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Weekly Weather and Crop Bulletin State Stories

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ALABAMA: Days suitable for fieldwork 6.1. Topsoil 43% very short, 33% short, 24% adequate. Hot, dry weather continued to cause crop conditions to be rated mostly fair to good. Soil moisture very short to short. Corn dough 91%, dented 88%, 99% 1998, 98% avg.; mature 76%, 84% 1998, 80% avg.; harvested 35%, 44% 1998, 32% avg.; 1% very poor, 3% poor, 24% fair, 49% good, 23% excellent. Pasture feed 19% very poor, 25% poor, 36% fair, 19% good, 1% excellent. Livestock 1% very poor, 6% poor, 46% fair, 39% good, 8% excellent.

ALASKA: Days suitable for fieldwork 2.3. Topsoil 100% adequate. Subsoil 5% short, 95% adequate. Weather conditions cloudy, damp. Daytime high temperatures were mostly in the 60s. Nighttime lows were mostly in the 40s. Some lows in the upper twenties were reported in the Tanana, Copper River Valleys. Oats 5% turning color or earlier, 95% ripe. Barley 85% ripe or earlier, 5% swathed, 10% harvested. Second cutting hay harvest 5% complete. Commercial storage potato harvest just starting. Wind damage to crops 75% none, 20% light, 5% moderate. Major activities included: Cutting hay, harvesting vegetables, grains, hay, killing vines on potato fields.

ARIZONA: Pasture conditions steadily improved throughout the State last month with the continuing summer monsoons. Pastures throughout the state ranged from excellent to good condition. Livestock were reported in good condition. Many ranchers are reporting widespread rains and no supplemental feeding. Ranges are greening up, but need more time to bulk. Both stock water, soil moisture were adequate. Insect damage was light. Overall, Northern grazing conditions improved in August going from good to fair in July to excellent to good condition. All pastures were in excellent to good condition. Cattle were reported in good condition. Stock water supplies, soil moisture were both reported as adequate. Many ranchers are reporting drought conditions have ended with the arrival of widespread rains. Insect damage was light. Central areas pasture conditions were in good to fair condition overall. All pastures were reported as being in good to fair condition. Livestock conditions were fair to good and stock water was reported as adequate while soil moisture was short to adequate. Ranchers reported that the ranges had received heavy rains and grasses were greening up, but need more time to bulk. Insect damage was light. Southern pasture conditions at all elevations were in excellent to good condition. Livestock conditions were good to excellent with no supplemental feeding reported for the month of August. Both stock water, soil moisture were short to adequate, insect damage was very light. Cotton continues to progress. Alfalfa harvest activity was reported as 27% not being harvested, 6% light, 33% moderate, 34% active. Alfalfa 4% poor, 19% fair, 65% good, 12% excellent.

ARKANSAS: Days suitable for fieldwork 7. Topsoil 50% very short, 41% short, 8% adequate, 1% surplus. Temperatures remained well above average for the week. Some areas received welcomed rainfall last week, not enough to end the drought conditions. Eastern areas received little if any rain. Rain was needed for pasture growth. Irrigated crops were reported in good condition, dryland crop conditions declined. Livestock were reported in fair condition, but the hot, humid weather, lack of grazing was causing deaths in poultry, livestock. Many farmers were having to feed hay because of the drought. Main farm activities were: Fertilizing cotton, corn, rice, warm season forages, finishing harvesting hay and

planning for fall pastures. Other activities: Brush hogging, irrigating corn, soybeans, cotton, sorghum, draining of rice, cultivating cotton, spraying cotton for insects, other fields for insects and weeds, getting fields ready for wheat planting, starting corn, sorghum, pea, rice harvesting, scouting for and treating webworms in soybeans, treating crop lands for armyworms, spraying of rice, cotton, soybean fields for weeds, tree fruit and small fruit harvesting, melon harvesting, dusting and ear tagging cattle for external parasites, giving Brucellosis vaccinations, pregnancy checking spring bred cows, selling cull cows, and weaning calves. Cotton 42% opening bolls; 10% poor 31% fair 43% good 16% excellent. Soybeans 99% bloomed, 88% setting pods, 5% shedding; 7% very poor 16% poor 32% fair 33% good 12% excellent. Sorghum 100% headed, 93% turning color, 53% mature, 10% harvested; 2% very poor 12% poor 39% fair 39% good 8% excellent. Alfalfa 10% very poor 20% poor 45% fair 25% good. Other hay 15% very poor 35% poor 36% fair 14% good. Range, pastures feed 22% very poor, 39% poor, 31% fair, 8% good

CALIFORNIA: Field activities progressed normally under favorable conditions in most areas. Seedbed preparations for fall-seeded small grains continued. Rice heading was ongoing, although development remained behind normal. Cotton bolls were opening in the southern San Joaquin Valley, growers were spraying for aphids, armyworms, leafhoppers, lygus and mites. Garbanzo and black eye beans were being harvested; later maturing fields were treated for insects. Safflower harvest was nearing completion in southern counties. Seed alfalfa harvest was rapidly winding down. Sunflowers were sprayed for weeds, vineseed was harvested in the Sacramento Valley. Sugar beets were being harvested in the San Joaquin Valley; less mature sugar beet fields were treated for armyworms. Corn silage was active in most growing areas. Alfalfa and Sudan grass were cut for hay or green chopped. Some alfalfa fields were treated for armyworms. Harvest of grapes for fresh use gained momentum in the San Joaquin Valley. Varieties picked included Red Globe, Flame Seedless, Thompson Seedless. Grapes for raisins were laid. Picking of early wine grapes continued. Other cultural activities included irrigation, extensive weed control in vineyards and orchards. Harvest of stone fruit was slowing. Picking of early variety apples was active. Bartlett pear harvest was active in Lake, Mendocino counties. Asian pear harvest was active in the San Joaquin Valley. Harvest of early variety almonds continued. Walnuts were treated for codling moth. Some early varieties were harvested. Valencia oranges, lemons were picked in southern areas. Olives were maturing well. Central valley farmers were planting strawberries. Harvest of vegetable commodities continued. Melons were harvested; some fields were treated for beetle infestations. Some tomato fields were treated for worms, aphids. Fresh, processing tomatoes were being harvested. String bean, lima bean harvests began in the Merced area. Carrots, onions, sweet potatoes were dug. Fall broccoli, cauliflower, lettuce planting was underway. Emerged fields from earlier plantings were being irrigated. Ground preparation was underway for fall planting of spinach. Among the many vegetable crops harvested were: Cucumbers, sweet corn, okra, eggplant, peppers, cherry tomatoes, squash, radishes. Irrigated pastures remain in fair to good condition. Non-irrigated pastures were rated poor to fair, with some in very poor condition. Lightning fires in northern areas have destroyed many thousands of acres of dry rangeland. Consequently, some winter cattle ranches will be stocked later than normal, after new grass becomes established, or hay supplements will need to be provided. Dry rangeland pastures in central areas were in poor to fair condition, depending how heavily they were

grazed last season, or if cattle were run through the summer. Cattle, primarily feeder, continued to be shipped from summer pastures to market.

COLORADO: Days suitable for fieldwork 5.7. Topsoil 7% very short, 13% short, 67% adequate, 13% surplus. Subsoil 6% very short, 22% short, 66% adequate, 6% surplus. Moderate to heavy thunderstorms accompanied by high winds and hail received in scattered localities at beginning of week and on the weekend, causing some crop damage. Winter wheat 2% seeded, 4% 1998, 3% avg. Spring wheat 97% turning color, 85% 1998, 95% avg.; 49% harvested, 51% 1998, 58% avg.; 11% poor, 16% fair, 54% good, 19% excellent. Spring barley 74% harvested, 77% 1998, 68% avg. Oats 68% harvested, 74% 1998, 72% avg. Corn silage 2% harvested, 5% 1998, 1% avg. Dry onions 28% harvested, 41% 1998, 35% avg.; 1% very poor, 5% poor, 15% fair, 62% good, 17% excellent. Sugar beets 1% very poor, 3% poor, 15% fair, 54% good, 27% excellent. Dry beans 17% cut, 17% 1998, 13% avg.; 8% harvested, 3% 1998, 7% avg.; 1% very poor, 3% poor, 12% fair, 64% good, 20% excellent. Summer potatoes 47% harvested, 24% 1998, 35% avg.; 1% very poor, 6% poor, 12% fair, 60% good, 21% excellent. Fall potatoes 1% harvested, 2% 1998, 1% avg.; 7% poor, 18% fair, 45% good, 30% excellent. Alfalfa 94% 2nd cutting, 96% 1998, 92% avg.; 49% 3rd cutting, 32% 1998, 29% avg.; condition 5% very poor, 6% poor, 20% fair, 54% good, 15% excellent. Range, pasture feed in mostly good condition.

DELAWARE: Days suitable for fieldwork 4.5. Topsoil 15% very short, 45% short, 40% adequate. Subsoil 23% very short, 61% short, 16% adequate. Field corn 18% very poor, 31% poor, 26% fair, 18% good, 7% excellent; 85% dough, 87% 1998, 86% avg.; 70% dented, 66% 1998, 64% avg.; 35% mature, 20% 1998, 17% avg.; 65% harvested for silage, 28% 1998, 28% avg. Soybeans 9% very poor, 22% poor, 27% fair, 42% good; 93% bloomed, 72% 1998, 80% avg.; 60% setting pods, 56% 1998, 63% avg.; 12% turned, 9% 1998, 4% avg.; 15% shedding leaves, 13% 1998, 12% avg. Sorghum 2% poor, 69% fair, 29% good; 95% headed, 73% 1998, 87% avg.; 35% turned, 23% 1998, 14% avg. Sweet corn 79% harvested, 69% 1998, 84% avg. Snap beans 77% harvested, 71% 1998, 78% avg. Cantaloupes 88% harvested, 76% 1998, 85% avg. Watermelons 80% harvested, 67% 1998, 76% avg. Cucumbers 77% harvested, 74% 1998, 85% avg. Lima beans 45% harvested, 40% 1998, 41% avg. Tomatoes 72% harvested, 69% 1998, 76% avg. Potatoes 82% harvested, 79% 1998, 86% avg. Apples 6% fair, 94% good; 39% harvested, 34% 1998, 33% avg. Peaches 89% harvested, 78% 1998, 85% avg. Clover, other hay 88% 3rd cutting, 71% 1998, 71% avg; 31% 4th cutting, 26% 1998, 31% avg. Alfalfa hay 35% 4th cutting, 24% 1998, 20% avg. Hay supplies 10% very short, 51% short, 39% adequate. Pasture feed 4% very poor, 58% poor, 27% fair, 11% good. Activities: Much needed rain fell in State, pasture greening up, some allowing farmers to start harvesting 4th cutting of hay.

FLORIDA: Topsoil moisture throughout State mostly short to adequate. Scattered showers dropped from traces to over 4.00 in. Mostly clear skies, some breezy conditions prevailed at end of week as Hurricane Dennis passed by eastern coast drawing moisture from atmosphere. Rain caused by hurricane's feeder bands caused no significant damage to crops. Temperatures ranged from highs 90s to lows 60s, 70s with averages normal to 2 degrees above for week. Peanut harvesting starting. Tobacco harvest complete. Tobacco marketing active. Soybean, sugarcane condition normal. Haying active. Cotton starting to cut out, bolls starting to open. Army worms showing up. Peanut fair 21%, good 78%, excellent 1%. Threat of bad weather from Hurricane Dennis delayed some vegetable planting with rain bands replenishing soil moisture in most areas. Quincy--Oldest tomato plants at first string, beginning to bloom. Palmetto-Ruskin--Pepper planting started with crop in good condition. Planting of cherry, plum tomatoes increasing. Planting of round tomato varieties steady. Watermelon planting steady with crop in fair to good condition. Eggplant fair to good condition. East Coast--Eggplant growing well, some light planting continues. Pepper transplanting active with crop in good condition. Tomato planting continues as weather permits. Producers preparing land for planting of snap beans, squash, sweet corn. Southwest--Pepper, watermelon planting getting underway with condition fair. Planting of round, cherry, plum tomatoes starting. High temperatures boosting plant growth. Dade--Snap bean planting delayed as Dennis passed by with activity to start over next few days. Okra harvesting active, good quality available. Producers expect to start planting eggplant within next 7 to 10 days.

Adequate rain most citrus areas, some irrigation on high sand hills. Abundant new growth most trees. New crop sizing well with help of summer rains. Packing houses testing fruit for early shipments. Caretakers cutting cover crops, spraying, fertilizing, pushing out dead trees, resetting. Pasture feed fair 10%, good 85%, excellent 5%. Cattle; fair 15%, good 85%. Range, cattle in fair to good condition in Panhandle, northern areas of Peninsula. Army worms active in central, west central areas. Central; stock pond water levels still low. West central; pastures fair, good grass growth. Southeast; standing water in several locations from unseasonable rains of 9 - 10 in.

GEORGIA: Days suitable for fieldwork 5.8. Soil moisture 19% very short, 37% short, 42% adequate, 2% surplus. Soil moisture conditions improved last week. Scattered showers provided temporary relief for many counties. Corn 61% harvested for grain, 67% 1998, 54% avg. Hay 15% very poor, 31% poor, 35% fair, 18% good, 1% excellent. Peanuts 4% dug, 1% 1998, 3% avg. Sorghum 11% very poor, 23% poor, 34% fair, 30% good, 2% excellent; 20% harvested for grain, 23% 1998, 17% avg. Soybeans 94% blooming, 97% 1998, 97% avg. Tobacco 88% harvested, 75% 1998, 90% avg. Apples 7% poor, 33% fair, 53% good, 7% excellent; 15% harvested, 31% 1998, 26% avg. Pecans 4% very poor, 16% poor, 35% fair, 38% good, 7% excellent. Corn harvest continued ahead of the five year average pace with slightly improved condition. Soybean leaf drop continued, however, the crop condition improved. Sorghum condition improved. Peanut digging occurred in some fields as spraying of fungicides occurred in other fields. There were some reports of disease showing up in peanuts. Overall peanut condition improved slightly last week. Cotton was opening at a rapid pace last week, caught up to last year's pace. Some cotton fields were being sprayed. Cotton condition changed slightly. Tobacco harvest continued ahead of last year's pace. Pastures and hay fields benefitted from the showers. There were reports of Armyworms in pastures and hay fields. The pecan condition slightly worsened last week. Rain is needed to promote kernel filling. Apple harvest continued behind last year and the five year average pace. Apple condition declined as 60% of the crop was in good to excellent condition compared to 66% the previous week. Other activities included preparing machinery for harvest, routine care of livestock.

HAWAII: Weather conditions were generally favorable for agriculture. Mostly sunny skies, light to moderate winds aided crop progress. Rainfall was generally light, limited to windward areas. Banana fields in good to fair condition. Harvesting very active. Spraying intensified in some areas to combat diseases. Papaya orchards in mostly good condition. Warm weather favorable for fruit ripening. Some areas in need of more rain. Head cabbage harvesting was steady. Irrigation is heavy to combat dryness. Overall crop condition was good. Tomato harvesting active. Crop in fair to good condition.

IDAHO: Days suitable for fieldwork 6.9. Topsoil 8% very short, 34% short, 57% adequate, 1% surplus. Above normal temperatures across State. Precipitation slows grain harvest in south central, eastern areas. Irrigation supply 1% poor, 14% fair, 26% good, 59% excellent. Alfalfa hay 96% 2nd cutting, 94% 1998, 91% avg.; 48% 3rd cutting, 39% 1998, 30% avg. Oats 55% harvested for grain, 58% 1998, 57% avg. Mint 72% harvested, 86% 1998, 84% avg. Dry peas 74% harvested, 92% 1998, 76% avg. Dry beans 8% harvested, 5% 1998, 10% avg. Corn 5% harvested for silage, 1% 1998, 1% avg. Sweet corn 52% harvested, 30% 1998, 40% avg. Lentils 60% harvested, 76% 1998, 56% avg. Onions 5% harvested, 13% 1998, 14% avg. Peaches 42% harvested, 47% 1998, 59% avg. Prunes, plums 36% harvested, 18% 1997, 31% avg. Apples 2% harvested, 0% 1998, 1% avg. Hops 5% harvested, 23% 1998, 13% avg. Potatoes with vines dead/kill 11%, 11% 1998, 20% avg. Winter wheat harvested 78%, 93% 1998, 88% avg. Activities: Monitoring for insects and disease, preparing for potato harvest, harvesting cereal grains, hay, mint, lentils, dry peas, oats, onions, hops sweet corn, fruit.

ILLINOIS: Days suitable for fieldwork 5.4. Topsoil 14% very short, 36% short, 48% adequate, 2% surplus. Though scattered showers were reported across most of the State last week, the southern districts are suffering from continued dry conditions, where topsoil moisture is mostly short to very short. Soybeans in the south, especially double crop, are deteriorating quickly, with some major losses reported. Corn harvest has begun in some areas. There are reports of stock rot, lodging and

significant ear mold problems occurring in fields that were damaged by the storms that went through central Illinois a couple weeks ago. Other activities last week included baling hay, chopping silage, hauling grain, preparing harvest equipment. Alfalfa third cut 79%, 68% 1998, 60% avg.

INDIANA: Days suitable for fieldwork 5.9. Topsoil 28% very short, 43% short, 29% adequate. Subsoil 35% very short, 47% short, 18% adequate. Topsoil, subsoil remain dry. Corn harvest underway, southwest areas. Rain some areas. Most of the State received less than one-half inch. Corn, soybean condition improved. Corn 34% good to excellent. Soybean condition 31% good to excellent. Pastures dried up, most areas. Range, pasture feed 28% very poor, 37% poor, 28% fair, 7% good. Feeding hay continues. Third cutting alfalfa 95% complete, 75% 1998. Tobacco harvest 45% complete, 21% 1998, 21% avg. Activities: Selling corn & soybeans, cleaning grain bins, preparing equipment, harvesting tobacco, mowing roads, baling hay, harvesting vegetables, monitoring fields, painting buildings, caring for livestock.

IOWA: Days suitable for fieldwork 5.7. Topsoil 7% very short, 24% short, 65% adequate, 4% surplus. Subsoil 6% very short, 21% short, 67% adequate, 6% surplus. Rains fell across most of the State early week, benefitted some crops, too late for others. Very dry conditions continue in northwest & north-central districts. Corn 89% dough stage, 90% 1998, 77% avg.; 64% dent stage, 65% 1998, avg. 42%, mature stage 8%, 1998 9%, avg. 4%. Corn 2% very poor, 6% poor, 22% fair, 48% good, 22% excellent. Soybeans 6% leaves changing color, 7% 1998, 7% avg.; 3% very poor, 6% poor, 21% fair, 49% good, 21% excellent. Livestock; no disease problems reported. Range, pasture feed 3% very poor, 13% poor, 32% fair, 41% good, 11% excellent. Alfalfa 61% 3rd cutting, 52% 1998, 47% avg. Clover hay 92% 2nd cutting, 93% 1998, 88% avg. Hay 2% very poor, 7% poor, 28% fair, 47% good, 16% excellent.

KANSAS: Days suitable for fieldwork 6.6. Topsoil 18% very short, 47% short, and 35% adequate. Subsoil 10% very short, 39% short, 50% adequate, and 1% surplus. Hot, dry weather conditions continued across much of the State last week. Rain and cooler temperatures are desperately needed for dryland crops, particularly soybeans, milo. Continued hot weather and lack of moisture is causing soil moisture levels in many areas of the State to be depleted. East-central, southeast districts are the driest where topsoil moisture is over 80% short to very short. Soybeans blooming 98%, 100% 1998, 99% avg. Sunflower 3% poor, 15% fair, 73% good, 9% excellent; blooming 97%, 99% 1998. Ray flowers dry 46%, 58% 1998. Bracts turning yellow 18%, 27% 1998. Third cutting alfalfa 97%, 100% 1998, 97% avg. Fourth cutting alfalfa 48%, 47% 1998, 34% average. Crop insect populations continue to be rated at mostly light to none. Corn borers, grasshoppers, soybean stem borers, soybean leaf beetles, earworms, mites in milo, sunflower head moths are among the insects reported. Last week producers were busy preparing wheat fields for seeding, planting new alfalfa, fertilizing, irrigating, harvesting silage, putting up hay, harvesting corn, milo, preparing machinery for harvest. Sunflower harvest also began in a few areas with good yields reported. Hay, forage supplies 4% short, 87% adequate, 9% surplus. With the continued hot, dry weather, pasture conditions are deteriorating. In some areas, forage is running short, forcing ranchers to move their cattle off of grass. Some producers have begun feeding hay. Yearlings continue to be moved from pastures into feedlots. Despite the dry weather, stock water supplies remain mostly adequate.

KENTUCKY: Days suitable for fieldwork 5.6. Topsoil 56% very short, 32% short, 11% adequate, 1% surplus. Subsoil 65% very short, 31% short, 4% adequate. Rainfall eastern areas somewhat relieved drought stress. Crops in remainder of State in desperate need of moisture. Corn harvesting progressing in western areas. Soybeans severely stressed with double crop beans in a critical stage. Burley tobacco cut 55%. Dark tobacco cut 67%. Tobacco 17% very poor, 30% poor, 33% fair, 18% good, 2% excellent. Tobacco drying too fast in barns. Pasture feed 37% very poor, 35% poor, 23% fair, 5% good. Farmers continue to feed hay due to poor pasture conditions. Fall hay harvest may be minimal. Hay condition 32% very poor, 36% poor, 23% fair, 8% good, 1% excellent. Corn being cut for silage, soybeans being cut for hay.

LOUISIANA: Days suitable for fieldwork 6.5. Soil moisture 45% very short, 31% short, 22% adequate, 2% surplus. Corn 96% harvested, 88%

1998, 75% avg.; harvest was almost complete. Some cotton did not reach a sufficient height due to the heat, dry conditions. Hay 65% final cutting, 57% 1998, 71% avg. Rice 92% ripe, 91% 1998, 81% avg. Sorghum 73% harvested, 53% 1998, 38% avg. Soybeans 46% leaves turning, 44% 1998, 27% avg.; drying up before filling the pods, hurting yields and quality. Sugarcane 1% very poor, 1% poor, 16% fair, 49% good, 33% excellent; 74% planted, 11% 1998, 19% avg. Sweet potatoes 8% poor, 40% fair, 50% good, 2% excellent; 18% harvested, 12% 1998, 15% avg.; farmers needed rain to increase the size, potential yield of their potato crop. Livestock 2% very poor, 10% poor, 40% fair, 41% good, 7% excellent. Vegetables 13% very poor, 25% poor, 38% fair, 22% good, 2% excellent. Pastures, hay fields were wilting.

MARYLAND: Days suitable for fieldwork 4.5. Subsoil 48% very short, 36% short, 16% adequate. Topsoil 15% very short, 34% short, 48% adequate, 3% surplus. Corn 20% very poor, 25% poor, 42% fair, 12% good, 1% excellent; 74% dough, 72% 1998, 76% avg.; 51% dent, 53% 1998, 48% avg.; 20% mature, 23% 1998, 13% avg.; 7% harvested for grain, 6% 1998, 2% avg.; 40% harvested for silage, 22% 1998, 13% avg. Soybeans 10% very poor, 23% poor, 37% fair, 28% good, 2% excellent; 92% bloomed, 96% 1998, 91% avg.; 78% setting pods, 83% 1998, 76% avg. Sorghum 39% poor, 57% fair, 4% good; 30% turning color, 37% 1998, 15% avg. Tobacco 9% very poor, 20% poor, 30% fair, 37% good, 4% excellent; 84% topped, 91% 1998, 90% avg.; 41% harvested, 50% 1998, 55% avg. Snap beans 80% harvested, 81% 1998, 83% avg. Cucumbers 82% harvested, 89% 1998, 87% avg. Sweet corn 92% harvested, 90% 1998, 84% avg. Tomatoes 89% harvested, 85% 1998, 81% avg. Cantaloupes 91% harvested, 90% 1998, 90% avg. Lima beans 30% harvested, 28% 1998, 25% avg. Watermelons 89% harvested, 84% 1998, 84% avg. Peaches 94% harvested, 88% 1998, 85% avg. Apples 14% poor, 12% fair, 4% good; 27% harvested, 18% 1998, 15% avg. Clover and other hays 95% 2nd cutting harvested, 99% 1998, 93% avg.; 65% 3rd cutting, 73% 1998, 45% avg. Alfalfa 82% 3rd cutting harvested, 88% 1998, 84% avg.; 30% 4th cutting, 29% 1998, 21% avg. Pasture feed 15% very poor, 40% poor, 33% fair, 11% good, 1% excellent. Hay supplies 14% very short, 60% short, 25% adequate, 1% surplus. Activities: Corn harvesting began, continued vegetable harvesting, pastures greening up from this past week's rain.

MICHIGAN: Days suitable for fieldwork 5.0. Topsoil 5% very short, 28% short, 63% adequate, 4% surplus. Subsoil 10% very short, 36% short, 51% adequate, 3% surplus. Hay 1% very poor, 6% poor, 21% fair, 52% good, 20% excellent. Dry beans 1% very poor, 3% poor, 13% fair, 60% good, 23% excellent. Hay 96% 2nd cutting, 100% 1998, 92% avg.; 45% 3rd cutting, 53% 1998, 33% avg. Dry beans 72% turning leaves, 91% 1998, 46% avg.; 16% dropping leaves, 66% 1998, 19% avg. Soybeans 19% turning leaves, 29% 1998, 14% avg. Scattered showers came through this week, helped crops in need of rain. In the north, above normal temperatures, not enough rain have crops starting to look stressed. White mold was showing up in soybeans, farmers sprayed affected fields. In the north, second cutting of hay was finishing as third cutting of hay continued in South. Corn was maturing ahead of normal with half in the dent stage. Dry beans showing signs of maturity expecting to harvest early planted dry beans sometime next week. Spider mites were detected and were sprayed. Sugar beets suffering due to a lack of moisture, but last week's rains proved timely and the crop is now in much better condition. Cabbage for fall harvest was behind in development from the continued dry conditions. Cantaloupe harvest continued. Carrot harvest was moving quickly with excellent yields and quality. Cucumber harvest continued. Eggplant volume was steady. Onion harvest was nearing with the outlook favorable. Pepper harvest continued with excellent quality. Pumpkin maturity was slightly ahead of normal. Snap bean harvest was in full swing with good yields and quality still reported. Zucchini and summer squash harvest continued. Insect pressure was high on sweet corn. Processing tomato harvest continued with average to above average yields and very good quality. Apple fruit 2.7 inches diameter. Peach harvest neared completion in the South and was in high gear in the West Central region. Stanley plum harvest began. Grapes were coloring rapidly. Bartlett pears were harvested. Fall red raspberry harvest began.

MINNESOTA: Days suitable for fieldwork 5.1. Topsoil 4% very short, 20% short, 63% adequate, 13% surplus. Warm, humid weather pushed late season crops toward maturity, while progress on the small grain harvest was slowed by intermittent rains. Areas that were in need of rain the week before generally remained dry again this week, particularly most

of the Southwest District. Most field corn has developed to the point where additional rainfall will not be very beneficial. In contrast with corn, soybeans can still benefit from some well-timed rains where pods are still filling. Soybeans 18% turning yellow, 20% 1998, 12% avg. Winter wheat 3% seeded, 23% 1998, 14% avg. Rye 7% seeded, 25% 1998, 18% avg. Sweet corn 59% harvested, 75% 1998, 59% avg. Potatoes 10% harvested, 10% 1998, 8% avg. Grain/Hay stubble plowed 33%, 49% 1998, 30% avg. Pasture feed 4% very poor, 13% poor, 25% fair, 48% good, 10% excellent. Sugar beets 1% very poor, 6% poor, 25% fair, 49% good, 19% excellent. Sunflowers 1% very poor, 9% poor, 34% fair, 51% good, 5% excellent. Dry beans 5% very poor, 14% poor, 35% fair, 36% good, 10% excellent.

MISSISSIPPI: Days suitable for fieldwork 5.9. Soil moisture 35% very short, 34% short, 30% adequate, 1% surplus. Above average temperatures, dry conditions continue to prevail across the state. Some widely scattered showers moved across the state last week. Corn 98% mature, 93% 1998, 83% avg.; 70% harvested, 67% 1998, 65% avg.; 93% silage harvested, 85% 1998, 79% avg.; 1% very poor, 2% poor, 22% fair, 55% good, 20% excellent. Cotton 80% open bolls, 70% 1998, 49% avg.; 4% very poor, 10% poor, 28% fair, 48% good, 10% excellent. Rice 97% heading, 95% 1998, 96% avg.; 45% mature, 40% 1998 43% avg.; 9% harvested, 19% 1998, 13% avg.; 1% very poor, 5% poor, 34% fair, 45% good, 15% excellent. Sorghum 99% turning color, 95% 1998, 92% avg.; 92% mature, 68% 1998, 65% avg.; 56% harvested, 43% 1998, 27% avg.; 60% silage harvested, 64% 1998, 45% avg.; 5% very poor, 8% poor, 22% fair, 46% good, 19% excellent. Soybeans 71% turning color, 51% 1998, 35% avg.; 51% shedding leaves, 25% 1998, 17% avg.; 16% harvested, NA 1998, 1% avg.; 8% very poor, 19% poor, 27% fair, 35% good, 11% excellent. Sweet potatoes 10% harvested, 14% 1998, 16% avg.; 1% very poor, 2% poor, 41% fair, 56% good. Hay (warm-season) 83% harvested, 83% 1998, 86% avg. Watermelons 93% harvested, 92% 1998, 96% avg. Cattle, 2% very poor, 10% poor, 35% fair, 45% good, 8% excellent. Pasture feed 15% very poor, 24% poor, 41% fair, 18% good, 2% excellent.

MISSOURI: Days suitable for fieldwork 6.6. Topsoil continues to decline 51% very short, 38% short, 11% adequate. Precipitation for week ending August 29, 1999 avg. 0.29 in. Extremely dry weather continues to stress crops, pastures. Nearly all areas of the State are in urgent need of rain for soybeans, pastures. Corn 10% harvested, almost the same as 1998, eight days ahead of normal. Bootheel is well advanced with 36% of the corn harvested. Farmers that have livestock, available facilities are cutting drought damaged corn for silage. Ninety-eight percent of all soybeans have bloomed and 85% were setting pods. Lack of rain is preventing soybean pods from filling out normally. Grain sorghum is behind last year in coloring, but ahead of normal for the proportion mature due to early ripening in the Bootheel. Fifty-three percent of the cotton crop is opening bolls, 9 days ahead of 1998. Pasture feed 32% very poor, 32% poor, 27% fair, 9% good. Stock water supply conditions 16% very short, 27% short, 57% adequate. South-central reported over 85% in the very short to short condition.

MONTANA: There were 6.4 days suitable for fieldwork. A few, spotty locations reported receiving good amounts of moisture. However, weather conditions were hot and dry for a majority of the state as most locations reported either small amounts of moisture or no precipitation at all. Topsoil moisture 25% very short, 45% short, 29% adequate, and 1% surplus. Subsoil moisture 27% very short, 47% short, 26% adequate, and 0% surplus. Sugar beets condition 0% very poor, 0% poor, 17% fair, 57% good, 26% excellent. Winter wheat ripe 99%, 100% 1998, 99% avg. Winter wheat harvested 91%, 97% 1998, 87% avg. Winter wheat seeded 1%, 0% 1998, 0% avg. Spring wheat turning 97%, 100% 1998, 99% avg. Spring wheat ripe is 74%, 94% 1998, and 87% avg. Spring wheat condition 7% very poor, 19% poor, 27% fair, 40% good, and 7% excellent. Barley turning 98%, 100% 1998, 99% avg. Barley ripe is 78%, 96% 1998, 85% avg. Barley condition 12% very poor, 24% poor, 29% fair, 31% good, and 4% excellent. Oats turning 98%, 100% 1998, 99% avg. Oats ripe 81%, 96% 1998, 88% avg. Oats harvested 58%, 82% 1998, 61% avg. Oats condition 4% very poor, 11% poor, 25% fair, 48% good, 12% excellent. Corn for silage harvested 9%, 3% 1998, 5% avg. Corn condition 0% very poor, 1% poor, 15% fair, 62% good, 22% excellent. Potatoes condition 0% very poor, 0% poor, 20% fair, 57% good, 23% excellent. Dry beans harvested 12%, 8% 1998, 10% avg. Dry beans condition 0% very poor, 10% poor, 39% fair, 43% good, 8% excellent.

Alfalfa second cutting 67%, 77% 1998, 73% avg. Other hay harvested 92%, 95% 1998, 96% avg. There are reports of small grains being behind schedule and in poor condition. Reports in Glacier county are indicating short straw length and empty heads as a result of frost damage in July. Some areas of the state are reporting poor crop yields due to lack of moisture during the growing season.

NEBRASKA: Days suitable for fieldwork 7.0. Statewide, temperatures ranged from 1 to 6 degrees above normals with warmest temperatures being in Panhandle and North Central areas. Precipitation averaged from traces to 3.09 inches at Imperial. Topsoil moisture condition rated 9% very short, 42% short, 46% adequate, 3% surplus; subsoil moisture condition rated 7% very short, 34% short, 58% adequate, 1% surplus. Corn condition rated 2% very poor, 6% poor, 21% fair, 51% good, and 20%; dryland corn rated 58%, irrigated corn rated 79% in good and excellent. Corn Dough rated 91%, below 93% last year, ahead of 86% avg.; corn dented moved to 52% behind 67% last year, ahead of 45% avg.; corn matured 2%, below 3% last year, but same as avg. Gray leaf spot was noted in some corn fields. Soybeans setting pod rated 98%, behind 99% last year, but just above 97% avg.; soybean conditions rated 2% very poor, 9% poor, 29% fair, 44% good, and 16% excellent; coloring rated 6%, compared to 7% last year and 10% avg. Some fields had pod not filling, others indicated some pods were dropping. Sorghum heading near completion at 94%, just below last year's 99% and 95% avg.; turning color moved slowly to 28%, compared to 55% last year, 37% avg.; sorghum condition rated 6% poor, 31% fair, 51% good, and 12% excellent. Dry beans turning color rated 70%, well ahead of 31% last year, and 48% avg.; dry bean conditions rated 5% very poor, 10% poor, 25% fair, 56% good, and 4% excellent. Alfalfa conditions rated 2% very poor, 8% poor, 26% fair, 56% good, and 8% excellent; alfalfa third cutting was 83%, just above last year's 75%, but ahead of 685 average. Pasture and range conditions rated 3% very poor, 10% poor, 31% fair, 49% good, 7% excellent. Pastures were short and supplemental feeding required. Producer activities included moving grain, haying prairies, preparations for seeding wheat, fertilizer application, irrigating, field demonstrations of seed companies' test plots, silage cutting, marketing of yearlings, and preparations of harvest equipment

NEVADA: Only two fires were left burning as of the 30th. As a rule, temperatures throughout the State were slightly above normal, with the exception of Elko, where temperatures dipped below normal 27th, 28th. Ely lead the State in precipitation with 0.55 in., though precipitation was reported throughout the State during the early part of the week. Third cutting of alfalfa continued with some rain damage reported. Some areas are preparing for fourth cutting alfalfa. Grain harvest continued, all grains remained in fair to excellent condition. Onion harvest commenced. Mint harvest was half way through completion. Cantaloupe harvest was well over half way to completion. Garlic harvest continued. Preparations for digging potatoes, harvesting alfalfa seed were underway. Main farm, ranch activities: Harvesting alfalfa, grain harvest, alfalfa seed and potato harvest preparation, some irrigating, working cattle.

NEW ENGLAND: Days suitable for fieldwork 6.6. Topsoil 22% very short, 48% short, 30% adequate. Subsoil 43% very short, 33% short, 24% adequate. Pasture feed 26% very poor, 31% poor, 31% fair, 10% good, 2% excellent. Maine potatoes 5% harvested, 5% 1998, <5% avg.; excellent to good. Massachusetts potatoes 40% harvested, 45% 1998, 40% avg.; condition good to fair. Rhode Island potatoes 40% harvested, 15% 1998, 20% avg.; condition fair to poor. Oats in Maine 60% harvested, 50% 1998, 40% avg.; condition good to excellent. Barley in Maine 80% harvested, 55% 1998; condition good to excellent. Field corn 10% harvested, <5% 1998, <5% avg.; condition good to fair. Sweet corn 70% harvested, 65% 1998, 70% avg.; condition good to fair. Shade Tobacco 95% harvested, 100% 1998, 90% avg., condition good. Broadleaf Tobacco 99% harvested, 90% 1998, 85% avg.; condition good. Second cut hay 85% harvested, 75% 1998, 75% avg.; condition good to fair. Third cut hay 45% harvested, 25% 1998, 30% average.; condition fair. Apples 10% harvested, 15% 1998, 15% avg.; size average to below average, condition good to fair. Peaches 65% harvested, 80% 1998, 70% avg.; size average to below average, condition fair. Pears 10% harvested, 15% 1998, 20% avg.; size below average to average, condition fair. Cranberries size average to above average, condition good to excellent. Highbush blueberries 90% harvested, 95% 1998, 90% avg., size average, condition good to fair. Wild Blueberries 99% harvested, 95% 1998, 90% avg.; size average, condition good to fair. Major farm activities included:

Harvesting vegetables, tobacco, oats, barley, potatoes. Picking early varieties of apples and pears. Picking peaches. Field corn harvest underway. Cutting hay where it is available. Spreading manure, mowing weeds, irrigating where possible. Vine killing potatoes in Aroostook county Maine.

NEW JERSEY: Days suitable for fieldwork 5. Temperatures much above normal. Extremes 47°; 95°. Rainfall 1.76 in. north, 2.01 in. central, 1.46 in. south. The heaviest 24 hour total 2.60 in. at Canoe Brook on the 25th to the 26th. Estimated soil moisture, in percent of field capacity, this past week averaged 83% north, 83% central, 71% south. Four inch soil temperatures 69° north, 72° central, 73° south. Irrigation water supply is between short and adequate in most areas. Field corn condition is poor in most areas despite the recent rains. Many corn fields that were originally intended for grain are now being cut for silage. Soybeans condition is between fair and poor across the state. Few late planted soybean fields have benefitted from the rainfalls, especially in northern areas where some additional growth, pod setting have been reported. Alfalfa, other hay crops are between fair, poor condition. Higher yields are expected from the third cutting if weather permits. Pasture feed condition has improved considerably in some areas. Supplemental feeding of cattle is still occurring. Harvest of summer vegetable crops is in full swing. Tomatoes are between good, fair condition. Rains have caused some skin cracking problems in some tomato fields. Peppers, snap beans, cucumbers fields are also between good, fair condition. Some disease problems arose in pepper fields due to the excess moisture. Potato sizes have been reported to be somewhat smaller than normal yields are down. Planting of fall spinach, cabbage and lettuce continued. Harvest of peaches is at its peak with good quality being reported. Early variety of apples are also being harvested and the quality has also been rated as good. The recent rains were on time to help the fruit sizing of both peaches, apples.

NEW MEXICO: Days suitable for fieldwork 6.7. Hot, dry conditions across most of the State allowed harvest of hay, vegetable crops to progress nicely. Scattered showers, thunderstorms favored the western section of State once again, with most of the Eastern Plains remaining hot, dry. Statewide temperature average was 2° above normal, although a few spots in the east were 4 to 6° above. Fall planting of wheat, lettuce were well underway. As hay harvest continued the only rain damage was reported in the extreme northwest. Chile, silage harvest remained active. Ranchers continued to report good weight gains with no supplemental feeding. Pasture, range feed 1% very poor, 4% poor, 22% fair, 63% good, 10% excellent. Cattle, sheep conditions remained in mostly good to excellent condition.

NEW YORK: Days suitable for fieldwork 5.5. Soil moisture 26% very short, 48% short, 26% adequate. Rainfall improved moisture supplies, crops and pastures. Pasture feed 58% poor, 22% fair, 2% good. Corn 11% poor, 46% fair, 35% good, 8% excellent. Hay 26% poor, 48% fair, 26% good. Alfalfa 2nd cutting finished, 3rd cutting 68% complete, 49% 1998, 44% avg. Clo-tim 3rd cutting 41% finished, 25% 1998, 32% avg. Potato digging underway. Oats 96% harvested, 92% 1998, 70% avg. Dry bean harvest began. Vegetable harvesting continued in full swing. Recent rainfall benefitted late season vegetables. Grape harvest started, quality reported good. Peach harvest winding down. Apple picking gained momentum.

NORTH CAROLINA: Days suitable for fieldwork 5.2 compared to 6.4 last week. For the second consecutive week, North Carolina received much needed rainfall. Precipitation was widespread as storms produced high winds and hail which caused localized damage to some crops. There has been no official report of economic losses. Hurricane Dennis received much of the focus this week, but it appears North Carolina will sustain only limited damage from tropical force winds. Rains over the last two weeks have allowed soil moisture levels to rebound and are presently rated 5% very short, 21% short, 66% adequate, 8% surplus. Tobacco harvesting, marketing are still the major activities along with corn for grain and silage harvest. Other activities included weed control in all crops, baling hay, harvesting apples, peaches and vegetables, crop scouting, and tending livestock.

NORTH DAKOTA: Days suitable for fieldwork 6. Several days of excellent weather across the state allowed good progress on small grain

harvest. In addition to combining, fall tillage was a major activity for the week. Topsoil 2% very short, 13% short, 78% adequate, 7% surplus. Subsoil 2% very short, 11% short, 75% adequate, 12% surplus. Durum wheat 97% milk, 100% 1998, 99% avg.; 80% turning, 99% 1998, 92% avg.; 19% combined, 54% 1998, 33% avg. Canola 95% turning, 99% 1998; 77% swathed, 93% 1998; 28% combined, 65% 1998. Corn for grain 98% milk, 100% 1998, 99% avg.; 47% denting, 66% 1998, 44% avg. Dry edible beans 87% fully podded, 100% 1998, 98% avg.; 60% lower leaves yellowing, 96% 1998, 84% avg.; 31% mature, 81% 1998, 56% avg. Flaxseed 78% turning, 98% 1998, 87% avg.; 16% combined, 45% 1998, 18% avg. Potatoes 37% vines killed, 56% 1998, 37% avg. Soybeans 90% fully podded, 93% 1998, 92% avg.; 26% lower leaves yellowing, 40% 1998, 38% avg.; 3% mature, 9% 1998, 8% avg. Sunflowers 97% blooming, 100% 1998, 99% avg.; 30% ray flowers dried, 70% 1998, 59% avg.; 4% bracts turned yellow, 27% 1998, 19% avg. Dry beans, flax, soybeans and sunflowers remain behind average in crop development progress while corn and potatoes were near average. Emerged crop condition: durum 3% very poor, 8% poor, 39% fair, 45% good, 5% excellent; canola 5% poor, 23% fair, 57% good, 15% excellent; corn for grain 2% very poor, 5% poor, 20% fair, 63% good, 10% excellent; corn for silage 3% poor, 20% fair, 64% good, 13% excellent; dry edible beans 7% poor, 24% fair, 54% good, 15% excellent; flaxseed 4% poor, 21% fair, 61% good, 14% excellent; potatoes 5% poor, 13% fair, 45% good, 37% excellent; soybeans 3% very poor, 9% poor, 22% fair, 57% good, 9% excellent; sugar beets 1% very poor, 5% poor, 11% fair, 56% good, 27% excellent; sunflower 1% very poor, 5% poor, 25% fair, 53% good, 16% excellent. Stock water supplies 3% short, 92% adequate, 5% surplus. Hay 6% above normal.

OHIO: Days suitable for fieldwork 4.4. Topsoil 21% very short, 35% short, 43% adequate, 1% surplus. Soybeans dropping leaves 17%, 3% 1998, 2% avg. Soybeans mature 2%, 0% 1998, 0% avg. Alfalfa hay 3rd cutting 79%, 74% 1998, 54% avg. Alfalfa hay 4th cutting 20%, 14% 1998. Other hay 2nd cutting 93%, 98% 1998, 95% avg. Other hay 3rd cutting 40%, 44% 1998, 27% avg. Corn in dough 93%, 84% 1998, 83% avg. Corn dented 62%, 38% 1998, 28% avg. Corn mature 9%, 1% avg. Corn harvested for silage, 17%, 4% 1998, 3% avg. Summer apples harvested 87%, 89% 1998, 56% avg. Fall and winter apples harvested, 5%, 0% avg. Peaches harvested, 79%, 92% 1998. Tobacco topped, 83%, 78% 1998. Tobacco harvested, 22%, 21% 1998. Processing tomatoes harvested 34%, 21% 1998, 20% avg. Potatoes harvested 54%, 59% 1998, 34% avg. Pasture 28% very poor, 27% poor, 31% fair, 13% good, 1% excellent. Corn 9% very poor, 18% poor, 36% fair, 32% good, 5% excellent. Soybeans 7% very poor, 14% poor, 38% fair, 35% good, 6% excellent. Activities for the week include making hay; mowing, seeding CRP; chopping wheat stubble; picking tomatoes, digging potatoes; chopping silage; plowing wheat ground; applying minerals; seeding filter strips; hauling grain; installing tile; leveling land; constructing, cleaning grain bins; hauling manure; scouting for insects, disease; preparing for harvest; selling livestock; spraying, topping, cutting tobacco; hauling water; irrigating specialty crops; attending fairs. Reported weed pressures include yellow foxtail, pigweed, velvetleaf, lambs quarters, Canadian thistle, giant ragweed, poison ivy, morning glory, sourdock, quack grass, Johnson grass, mare's tail, ironweed, wild carrot, and smartweed. Reported insects include spider mites and nematodes on soybeans; leaf hoppers in alfalfa; rootworms, earworms in corn; beetles in soybeans, corn. Reported diseases include sudden death syndrome, white mold, root rot in soybeans; gray leaf spot, smut, fungus on corn, blossom end rot, blight on tomatoes, scab on apples, mildew on vegetables. Fruit, vegetable conditions range from good to poor. In Fulton county, onions are rotting, yield is low on tomatoes. In Huron county, pumpkins are ripening early. Drought damage was reported on nurseries in Lake county. In Meigs county, second crop sweet corn is under irrigation. Rain came too late for most of the fruit, vegetable crops in the southern part of the state. Pasture, grass conditions are still poor but improving with recent rain. Many reporters comment that grass is greening but there is very little or no growth. Livestock are in mostly good condition with weight gain, milk production up as a result of cooler weather. Depleted water supplies, no pasture is still prompting producers to either sell livestock or haul water, hay.

OKLAHOMA: Days suitable for fieldwork 6.7. Subsoil 15% very short, 41% short, 44% adequate. Topsoil 28% very short, 58% short, 14% adequate. Hot, dry weather stifled growth, development of dryland field crops. Condition ratings slide downward. Wheat 60% seedbed prepared, 45% 1998, 55% avg.; 2% planted, 0% 1998, 4% avg. Oats 55% seedbed

prepared, 45% 1998, 39% avg. Corn 2% very poor, 1% poor, 5% fair, 91% good, 1% excellent; 15% mature, 28% 1998, 28% avg.; 7% harvested, 11% 1998, 7% avg.; Soybeans 5% very poor, 29% poor, 34% fair, 31% good, 1% excellent; 83% flowering, 96% 1998, 95% avg.; 68% setting pods, 75% 1998, 79% avg.; 10% mature, 9% 1998, 14% avg. Peanuts 93% setting pods, 96% 1998, 95% avg.; 4% mature, 12% 1998, 6% avg. Cotton 99% setting bolls, 98% 1998, 97% avg. Watermelons 93% harvested, 91% 1998, 76% avg. Alfalfa hay 13% poor, 39% fair, 45% good, 3% excellent; 54% 4th cutting, 25% 1998, 42% avg. Other hay 56% 2nd cutting, 10% 1998, 56% avg. Livestock 3% poor, 19% fair, 73% good, 5% excellent. Feeder steer prices steady at \$77 per cwt.

OREGON: Days suitable for fieldwork 6.7. Topsoil 30% very short, 52% short, 18% adequate. Subsoil 27% very short, 48% short, 25% adequate. Barley harvested 62%, 80% 1998, 70% avg. Spring wheat harvested 85%, 90% 1998. Winter wheat harvested 95%, 97% 1998, 96% avg. Range, pasture feed 4% very poor, 21% poor, 35% fair, 38% good, 2% excellent. Activities: Westside producers harvesting small grains, grass seed. Burning, straw baling well along in the Willamette Valley, haying continued in the Western Valleys. Mint harvest underway, fall tillage operations continued. Sugarbeet seed harvest started, new fields being planted for next year. Small grain harvest nearly complete in the Mid-Columbia Basin, while in central, the northeast portions, harvest not even half done. Haying continued, seeding of winter wheat, Canola started in early seeding areas of Northeast. Irrigation, summer maintenance is the main activity at nurseries, greenhouses. Easter lily transplanting continued in South Coast. Insect spraying finished on Christmas trees. Noble Fir Christmas tree topping finished, Douglas Fir shearing continued. Sweet corn moving rapidly to processors, green beans winding down, most potatoes had been harvested in Willamette Valley. Broccoli harvest continued & tomatoes ripe, ready. Klamath Basin reported potatoes being knocked down. Onion harvest underway in Northeast, with yields down due to cool spring. Potato harvest continued with high levels of Potato Leafroll virus reported in some fields. Vegetable harvest in full swing, excellent quality. In the Willamette Valley, blackberry & blueberry harvest continued. Raspberry & Marionberry pruning underway & strawberry field renovation winding down. Early apple & peach harvest continued. In some areas of the valley pear harvest underway. Hazelnuts continued to mature. In the Rogue River Valley, pear harvest in full swing. The storm that hit the area on August 23 damaged about 15% of the total crop. Peaches & late berries also being picked. Gala apple picking underway in Milton-Freewater. On the south coast cranberry growers taking leaf samples to monitor nutrient levels. In the Hood River Valley, Bartlett pear harvest began in the lower valley. Livestock in good to excellent condition in all parts of the state. Ranges & pastures are getting very dry & with several of lightning strikes last week in Eastside. High smoke levels reported in the Klamath Falls area from fires in California. Western Valleys pastures have only dry feed left & supplement feeding underway.

PENNSYLVANIA: Days suitable for fieldwork 4.2. Soil moisture 19% very short, 48% short, 33% adequate. Corn dough 70% complete, 73% 1998, 69% avg.; dent 43% complete, 27% 1998, 27% avg.; mature 5% harvested, 3% 1998, 3% avg. Ensilage corn harvested 22% complete, 3% 1998, 5% avg. Soybean 15% very poor, 25% poor, 43% fair, 14% good, 3% excellent. Oats 98% harvested, 90% 1998, 90% avg. Tobacco harvest 8% complete, 63% 1998, 44% avg. Potato harvest 23% complete, 13% 1998, 23% avg. Alfalfa 3rd cutting 69% complete, 64% 1998, 59% avg. Alfalfa 4th cutting 23% complete, 22% 1998, 19% avg. Timothy clover 2nd cutting 68% complete, 78% 1998, 74% avg. Quality of hay made 9% very poor, 22% poor, 34% fair, 23% good, 12% excellent. Apple harvest 25% complete, 29% 1998, 22% avg. Apple condition 3% very poor, 8% poor, 28% fair, 52% good, 9% excellent. Peach harvest 79% complete, 87% 1998, 72% avg. Grape harvest 5% complete, 1% 1998, 9% avg. Fall plowing 21% complete, 16% 1998, 21% avg. Activities include: Harvesting oats, fruits, vegetables, potatoes, corn silage and tobacco; machinery maintenance; filling silos; hauling manure; pumping, spreading manure; spreading lime; caring for livestock; cutting hay; attending county fairs; irrigating, hauling water.

SOUTH CAROLINA: Days suitable for fieldwork 5.8. Soil moisture 14% very short, 52% short, 33% adequate, 1% surplus. Apples 20% harvested, 23% 1998, 21% avg; 39% poor, 46% fair, 15% good. Corn 97% matured, 99% 1998, 97% avg.; 61% harvested, 59% 1998, 47%

avg.; 8% very poor, 25% poor, 39% fair, 23% good, 5% excellent. Livestock 1% very poor, 10% poor, 43% fair, 36% good, 10% excellent. Grapes 20% poor, 60% fair, 20% good. Peaches 97% harvested, 99% 1998, 98% avg. Pasture feed 21% very poor, 40% poor, 35% fair, 4% good. Sorghum 94% headed, 94% 1998, 90% avg.; 84% turned color, 84% 1998, 80% avg.; 50% matured, 54% 1998, 45% avg.; 25% harvested, 27% 1998, 24% avg.; 13% very poor, 45% poor, 39% fair, 3% good. Sweet potatoes 6% harvested, 2% 1998, 5% avg.; 7% poor, 59% fair, 34% good. Tobacco 80% harvested, 80% 1998, 82% avg.; 46% stalks destroyed, 31% 1998, 31% avg. Watermelons 99% harvested, 100% 1998, 99% avg.

SOUTH DAKOTA: Days suitable for fieldwork 6.4. Cutting of silage from crops originally planted for grain, due to low soil moisture, has begun. Topsoil 21% very short, 39% short, 37% adequate, 3% surplus. Subsoil 8% very short, 38% short, 50% adequate, 4% surplus. Stock water supplies 11% surplus, 73% adequate, 13% short, 3% very short. Cattle 24% excellent, 65% good, 10% fair, 1% poor. Sheep 30% excellent, 60% good, 9% fair, 1% poor. Alfalfa 11% excellent, 54% good, 28% fair, 6% poor, 1% very poor. Sunflower 15% excellent, 52% good, 26% fair, 7% poor. Flaxseed 11% excellent, 75% good, 14% fair.; ripe 90%, 98% 1998, 83% avg.; harvested 67%, 83% 1998, 48% avg. Soybeans mature 0%, 4% 1998, 3% avg. Sunflower 93% blooming, 92% 1998, 97% avg.; dry 38%, 54% 1998, 57% avg.; bracts yellow 34%, 42% 1998, 36% avg.; mature 2%, 10% 1998, 3% avg. Corn silked 100%, 100% 1998, 99% avg. Alfalfa 2nd cutting 91%, 90% 1998, 88% avg. Alfalfa 3rd cutting 40%, 50% 1998. Other hay harvested 92%, 90% 1998, 89% avg. Corn harvested for silage 3%, 7% 1998, 2% avg. Sorghum harvested for silage 3%, 12% 1998, 3% avg. Winter wheat seeded 2%, 7% 1998, 3% avg. Winter rye seeded 3%, 20% 1998, 5% avg.

TENNESSEE: Days suitable for fieldwork 7.0. Topsoil 58% very short, 29% short, 13% adequate. Subsoil 50% very short, 36% short, 14% adequate. Corn 98% dent, 89% 1998, 87% avg.; 75% mature, 52% 1998, 42% avg; 25% harvested for grain, 8% 1998, 5% avg.; 69% silage harvested, 52% 1998, 51% avg.; 7% very poor, 25% poor, 37% fair, 28% good, 3% excellent. Tobacco 95% topped, 84% 1998, 86% avg.; 15% very poor, 22% poor, 33% fair, 26% good, 4% excellent. Burley 51% harvested, 34% 1998, 38% avg. Dark air-cured 65% harvested, 45% 1998, 52% avg. Dark fire-cured 58% harvested, 43% 1998, 46% avg. Pasture feed 33% very poor, 35% poor, 22% fair, 10% good. State very dry weather pattern continued last week, with soybeans, pastures especially affected. Some areas of the State received rain, but overall moisture conditions remained at drought levels. Poor pasture conditions, low hay supplies has caused many livestock producers to sell cattle. Producers continued to feed hay, haul water to their livestock.

TEXAS: Conditions were hot, dry through-out most of the state with widely scattered showers occurring in the Plains, north, east. South received heavy rain from Hurricane Bret but very little property damage. Fall land preparation slowed due to lack of moisture in many areas. Extremely hot temperatures continue in most areas causing further decline in range and pasture conditions.

Crops: Grain storage problems continued in many areas due to good yields and full elevators. Haying operations continued, despite the hot, dry weather in most locations. Livestock conditions remain fair to good across the State. Supplemental feeding was required in some areas due to dry conditions, in South Texas it helped to confine cattle after to heavy rains from Hurricane Bret. Seeding of wheat continued in the Plains where moisture was available. Wheat seeded 2%, 4% 1998, 4% avg. Oats 2% planted, 0% 1998, 0% avg. High Plains crop continued to mature and harvest begin to expand. Silage harvest was beginning to wind down. Harvest continued in the Blacklands, Central Texas and was nearing completion. Yields have been good. Markets however were weak. Harvest was winding down along the Upper Coast, ended in the Coastal Bend, Rio Grande Valley. Corn 86% of normal compared with 64% 1998. Corn 52% harvested, 55% 1998, 52% avg. Cotton: Good growth and development continued in the Plains and some boll opening had begun. Some boll drop continued in non irrigated fields which missed spotted showers. Irrigation remained active where possible. Bolls continued to open and some harvest began in the Blacklands, Central Texas and Upper Coast. Harvest stopped in areas of the Coastal Bend, South Texas where severe damage occurred as a result of Hurricane Bret. Harvest neared completion in the Rio Grande Valley. Cotton 59% of normal compared with 44% 1998. Cotton 9% harvested, 18% 1998, 14

avg. Peanuts: Fields continued to look good in the Plains, North Central Texas, irrigation was very active. Statewide, dryland fields need more rain. Some producers were spraying for diseases. Harvest had begun in some areas of Central Texas. Peanuts 1% harvested, 1% 1998, 1% avg. Peanut 78% of normal compared with 63% 1998. Rice: Harvest neared completion in some areas along the Upper Coast with very good yields and excellent quality. Statewide rice condition was rated at 95 percent of normal compared with 79% 1998. Sorghum: Fields matured rapidly in the Plains under hot conditions, harvest on early fields began. Dryland fields were still stressed in many areas. Harvest was completed in the Blacklands and Central Texas but, lack of storage is still a problem. Statewide sorghum condition was rated at 67% of normal compared with 46% 1998. Published 55%, 52% 1998, 56% avg. Soybeans: Progress and development was good in the Plains, however dryland fields need rain. Irrigation remained active. Harvest in the Blacklands continued, neared completion. Harvest of early varieties was complete in areas along the Upper Coast which was not effected by Hurricane Bret. Published 45, 1998 71, Average 32. Sunflowers, Published 17, 1998 12, Average 6.

Commercial Vegetables: Rio Grande Valley, land preparations and planting were discontinued as heavy rains fell. San Antonio-Winter Garden, some planting of fall vegetables continued and some areas received scattered rain showers. East Texas, sweet potato and watermelon harvest continued, limited supplies of Okra, Peas, and other vegetables was available but severe stress was occurring from lack off rain, some replanting occurred where scattered showers fell. High Plains, onion and potato harvest slowed down in many fields. Watermelon harvest continued. Trans Pecos, a few fields of cantaloups and melons remained, but mostly winding down. Apples were doing well. Tomatoes harvest has begun. Peaches, Production continued to decline as harvest in the Hill Country ends. East Texas Peaches were fair to good, High Plains Peaches nearing maturity and some harvest begun. Peach borer was a problem in some areas. Pecans, Hot, dry conditions continued to take a toll on a very good crop across the state. Nut drop has continued over the past few weeks. Shuck worms, weevils, black aphids web worms and scab increased in some areas. Spraying occurred where numbers were high. Rainfall is needed to maintain the current expectations.

Range and Livestock: Hay production deminished due to recent hot, dry conditions in most areas. Supplies are good across the state however Grass fires were a mounting problem, especially in Central Texas Edwards Plateau and the High Plains. Because of limited grass growth, some producers were feeding supplement to their livestock. Extremely hot temperatures continued to cause problems in poultry operations.

UTAH: Days suitable for fieldwork 6. Topsoil 13% very short, 23% short, 64% adequate. Subsoil 12% very short, 20% short, 68% adequate. Range, pasture feed 2% very poor, 10% poor, 34% fair, 48% good, 6% excellent. Corn: in dough stage 44%, 43% 1998, 24% avg.; in dent stage 3%, 8% 1998, 4% avg. Spring wheat harvested 94%, 91% 1998, 90% avg. Barley harvested (grain) 90%, 89% 1998, 91% avg. Alfalfa hay 38% 3rd cutting, 44% 1998, 40% avg. Alfalfa seed 4% harvested, 7% 1998, 4% avg. Oats 64% harvested for grain, 79% 1998, 67% avg. Peaches 47% picked, 34% 1998, 51% avg. Pears 29% picked, 22% 1998, 27% avg. Potatoes 2% harvested, 2% 1998, 1% avg. Onions 12% harvested, 8% 1998, 9% avg. Cattle moved from summer range 1%, 2% 1998, 5% avg. Irrigation water supply 10% very short, 16% short, 72% adequate 2% surplus. Stock water supplies 3% very short, 19% short, 76% adequate, 2% surplus. Major activities included: Irrigating, harvesting small grains and hay, preparing land for fall planting.

VIRGINIA: Days suitable for fieldwork 5.7. Topsoil 17% very short, 35% short, 45% adequate, 3% surplus. Subsoil 40% very short, 34% short, 26% adequate. Pasture feed 30% very poor, 25% poor, 25% fair, 17% good, 3% excellent. Livestock 1% very poor, 12% poor, 36% fair, 46% good, 5% excellent. Hay other 37% very poor, 34% poor, 17% fair, 11% good, 1% surplus. Alfalfa 12% very poor, 26% poor, 37% fair, 19% good, 6% excellent. Corn for grain 88% dough, 76% 1998, 81% avg.; 60% dented, 49% 1998, 52% avg.; 30% mature, 29% 1998, 31% avg.; 4% harvested, 7% 1998, 4% avg.; 17% very poor, 22% poor, 26% fair, 24% good, 11% excellent. Corn for silage 30% harvested, 17% 1998, 18% avg. Soybeans 85% blooming, 88% 1998, 86% avg.; 57% setting pods, 68% 1998, 66% avg.; 6% very poor, 17% poor, 35% fair, 35% good, 7% excellent. Tobacco, Flue cured 34% harvested, 33% 1998, 39% avg.; 4% poor, 36% fair, 45% good, 15% excellent. Burley 23% harvested, 18% 1998, 15% avg.; 4% very poor, 6% poor, 22% fair, 44% good, 24% excellent. Dark fire cured 53% harvested, 55% 1998, 51% avg; 3% poor,

33% fair, 45% good, 19% excellent. Sun cured 35% harvested, 31% 1998, 36% avg; 40% poor, 30% fair, 30% good. Peanuts 8% fair, 58% good, 34% excellent. Cotton 10% bolls opening, 13% 1998, 25% avg.; 10% fair, 43% good, 47% excellent. Summer apples 95% harvested, 94% 1998, 81% avg. All apples 7% very poor, 21% poor, 34% fair, 30% good, 8% excellent. Peaches 81% harvested, 88% 1998, 86% avg. Showers helped to replenish topsoil moisture in many localities this past week bringing some relief to drought stricken farmers. Because of recent rains a few livestock producers were able to temporarily stop providing supplemental feed and water to herds. Conditions improved in most crops this past week. Corn progress remains slightly ahead of schedule. Few corn producers reported fears that their crop might be damaged by Hurricane Dennis, began harvest slightly ahead of schedule. While stalks are drying down quickly, some acres are still too high in moisture content for ideal harvest conditions. Silage acres harvested to date are reportedly producing good yields. Soybean progress remains slightly behind normal. Producers are actively spraying for corn ear worms. Tobacco markets are beginning to open across the Southeast. Flue, Burley producers continue to harvest ahead of 1998. Peanut, cotton producers are busy scouting, spraying for diseases and pests. While conditions deteriorated slightly from the previous week producers still expect above average yields. Harvest of summer fruits and vegetables continues at a rapid pace. Preparations for fall crops are currently underway.

WASHINGTON: Days suitable for fieldwork 7.0. Topsoil 10% very short, 45% short, 45% adequate. Subsoil 16% very short, 51% short, 33% adequate. Winter wheat 84% harvested, 97% 1998, 92% avg. Harvest continued to lag about two weeks behind normal, yields were reported in the average to good category. Producers credited mild temperatures during June and July as having a significantly positive impact on grain crops. Winter wheat seeding for the 2000 crop was just underway in central areas. Spring wheat dryland 16% very poor, 25% poor, 46% fair, and 13% good; irrigated 100% good; 54% harvested, 92% 1998, 85% avg. Barley dryland 8% very poor, 28% poor, 51% fair, 13% good; irrigated 100% good; 52% harvested, 90% 1998, 84% avg. Potatoes 22% harvested, 18% 1998, 19% avg.; 1% fair, 62% good, 37% excellent. Hay, other roughage supplies 75% adequate, 25% surplus. Range, pasture feed 17% very poor, 37% poor, 28% fair, 10% good, 8% excellent. Corn silage harvest was underway. Third cutting alfalfa hay production continued, new seeding of alfalfa was underway. Weather was very favorable for fruit, few problems were reported. Bartlett pear harvest continued, nearing completion in central areas. Gala apple harvest began, blueberry harvest continued under near ideal conditions. Various vegetable harvests continued including: Sweet corn, onion, carrot, pea, broccoli, cauliflower, cucumber harvests. Christmas tree growers continued to report good early sales for the November harvest.

WEST VIRGINIA: Days suitable for fieldwork 5.3. Topsoil moisture 39% very short, 47% short, 13% adequate, 1% surplus. Rainfall across the State brought some relief to crop, livestock and pasture conditions. Producers in some localities continue to suffer from short water supplies. Hay 37% very poor, 38% poor, 24% fair, 1% good; Hay 2nd cut 67%, 79% 1998, 76% avg.; 3rd cut 15%, 27% 1998, 33% avg. Corn 26% very poor, 43% poor, 27% fair, 4% good; silked 96%, 90% 1998, doughing 72%, 60% 1998, 72% avg.; dent 24%, 25% 1998. Oats harvested 94%, 98% 1998, 93% avg. Soybeans 17% very poor, 40% poor, 38% fair, 5% good; Setting pods 83%, 82% 1998, 93% avg.; dropping leaves 12%, 8% 1998. Tobacco 22% very poor, 23% poor, 36% fair, 19% good; topped 65%, 70% 1998, 92% avg. Apples 15% very poor, 24% poor, 54% fair, 7% good. Peaches 16% very poor, 25% poor, 51% fair, 8% good. Cattle 3% very poor, 16% poor, 56% fair, 23% good, 2% excellent. Sheep 1% very poor, 23% poor, 58% fair, 15% good, 3% excellent.

WISCONSIN: Days suitable for fieldwork 4.5. Soil Moisture 7% short, 74% adequate, 19% surplus. Another week of damp weather and spotty rain-showers kept many farmers in the State from finishing up their second and third crops of hay. Many farmers indicated their intent to not harvest any hay that is remaining because of the lack of storage, low selling price. Hay that was harvested got mixed reviews. Where rain helped growth, it was very good, where it was dry, it was short, had poorer quality. Third crop hay harvested: 56% 1999, 68% 1998, 41% avg. The corn crop continued to mature ahead of normal, but it remained a little behind 1998. It appears to be a very healthy crop in most areas. Many reporters indicated that the corn silage harvest has started, or will soon start, on the early planted corn. Others are waiting for the ground to firm up before entering the fields. Some complaints were given about

grasshoppers eating the leaves on the corn and soybean plants. Soybeans were also reported to be showing some white mold, and more reports came in about lodging problems in areas experiencing excessive rainfall. Soybean 1% very poor, 2% poor, 8% fair, 44% good, 45% excellent; setting pods 93%, 98%, 1998, N.A. avg.; leaves turned 8%, 15% 1998, 7% avg. Apple crop continued to get mixed reviews. Potato yields were reported as good. Many expect harvest to move into full swing during the next few weeks. The cranberry harvest is also just around the corner, an excellent crop is expected. Snap bean harvest continued. Minimal problems and an excellent yield were reported. Walworth County reporter noted that sweet corn harvest for canning continued with average yields. The rain-showers in the North have resulted in oats that remained in the field, with weeds growing taller and thicker every day. Pasture feed 2% poor, 16% fair, 58% good, 24% excellent.

WYOMING: Days suitable for fieldwork 6.5. Topsoil 6% very short, 52% short, 42% adequate. Subsoil 3% very short, 40% short, 57% adequate. Temperatures remained warm with little precipitation over the State. Spring wheat mature 91%, 99% 1998, 94% avg.; harvested 75%, 78% 1998, 64% avg. Barley mature 89%, 94% 1998, 93% avg.; harvested 77%, 76% 1998, 76% avg. Oats mature 79%, 93% 1998, 89% avg.; harvested 52%, 66% 1998, 57% avg. Corn milk 96%, 97% 1998, 94% avg.; dough 79%, 77% 1998, 77% avg.; dented 14%, 15% 1998, 29% avg. Dry bean leaves turning 100%, 56% 1998, 76% avg.; windrowed 38%, 4% 1998, 21% avg. Alfalfa 2nd cutting 71%, 73% 1998, 74% avg.; 3rd cutting 6%, 3% 1998, 6% avg. Other hay cut 91%, 91% 1998, 91% avg. Winter wheat planted 17%, 4% 1998, 15% avg. Range, pasture feed 2% poor, 34% fair, 53% good, 11% excellent. Stock water supplies 9% short, 89% adequate, 2% surplus.