand, 98% 1998, 95% avg.; 6% setting pods, 7% 1998, 8% avg. Cotton 100% up to stand, 93% 1998, 97% avg. Watermelons 53% fruit set, 75% 1998, 59% avg. Alfalfa hay 2% poor, 22% fair, 61% good, 15% excellent; 73% 2nd cutting, 86% 1998, 80% avg.; 12% 3rd cutting, 26% 1998, 17% avg. Other hay 73% 1st cutting, 78% 1998, 78% avg.; 8% 2nd cutting, 1% 1998, 10% avg. Livestock 2% poor, 14% fair, 70% good, 14% excellent. Feeder cattle prices up 50 cents per cwt. from last week.

OREGON: Days suitable for fieldwork 6.8. Topsoil 18% very short, 40% short, 42% adequate. Subsoil 18% very short, 38% short, 44% adequate. Winter wheat 25% very poor, 25% poor, 32% fair, 16% good, 2% excellent. Range, pasture feed 1% very poor, 11% poor, 26% fair, 55% good, 7% excellent. Activities: Westside haying continued. Some hay down, rained on. Alfalfa 2nd cutting underway. Willamette Valley Crimson clover being swathed, red clover nearing full bloom. Cutting of tall fescue, annual ryegrass underway. Rogue River Valley grains maturing, spring grain suffering from dry conditions. On East side, Alfalfa, other hay harvest underway. Harvest preparation continued for grains. Severe crop damage from hail storm in northeast. Mid-Columbia Basin approximately 1500 acres of spring crops destroyed due to lack of moisture. On Westside some nurseries working on fall plants, Christmas trees. Willamette Valley vegetables were being harvested, new plantings going in. Rouge River Valley, onions growing well, corn looking good. Willamette Valley onions looking better, sweet corn is leaf stage. Newer plantings of sweet corn up, potatoes being cultivated. Potatoes 1.5 weeks behind in Klamath Basin. Malheur County, the north coast, most vegetables look good, growing fast. Northeastern vegetables damaged by hail storm, heavy damage to vegetable transplant crops, should recover but harvest delayed. First melon crop damaged to the extent not market due to bruising. Some onion fields severely hit. Little long term damage done to potatoes. In the Willamette Valley, strawberry harvest nearing peak, some areas harvesting raspberries, blackberries. Sweet cherry harvest continued. Hazelnuts sizing. Rogue River Valley second cover sprays on pears nearly completed. Strawberry harvest winding down, cherries being picked. Caneberries starting to ripen. South coast early blueberry varieties starting to ripen. Cranberries blooming. North coast blackberries blooming. Mid-Columbia Basin Royal Anne, Bing cherries being harvested. Livestock mostly good throughout most of the State. Rains in Willamette Valley expected to extend grazing on dryland pastures. Northeast received rain which should improve pasture, range growth. Klamath Basin, Central State reporting most livestock good.

PENNSYLVANIA: Days suitable for fieldwork 4.8. Soil moisture 27% very short, 51% short, 22% adequate. Corn 28 in. height, 26 in. 1998, 26 in. avg.; 1% very poor, 12% poor, 33% fair, 47% good, 7% excellent. Soybeans 97% emerged complete, 89% 1998; 1% very poor, 4% poor, 42% fair, 47% good, 6% excellent. Barley 81% ripe, 94% 1998, 82% avg.; 87% harvested, 83% 1998, 60% avg. Wheat 96% turning yellow, 92% 1998, 85% avg.; 76% ripe, 48% 1998, 31% avg.; 11% harvested, 17% 1998, 8% avg.; 1% poor, 20% fair, 71% good, 8% excellent. Oats heading or headed 89% complete, 89% 1998, 80% avg.; 39% turning yellow, 31% 1998, 20% avg.; 5% ripe, 0% 1998, 2% avg. Oat 2% very poor, 13% poor, 42% fair, 39% good, 4% excellent. Alfalfa 44% 2nd cutting complete, 30% 1998, 29% avg. Timothy clover 91% 1st cutting

complete, 70% 1998, 70% avg. Timothy clover 12% 2nd cutting complete, 0% 1998, 1% avg. Quality of hay made 2% very poor, 9% poor, 21% fair, 52% good, 16% excellent. Peach 1% very poor, 1% poor, 16% fair, 55% good, 27% excellent. Apple 1% very poor, 4% poor, 20% fair, 52% good, 23% excellent. Activities included: Planting soybeans, some vegetables; machinery maintenance; hauling manure; spreading fertilizers; caring for livestock; building, repairing fences; cutting hay; making haylage; applying pesticides; sowing beans; harvesting barley, wheat, some vegetables; irrigating crops.

SOUTH CAROLINA: Days suitable for fieldwork 5.5. Soil moisture 1% very short, 15% short, 74% adequate, 10% surplus. Barley 99% harvested, 100% 1998, 95% avg. Cantaloupes 59% harvested, 70% 1998, 65% avg.; 1% very poor, 16% poor, 49% fair, 33% good, 1% excellent. Corn 29% doughed, 46% 1998, 52% avg.; 9% very poor, 16% poor, 37% fair, 33% good, 5% excellent. Cucumbers 95% harvested, 85% 1998, 75% avg.; 18% poor, 59% fair, 23% good. Hay 3% very poor, 10% poor, 33% fair, 51% good, 3% excellent. Peaches 42% harvested, 31% 1998, 35% avg.; 10% poor, 15% fair, 55% good, 20% excellent. Rye 99% harvested, 97% 1998, 96% avg.. Snapbeans 70% harvested, 72% 1998, 54% avg.; 35% fair, 65% good. Sorghum 98% planted, 89% 1998, 87% avg.; 5% very poor, 6% poor, 2% fair, 87% good. Sweet potatoes 100% planted, 100% 1998, 93% avg.; 4% poor, 19% fair, 77% good. Tomatoes 79% harvested, 71% 1998, 71% avg.; 23% fair, 77% good. Watermelons 49% harvested, 55% 1998, 57% avg.; 2% very poor, 15% good, 39% fair, 41% good, 3% excellent. Winter wheat 100% harvested, 100% 1998, 96% avg.

SOUTH DAKOTA: Topsoil 3% short, 64% adequate, 33% surplus. Subsoil 2% short, 66% adequate, 32% surplus. Continued wet conditions hamper fieldwork, as most producers are fighting weed problems. Crops continue to progress although many fields are showing signs of too much water. Many counties across the State have suffered significant hail damage. Corn 26 in. height, 29 in. 1998, 25 in. avg.; 75% 1st cultivation, 87% 1998, 82% avg.; 21% 2nd cultivation, 45% 1998, 35% avg.; 0% tasseled, 4% 1998, 1% avg. Winter rye 3% poor, 14% fair, 47% good, 36% excellent. Flaxseed 1% good, 17% fair, 65% good, 17% excellent. Alfalfa 3% poor, 15% fair, 54% good, 28% excellent. Sunflower 1% very poor, 4% poor, 21% fair, 57% good, 17% excellent. Winter wheat 100% headed, 99% 1998, 98% avg.; 78% turning color, 75% 1998, 53% avg.; 6% ripe, 23% 1998, 8% avg. Spring wheat 97% in boot stage, 96% 1998, 88% avg. Spring wheat 27% turning color, 35% 1998, 13% avg. Oats 91% in boot stage, 96% 1998, 88% avg.; 14% turning color, 24% 1998, 13% avg. Barley 95% in boot stage, 95% 1998, 86% avg.; 17% turning color, 40% 1998, 15% avg. Winter rye 99% headed, 100% 1998, 99% avg.; 45% turning color, 55% 1998, 41% avg.; 0% ripe, 38% 1998, 13% avg. Flaxseed 22% blooming, 52% 1998, 29% avg. Sunflower 99% seeded, 99% 1998, 98% avg. Alfalfa 82% 1st cutting, 81% 1998, 82% avg.; 12% 2nd cutting, 16% 1998, 6% avg. Other hay 39% harvested, 36% 1998, 34% avg. Cattle 32% excellent, 62% good, 6% fair. Sheep 51% excellent, 46% good, 3% fair. Stock water 70% adequate, 30% surplus.

TENNESSEE: Days suitable for fieldwork 3. Topsoil 2% very short, 5% short, 67% adequate, 26% surplus. Subsoil 1% very short, 8% short, 71% adequate, 20% surplus. Corn 69% tasseled, 65% 1998, 58% avg.; 1% very poor, 2% poor, 15% fair, 55% good, 27% excellent. Tobacco 2% very poor, 6% poor, 34% fair, 43% good, 15% excellent. Pasture feed 3% very poor, 11% poor, 32% fair, 49% good, 5% excellent. Alfalfa 35% 2nd cutting, 44% 1998, 55% avg.; 3% poor, 25% fair, 59% good, 13% excellent. Other hay 1% very poor, 7% poor, 33% fair, 50% good, 9% excellent. Cattle 1% very poor, 5% poor, 25% fair, 60% good, 9% excellent. Crop conditions throughout the State continue to improve as crops respond well to recent widespread showers. All major row crops, pasture land, hay fields improved from the previous week. Recent moisture has been especially beneficial to the corn crop during the critical tasseling stage. Tobacco was rated in mostly good condition despite problems with both disease and insects. Producers mainly used the three days suitable for fieldwork last week to apply herbicides, as weeds have become more of a problem. Some crops grown in low lying fields were beginning to show signs of stress due to the heavy rains over the last week to ten days.

TEXAS: Summer weather across State with hot, humid conditions, only scattered light showers. Combined with recent rain over past couple of weeks, crops made excellent progress. Haying activity very active. Livestock remained good condition across State. Ranges, pastures made good progress, although grasshoppers continued to cause damage.

Crops: Small Grains: Harvest moved rapidly in High Plains as fields dried out quickly from recent wet weather. Yields continued good levels, however scattered fields had lower yields due to hail damage. Most harvest completed in low plains, north central. Corn: High Plains corn continued to show very good progress. Irrigation active as hot temperatures caused quick drying. Fields matured rapidly in Blacklands, central, prospects good. Grasshoppers have caused some damage to leaves on stalks. Fields have dried down along Upper Coast, Coastal Bend where harvest will begin very soon. Harvest increased into additional fields in the Rio Grande Valley. 56% doughing, 49% 1998, 47% avg. 42% dented, 37% 1998, 28% avg. 12% mature, 7% 1998, 4% avg. 1% harvested, 1% 1998, 0% avg. Cotton: Stands in Plains recovering from hail, high winds, made good progress last week. Warmer temperatures aided progress. Most fields squaring. Recent rains have been beneficial, more open, hot weather needs to continue. Progress also good in Blacklands, Central where bolls were setting. Insect problems light to moderate; some spraying occurred. Fields in Trans Pecos off to slow start but made good progress last week. Few fields defoliated in Coastal Bend while bolls most fields continued to open rapidly. Harvest should begin soon in the Rio Grande Valley where first bale of 1999 crop U.S. cotton picked. Bolls continued open rapidly along Upper Coast, some small bolls, late squares shedding. 3% open bolls, 5% 1998, 3% avg. Peanuts: Fields grew well in Plains, North Central, need continued open, sunny conditions for further improvement. Late planted fields emerged good stands. Irrigation active parts South Central where fields made good progress except for scattered disease problems. Spraying fungicides occurred in some fields. Rice: Disease increased many fields along Upper Coast due recent rains; producers busy spraying fungicides. Some early planted fields were drained in preparation for harvest. Sorghum: Planting winding down High Plains. Growth on early planted fields active. Fields began head out in Low Plains. Progress good in Blacklands, Central where fields rapidly matured. Harvest again full swing in Coastal Bend, Rio Grande Valley as fields dried from previous rain. Fields continued turn color along Upper Coast where few early fields harvested. 35% turning color, 39% 1998, 43% avg. 23% mature, 26% 1998, 22% avg. 16% harvested, 6% 1998, 6% avg. Soybeans: Late planted fields in Plains emerged to good stands. Early planted fields made good progress. Few fields of early variety beans harvested with many fields defoliating in preparation for harvest. Other Crops: Oats 89% harvested, 84% 1998, 82% avg. Sunflowers 89% planted, 85% 1998, 84% avg.

Commercial Vegetables: Rio Grande Valley, land preparations continued under open conditions. San Antonio-Winter Garden area, a few fields of watermelons harvested. East, harvest resumed most fields after lengthy delays due wet conditions. Disease problems increased many fields. High Plains, most fields escaped recent hail damage, made good progress. Trans Pecos, onion harvest continued, cantaloup harvest should begin soon. Peaches: Production early varieties in Hill Country continued, however sizes remained small. East production remained low. Pecans: Spraying occurred for second generation casebearers South, Central. Rains have been beneficial all areas, minimized normal June nut drop. Irrigation activity light to this point. Progress remained good across State.

Range and Livestock: Native ranges, pastures continued good for this time of year. Haying activity rapidly increased with open, hot weather. Grasshoppers continued to plague grasses, plants. Livestock conditions remained good, prices showed some strength.

UTAH: Days suitable for fieldwork 7. Topsoil 3% very short, 38% short, 57% adequate, 2% surplus. Subsoil 2% very short, 27% short, 69% adequate, 2% surplus. Range, pasture feed 1% very poor, 7% poor, 36% fair, 55% good, 1% excellent. Corn 21 in. height, 17 in. 1998, 22 in. avg. Spring wheat 90% headed, 72% 1998, 85% avg. Barley 87% headed, 65% 1998, 85% avg. Alfalfa hay 95% 1st cutting, 87% 1998, 92% avg.; 2% 2nd cutting, 3% 1998, 10% avg. Other hay 46% 1st cutting, 40% 1998, 40% avg. Oats 54% headed, 57% 1998, 57% avg.; harvested for hay or silage 16%, 17% 1998, 21% avg. Sweet cherries 14% picked, 21% 1998, 23% avg. Irrigation water supply 12% short, 86% adequate, 2% surplus. Stock water 4% very short, 10% short, 85% adequate, 1% surplus. Major activities included: Harvesting alfalfa hay, irrigating crops,

spraying for weeds, insects. Weather again this week was conducive for crop growth, harvesting of alfalfa. Most counties reported that crops looked good, but weeds, insects seemed to be a major problem this year. Counties continued to complain about the grasshoppers, crickets, as well as other insects, weeds, disease.

VIRGINIA: Days suitable for fieldwork 5.9. Topsoil 34% very short, 30% short, 36% adequate. Subsoil 43% very short, 32% short, 25% adequate. Rainfall was scattered across the Commonwealth last week bringing some relief to farmers. Crop conditions improved somewhat, however, signs of the recent dry weather remain visible. Extreme heat is now as much of a concern as lack of significant rainfall. Temperatures across the State 5 to 10° above normal. Pasture feed 28% very poor, 32% poor, 31% fair, 9% good. Livestock 10% poor, 28% fair, 57% good, 5% excellent. Hay, Other 39% very poor, 30% poor, 23% fair, 8% good. Hay, alfalfa 7% very poor, 27% poor, 45% fair, 19% good, 2% excellent. Corn for grain 98% emerged, 98% 1998; 19% silked, 21% 1998, 14% avg.; 12% very poor, 22% poor, 36% fair, 27% good, 3% excellent. Soybeans 68% planted, 83% 1998, 77% avg.; 57% emerged, 72% 1998; 5% very poor, 15% poor, 40% fair, 36% good, 4% excellent. Winter wheat 65% harvested, 66% 1998, 58% avg. Barley 97% harvested, 94% 1998, 86% avg. Tobacco, flue cured 22% fair, 52% good, 26% excellent. Tobacco, burley 3% very poor, 11% poor, 20% fair, 41% good, 25% excellent. Tobacco, dark fire cured 7% poor, 40% fair, 41% good, 12% excellent. Tobacco, sun cured 25% poor, 25% fair, 50% good. Peanuts 34% pegged, 55% 1998; 12% fair, 72% good, 16% excellent. Cotton 65% squaring, 61% 1998; 6% poor, 29% fair, 53% good, 12% excellent. Summer potatoes 23% harvested, 16% 1998, 14% avg.; 3% very poor, 2% poor, 31% fair, 52% good, 12% excellent. Apples, all 12% poor, 33% fair, 44% good, 11% excellent. Peaches 22% very poor, 9% poor, 26% fair, 33% good, 10% excellent. Corn acres are beginning to tassel, silk in most areas even though some producers have reported that the plants remain shorter than normal. Planting of soybean acreage remains slightly behind schedule. Progress will pick up as farmers finish harvesting small grains. Additional rainfall is needed for proper germination of soybeans. Producers are busy harvesting wheat, barley. Many producers continue to report higher than expected yields. Condition of tobacco acreage improved slightly from the previous week. Some tobacco producers have begun topping their plants. Cotton, peanut acreage remained in mostly good condition. Both crops are hardy by nature, able to withstand periods of dry, hot weather. Peanut plants are beginning to bloom with a few already showing pegs. Most cotton plants have begun to show squares. Hay production continues with most producers reporting low yields from the second cutting. Low yields, combined with reduced quality, have caused great concern among livestock producers who purchase hay. Pastures improved with scattered showers but are not adequate to sustain current livestock conditions. Surface water sources are being depleted at a faster rate than rainfall can replenish. An increase of well digging has been reported in many areas. Vegetable harvest is in full swing on irrigated acres. Some blossom end rot has been reported in tomatoes. Potatoes are being harvested with good yield, quality. Harvest of snap beans, sweet corn, cucumbers, squash, peppers are also underway. No major problems with yield or quality have been reported.

WASHINGTON: Days suitable for fieldwork 4.6. Topsoil 16% very short, 35% short, 49% adequate. Subsoil 13% very short, 55% short, 31% adequate, 1% surplus. Winter wheat farmers welcomed the precipitation that fell last week. Rainfall coupled with cooler temperatures continued to improve the condition of the crop. Winter wheat, dryland 7% very poor, 17% poor, 45% fair, 29% good, 2% excellent; irrigated 100% good. Spring wheat, dryland 12% very poor, 33% poor, 46% fair, 9% good; irrigated 100% good.; 85% headed, 98% 1998, 85% avg. Barley, dryland 8% very poor, 34% poor, 50% fair, 8% good; irrigated, 100% good; 85% headed, 98% 1998, 90% avg. Spring cereal grain conditions continued improved last week due to the rainfall, cooler weather. Growth and development progress was slightly behind 1998 and average. Hay, other roughage supplies 2% very short, 11% short, 53% adequate, 34% surplus. Range, pasture feed 9% very poor, 23% poor, 37% fair, 26% good, 5% excellent. Precipitation, cool temperatures across the State slowed the second cutting of alfalfa as the 1st cutting came to an end. Cool weather was also beneficial for the pasture conditions. Potato harvest begun, although it was slightly behind past years. Sweet corn growth is slow due to the lack of heat units. Strawberry, raspberry harvests were both underway with raspberries slow to ripen. Blueberry growers were predicting a later harvest than normal. Cherries were still

being harvested with some disappointing yields. Pears, apples continue to develop well.

WEST VIRGINIA: Days suitable for fieldwork 5.7. Topsoil 54% very short, 37% short, 9% adequate. Dry weather, low moisture supplies continue to deteriorate hay, pasture conditions throughout the State. Wheat 3% very poor, 7% poor, 42% fair, 48% good; 50% harvested, 42% 1998, 21% avg. Hay 14% very poor, 36% poor, 38% fair, 12% good; 1st cut 93%, 79% 1998, 81% avg.; 11% 2nd cut, 7% 1998, 6% avg. Corn 16% very poor, 43% poor, 30% fair, 11% good; 6% silked, 1% 1998, 1% avg. Oats 8% very poor, 16% poor, 67% fair, 9% good; 88% headed, 90% 1998. Soybeans 6% very poor, 22% poor, 62% fair, 10% good; 2% blooming, 3% 1998. Tobacco 20% very poor, 27% poor, 41% fair, 12% good. Apples 8% poor, 44% fair, 48% good. Peaches 43% fair, 57% good. Cattle 6% poor, 43% fair, 49% good, 2% excellent. Sheep 11% poor, 44% fair, 42% good, 3% excellent.

WISCONSIN: Days suitable for fieldwork 4.7. Soil moisture 1% very short, 10% short, 77% adequate, 12% surplus. Recent rains over most of the State teamed up with the warm temperatures to help shoot up the corn crop. Planting dates, soil moisture conditions have created a large variation in its height. A Fond du Lac County reporter stated corn varied from 4.00 to 72.00 in. his county. In many areas in the State the corn crop was being cultivated, fertilized between the showers. There were few pest, weed problems reported. Early planted soybeans are beginning to bloom. Soybean 1% poor, 16% fair, 57% good, 26% excellent. Second crop hay harvest continued last week. Humidity, frequent rains prevented farmers from making good quality dry hay. Many reports were that the quality was good, the quantity was average. One reason for the lack of quantity is the abundance of leafhoppers in the fields. First crop alfalfa 97% harvest, 99% 1998, 92% avg.; 2nd crop 19% harvest, 21% 1998, 6% avg. Oat, winter wheat crops are both doing well. There was some lodging reported from the past week's storms, yields are looking good for both. Both have also been reported as beginning to turn color. Winter wheat 7% fair, 55% good, 38% excellent. Oatlage was reported to have excellent quantity, quality. Cranberries as past full bloom with one of the best bloom periods in years. Some sweet corn reported as tasseling in Sauk county. Pasture feed 3% poor, 13% fair, 63% good, 21% excellent.

WYOMING: Days suitable for fieldwork 6.8. Topsoil 1% very short, 29% short, 70% adequate. Subsoil 1% very short, 20% short, 74% adequate, 5% surplus. Winter wheat 83% turning color, 77% 1998, 68% avg. Spring wheat 77% boot, 92% 1998, 81% avg.; 62% headed, 63% 1998, 55% avg.; 4% turning color, 25% 1998, 20% avg. Barley 65% headed, 68% 1998, 69% avg.; 7% turning color, 15% 1998, 13% avg. Oats 33% headed, 54% 1998, 47% avg.; 5% turning color, 7% 1998, 7% avg. Dry bean 2% bloom, 2% 1998, 7% avg. Corn 24 in. height, 20 in. 1998, 22 in. avg. Alfalfa 56% 1st cutting, 45% 1998, 55% avg. Other hay 22% cut, 22% 1998, 24% avg. Range, pasture feed 2% fair, 63% good, 35% excellent. Stock water 98% adequate, 2% surplus. Livestock good to excellent. Below normal temperatures for most of the week.