



KANSAS
AGRICULTURAL
STATISTICS SERVICE

Fact Finders
for Agriculture

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KANSAS WHEAT HISTORY

KANSAS AGRICULTURAL STATISTICS SERVICE

Kansas Department of Agriculture

National Agricultural Statistics Service

APRIL 2004

INTRODUCTION

Abraham Lincoln called agriculture the "largest interest" of the nation, when he asked Congress to establish the Department of Agriculture in 1862. One year later, in July, the Department's Division of Statistics issued the nation's first Crop Report. The Report was a pioneering attempt to survey the condition of crops in the young nation and help inform farmers. The idea was to halt speculation among producers, consumers, and others by establishing a system to routinely gather crop information from the most reliable source--the farmer--and disseminate summary estimates nationwide.

The Kansas State Board of Agriculture, created in 1872, also compiled extensive reports on the State's agriculture. These were published in a series of biennial and annual reports dating back to 1872. Over the next fifty years, both the State Board of Agriculture and USDA's Division of Statistics published data pertaining to Kansas agriculture. These two "statistical systems" caused extra reporting effort on the part of farmers and sometimes resulted in conflicting reports. Thus, in 1924 a cooperative agreement was signed to consolidate the crop reporting functions of the State Board of Agriculture and USDA to create what is now known in Kansas as Kansas Agricultural Statistics Service. The Kansas State Board of Agriculture became the Kansas Department of Agriculture on May 4, 1995.

It seems most fitting to commemorate this long history of crop reporting with a review of Kansas' number one crop--wheat. Kansas has long been known as the "Wheat State", and with good reason since Kansas is the nation's leading wheat producer with records of wheat production actually pre-dating statehood. There are indications that wheat was produced in the area as early as 1839. Production statistics on wheat in Kansas have been published since 1866 and are shown on an annual basis in the table at the back of this booklet.

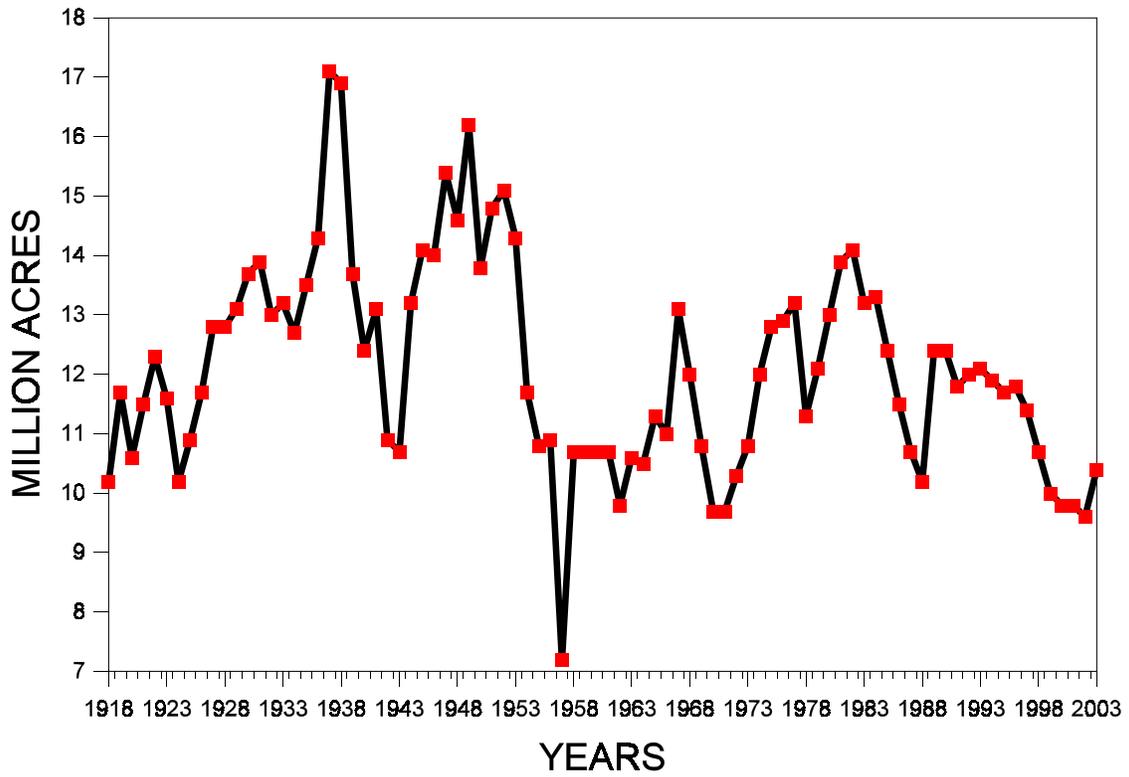
More detail, however, is provided in a section entitled "Annual Kansas Wheat Crop Sketches." This material was first published in 1973 when Raymond Hancock was State Statistician for Kansas. It was written by J.E. "Jap" Pallesen and John L. Wilson, who served together as State Statistician and Deputy State Statistician a combined total of forty years prior to their retirements in 1973. Their description of each crop year from 1918 through 1972 was based on personal knowledge as well as the records of Hubert L. Collins, who served as State Statistician from 1935 to 1958.

These narrative descriptions have been brought up to date by various statisticians and point out a number of high and low points in our Kansas wheat history. It is said that "the past is prologue," and we present this with the thought that this historical record will be a useful base in understanding current wheat crops and in future decision making.

This publication highlighting the Kansas wheat crop is dedicated to the thousands of Kansas farmers who have been producing wheat these many years, those farmers and county agents who have faithfully reported on the progress and the outcome of the crop, elevators and grain dealers reporting stocks and prices, and to the statisticians who have had a hand in helping to measure the success of Kansas' number one field crop.

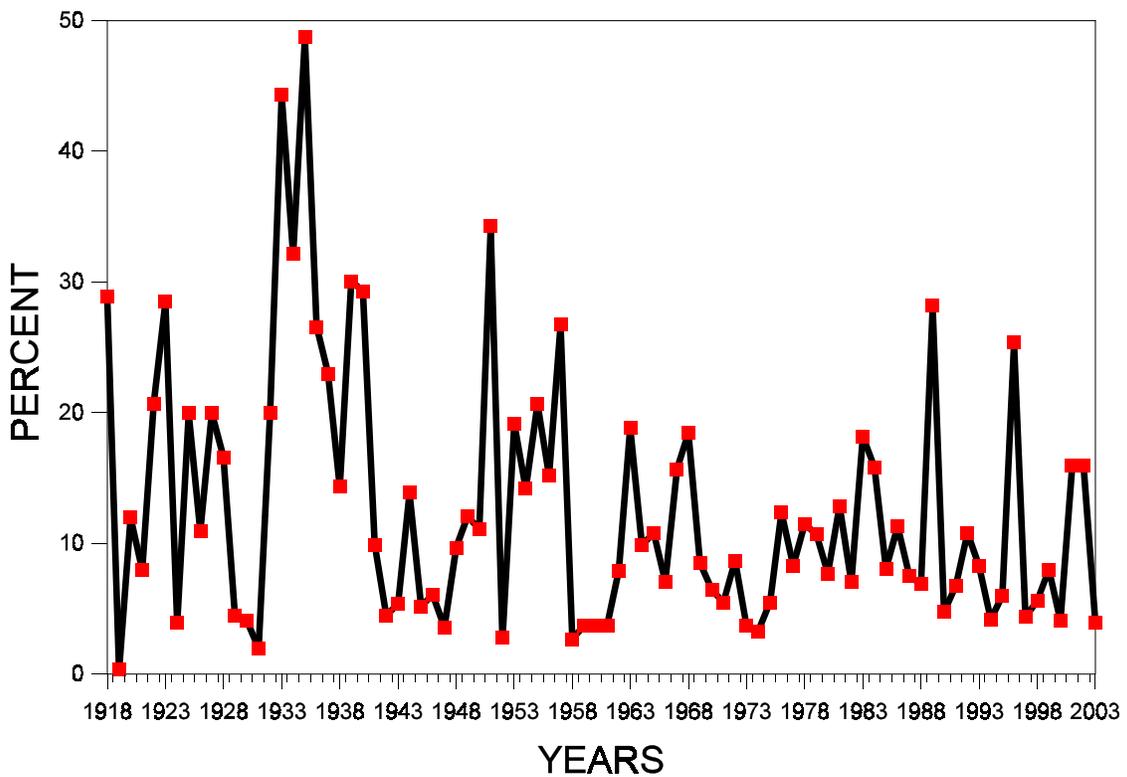
KANSAS WHEAT

ACRES PLANTED 1918-2003



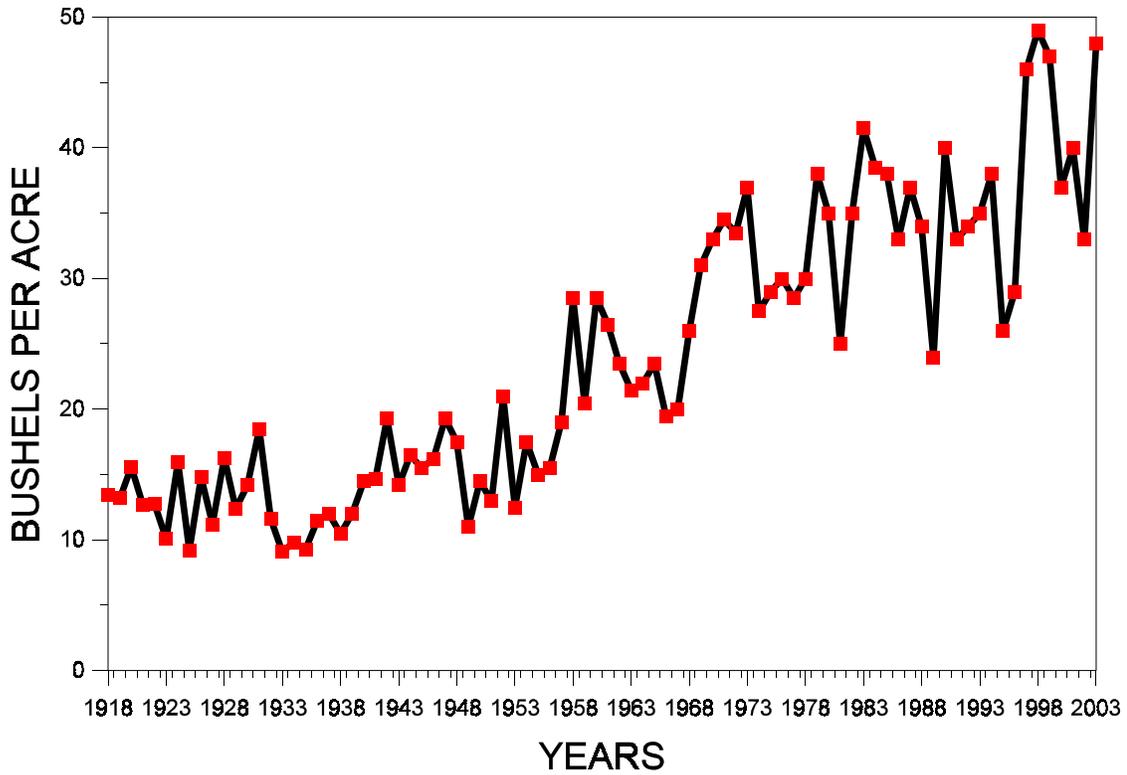
KANSAS WHEAT

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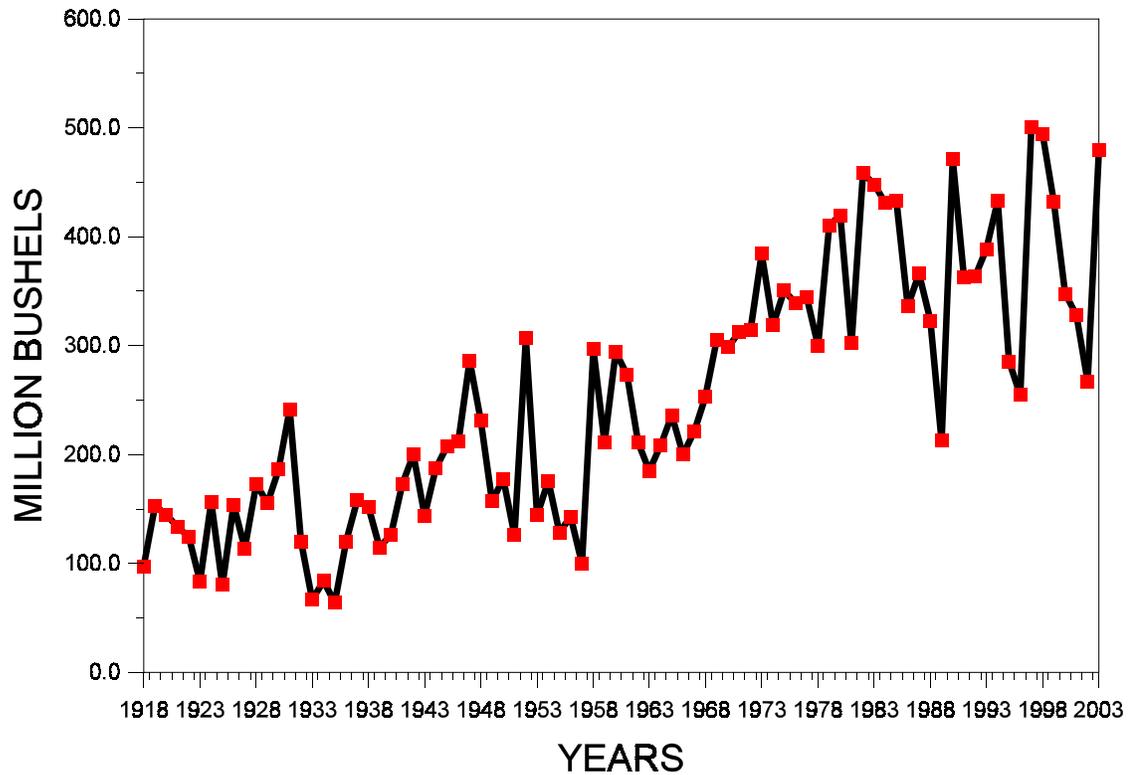
KANSAS WHEAT

YIELDS PER HARVESTED ACRE 1918-2003



KANSAS WHEAT

TOTAL PRODUCTION 1918-2003



ANNUAL KANSAS WHEAT CROP SKETCHES 1918-2003

1918 Crop: Seeded acres 10,199,000; harvested acres 7,250,000. December 1 condition 71 percent. Persistent drought during the summer of 1917 depleted moisture reserves. Seed wheat was scarce and high in price. Seeding continued in the western half of the State until the first of December. Much late fall sown wheat had not sprouted by mid-December. Wet snows of February and light rains in March benefitted wheat, but winter kill was severe in northern and western Kansas. General rains during April greatly improved wheat prospects, and fields that looked like failure a month earlier offered promise of a fair crop on the first of May. Strong winds caused considerable damage to the wheat, but good rains the latter part of May were very beneficial. A heat wave in June with very low precipitation caused a deterioration of the wheat crop and wheat suffered considerable losses in later maturing wheat. Yield per acre 13.5 bushels. Total production 97,710,000 bushels.

1919 Crop: Seeded acres 11,671,000; harvested acres 11,624,000. December 1 condition 98 percent. In some western counties seeding was delayed and stands damaged by grasshoppers. However, almost every acre came through the winter in flourishing condition. Early spring weather was favorable and encouraged vigorous growth. The rank foliage and excessive rainfall during May and June caused lodging and the development of many fungus diseases. Fields were heavily infested with leaf rust and smut, and immediately prior to harvest, black stem rust, scab, and blight also became apparent. Early July brought a wave of excessive heat that prematurely ripened thousands of acres in the west and shriveled much of the grain. Yield per acre forecast on May 1 was 17.7 bushels; final yield 13.2 bushels. Total production 153,311,000 bushels. Main variety was Turkey.

1920 Crop: Seeded acres 10,559,000; harvested acres 9,294,000. December 1 condition 82 percent. A prolonged drought did not abate until October, and wheat was seeded at a very late date in poorly prepared seedbeds. West of a north-south line through Larned, half of the wheat was volunteer growth. During the winter the crop was handicapped by deficient moisture in areas south of Great Bend and east of Dodge City. Drought and late seeding in the fall, lack of moisture during the winter, and violent wind storms during early spring all contributed to loss of acreage. Wheat improved during May as a result of ample moisture in all sections of the State. There was some premature ripening in the central and southwest counties and some local damage by Hessian fly. Final yield per acre 15.6 bushels. Total wheat production 144,933,000 bushels.

1921 Crop: Seeded acres 11,470,000; harvested acres 10,554,000. December 1 condition was 88 percent. Good stands were the rule but fall growth was not large. Late seeding, wind damage, and an Easter freeze all caused abandonment. Some of the damage from frost was not apparent until wheat began to head. Due to May drought, wheat was short stemmed and heads were short. Smut caused considerable damage in northern border and northwest counties while in the eastern three tiers of counties some wheat shriveled. Final yield per acre 12.7 bushels. Total wheat production 133,964,000 bushels.

1922 Crop: Seeded acres 12,299,000, State's largest to date; harvested acres 9,756,000. December 1 condition a low 60 percent. Much early sown wheat in western and north central counties sprouted and died from lack of moisture, and an estimated 2 million acres of wheat in the western half of the State had not germinated by December 1. A fall and winter drought resulted in much poor wheat in a broad strip extending on each side of a line from Liberal to Mankato. April weather provided abundant moisture and plants were generally in good shape on acreage that sprouted normally in the fall. Spring sprouted grain was thin, weak, and weed infested. Moisture during May was sufficient to mature the crop but was also conducive to rank growth of straw and fungus diseases. Leaf rust and smut were present in many counties. A heat wave during mid-June shriveled much grain in the eastern half of the State, but was partially offset by improvement in western Kansas wheat where spring-sprouted fields with thin stands improved. Final yield per acre 12.8 bushels. Total wheat production 124,809,000 bushels.

1923 Crop: Seeded acres 11,601,000; harvested acres 8,299,000. December 1 condition was 73 percent. Conditions in December were very promising in the eastern half of the State but most unsatisfactory in the southwestern counties where much of the acreage had not sprouted because of drought. Thin stands were prevalent in the northwest and north central counties due to wire worm damage. The drought in western Kansas was not relieved until the last week in April and in the area west of a line from Mankato to Ashland, abandonment was heavy and spring condition of the remaining acreage very unpromising. Eastern Kansas wheat was infected with Hessian fly and chinch bugs while greenbugs damaged wheat in the southern counties. A frost on May 8 seriously injured wheat plants in the joint and boot stages. Winter drought, spring frosts, Hessian fly, chinch bugs, greenbugs, and May frost and hail all took their toll of the wheat crop. Northwest counties which had lost 40 to 60 percent of their acreage during the winter showed improvement with favorable May and June rainfall, but black rust appeared in late June and caused a near failure. Final yield per acre 10.1 bushels. Total production 83,804,000 bushels.

1924 Crop: Seeded acres 10,266,000; harvested acres 9,817,000. December 1 condition was 84 percent. There was no lack of moisture for this crop but Hessian fly infestation severely retarded fall growth and persisted during the winter. In the southeast there was considerable winter kill. Moisture conditions in April were about ideal but cold, dry weather during the first three weeks of May, chinch bugs in eastern Kansas, and Hessian fly in most of the northern half of the State all caused deterioration of the crop. June weather was very favorable for maturing wheat. Final yield per acre 16.0 bushels, best in ten years. Total wheat production 157,022,000 bushels, second largest for State to date. Leading varieties Turkey, Kanred, and Blackhull.

1925 Crop: Seeded acres 10,941,000; harvested acres 8,755,000. December 1 condition was 76 percent. In most areas wheat got a good start but many north central counties suffered from dry weather with only about half of the seed germinating in some counties. Hessian fly was present over the eastern two-thirds of the State but in lesser numbers than a year earlier. Fall growth was heavy in the south half and northwest counties, providing good pastures. Abandonment was heavy in north central Kansas, and freeze damage, Hessian fly, and cutworms took their toll of wheat in the southwestern and central counties. April weather was generally favorable and those fields which came through the winter with good stands made satisfactory growth. In the northwest, however, heavy plant growth made severe inroads on soil moisture, resulting in considerable abandonment. Dry weather and high winds during May reduced the prospects. Weakened from a severe winter and a dry spring, plants had little resistance to Hessian fly, chinch bug, and foot rot. High temperatures in late May and early June caused premature ripening. Final yield per acre 9.2 bushels, lowest in 30 years. Total production 80,539,000, smallest since 1917.

1926 Crop: Seeded acres 11,695,000; harvested acres 10,409,000. December 1 condition was 84 percent. Late seeding was common in the eastern two-thirds of the State due to the menace of Hessian fly, which was prevalent in the big wheat counties of the central section. In a few north central counties, a deficiency of moisture at seeding time gradually improved during the fall. Early spring moisture conditions were good and growth normal except in the northwest, where top growth was small. The southwest rated a very high condition. During the last two weeks of May, wheat burned badly in the northern half of the State west of Blue River. Weather during June was mostly favorable for filling, but additional abandonment occurred in the northwest due to the continued lack of moisture. Final yield per acre 14.8 bushels. Total wheat production 153,991,000 bushels, third largest crop to date.

1927 Crop: Seeded acres 12,750,000, largest to date; harvested acres 10,202,000. December 1 condition 80 percent. Lack of summer moisture and a dry fall in western Kansas gave the crop a poor start there. A large portion of the acreage improved during the winter, but an area about two counties wide along the eastern border of the eastern third of the State suffered considerable deterioration. Wheat in this area was of low vitality, poorly rooted, and badly wind blown. May moisture was ample and growth advanced well with abundant stooling. Lack of moisture and high winds hurt the crop in May, and Hessian fly, chinch bugs, grasshoppers, straw worms, and foot rot caused some damage. Final yield per acre 11.2 bushels. Total wheat production 114,216,000 bushels.

1928 Crop: Seeded acres 12,761,000, largest to date; harvested acres 10,639,000. The crop was seeded in a poorly prepared seedbed, surface moisture was deficient in the western third of the State, and damage from Hessian fly in western counties became apparent late in the fall. Winter abandonment was heavy in the west central and north western counties due to lack of moisture at seeding time and during the winter months. Wheat made a remarkable improvement in the western third and held its own in the central district in response to abundant rainfall and favorable temperatures during May. Some loss of wheat from hail and heavy rain occurred in June, but additional rain increased yields to more than offset losses. Harvest in the western and north central counties was hampered by continued rains and wet fields, and considerable wheat was still unharvested by August 1. Final yield per acre 16.3 bushels. Total wheat production 173,185,000 bushels, largest Kansas crop to date.

1929 Crop: Seeded acres 13,142,000; harvested acres 12,550,000; both largest to date. December 1 condition 82 percent. Seeding was late as lack of rain in August and September hindered preparation of the seedbeds. Much seeding was done in November and in many counties the drills were still active until the middle of December. Many late planted fields had not yet emerged by December 1. However, surface and subsoil moisture was abundant in all sections of the State, and insect damage during the fall was light. Abandonment from winter kill was moderate and growth during April and May was favorable. Presence of much volunteer acreage lowered yields in the southwest and wheat heads were generally short. Too much rain in eastern counties caused lodging and increased leaf rust. A heat wave in mid-June caused immature ripening. Infestations of straw or joint worms, wheat scab, rust, root rot, and Hessian fly all caused some damage. Final yield per acre 12.4 bushels. Total wheat production 155,563,000 bushels. Leading varieties Turkey, Blackhull, and Kanred.

1930 Crop: Seeded acres 13,687,000; harvested acres 13,132,000; both largest to date. December 1 condition 92 percent, the best since 1919. Planting conditions were ideal except in the eastern third. Top growth and general appearance of the plants was good. Volunteer wheat was plentiful. Lack of moisture during seeding time in south central and southeastern Kansas and a sudden temperature drop in January resulted in moderate abandonment. Moisture conditions were good during May but lack of stooling in early spring, short heads that formed during spring, root rot, Hessian fly, and straw worm helped to hold down yields. Final yield per acre 14.2 bushels. Total wheat production 186,277,000 bushels, largest Kansas crop to date.

1931 Crop: Seeded acres 13,898,000; harvested acres 13,623,000; both largest to date. December 1 condition 90 percent. Condition of the growing crop was excellent. Moisture abundant and fall growing conditions excellent. Crop entered the dormant stage late. Damage from Hessian fly was small and volunteer stands in western Kansas were very promising. Winter damage was minimal and early spring condition excellent except for a few counties on the western edge of the south central district. Wheat grew rapidly from January to mid-April when the rate of growth was retarded by low temperatures. By May 1, the top growth was unusually rank and the crop more advanced than usual. During May lack of moisture bothered north central, northwestern, and some central counties with some frost injury and insect damage, but the crop in south central Kansas was especially promising. Final yield per acre a record high 18.5 bushels. Total wheat production was 251,885,000 bushels, which stood up as the State's largest crop until 1947, but price per bushel of 33 cents was the State's lowest of record.

1932 Crop: Seeded acres 12,963,000; harvested acres 10,365,000. Acreage planted was reduced some because of the poorest planting conditions in years and low prices. Inadequate moisture at planting time, poorly prepared seedbeds, late planting with considerable reseeding, poor stands, and Hessian fly all contributed to a poor fall start for the wheat, especially in the western one-third and some central counties of the State. Winter abandonment was rather heavy, reflecting a poor start the crop made in western Kansas, adverse effects of a severe March freeze, and wind erosion during March and April. Only half-normal May rainfall greatly reduced yield prospects. Wheat in the western third deteriorated rapidly due to lack of surface and subsoil moisture. Many fields in the western third were

badly fired at the end of May and Hessian fly took a heavy toll in the central and northwest areas. Above normal June rainfall caused the Kansas crop to turn out better than expected, with heads filling well and berries plump. Harvest was difficult due to wet fields and much wheat was bleached. Final yield per acre 11.6 bushels. Total production 120,178,000 bushels.

1933 Crop: Seeded acres 13,231,000; harvested acres 7,361,000. December 1 condition 57 percent, lowest of record. In the southeastern and western border counties, much wheat was not up when winter weather arrived and a large percentage of the crop was shallow rooted and suffered from lack of moisture. The outlook was more promising in the northwest, northeast, and some central counties. April 1 condition 37 percent, the lowest of record. Conditions were extremely poor in the western third of the State and southwestern counties. Following below normal rainfall for nine months and serious injury from an early February freeze and high winds, the crop was off to a poor spring start except in eastern Kansas. Abandonment was extremely heavy, reflecting the abnormal weather and some damage by army cutworm and Hessian fly. Wheat was pushed to maturity by a hot dry June that caused severe shriveling. Most of the grain was harvested by the end of June. Final yield per acre 9.1 bushels, lowest in 38 years. Total wheat production 66,931,000 bushels, smallest since 1917.

1934 Crop: Seeded acres 12,699,000; harvested acres 8,610,000. December 1 condition 64 percent. Condition was below average in all parts of the State, although more promising than the preceding year except in central and north central areas. Subsoil moisture supplies were scanty following harvest but timely August rains proved helpful for planting. Following a dry fall, the crop was in critical condition in western areas through the winter. Wheat was well rooted but subsoil moisture generally deficient and surface moisture lacking in many counties, and abandonment was substantial. The crop deteriorated rapidly during an extremely dry April with little subsoil moisture, drying winds, and above normal temperatures. Greenbugs damaged the crop considerably in the eastern half of the State. With May also dry, Kansas was suffering from one of the worst droughts in history. In the western third and southwestern counties, about half of the seeded acreage was abandoned. Excessive May temperatures and lack of precipitation reduced wheat yields. A very small crop was harvested in the western third of the State and in north central counties, but wheat turned out unusually well in south central, southeastern, and east central counties. Final yield per acre 9.8 bushels. Total wheat production 84,323,000 bushels. Leading varieties Turkey, Black hull, and Kanred.

1935 Crop: Seeded acres 13,456,000; harvested acres 6,888,000. December 1 condition 71 percent. In the western third and north central Kansas, moisture was deficient at planting time and continued below normal with heavy abandonment of seedings. In other areas the crop got a good start and provided considerable pasture. In western Kansas much wheat was blown out by high winds, covered by soil drifting, or died for lack of moisture during the winter. Lack of April moisture, high winds, and drifting soil caused further deterioration of most wheat west and north of a line from Belleville to Salina to Meade. Double normal May rainfall in the eastern and central areas improved prospects for wheat there but heavy rains while in bloom stage were unfavorable for filling. Harvest was unusually late due to frequent heavy June rains. Final yield per acre 9.3 bushels. Total wheat production 64,055,000 bushels, the second smallest crop in the 20th century.

1936 Crop: Seeded acres 14,254,000, largest to date; harvested acres 10,458,000. December 1 condition 81 percent. In the western third of the State, well below normal rainfall from July to December gave the crop a poor fall start. However, in the eastern two-thirds of the State, rains built up a reserve of moisture and carried the wheat through the winter. There was heavy abandonment of planted acreage during the winter in western districts. Prospects continued gloomy into the early spring until good rains were received in late April and May. The crop improved until the middle of June when hot winds over northwest and central Kansas caught wheat in the soft dough stage and caused premature ripening. The crop in western Kansas was extremely light for the fourth consecutive year, but a fairly good crop was produced in eastern and parts of central Kansas. Final yield per acre 11.5 bushels. Total wheat production 120,234,000 bushels.

1937 Crop: Seeded acres 17,110,000, the State's all-time high; harvested acres 13,172,000. Seedings had a generally poor start in the western third of the State but good fall growth elsewhere. Spring top growth was small due to low temperatures in March, but stands were uniform with only small loss due to freezing. High winds during March caused some damage in the western third. Prospects declined sharply during May due to deficient rainfall and well above normal temperatures. Late wheat suffered severe damage from high temperatures in June. Injury from black stem rust was general over the eastern third of the State and excessive rainfall at filling time was detrimental in the southeastern counties. Final yield 12.0 bushels per acre. Total wheat production 158,052,000 bushels.

1938 Crop: Seeded acres 16,942,000; harvested acres 14,494,000; both state's second largest. December 1 condition was 73 percent. Early sown wheat made good growth but precipitation after seeding was below normal. Much wheat entered the dormant period in poor condition, and below normal precipitation with high winds in January and February caused considerable abandonment. Above normal moisture in March and April rains were favorable, and heavy May rains were beneficial in western and northern counties. However, extreme lack of soil moisture at seeding time, shallow rooted wheat plants, severe April and May freezes, excessive May and June rains, widespread infestation of orange leaf rust, and black stem rust all contributed to holding down yields. Final yield per acre 10.5 bushels. Total wheat production 152,163,000 bushels.

1939 Crop: Seeded acres, 13,703,000; harvested acreage 9,574,000. Below normal precipitation after September and extremely dry topsoil over a large acreage of late seeded wheat resulted in thin, spotty stands and poorly rooted plants going into the winter. February and March precipitation was above normal and by April, wheat had greatly improved with stands showing good growth and color. High winds and above normal temperatures the last ten days of April caused serious deterioration, particularly in the southwest where rank growth made plants more subject to wind damage. Hot, dry weather with high winds in May continued unfavorable for wheat development in western and some central areas. During late May and early June, rains were beneficial to wheat and moderate June temperatures favorable for filling and ripening. Frequent rains delayed harvest and much over-ripe wheat shattered. Final yield per acre 12.0 bushels. Total wheat production 114,858,000. Leading varieties Blackhull, Turkey, and Tenmarq.

1940 Crop: Seeded acres 12,360,000; harvested acres 8,739,000. December 1 condition 35 percent, lowest of record. Much wheat was planted in dry topsoil in the western third to half of the State. Some late wheat had sprouted in the western part by the first of December, but much of the wheat did not emerge until mid-February and in many fields, not until the first of April. April rains helped in the eastern and central areas but were decidedly below normal in the west. During May, many fields that had appeared hopeless improved to show prospects for a good yield in the eastern third. Some late sown and spring emerged wheat in the western third also improved and was kept for harvest. Ripening weather was excellent and the crop was harvested under very favorable conditions. Final yield per acre 14.5 bushels. Total wheat production 126,553,000.

1941 Crop: Seeded acres 13,091,000; harvested acres 11,799,000. December 1 condition 88 percent. Wheat was planted early and made good top growth. Average depth of soil moisture at mid-October was 27.9 inches. The crop had an excellent start. Extreme low temperatures in November came suddenly causing considerable injury to wheat as became apparent during late winter and spring. Some abandonment occurred as a result of the low temperatures, blow damage, and grasshoppers. Above average precipitation in April and May was favorable for good growth of wheat. Hessian fly took a considerable toll in southeastern and east central counties. Wet weather delayed harvest in all sections. Stem rust reduced yields slightly in southwest and south central counties. Final yield per acre 14.7 bushels. Total wheat production 173,332,000 bushels.

1942 Crop: Seeded acres 10,861,000; harvested acres 10,374,000. December 1 condition 88 percent. Seeding was satisfactory and wheat had ample moisture to continue growth until a later date than usual. The crop went through the winter well and made excellent growth in April with good stands,

well rooted plants, and well stooled with good color. Subsoil moisture was the best in a decade. Through the winter, wheat was favored with an abundance of moisture and no loss of consequence from winter kill, freezes, soil drifting, insects, or diseases. Greenbugs were numerous in southern counties, but wheat developed satisfactorily until the latter part of May when above normal temperatures and high winds caused severe damage in the southwestern and west central counties. June conditions were favorable for developing heavy test weight grain, but cool wet weather delayed harvest in all sections of the State. Final yield per acre 19.3 bushels, the best in 28 years. Total wheat production was 200,101,000 bushels, the second largest to date.

1943 Crop: Seeded acres 10,741,000; harvested acres 10,159,000. December 1 condition 91 percent. Conditions were ideal for seeding. Temperatures and precipitation favored rapid growth. Stands were uniform, well rooted, good color, and thrifty. Winter rainfall and early spring temperatures were below normal and top growth was retarded. Plants were small but satisfactory, well stooled, and rooted. April rainfall was below normal, and wheat in the southwestern quarter suffered severe damage from mid-April freeze, particularly early maturing varieties. May condition declined due to moisture deficiency in west and southwest, floods in southeast. Hessian fly reduced yields in east central and southeast, while greenbugs caused some damage in the south central. Yields were excellent in north central and northwestern areas. Yield per acre May 1 forecast 16.0 bushels; final 14.2 bushels. Total wheat production 144,241,000 bushels.

1944 Crop: Seeded acres 13,210,000; Harvested acres 11,377,000. December 1 condition 62 percent. Seeding and seedbed preparation accomplished under conditions unfavorable for germination and growth of wheat. Summer and fall months were dry. A large acreage was seeded in dry seedbeds. Condition particularly low in southwest and extreme north central counties. In central and eastern counties, wheat had made fairly satisfactory growth. Much wheat in western and extreme northeastern counties failed to emerge until January moisture was received. In other areas wheat entered the winter in satisfactory condition and although plants were small, they were well rooted and of good color. Record April precipitation improved prospects and May weather was extremely favorable for crop growth. Under abundant moisture, plant development was rapid and growth was lush in central and southwestern counties. A large acreage of late seeded wheat in western counties made a substantial recovery but some was later abandoned because of heavy weed growth. Weather during June was favorable for ripening and harvesting of wheat, except for a period in late June when high temperatures caused some injury to late wheat. By July 1, black stem rust was prevalent over the State but most of the crop was far enough advanced to escape substantial damage. May 1 forecast yield per acre 14.5 bushels.; final 16.5 bushels. Total wheat production 187,700,000. Leading varieties Tenmarq, Blackhull, Turkey, Early Blackhull, and Chiefkan.

1945 Crop: Seeded acres 14,148,000; harvested acres 13,416,000; December 1 condition 92 percent. Soil moisture conditions were excellent at seeding time, and normal precipitation during November provided sufficient reserves to carry the wheat through the winter. Fall growth was rapid and wheat wintered well with very limited losses from winter killing and soil drifting. Early spring growth was ahead of normal with conditions uniformly high throughout the State. In May, a small acreage was abandoned in the southeastern quarter from floods and standing water, plants over most of the southwestern two-fifths of the State tillered poorly causing weed problems, and some leaf rust developed. June was favorable for filling and ripening but harvest was delayed by frequent rains. When harvest was completed, rather large quantities of grain were piled on the ground in some western and southwestern counties. May forecast yield per acre 18.0 bushels; final yield 15.5 bushels. Total wheat production 207,939,000 bushels, second largest crop to date.

1946 Crop: Seeded acres 14,006,000; harvested acres 13,147,000. December 1 condition 78 percent. Seeding delayed by lack of moisture except in western two or three tiers of counties. In extreme western counties summer fallow made rapid growth, and seeded and volunteer fields furnished excellent pasture for livestock until growth was retarded by lack of moisture. Elsewhere plant growth was slow and wheat entered the dormant period with plants small and poorly tillered. A heavy blanket

of snow in mid-December in the eastern half of the State was of material benefit. Improved moisture conditions and warm weather during the last half of February and March permitted rapid growth. Prospects declined during April due to light precipitation, and deficiency in subsoil moisture, particularly in the southwestern district, with some wheat plowed under. Cool weather in May slowed deterioration and was favorable for filling of heads. Prospects generally improved in the western two-thirds of the State but a freeze on May 11 caused scattered damage in many counties in the western half of the State. June was favorable for filling and ripening of wheat, and yields were substantially above earlier expectations. Harvest was nearly completed in the southern half of the State by July 1. May forecast yield per acre 14.5 bushels; final 16.2. Total wheat production 212,977,000 bushels, second largest to date.

1947 Crop: Seeded acres 15,404,000; harvested acres record 14,855,000. December 1 condition 94 percent. Conditions were favorable for seeding except in south central and southeastern areas and a few western counties where soils were dry. Precipitation in most western counties in October and November favored good growth and a large acreage of seeded and volunteer wheat was pastured. Because of cool weather top growth was not rank, but plants were well rooted and in thrifty condition. Spring surface and subsoil moisture was good to excellent over the State except for a few south central and western counties. A large acreage of volunteer wheat was saved for harvest. May weather favored wheat except in the eastern third where there was too much rain. A freeze on May 29 caused some damage in north central counties. Favorable June weather offset losses from a late May freeze and early June hot winds in southwest Kansas. Fields were the best in many years. Following harvest; storage, transportation, and terminal facilities were inadequate for handling the crop and large quantities were piled on the ground in the western half of the State. May 1 yield per acre forecast 18.0 bushels, final 19.3 bushels. Total wheat production 286,702,000 bushels, largest to date. This was called the "miracle crop". Leading varieties Pawnee, Tenmarq, Comanche, Early Blackhull, Blackhull, and Red Chief.

1948 Crop: Seeded acres 14,634,000; harvested acres 13,221,000. December 1 condition 59 percent. Dry topsoil during the fall was unfavorable for seeding in the western two-thirds of the State. Dry topsoil delayed seeding and prevented germination until November rains and snows were received. Most seed germinated but crop entered dormant period with very poor root development. Crop was in the poorest condition in west central, southwest, and central sections of the State. Winter and early spring precipitation improved soil moisture supplies. Some wheat in dry areas did not emerge to satisfactory stands until the last half of March, but growth was favorable in extreme western and northwestern counties and in eastern Kansas. Lack of rain and warm weather during April delayed development, but yield prospects improved in May as a result of favorable filling weather even though many fields were thin and stalks short. Control of weeds through spraying with 2,4-D was beneficial and a large acreage of improved varieties--Pawnee, Comanche, and Wichita--helped average yields. Moderate temperatures and abundant rainfall during June resulted in yields much greater than expected earlier. Late wheat reached harvest with no injury from hot winds, insects, or diseases. Harvest was delayed by general rains in late June. May 1 yield per acre forecast 12.0 bushels; final 17.5 bushels. Total wheat production 231,368,000 bushels. Weight per bushel 59.1 pounds, protein 12.4 percent. Leading varieties Pawnee, Comanche, Tenmarq, Wichita, and Early Blackhull.

1949 Crop: Seeded acres 16,244,000; harvested acres 14,279,000. December 1 condition 82 percent. Moisture conditions in the fall were favorable for seeding in most western counties and early sown wheat in that area came up to good stands. Lack of early rainfall delayed seeding in central and some western counties but precipitation during late October and early November permitted completion of seeding, aided germination and improved stands by the first of December. Root development was excellent and stands uniform. The crop came through the winter in good shape except for soil blowing in a few west central counties and winter killing in central and north central counties due to freezing, ice cover, and standing water. Spring top growth was generally good but excessively heavy in south central and southwest areas, and late wheat improved in north central counties from May rains. Before harvest, however, wheat streak mosaic took a heavy toll in western Kansas, loss from hail was the

heaviest in years, widespread leaf rust hurt in south central counties, and "wet weather" diseases reduced yields substantially. Wet weather caused some delay in harvest operations. May 1 yield per acre forecast 17.0 bushels; final 11.0 bushels. Total wheat production 157,069,000. This was the "mystery crop". Weight per bushel a record low 54.9 pounds; protein content a high 12.3 percent. Leading varieties Pawnee, Comanche, Wichita, Tenmarq, and Triumph.

1950 Crop: Seeded acres 13,807,000; harvested acres 12,280,000. December 1 condition 90 percent. Abundant precipitation during August and early September made conditions ideal for seeding over most of the State except for limited areas in central and southeastern counties. Plant development was rapid and many fields made rank growth. A prolonged fall and winter drought depleted topsoil moisture and low temperatures in January caused heavy winter killing in the southwestern quarter of the State, and sharply reduced yield on remaining acreage. Greenbugs survived the winter in northern Oklahoma and southern Kansas and ate their way northward during April and May, causing varying amounts of damage. More favorable rainfall and temperatures during May and June improved yields. May 1 yield per acre 13.0 bushels; final 14.5 bushels. Total wheat production 178,060,000 bushels. Weight per bushel 59.3 pounds; protein 12.8 percent. Leading varieties Pawnee, Comanche, Wichita, Triumph, and Red Chief.

1951 Crop: Acres seeded 14,773,000; acres harvested 9,701,000. December 1 condition 84 percent. The crop was planted under very favorable conditions and plants made a heavy early top growth. However, a period of warm dry weather after mid-October dried out the topsoil rapidly and crown roots failed to develop. This, together with leaf rust and insect damage, left plants in a weakened condition. Low and sharply fluctuating temperatures without snow cover during the winter resulted in extensive winter killing of wheat in the western third of the State. Unusually heavy rains starting in April and continuing throughout the summer caused additional heavy abandonment, particularly in the eastern half of the State. Loss was also incurred from lowered test weights, inability to enter fields with machinery, lodging, and shattering of grain. May 1 yield per acre forecast 14.5 bushels; final 13.0 bushels. Total production a relatively small 126,113,000 bushels. Weight per bushel 56.2 pounds; protein content 11.9 percent. Leading varieties Pawnee, Comanche, Wichita, Triumph, and Red Chief.

1952 Crop: Acres seeded 15,068,000; acres harvested 14,649,000. December 1 condition 92 percent. Soil moisture reserves from the record 1951 precipitation provided abundant moisture supplies for growth and development of the crop. Plantings were a little later than usual and fall top growth was small, but root systems were firmly established. Freezing temperatures occurring in early April and again in early May in western areas resulted in only minor damage, and with weather otherwise ideal, heads filled well. In contrast to the 1951 "wet harvest", the 1952 harvest was completed under nearly ideal weather condition. About 80 percent of the crop was harvested during the last week of June. Brisk hot winds caused some loss from shattering and shriveling in extreme northwestern counties. May 1 yield per acre forecast 17.5 bushels; final 21.0 bushels was a new record. Production of 307,629,000 bushels was also a new record. Weight per bushel 61.6 pounds, record to date; protein content a low 11.1 percent. Leading varieties Pawnee, Comanche, Wichita, Red Chief, and Blue Jacket.

1953 Crop: Acres seeded 14,315,000; acres harvested 11,573,000. December 1 condition 41 percent. Soil moisture reserves in the fall were at the lowest point in more than a decade. A major share of the acreage was seeded in dry soil and germination and emergence were very spotty with some wheat not coming up until after March 1 rains. Abandonment was heavy in many western and central areas with about 19 percent of the seeded acreage for the entire State not harvested. Spring weather was ideal for growth and development of the crop in the eastern third of the State. Weather conditions were generally favorable for harvesting, except for showers in scattered areas which caused some delay. May 1 yield per acre forecast 11.0 bushels; final 12.5 bushels. Total production 144,662,000 bushels. Weight per bushel relatively low 59.0 pounds, but protein content second high 13.5 percent. Leading varieties Pawnee, Wichita, Comanche, Triumph, and Red Chief.

1954 Crop: Acres seeded 11,738,000; acres harvested 10,069,000. December 1 condition 85 percent. September rains brought up good stands of early planted wheat in the southwest and northwest, but elsewhere most wheat seeded before mid-October went into dry soil. Rains in the west in mid-October and over all of Kansas in early November provided ample surface moisture, but subsoil reserves were low. Small top growth, due to late start, left many fields subject to spring blowing. Abandonment was quite high in the southwest and some other western areas, but surviving wheat made a remarkable late spring comeback. Good weather during critical blooming and filling stages brought total production sharply above earlier forecasts. May 1 yield per acre forecast 15.5 bushels; final 17.5 bushels. Total wheat production 176,208,000 bushels. Weight per bushel 60.4 pounds; protein content 12.3 percent. Leading varieties Pawnee, Wichita, Comanche, Kiowa, and Triumph.

1955 Crop: Acres seeded 10,799,000; acres harvested 8,559,000. December 1 condition 79 percent. The soil moisture situation was relatively unfavorable when the crop was seeded. All sections of the State received rain during October and wheat emerged to mostly good stands. Early planted wheat developed crown roots and tillered well but dry soil restricted top growth and prevented secondary root development in late seeded fields. Lack of effective moisture during the late fall and winter months left soils loose and wind erosion losses were severe in the southwest and nearby counties. During the last week of April and the first two weeks of May, hot, dry winds cut wheat prospects sharply. Rains beginning in mid-May and continuing through early June halted deterioration of the crop. Uneven ripening and weed growth delayed harvest operations in some areas. May yield per acre forecast 14.5 bushels; final 15.0 bushels. Total wheat production 128,385,000 bushels. Weight per bushel good 61.1 pounds; protein 12.5 percent. Leading varieties Wichita, Pawnee, Comanche, Kiowa, and Triumph.

1956 Crop: Seeded acres 10,907,000; harvested acres 9,244,000. December 1 condition 78 percent. Late rains provided moisture for seeding and resulted in very good stands. Lack of recurring moisture limited top growth and root development, leaving many acres vulnerable to spring winds. Wind erosion losses were not generally as heavy as they were the two preceding years. Early February snows improved moisture and early May rains considerably brightened prospects. Strong searing winds in May caused considerable damage and dry soil reduced the crop in western and north central counties. Rains in late May and early June resulted in some recovery. The crop was harvested about two weeks ahead of usual under nearly ideal conditions. May 1 yield per acre forecast 16.0 bushels; final 15.5 bushels. Total wheat production 143,282,000 bushels. Weight per bushel a good 61.2 pounds; protein content a record high 14.1 percent. Leading varieties Wichita, Pawnee, Kiowa, Comanche, and Ponca.

1957 Crop: Seeded acres 7,199,000; harvested acres 5,269,000; smallest since 1917. December 1 condition 59 percent. The seeded acreage was reduced sharply by drought at seeding time and assignment of 4.25 million allotted acres to the Soil Bank Reserve. Substantial mid-October rains in eastern Kansas permitted planting in that area. Abandonment was heavy because of dry weather and wind erosion in western Kansas and some losses from flooding and lodging in eastern and central sections of the State. The wheat matured two to three weeks later than usual and wet fields delayed harvest into late July. May 1 yield per acre forecast 16.5 bushels; final 19.0 bushels. Total wheat production 100,111,000 bushels, smallest since 1935. Weight per bushel a low 57.4 pounds; protein content 12.0 percent. Leading varieties Pawnee, Wichita, Ponca, Triumph, Kiowa, and Comanche.

1958 Crop: Seeded acres 10,727,000; harvested acres 10,433,000. December condition 96 percent. The crop got off to a good start in the fall, came through the winter in excellent condition, made vigorous spring growth, and filled exceptionally well. The wheat matured at about normal time but harvest was delayed during June by intermittent rains. This was followed by warm, drying weather and about 60 percent of the crop was harvested during the first two weeks of July. An unusually large proportion of seedings on summer fallowed land, abundant moisture, thick stands, and cool, damp filling weather all contributed to an excellent yield per acre, uniformly high across the State. May 1 yield per acre forecast 20.5 bushels; final 28.5 bushels, 7.5 bushels above the previous record set in 1952. Total wheat production 297,340,000 bushels, second largest crop to date. Weight per bushel 60.6

pounds; protein content 11.8 percent. Leading varieties Wichita, Kiowa, Pawnee, Triumph, Ponca, and Comanche.

1959 Crop: Seeded acres 10,727,000; harvested acres 10,329,000. December 1 condition 89 percent. Wheat was planted at about the usual time the previous fall and germinated well except for some dry areas in a number of western and southeastern counties. With the help of late November rains, the crop came through the winter in good condition with only minor losses from freezing or soil blowing. Mid-April soil moisture supplies in wheat fields were second only to the record moisture available in the spring of 1958. Wheat developed well in eastern and far western counties but yields in a west central area about 5 counties wide extending from Oklahoma to Nebraska were severely reduced by wheat streak mosaic disease. The crop matured a little ahead of normal and, with unusually good harvest weather, harvest was virtually complete by July 15. May 1 yield per acre forecast 22.0 bushels; final 20.5 bushels. Total wheat production was 211,744,000 bushels. Weight per bushel was 59.6 pounds; protein content 12.5 percent. Leading varieties Wichita, Triumph, Kiowa, Ponca, and Pawnee.

1960 Crop: Seeded acres 10,727,000; harvested acres 10,329,000. December 1 condition 78 percent. The crop had a variable start in the fall. In the western one-third of the State, wheat was seeded at about the optimum time. However, in central and eastern sections, planting was delayed by wet fields. Stands in these areas were thinned by an early November freeze which caused substantial winter kill. Cool May weather was ideal for growth. Timely, early June rains and near optimum filling weather pushed yields far beyond earlier expectations. Yields in the western one-third of Kansas were phenomenally high, with over half of the counties in this area having average yields of 35 bushels or higher. The crop matured later than usual and harvest started late but once underway, moved ahead to a relatively rapid completion. May 1 yield per acre forecast 21.0 bushels; final 28.5 bushels. Total wheat production was 294,376,000 bushels. Weight per bushel of 61.9 pounds was highest to date, but protein content of 11.5 percent was quite low. Leading varieties Bison, Triumph, Wichita, Kiowa, Pawnee, and Ponca.

1961 Crop: Seeded acres 10,727,000; harvested acres 10,329,000. December 1 condition 94 percent. The crop had a good start the previous fall. Planting time was a week to ten days earlier than average and timely moisture and warm weather aided germination. Fall top growth provided excellent grazing and good cover. An early December freeze slowed growth but did not cause much damage. Snow cover during periods of extremely low temperatures provided protection against freeze damage in most areas. Early spring weather was ideal for rapid growth and development, and cool, damp wheat in May and June aided filling. Stem rust reduced yields for some northern and northwestern areas. The wheat harvest started about the usual time, progressed rapidly and was virtually complete by mid-July. May 1 yield per acre forecast 25.0 bushels; final 26.5 bushels. Total wheat production 273,718,000 bushels. Weight per bushel an excellent 61.6 pounds, was exceeded only by the 61.9 pounds in 1960; protein content a record low 10.7 percent. Leading varieties Bison, Triumph, Wichita, Kiowa, and Pawnee.

1962 Crop: Seeded acres 9,762,000; harvested acres 8,986,000. December 1 condition 94 percent. Seeded in good time in the fall, the crop wintered well with minimum losses from freezing and wind erosion. Early spring weather conditions were favorable but dry, hot weather in May speeded maturity of the crop and reduced yields in southern areas. Cool, rainy weather late in May and early June was ideal for filling of wheat heads in the later maturing central and northern areas and contributed to good yields there. Harvesting started unusually early and was completed somewhat ahead of the usual time. May 1 yield per acre forecast 25.0 bushels; final 23.5 bushels. Total wheat production 211,171,000 bushels. Weight per bushel above average 61.1 pounds; protein content below average 11.7 percent. Leading varieties Triumph, Bison, Wichita, Kiowa, and Rodco.

1963 Crop: Seeded acres 10,641,000; harvested acres 8,627,000. December 1 condition 90 percent. Wheat was seeded early in most of the State and particularly in central and western areas. Stands

were good but early heavy growth reduced available soil moisture. Hessian fly infestations were also noted in several areas of the State. In eastern sections seeding was delayed somewhat by wet soil conditions. Severe winter temperatures, coupled with lack of snow cover and abrupt temperature changes, contributed to the rather heavy wheat acreage abandonment. Early spring weather was favorable, although many western and central counties suffered from lack of soil moisture. Army worms caused considerable damage in southwest Kansas and May freezes caused limited damage in northern and eastern areas. Late May and early June weather was ideal for filling. Harvest was the earliest of recent years with harvest under way in southern border counties by late May and virtually finished for the State by early July. May 1 yield per acre forecast 21.0 bushels; final 21.5 bushels. Total wheat production was 185,480,000 bushels. Weight per bushel was an excellent 61.9 pounds, protein content 12.1 percent. Leading varieties Triumph, Bison, Wichita, Kaw, and Rodco.

1964 Crop: Acres seeded 10,535,000; acres harvested 9,490,000. December 1 condition 90 percent. Seeding the preceding fall was completed early in most western and central areas and the crop got a fairly good start as a result of late summer rains. In eastern areas planting was delayed by drought, but November rains gave the crop a necessary lift. The crop came through the winter fairly well but some losses occurred in extreme western Kansas from lack of moisture and wind erosion. Continued dry weather through the spring caused some additional losses in southwestern Kansas. Timely rains in late May and early June provided a late growth boost and excellent filling weather. The drier weather which followed permitted harvest to move along rapidly. May yield per acre forecast 24.0 bushels; final 22.0 bushels. Total production 208,780,000 bushels. Weight per bushel a good 61.2 pounds; protein content 12.2 percent. Leading varieties Triumph, Bison, Wichita, Kaw, and Ottawa.

1965 Crop: Acres seeded 11,272,000; acres harvested 10,059,000. December 1 condition 87 percent. Wheat seeding started slowly the previous fall because of lack of moisture but mid-September rains provided favorable conditions and seeding proceeded rapidly. Dry weather later in the fall retarded development particularly in far western and eastern sections. November rains benefitted the crop over the entire State. Cool, dry early spring weather slowed growth but later rains and warm temperatures supported excellent development. Late May and early June weather was excellent for filling, but an outbreak of stem rust reduced yields and test weight of the crop in some northern counties. Harvest operations started a little late about mid-June, were slowed some near the end of the month, but had caught up to usual completion by mid-July. May 1 yield per acre forecast 22.0 bushels; final 23.5 bushels. Total production 236,386,000 bushels. Test weight 61.1 pounds; protein content 11.3 percent. Leading varieties Triumph, Bison, Kaw, Wichita, and Ottawa.

1966 Crop: Acres seeded 11,047,000; acres harvested 10,260,000. December 1 condition 90 percent. Wheat seeding the previous fall started in early September, then progressed slightly behind usual but was completed by mid-October. In western Kansas the wheat got off to a good start, but in eastern counties development was slow because of insufficient moisture. Additional moisture helped carry the crop through the winter in good to excellent condition in most areas. The wheat crop was severely damaged by late April and May freezes, with damage most severe in central, west central, and southwest areas. Cool, damp weather during early June benefitted filling wheat heads, particularly in the northern half of the State. Harvest, favored by hot, dry weather, got off to a good start and was completed earlier than usual. May 1 yield per acre forecast 24.0 bushels; final 19.5 bushels. Total production was 200,070,000 bushels. Weight per bushel of 62.1 pounds was the highest to date; protein content an above average 12.2 percent. Leading varieties were Triumph, Kaw, Bison, Wichita, and Ottawa.

1967 Crop: Acres seeded 13,146,000; acres harvested 11,081,000. December 1 condition 74 percent. Seeding the previous fall was underway in early September but dry soils limited early operations. Mid-September rains provided moisture in western Kansas and seeding there proceeded rapidly. In central and eastern sections of the State seedings followed about the usual pattern being virtually complete by mid-October. Despite some rain in late November and early December, the crop continued to suffer from dry conditions during most of the winter. Late April and early May freezes caused considerable

damage to the crop--most severe in southern and western portions of the State. Pale western and army cut worms also thinned stands and contributed to abandonment. Excellent filling weather during late May and early June helped to overcome some of the early problems. Harvest was latest of any recent year, being delayed by rainy weather in late June and July, with some wheat in eastern areas not harvested until August. May 1 yield per acre forecast 18.5 bushels; final 20.0 bushels. Total production 221,620,000 bushels. Test weight per bushel a below average 60.2 pounds, but protein content of 12.9 percent best since 1956. Leading varieties were Triumph, Scout, Kaw, Bison, and Wichita.

1968 Crop: Acres seeded 11,963,000; acres harvested 9,751,000. December 1 condition 81 percent. Wheat seeding the previous fall lagged in early September but following rains gained momentum and was virtually completed by the end of October. In extreme western Kansas dry weather caused some spotted stands, and continued lack of moisture into early spring, coupled with greenbug and cut worm damage, caused sharp acreage losses and reduced yields in this area. Elsewhere in the State ample late spring moisture and a favorable filling period produced especially good yields. Harvest was rather slow starting but gained momentum under favorable weather and was completed sooner than usual. May 1 yield per acre forecast 20.0 bushels; final 26.0 bushels. Total wheat production was 253,526,000 bushels. Weight per bushel was an excellent 61.9 pounds; protein content a slightly below average 11.7 percent.

1969 Crop: Acres seeded 10,767,000; acres harvested 9,849,000. December 1 condition 87 percent. Wheat seeding the previous fall got off to a slow start but moved ahead rapidly and was virtually completed by the end of October. Stands were generally good except in a few extreme western counties where lack of moisture slowed development and in southeast areas where excessive moisture created problems. The crop came through the winter well. Spring moisture was generally abundant and favorable weather during the filling period produced exceptionally good wheat yields. Harvest was slowed considerable in many areas by wet fields but was virtually completed by the third week of July. May 1 yield per acre forecast 28.0 bushels; final yield 31.0 bushels, a record to date. Total production 305,319,000 bushels, second largest to date. Weight per bushel was near average at 61.2 pounds; protein content a much below average 10.9 percent. Leading varieties were Scout, Triumph, Bison, Kaw, and Wichita.

1970 Crop: Acres seeded 9,690,000; acres harvested 9,061,000. December 1 condition 88 percent. Wheat seeding the previous fall started slowly, but with ample moisture moved along rapidly to virtual completion in late October. Some replanting was necessary due to army worm damage in central areas and some local heavy rains. Stands were generally good and the crop moved into the winter in good condition. Wheat came through the dry, mild weather exceptionally well and responded quickly to good spring moisture. Hot, dry winds early in May put considerable stress on the crop in southern counties. A cool, damp filling period in late May and early June, however, helped to produce one of the most uniformly high-yielding crops of record. Wet weather caused some early harvesting delays, but harvest progressed rapidly during late June and early July to near completion at mid-July. May 1 yield per acre forecast 31.0 bushels; final 33.0 bushels, a record to date. Total wheat production 299,013,000 bushels. Weight per bushel was an excellent 61.9 pounds; protein content a moderately below average 11.5 percent. Leading varieties were Scout, Triumph, Parker, Bison, and Wichita.

1971 Crop: Acres seeded 9,593,000; acres harvested 9,061,000. December 1 condition 85 percent. Wheat plantings the previous fall lagged a little behind usual but in the western two-thirds of the State were completed during September and October, and in eastern districts a little later. Stands were generally good with only a limited amount of replanting necessary. Soil moisture was adequate for most seedlings to root down, but top growth did not provide as much pasture as in some years. The crop came through the winter quite well with relatively little damage from blowing or winter kill. Extensive rains in May aided crop development and cool, damp weather late in the month and during June helped the grain fill well. Harvest started about the normal time along the southern border and after some delay by intermittent rains, moved ahead to a rather rapid completion. May 1 yield per acre

forecast 30.0 bushels; final yield a record high 34.5 bushels. Total wheat production a new high record 312,605,000 bushels, surpassing the previous record set 19 years earlier. Weight per bushel was a record high 62.3 pounds; protein content an above average 12.0 percent.

1972 Crop: Acres seeded 10,300,000; acres harvested 9,400,000. December 1 condition 94 percent. Wheat planting the previous fall lagged in early September but proceeded rapidly after mid-month. Progress was normal by early October and seeding was completed by the end of the month. Stands were generally good with only limited replanting necessary. The plants rooted down well and top growth provided considerable pasture in most areas. The wheat wintered well with relatively little damage from freezing or blowing. Lack of early spring moisture in some western and southern counties, coupled with April freezes in some southern areas, caused some damage in local areas. However, cool, damp filling weather in May and June was exceptionally favorable for yields over most of the State. Harvest started about normal time in early June, was slowed by rains in mid to late June, but progressed rapidly in early July and was virtually completed by mid-month. May 1 yield per acre forecast 32.0 bushels; final yield 33.5 bushels. Total wheat production 314,900,000 bushels, the largest Kansas crop produced to date. Weight per bushel was a slightly above average 61.6 pounds; protein content a slightly below average 11.5 percent. Leading varieties were Scout, Triumph, Satanta, Parker, and Gage.

1973 Crop: Acres seeded 10,800,000; acres harvested 10,400,000; abandonment 3.7 percent. December condition 93 percent, among the higher years. Precipitation in late October and into November delayed seedings but resulted in good stands. Fall top growth was adequate for field protection. Plentiful moisture and cool temperatures in spring months provided ideal conditions. Harvest started June 10 along the southern border, accelerated rapidly, and was completed by mid-July. May 1 yield forecast was 35.0 bushels per acre; final yield was a record 37.0 bushels per acre, providing the basis of a record production of 384,800,000 bushels. Protein content 11.0 percent, was lower than average while average test weight of 62.2 was above the 10-year average. Leading varieties were Scout 46.5 percent, Triumph 9.4 percent, Eagle 8.9 percent, and Parker 8.5 percent.

1974 Crop: Acres seeded 12,000,000; acres harvested 11,600,000; abandonment 3.3 percent. December condition 81 percent, lowest since 1968. In the western third condition 87 to 89 percent; eastern third 73 to 80 percent. Bulk of acreage was seeded later than normal due to fall rains. Top growth during fall less than normal but moisture supply was more than adequate. Spring rainfall was short, especially in late April and May, and in addition wheat streak mosaic sharply reduced yields in central areas of the State. May 1 forecast yield 36.0 bushels per acre; final yield 27.5 bushels per acre. Total wheat production was 319,000,000 bushels. Protein content at 11.3 percent was above the 11.0 in 1973 but below the 10-year average of 11.8 percent. Test weight of 61.3 pounds per bushel, about average. Leading varieties were Scout 36.5 percent, Eagle 17.8 percent, Centurk 9.5 percent, Triumph 8.3 percent, and Parker 7.6 percent.

1975 Crop: Acres seeded 12,800,000; acres harvested 12,100,000; abandonment 5.5 percent. Season started with good expectations. Seeding completed in good time. December condition was 86 percent. Heavy early fall and late winter rains caused some field flooding. Widespread soil-borne mosaic cut yield in central, south central, and southeast Kansas. May forecast was 33.0 bushels; final 29.0. Heavy rains delayed harvest and caused considerable lodging and deterioration of quality. Total wheat production was 350,900,000 bushels. Crop had a very high percentage of yellow berry and protein content was 11.2, well below the 10-year average of 11.7. Test weight of 61.3, the same as a year ago. Leading varieties were Scout 33.2 percent, Eagle 22.6 percent, Centurk 9.8 percent, Triumph 8.2 percent, and Parker 6.4 percent.

1976 Crop: Seeded acres 12,900,000; harvested acres 11,300,000; abandonment was 12.4 percent. The season started off under poor conditions with a dry summer and fall causing delayed seeding. December 1 condition was 71 percent (lowest since December 1957) with the crop going into winter with short top growth and limited root development. Limited winter precipitation and high winds caused heavy losses in the southwestern quarter of the State. Winter kill was above average in many areas

and a May 3 freeze did extensive damage in east central and southeast counties. Heavy rains came in late April and May which improved yields far beyond earlier expectations. The May 1 yield forecast was 28.0 bushels per acre; the December final was 30.0 bushels. Quality of the crop compared favorably with other recent years. Total wheat production was 339,000,000 bushels. Protein content was 11.7 percent, compared with the previous year's 11.4 percent. Test weight averaged 61.2 pounds per bushel, 0.2 pound below 1975 and 0.4 pound below average. Leading varieties were Scout 25.2 percent, Eagle 20.1 percent, Sage 10.1 percent, Centurk 9.8 percent, and Triumph 7.9 percent.

1977 Crop: Acres seeded, 13,200,000; acres harvested, 12,100,000; abandonment 8.3 percent. Seeding in the fall was completed on schedule. Although moisture supplies were short, some light general rains were received in late September enabling the wheat to get off to a fairly good start. Condition of the crop was rated 75 percent on December 1. The crop went into winter short on top growth and root development but came out of dormancy in the spring with very little freeze damage or wind erosion problems. April brought much needed rains across the State, accompanied by above normal temperatures. Rainfall in May was well above the long-time average for the State as a whole. All sections of the State received good rains at one time or another during the month. May yield forecast was 32.0 bushels; final 28.5 bushels. Heavy rains came in June and July delaying harvest in many areas of the State, primarily the three eastern districts where some wheat went down, resulting in yield reductions. Total wheat production was 344,850,000 bushels. The protein content of the crop reached 12.5 percent with test weight at 60.3 pounds per bushel and moisture content averaging 12.3 percent. Leading varieties were Scout 21.7 percent, Eagle 19.9 percent, Sage 14.7 percent, Centurk 11.9 percent, and Triumph 6.3 percent.

1978 Crop: Seeded acres 11,300,000; harvested acres 10,000,000; abandonment 11.5 percent. Seeding in the fall was completed on schedule. The wheat crop generally attained good growth in the fall, although a few fields were seeded late. Because of grasshopper damage, some field borders had to be reseeded. Condition of the crop was rated 89 percent on December 1. Very little winter kill occurred and little acreage was blown out. Continuing through April, the eastern half of the State received generally ample to heavy rainfall. The western half was under considerable stress by the end of the month. On April 30 and May 1 most of the western two-thirds of the State received more than one inch of rainfall, relieving drought stress particularly in the southwest. Kansas rainfall during May was 24 percent above the long-time average for the State. Temperatures were below normal much of April and frost and freezing temperatures occurred in much of the west and north on April 20 and 21. Many local areas received damage from hail and heavy rains at harvest time. May yield forecast was 31.0 bushels; final 30.0 bushels. Total wheat production was 300,000,000 bushels. Protein content of the crop averaged 12.0 percent. Test weight averaged 60.7 pounds per bushel and moisture content averaged 11.4 percent. Leading varieties were Eagle 23.0 percent, Scout 19.6 percent, Sage 14.0 percent, Centurk 10.0 percent, Triumph 5.8 percent, and Tam 101 4.1 percent.

1979 Crop: Acres seeded 12,100,000; harvested acres 10,800,000; abandonment 10.7 percent. Fall seeding was accomplished during periods of dry conditions in many areas of the State resulting in poor germination during the fall, particularly in the west central district. Many poor wheat stands with larger than normal abandonment resulted in those areas. Condition of the crop was rated 77 percent on December 1. Wheat was stressed through the winter with extremely cold temperatures, although much of the wheat had adequate snow cover. Wheat coming out of the winter generally lacked sufficient root development but early precipitation limited wind damage from blowing. Precipitation was generally ample across the State during the spring and extremely good growing conditions generated large heads and excellent kernel fill. Some frost occurred around mid-May leaving visible signs of damage in areas of west central Kansas. Varying amounts of damage occurred, depending on stage of development. For the State, development on June 1 was running nearly a week behind the average. The May 1 yield forecast was 30.0 bushels; final 38.0 bushels, a new record to date. As harvest time arrived, intermittent showers caused delays. Total wheat production was a record 410,400,000 bushels. Quality tests showed protein content to be 12.1 percent. Test weight averaged 60.8 pounds per bushel and moisture content averaged 11.9 percent. Leading varieties were Eagle 21.1 percent, Scout 15.6 percent, Sage 12.7 percent, Centurk 8.7 percent, Triumph 6.5 percent, and Tam 101 4.9 percent.

1980 Crop: Acres seeded 13,000,000; harvested acres 12,000,000; abandonment 7.7 percent. Wheat that was planted as early as October attained good stands as they had the benefit of late fall rains. Late planted wheat was more spotty and thin, particularly in the central and south central districts where there was poor germination and some blow-outs. Condition of the crop was rated 72 percent on December 1. April and May precipitation was below normal in all but the three western districts. June was a very dry month for most of Kansas with only the west central district receiving normal rainfall. The crop was largely mature before the summer drought and intense heat occurred. The May 1 yield forecast was 32.0 bushels per acre; final was 35.0 bushels. Total wheat production was 420,000,000 bushels, a new record. Protein content was 12.3 percent, and test weight averaged 61.2 pounds per bushel. Leading varieties were Newton 17.5 percent (jumping from 2.8 percent the previous year), Eagle 15.7 percent, Scout 12.5 percent, Larned 11.1 percent, Sage 8.8 percent, Centurk 5.9 percent, Triumph 5.1 percent, and Tam 101 4.8 percent.

1981 Crop: Acres seeded 13,900,000; harvested acres 12,100,000; abandonment 12.9 percent. Wheat was planted the previous fall under generally dry conditions which continued into the spring. Condition of the crop was rated 78 percent on December 1. Hot and dry conditions in April were detrimental, particularly in the south central and southwest areas. Temperatures were unusually mild and allowed the crop to develop two to three weeks ahead of schedule. A freeze in the northern and western areas of the State on May 9, 10, and 11 caught the crop in the critical flowering stage and caused heavy losses. General rains occurred in May, and June rainfall was generous in eastern Kansas but very limited in western areas. Harvest got off to an early start but rains slowed progress. Weeds along with muddy fields caused problems. Much "patch" harvesting was done and some spots in fields were too poor or weedy to justify harvesting. The May 1 yield forecast was 32.0 bushels per acre; final 25.0 bushels, as the full effects of the freeze and other weather factors became known. Total wheat production was 302,500,000 bushels. Protein content, at 13.2 percent, was the highest in 14 years. Test weight averaged 60.5 pounds per bushel and moisture content affected by wet weather at harvest was 12.2 percent. Wheat graded 51 percent U.S. No. one and 37 percent No. two. Leading varieties were Newton 34.2 percent, Larned 12.0 percent, Eagle 11.3 percent, Scout/Scout 66 9.2 percent, and Vona 6.7 percent.

1982 Crop: Acres seeded 14,100,000; harvested acres 13,100,000; abandonment 7.1 percent. Condition of the crop was rated 90 percent on December 1. Wheat went into the winter with good stands and growth. Some winter kill occurred in the northeast and east central districts with relatively small acreages of wheat involved. Minimum precipitation occurred during April but generous rains during May were very beneficial to the crop as it was going through the critical boot, heading, and milk stages. Temperatures were below normal during the entire month of June and rain occurred every week during the month. Stands were heavy but heads developed well because of the cool temperatures. The prolonged wet period brought on the diseases take-all and head blight (scab). The latter affected test weights on some of the acreage, particularly in eastern Kansas. The mycotoxin scare, however, was perhaps overstated by the trade and press. Harvest progress was slower than average because of wet weather, but was finally wound up around the first of August. The May 1 yield forecast was 35.0 bushels; final 35.0 bushels. Total wheat production was a record 458,500,000 bushels. Protein content averaged 11.4 percent and test weight 60.0 pounds per bushel. Moisture content, affected by wet weather at harvest time, was 12.1 percent. Wheat graded 52 percent U.S. No. one and 34 percent No. two. Leading varieties were Newton 41.1 percent, Larned 11.2 percent, Eagle 10.2 percent, Scout/Scout 66 6.1 percent, and Vona 5.5 percent.

1983 Crop: Acres seeded 13,200,000; harvested acres 10,800,000; abandonment 2,400,000 acres or 18.2 percent of planted acres. For the week ending November 28, the condition of the crop was rated fair to poor in the southwest and south central districts, and good to excellent elsewhere. Abandonment was higher than normal due to farmer participation in the Acreage Reduction and Payment in Kind Programs. Wheat went into the winter with soil moisture on the short side, particularly in the southwest and south central districts. Top growth was generally less than desirable. Winter and spring precipitation was above normal and spring temperatures were cool. This contributed to late crop

development, increased tillering, and heavy lush stands. The delayed development minimized the effects of a mid-May freeze. Showers and cool temperatures continued until the third week of June. Wheat development was about two weeks behind normal. Rank growth and heavy stands resulted in lodged wheat in many fields. The long, wet period allowed development of some diseases such as septoria leaf blotch and take-all, particularly in eastern Kansas, but there was generally less trouble with some other diseases. Harvest was hampered by rainy weather at the start, but dry, hot weather prevailed from July 4th on, enabling farmers to harvest under favorable conditions and ahead of schedule. The May 1 yield forecast was 40.0 bushels per acre; final was 41.5 bushels, a record to date. Total wheat production was 448,200,000 bushels. Protein content averaged 11.3 percent and test weight averaged 61.6 pounds per bushel. Moisture content, at 11.1 percent, was down from the previous two years as a result of favorable harvesting weather. Wheat graded 63 percent U.S. No. one and 31 percent No. two. Leading varieties were Newton 38.5 percent, Larned 10.4 percent, Tam 105 10.3 percent, Eagle 6.0 percent, and Vona 5.9 percent.

1984 Crop: Acres seeded 13,300,000; harvested acres 11,200,000; abandonment 2,100,000 acres or 15.8 percent of planted acres. This was less abandonment than the previous year and corresponds to the decrease in the percentage of P.I.K. participants in 1984. For the week ending November 27, the condition of the crop was rated good at the State level; fair in the western districts, but excellent elsewhere. The northwest and parts of the north central and west central districts had poor stands going into the winter. Many farmers dusted their wheat in and late fall rains did not occur sufficiently on time for proper emergence, resulting in some bare spots on higher ground and tops of terraces. Some fields which did not emerge till spring rains came had only limited time for tillering. In other areas of the State, growing conditions were mostly good. Spring moisture conditions were quite favorable. May temperatures were cooler than normal and warmed to normal and above in June with wheat developing somewhat slower than normal. Late development delayed harvest but once underway, the weather cooperated nicely and harvest was completed on schedule. Disease infestations were generally light to moderate, but weeds such as cheat, downy brome, and mustard were heavy in some fields. The May 1 yield forecast was 35.0 bushels per acre; final was 38.5 bushels. Total wheat production was 431,200,000 bushels. Protein content average 11.6 percent and test weight 60.4 pounds per bushel. Moisture content, at 11.6 percent, reflected mostly favorable harvest weather. Wheat graded 45 percent U.S. No. one and 44 percent No. two. Leading varieties were Newton 30.9 percent, Tam 105 13.1 percent, Larned 10.2 percent, Hawk 9.0 percent, and Vona 5.7 percent.

1985 Crop: Acres seeded 12,400,000; harvested acres 11,400,000; abandonment 1,000,000 acres or 8.1 percent of planted acres. Dry conditions prevailed prior to wheat seeding the previous fall. A substantial acreage of wheat was dusted in and some planting was delayed when rains occurred in October. Some reseeding was also done due to cheat and grass problems. For the week ending December 2, the condition of the crop was rated 87 percent good to excellent. The crop over-wintered with minimal losses, and above normal temperatures during April and May brought on early spring growth and faster than normal development. Precipitation during April was above normal in all areas except the western three districts. May precipitation was above normal in all but the southwest, central, and south central districts. June precipitation was about normal, but varied widely with the west and north central areas less than normal. High temperatures in late May were a contributing factor to lowered prospects for wheat. Leaf rust, particularly in southern counties, and weedy conditions also reduced yields from earlier potential. June temperatures averaged slightly below normal and warm, dry weather in early July was favorable for wheat harvest, with harvest completed in near record time. The May 1 yield forecast was 40.0 bushels per acre; final was 38.0 bushels. Total wheat production was 433,200,000 bushels. Protein content averaged 11.6 percent, test weight 60.0 pounds per bushel,

and moisture content was 11.8 percent. Wheat graded 38 percent U.S. No. one and 42 percent No. two. Leading varieties were Newton 25.7 percent, Tam 105, 13.4 percent, Hawk 12.3 percent, Larned 8.6 percent, and Arkan 6.3 percent.

1986 Crop: Acres seeded 11,500,000; harvested acres 10,200,000; abandonment 1,300,000 acres or 11.3 percent of planted acres. Wheat seeding began on schedule in the fall, but bogged down during October due to wet weather. Heavy rains and flooding hampered seeding efforts and washed out many fields in southern and eastern areas. Reseeding was necessary in many counties. Emergence was very good for early planted wheat during October due to abundant moisture, but slowed later on because of cold November temperatures. For the week ending December 1, the condition of the crop was rated 89 percent good to excellent. This slow emergence reduced growth going into winter. A mild winter with little snow followed. The light freeze in mid-April did not cause extensive damage. Tillering took place under dry conditions in the spring, resulting in lower plant counts. Warm weather in March and April influenced fast development of the crop. Approximately 95 percent of the acreage had headed out by May 20th, while normally only about half of the acreage is headed by that date. Harvest began about the 10th of June and was nearly complete by the 4th of July, the earliest wind-up in recent years. Wheat diseases such as leaf rust, wheat streak mosaic and stem rust were prevalent, resulting in yield losses. There was enough initial infection over much of the State in late April to begin producing spores when the warm rainy period began in early May. Stem rust was particularly devastating, causing yield losses greater than any year since the early 1960's. The May 1 yield forecast was 33 bushels per acre; final was also 33.0 bushels. Total wheat production was 336,600,000 bushels. Protein content averaged 11.9 percent, test weight 59.8 pounds per bushel, and moisture 11.9 percent. Wheat graded 44 percent U.S. No. one and 39 percent No. two. Leading varieties were Newton 21.1 percent, Hawk 13.5 percent, Arkan 10.1 percent, Mustang 8.2 percent, Larned 7.9 percent, and Tam 105 6.8 percent.

1987 Crop: Acres seeded 10,700,000; harvested acres 9,900,000; abandonment 800,000 acres or 7.5 percent of planted acres. Planting conditions were generally favorable in the western two-thirds of the State and seeding was complete by mid-November. Some areas had to be replanted after heavy rains washed out the young crop in late September. Seeding was delayed in the eastern districts by wet, muddy fields and the inability to finish late crop harvest. Planted acreage was down significantly from a year ago in these districts. Emergence was rapid and progressed ahead of normal. For the week ending November 30, the condition of the crop was rated 82 percent good to excellent. Adequate moisture was received during the winter and the crop came out of dormancy in good shape. A late March freeze damaged the crop, especially in south central Kansas. Following the freeze, abundant rainfall and mild spring temperatures provided excellent growing conditions for wheat. Harvest progressed ahead of normal although slowed by rain at the beginning. Harvest was completed ahead of schedule in all but west central and northwest Kansas, which were plagued by rain and high humidity. Although not as devastating as in 1986, diseases did take their toll on yield. Most significant were leaf rust, barley yellow dwarf and tan spot, accounting for about an 11 percent loss. The May 1 yield forecast was 43.0 bushels per acre; final was 37.0 bushels. Total production was 366,300,000 bushels. Protein content averaged 11.5 percent protein, test weight 59.7 pounds per bushel, and moisture 12.0 percent. Wheat graded 39 percent U.S. No. one and 47 percent No. two. No variety survey was done due to lack of funds.

1988 Crop: Acres seeded 10,200,000; harvested acres 9,500,000; abandonment 700,000 acres or 6.9 percent of the planted acres. Wheat seeding got off to a good start in early September and was ahead of normal throughout the fall. By early October, however, moisture was needed in central and western counties to assure emergence and stand development. For the week ending November 29, the condition of the crop was rated 57 percent good to excellent. Conditions remained dry in these areas until a mid-December snow storm helped relieve some moisture stress. Leaf rust was present over the entire State and wheat streak mosaic developed in epidemic proportions in most areas. Greenbugs appeared in mid-November and endangered the younger wheat, especially if already affected by mosaic. The crop came through the winter in only fair shape with 55 percent rated good

to excellent, compared to 88 percent the year before. This reflected the shortage of topsoil moisture in central and western districts. Spring moisture was generally adequate for growth and development. June was hot and dry, causing rapid maturing. Harvest was one of the fastest on record with over 90 percent cut by July 1. The disease causing the greatest yield losses in 1988 was wheat streak mosaic with an estimated 13.0 percent loss, compared with a 1.3 percent average. This disease, along with others such as leaf rust and barley yellow dwarf, caused an estimated total loss of 22.4 percent, the highest since loss estimates began in 1976. The Russian wheat aphid appeared once again and spread across the western half of the State causing additional yield losses. Despite the problems experienced, test weights and protein averaged higher than normal and were a pleasant surprise to many producers. The May 1 yield forecast was 38 bushels per acre; final was 34 bushels. Total wheat production was 323,000,000 bushels. Protein content averaged 12.5, test weight 60.3 pounds per bushel, and moisture 10.2 percent. The wheat graded 55 percent No. one and 40 percent NO. 2. Leading varieties were Arkan 14.9 percent, Newton 13.4 percent, Larned 10.9 percent, AgriPro Hawk 7.6 percent, Pioneer 2157 7.2 percent, and AgriPro Victory 6.2 percent.

1989 Crop: Acres seeded 12,400,000; harvested acres 8,900,000; abandonment 3,500,000 acres or 28.2 percent of the planted acres, the largest percent abandoned since 1951. Moderate to light rains in September allowed farmers to start wheat seeding with some surface moisture; however, most of the State had struggled through nearly a year of less than normal rainfall. Germination was poor and early growth was slow. Temperatures were generally mild but precipitation continued on the short side through the fall and early winter. Some late seeded fields did not germinate and establish stands. For the week ending November 27, the condition of the crop was rated only 35 percent good to excellent, the poorest rating in many years. Unusually mild weather in January caused some stands in the central and southern areas of the State to break dormancy and start putting on top growth. Sub-zero temperatures in mid-February killed much of the top growth across the State, and in many areas entire stands were lost. Moisture continued on the short side in March, and a dust storm in mid-March damaged many stands in central and western Kansas. April was the driest on record for many counties in the State, and dealt another blow to an already drought-stressed crop. The rains finally came in May, but too late to be of much benefit to most non-irrigated wheat and caused severe weed problems in nearly every area of the State. Additional heavy rains in June caused more weed problems and delayed the start of harvest, which finally got underway in late June. With a far less than normal crop, there were more than enough custom harvest operators to complete harvest in short order. Test weights were the lowest since 1957 but the drought conditions produced the highest protein in over 30 years. The May 1 yield forecast was 21 bushels per acre; final was 24 bushels. Total wheat production was 213,600,000 bushels, the lowest production since 1963. Protein content averaged 13.4, the highest in 30 years, test weight 59.5 pounds per bushel, and moisture 12.1 percent. The wheat graded only 34 percent No. one and 45 percent No. two. Leading varieties were Arkan 11.9 percent, Newton 11.6 percent, Larned 9.7 percent, Pioneer 2157 9.5 percent, Tam 107 9.5 percent, and AgriPro Victory 8.2 percent.

1990 Crop: Acres seeded 12,400,000; harvested acres 11,800,000; abandonment 600,000 acres or 4.8 percent of the planted acres, the lowest abandonment since 1974. Wheat seeding started in mid-September and lagged behind schedule through the end of the month because of wet fields. As fields dried out in late September and early October, seeding surged ahead of schedule and good early emergence was noted. Condition was generally good to excellent but early growth rates dropped off as unseasonable warm dry weather covered most of the State. Surface moisture dropped from 97 percent adequate to surplus in late September to only 11 percent in late October and was down to only 8 percent adequate to surplus by the end of November. For the week ending November 26, the condition of the crop was rated 40 percent good to excellent. Because of this, poor secondary root development was noted in many stands. Sub-zero temperatures covered much of the State through the first three weeks of December and with little or no snow cover in central and western Kansas, wheat stands were extremely susceptible to winter kill and wind damage. Weather conditions took a sharp turn for the better after the first of the year and were near ideal through late winter and early spring. Relatively cool wet weather allowed the crop to mature slowly and completely. Harvest got started in mid-June in the southern areas, moved north rapidly, and reached completion by mid-July. The May 1 yield forecast was 39 bushels per acre; final was 40 bushels. Total wheat production was

472,000,000 bushels, more than double the drought stricken 1989 crop and exceeded the previous record of 458,900,000 bushels in 1982. Protein content averaged 12.2, test weight 60.7 pounds per bushel, and moisture 10.5 percent. The wheat graded 69 percent No. one and 27 percent No. two. Leading varieties were Tam 107 14.7 percent, Larned 10.7 percent, AgriPro Thunderbird 9.3 percent, Newton 8.3 percent, AgriPro Victory 7.7 percent, and Pioneer 2157 7.2 percent.

1991 Crop: Acres seeded, 11,800,000; harvested acres 11,000,000; abandonment 800,000 acres or 6.8 percent of the planted acres. Wheat seeding started on schedule in September but because of hot, dry weather and short surface moisture, progress was slow. Late September rains, however, provided good seeding moisture. Seeding progress and plant emergence through October were generally ahead of schedule. Additional rains in November allowed good secondary root growth and top growth to occur. For the week ending December 2, the condition of the crop was rated 90 percent good to excellent. Rainfall was about normal throughout most of the spring and temperatures were normal or above. Condition of the wheat crop was rated mostly fair to good all spring. Rains in late May and early June delayed the beginning of wheat harvest about a week but weather was ideal from mid-June on. Farmers made short work of harvest once combines moved into the fields. The May 1 yield forecast was 34 bushels per acre; final was 33 bushels. Total wheat production was 363,000,000 bushels. Protein content averaged 12.9, test weight 59.9 pounds per bushel, and moisture 11.2 percent. The wheat graded 45 percent No. one and 45 percent No. two. Leading varieties were Tam 107 15.4 percent, Larned 11.6 percent, AgriPro Thunderbird 9.0 percent, AgriPro Victory 8.2 percent, Newton 7.6 percent, and AgriPro Abilene 5.9 percent.

1992 Crop: Acres seeded 12,000,000; harvested acres 10,700,000; abandonment 1,300,000 acres or 10.8 percent of the planted acres. Most of the wheat crop was seeded under generally short moisture conditions. A cold front the last week of October brought subfreezing temperatures to most of the State, along with moderate to heavy rains. For the week ending December 1, the condition of the crop was rated only 24 percent good to excellent. Fields stayed too wet to seed until well after the first of January. There was a significant acreage of wheat that was not planted until after the first of December and some farmers were still planting as late as early February. Temperatures and rainfall were well above normal from January through March. Wheat stands came out of dormancy well ahead of normal and were susceptible to freeze damage from March through May. A cold front in late May brought unusually cold weather to most of the State and produced one of the latest freezes ever recorded. Wheat stands in the northwest and west central areas were especially hard hit. Cool wet weather prevailed throughout June and July, causing numerous harvest delays. The May 1 yield forecast was 33 bushels per acre; final was 34 bushels. Total wheat production was 363,800,000 bushels. Protein content averaged 12.4, test weight 59.4 pounds per bushel, and moisture 12.6 percent. The wheat graded 39 percent No. one and 41 percent No. two. Leading varieties were Tam 107 18.3 percent, Karl 11.5 percent, AgriPro Victory 10.2 percent, Larned 8.9 percent, AgriPro Thunderbird 7.5 percent, and Newton 5.8 percent.

1993 Crop: Acres seeded 12,100,000; harvested acres 11,100,000; abandonment 1,000,000 acres or 8.3 percent of the planted acres. Moisture conditions generally were favorable for seeding. Wheat seeding proceeded rapidly under mostly good weather conditions from mid-September to mid-October. Cool, wet weather from late October through the end of the year delayed planting in the eastern third of the state, and some farmers probably did not seed as many wheat acres as they intended. Widespread moisture in early October provided a boost to the emerging crop in all districts, except the southwest. Generally warm temperatures and scattered precipitation prevailed until a major snowstorm at Thanksgiving. Much of the state's wheat crop remained snow covered for a major part of the winter. Dodge City received over 60 inches of snow for the season to set a new record. For the week ending December 6, the condition of the wheat crop was rated 92 percent good to excellent. Temperatures averaged below normal for much of the first six months of 1993, while precipitation was well above normal. This resulted in wheat stands coming out of dormancy well behind normal. Development of the crop remained well behind normal through the growing season. Plentiful moisture resulted in increased pressure from foliar diseases such as rust, powdery mildew, tan spot and

speckled leaf blotch, which were present in virtually all areas of the state. Test cutting took place in extreme southern areas by June 20, but harvest didn't get under way until the last week of June. Wheat harvest was able to make significant progress despite rain in most parts of the state. By July 4, 40 percent of the wheat crop was harvested, compared with the 80 percent average for that date. Heavy rains continued in many areas of the state from late June through July. North central, central, northeast, and east central districts received from 12 to 17 inches of rainfall in July. Substantial acreages were lost, yield prospects plummeted, and quality declined. Through August 1, there was still 10 percent of the crop left to be harvested, mostly in the northwest, west central, north central, central, northeast and east central districts. Completion of harvest was one of the latest on record. Total production was 388,500,000 bushels with a yield of 35 bushels. Protein content averaged 11.4, test weight 59.8 pounds per bushel, and moisture 12.4 percent. The wheat graded 47 percent No. 1 and 39 Percent No. 2. Leading varieties were: Karl 23.0 percent, Tam 107 19.8 percent, and 2163 9 percent.

1994 Crop: Planted acres 11,900,000; harvested acres 11,400,000; abandoned acres 500,000 or 4.2 percent of the planted acres. Wheat seeding proceeded rapidly under mostly good weather conditions. On November 28, the crop was rated 91 percent good to excellent. Mild winter temperatures limited winter kill. Soil moisture was short over winter and into early April but became mostly adequate through the end of May. Freezing temperatures in April caused some damage along the State's southern border. Condition as of May 1 was 50 percent good, 48 percent fair, and 2 percent poor and held through the remainder of the season. Hot, dry weather during June quickly ripened the crop and allowed for a rapid harvest. By June 26, most of the wheat was ripe and harvest was completed by July 3, well ahead of normal. Total production was 433,200,000 bushels with a yield of 38 bushels. Protein content averaged 12.1 percent; test weight, 60.3 pounds per bushels; and moisture, 11.4 percent. The wheat graded 57 percent No. 1 and 36 percent No. 2. Leading varieties were: Karl 23.6 percent, Tam 107 19.0 percent, and 2163 13.8 percent.

1995 Crop: Planted acres 11,700,000; harvested acres 11,000,000; abandoned acres 700,000 or 6 percent of the planted acres. Seeding started quickly and by mid-September was about 25 percent seeded. Dry conditions through mid-October delayed seeding in the western two-thirds of the State. However, October rains delayed, and in some cases prevented, some seeding. Mild weather and favorable moisture supplies encouraged early crop development and by April 9, nearly two thirds of the acreage was jointing. However, freezing temperatures in mid-April caused damage in western areas and condition fell from 85 percent good to excellent on April 9 to 54 percent on May 7. Freeze damage, wet weather, and disease combined to lower the quantity and quality of the crop, except in the northwest where yields and production were excellent. Harvest began later than normal and rains slowed progress until the second week of July when hot, dry weather arrived. Harvest was completed by the end of July. Total production was 286,000,000 bushels with a yield of 26 bushels. Protein content averaged 12.3 percent; test weight, 58.4 pounds per bushel; and moisture, 11.1 percent. The wheat graded 16 percent No. 1 and 43 percent No. 2. Leading varieties were: Karl and improved Karl 22.4 percent, Tam 107 20.6 percent, and 2163 17.1 percent.

1996 Crop: Planted acres 11,800,00; harvested acres 8,800,000; abandoned acres 3,000,000 or 25.4 percent of the planted acres. Only 12 percent had been seeded before a major freeze occurred along with rain and snow on September 22. Seeding resumed in late September and by early November was completed. By late November, emergence and growth had been severely stunted by dry conditions. Condition of the crop had declined to 73 percent fair to good and 24 percent poor to very poor. Dry soil and high winds in the western two thirds of the State over winter reduced crop conditions. By mid-March, crop condition had declined to 16 percent good, 41 percent fair, and 43 percent poor to very poor. Several hard freezes in mid-March caused severe damage in the western third of the State. By April 9, 52 percent of the crop rated poor to very poor while wheat jointing was only 3 percent complete. Large acreages were abandoned as conditions continued to decline in April. In early May, rain began to fall over much of the State and crop conditions began to improve. Harvest began in mid-June. Total production was 255,200,000 with a yield of 29 bushels. Protein content averaged 13.3 percent; test

weight, 60.2 pounds per bushel; and moisture, 12.3 percent. The wheat graded 55 percent No. 1 and 38 percent No. 2. Leading varieties were: Karl and improved Karl 20.9 percent, 2163 19.8 percent, and Tam 107 17.1 percent.

1997 Crop: Planted acres 11,400,000; harvested acres 11,000,000; abandoned acres 400,000 or 3.5 percent of the planted acres. Seeding started in western districts by September 8; however, rains slowed progress and was only 2 percent complete on October 1. Fair weather returned during October and by November 1, most of the acreage had emerged with a condition of 91 percent good to excellent. Warm temperatures brought the crop out of dormancy and by March 30, 23 percent of the crop was jointing. On April 12th and 13th a hard freeze occurred. However, the crop benefitted from very moderate temperatures and overcast days during much of May. Condition fell to 55 percent good to excellent on June 1. Delayed custom harvesters and scattered rains kept harvest at a slow pace during June. By mid-July 7, harvest was ending. Total production was 506,000,000 bushels with a yield of 46 bushels. Protein content averaged 11.8 percent; test weight, 60.6 pounds per bushel; and moisture, 11.9 percent. The wheat graded 72 percent No. 1 and 23 percent No. 2. Leading varieties were: Karl and improved Karl 22.1 percent, Tam 107 17.0 percent, and 2163 15.4 percent.

1998 Crop: Planted acres 10,700,000; harvested acres 10,100,000; abandoned acres 600,000 or 5.6 percent of the planted acres. Seeding began the first week of September and progressed to 90 percent complete by mid-October. Rainfall and a blizzard in late October slowed seeding of the remaining acreage but by November 2 89 percent of the crop had emerged. Crop condition was 82 percent good to excellent entering dormancy, and on March 1 remained high at 77 percent. A storm system on March 7 brought heavy winds and snowfall of up to 18 inches. By March 29, 9 percent of the crop was jointing. During late May, a severe hail and wind storm moved across the west central, southwest central, and south central parts of the State, destroying some acreage and causing significant damage. The first of June turned hot and dry. The crop was rated 69 percent good to excellent with 99 percent of the crop headed and 40 percent showing color. Although harvest began the second week of June, renewed rainfall delayed harvest. However, hot, dry conditions returned and by Fourth of July, 97 percent of the wheat had been harvested compared to an average of 59 percent. Total production was 494,900,000 bushels with a record yield of 49 bushels. Protein content averaged 11.5 percent; test weight, 61.5 pounds per bushel; and moisture, 11.2 percent. The wheat graded 88 percent No. 1 and 11 percent No.2. Leading varieties were: Jagger 20.2 percent, 2137 13.5 percent, and TAM 107 12.6 percent.

1999 Crop: Planted acres 10,000,000; harvested acres 9,200,000; abandoned acres 800,000 or 8.0 percent of the planted acres. Seeding began the first week of September in the southwest, south central and central districts, and by the first of November seeding was nearly complete. Although there was very little snow cover for the crop over winter, crop condition declined only slightly. Wheat began to break dormancy by the end of February and was 36 percent jointed on April 5th. The crop was reported in mostly good condition throughout the spring. Some severe hail storms occurred from mid-May through the first week of June, causing significant damage to the crop. Numerous damaged fields were baled. Harvest began in the Southern areas of the State the week of June 21st. The next week, rains began to fall with the northeast district extremely hard hit by flooding in some counties. Dark heads, as well as sprouting occurred in some fields. Harvest fell behind and by the July 4th weekend only 44 percent of the crop had been harvested, compared to the average of 66 percent. Harvest was complete by the third week of July. Total production was 432,400,000 bushels with a yield of 47 bushels. Protein content averaged 11.5 percent; test weight, 60.2 pounds per bushel; and moisture 12.2 percent. The wheat graded 61 percent No. 1 and 34 percent No. 2. Leading varieties were: Jagger 29.2 percent, 2137 22.0 percent, and TAM 107 8.3 percent.

2000 Crop: Planted acres 9,800,000; harvested acres 9,400,000; abandoned acres 400,000 or 4.1 percent of the planted acres. Seeding started in early September but progressed slowly until scattered showers were received in late September and early October. Seeding was complete by the middle of November. Condition was rated 45 percent good to excellent. Very little precipitation fell during December and most of January leaving some areas without any measurable precipitation since

September. The crop also lacked a snow cover until the end of January when a winter storm covered fields with 2 to 4 inches. The crop broke dormancy by the end of February. By April 2, 44 percent of the crop was jointed. Crop conditions improved during March and April. However, condition declined as temperatures reached the 90's and 100's the last week of May. Eighty-seven percent of the crop was turning color by June 4, as harvest began in the south-central area. Harvest progressed very rapidly and was 94 percent completed by the first week of July. Total production was 347,800,000 with a yield of 37 bushels. Protein content averaged 11.9 percent; test weight 59.9 pounds per bushel; and moisture 11.8 percent. The wheat graded 39 percent No. 1 and 52 percent No. 2. Leading varieties were: Jagger 34.0 percent, 2137 23.1 percent, and TAM 107 6.3 percent.

2001 Crop: Planted acres 9,800,000; harvested acres 8,200,000; abandoned acres 1,600,000 or 16.3 percent of the planted acres. Seeding of the 2001 wheat crop started in early September. With three-quarters of the State's topsoil moisture rated as very short, many producers were waiting for rain. Scattered rains were fell during the last half of September into early October. Dry weather returned by mid-October and seeding progressed to 69 percent complete. Although delayed by rainfall over the next few weeks, by November 26, 98 percent of the acreage had been seeded, 92 percent had emerged, and 55 percent of the crop was rated in good to excellent condition. December started out mild but turned very cold and windy by the end of the month. Stands in some areas were thin. During January and February, the western half of the State received much needed snow cover. The crop broke dormancy by the end of February with crop condition down to 30 percent good to excellent. Freeze damage was 31 percent light to severe. During March, most of the State received precipitation in the form of rain or snow. By the first of April only 2 percent of the crop was jointing compared to the average of 23 percent. Crop conditions continued to decline during April and May despite receiving scattered showers. By mid-April, some acres were being plowed under due to freeze damage, thin stands, and lack of tillering. The crop started to head the last week of April and progressed ahead of normal throughout May. Stripe rust was reported in the southwest, south central, and central districts the last half of May. Cool temperatures during May encouraged wheat head development which, in turn, contributed to higher than expected yields. Harvest of the 2001 crop began in the south-central part of the State during the second week of June and was 99 percent complete by July 8. Total production was 328,000,000 bushels with a yield of 40 bushels. Protein content averaged 12.1 percent; test weight 60.9 pounds per bushel; and moisture 11.8 percent. The wheat graded 67 percent No. 1 and 31 percent No. 2. Leading varieties were: Jagger on 35.8 percent, 2137 22.3 percent, and TAM 107 5.3 percent.

2002 Crop: Planted acres 9,700,000; harvested acres 8,200,000; abandoned acres 1,500,000 or 15.5 percent of the planted acres. Seeding began in early September and despite dry conditions, by November 26th, 98 percent had been seeded, 92 percent emerged, and 55 percent of the crop was in good to excellent condition. Crop condition declined over the winter months to 26 percent by the first week of March. Freeze damage was 41 percent light to severe. Dry conditions persisted during March, continuing to stress the crop. Although scattered light showers in April helped some areas, much of western and central Kansas remained very dry. Crop growth slowed due to the lack of moisture; however, disease and insect damage was generally light to none. The crop began to head the last week of April and progressed ahead of normal throughout May. Cool temperatures during May encouraged wheat head development which, in turn, contributed to higher than expected yields. During mid-May, several inches of rain fell in southeastern Kansas resulting in some flooding. Stripe rust was reported in the southwest, south central, and central districts during the last half of May. Harvest began in a few areas during the second week of June. Widespread showers slowed harvest initially but by the last week of June, harvest progress was nearly average. Producers made rapid progress with harvest as the weather turned hot and dry and were virtually complete by July 7. Total production was 270,600,000 bushels with a yield of 33 bushels. Protein content averaged 13.0 percent with test weight at 60.1 pounds per bushel and moisture at 11.2 percent. The wheat graded 48 percent No. 1 and 47 percent No. 2. Leading varieties were: Jagger 42.8 percent; 2137 15.5 percent; and Karl/Karl92 3.6 percent.

2003 Crop: Planted acres 10,400,000; harvested acres 10,000,000; abandoned acres 400,000 or 3.8 percent of the planted acres. Seeding of wheat acres began the first week of September and progressed ahead of normal through completion. Fifty percent was seeded and 18 percent was emerged by the end of September, ahead of the 5-year averages of 36 percent and 14 percent, respectively. Widespread showers the first week and the last two weeks of October improved soil moisture for the seeding of wheat. Wheat seeding was 96 percent complete and emergence was at 87 percent by the first of November. Wheat condition was just above 50 percent good to excellent all fall and by the first of December was up to 59 percent good to excellent. Ninety-eight percent of the crop was emerged by the first of December. Wheat condition declined during the winter due to dry conditions. On March 2, 26 percent of the crop was rated in poor to very poor condition. On April 27th, 16 percent of the crop was in poor to very poor condition, compared to 40 percent last year. Widespread showers the last two weeks of April improved conditions. Subsoil remained short to very short in most of the Western, North Central, and Central parts of the State despite the rains. Crop progress was near normal during spring with 86 percent jointed on April 27th, compared with 66 percent last year and the 5-year average of 80 percent. Statewide, subsoil conditions were 51 percent short to very short, compared to 69 percent last year. As of June 1, wheat heading was virtually complete and 37 percent of the crop had begun to turn color. This was ahead of the 36 percent in 2002 but behind the five-year average of 42 percent. Temperatures were moderate during May and the State received wide-spread showers throughout the month. Widely scattered showers and cool temperatures the first two weeks of June helped wheat heads fill. Continued scattered showers the third week slowed wheat harvest but by the end of the month, conditions improved allowing harvest to reach 58 percent by June 29th. Hot, dry weather the first two weeks of July accelerated harvest, with 99 percent of the crop harvested on July 13. This compared to 100 percent the previous year and 98 percent for the five-year average. Total production was 480,000,000 bushels with a yield of 48 bushels. Protein content averaged 11.7 percent with test weight at 60.7 pounds per bushel and moisture at 11.5 percent. The wheat graded 73 percent No. 1 and 24 percent No. 2. Leading varieties were Jagger on 40.9 percent of the planted acreage, 2137 on 8.6 percent, TAM 110 on 4.2 percent, Trego on 3.5 percent, and Jagalene on 3.0 percent. Blends of two or more varieties accounted for 15.2 percent of the acres planted. All Hard White varieties accounted for 4.9 percent of the State's wheat acreage. Trego was the leading Hard White variety.

KANSAS WHEAT, 1866-2003

Year	Acres Planted 1,000	Acres Harvested 1,000	Yield, Bushels	Production, Bushels 1,000	Price per Bushel	Farm Value
1866	-	68	19.0	1,292	1.33	\$1,718,360
1867	-	89	12.5	1,112	1.32	1,467,840
1868	-	99	14.5	1,436	1.00	1,436,000
1869	-	151	16.0	2,416	0.63	1,522,080
1870	-	156	15.5	2,418	0.77	1,861,860
1871	-	169	16.0	2,704	1.02	2,758,080
1872	-	186	11.5	2,139	1.26	2,695,140
1873	-	310	14.0	4,340	0.92	3,992,800
1874	-	705	13.7	9,658	0.76	7,340,080
1875	-	735	17.0	12,495	0.76	9,496,200
1876	-	1,000	14.5	14,500	0.79	11,455,000
1877	-	1,021	13.5	13,784	0.80	11,027,200
1878	-	1,705	16.0	27,280	0.59	16,095,200
1879	-	1,861	9.3	17,307	0.89	15,403,230
1880	-	2,340	10.0	23,400	0.70	16,380,000
1881	-	2,180	9.5	20,710	1.05	21,745,500
1882	-	1,600	20.0	32,000	0.67	21,440,000
1883	-	1,220	17.5	21,350	0.78	16,653,000
1884	-	2,190	18.0	39,420	0.45	17,739,000
1885	-	1,370	10.5	14,385	0.65	9,350,250
1886	-	1,320	11.5	15,180	0.58	8,804,400
1887	-	1,240	9.5	11,780	0.61	7,185,800
1888	-	1,090	15.0	16,350	0.88	14,388,000
1889	-	1,583	19.2	30,394	0.55	16,716,700
1890	-	2,160	15.0	32,400	0.77	24,948,000
1891	-	3,660	16.0	58,560	0.73	42,748,800
1892	-	3,540	18.0	63,720	0.52	33,134,400
1893	-	3,490	9.0	31,410	0.42	13,192,200
1894	-	3,860	10.5	40,530	0.44	17,833,200
1895	-	2,390	8.0	19,120	0.45	8,604,000
1896	-	3,130	14.5	45,385	0.63	28,592,550
1897	-	3,050	17.0	51,850	0.74	38,369,000
1898	-	4,580	15.0	68,700	0.50	34,350,000
1899	-	3,804	10.2	38,801	0.52	20,176,520
1900	-	4,290	18.2	78,078	0.55	42,942,900
1901	-	5,260	17.0	89,420	0.59	52,757,800
1902	-	4,300	11.0	47,300	0.55	26,015,000
1903	-	5,850	15.8	92,430	0.59	54,533,700
1904	-	5,100	12.5	63,750	0.89	56,737,500
1905	-	5,580	14.0	78,120	0.71	55,465,200
1906	-	5,810	14.5	84,245	0.58	48,862,100
1907	-	6,880	11.0	75,680	0.82	62,057,600
1908	-	6,770	12.5	84,625	0.88	74,470,000
1909	6,488	5,974	13.0	77,451	0.98	75,902,000
1910	6,983	4,870	12.4	60,475	0.87	52,613,000
1911	7,373	5,300	10.7	56,799	0.86	48,847,000
1912	7,867	6,460	14.5	93,695	0.80	74,956,000
1913	7,791	7,250	12.0	86,790	0.78	67,696,000
1914	9,112	8,650	20.0	172,750	0.93	160,658,000
1915	9,493	8,520	12.5	106,478	0.97	103,284,000
1916	8,683	8,170	12.0	97,980	1.44	141,091,000
1917	9,608	3,730	11.5	42,785	2.12	90,704,000
1918	10,199	7,250	13.5	97,710	2.00	195,420,000
1919	11,671	11,624	13.2	153,311	2.14	328,086,000
1920	10,559	9,294	15.6	144,933	1.76	255,082,000

KANSAS WHEAT, 1866-2003 (Continued)

Year	Acres Planted 1,000	Acres Harvested 1,000	Yield, Bushels	Production, Bushels 1,000	Price per Bushel	Farm Value
1921	11,470	10,554	12.7	133,964	1.03	137,983,000
1922	12,299	9,756	12.8	124,809	0.94	117,320,000
1923	11,601	8,299	10.1	83,804	0.90	75,424,000
1924	10,226	9,817	16.0	157,022	1.15	180,575,000
1925	10,941	8,755	9.2	80,539	1.48	119,198,000
1926	11,695	10,409	14.8	153,991	1.20	184,789,000
1927	12,750	10,202	11.2	114,216	1.24	141,628,000
1928	12,761	10,639	16.3	173,185	0.99	171,453,000
1929	13,142	12,550	12.4	155,563	0.99	154,007,000
1930	13,687	13,132	14.2	186,277	0.63	117,355,000
1931	13,898	13,623	18.5	251,885	0.33	83,122,000
1932	12,963	10,365	11.6	120,178	0.33	39,659,000
1933	13,231	7,361	9.1	66,931	0.71	47,521,000
1934	12,699	8,610	9.8	84,323	0.84	70,831,000
1935	13,456	6,888	9.3	64,055	0.89	57,009,000
1936	14,254	10,458	11.5	120,234	1.00	120,234,000
1937	17,110	13,172	12.0	158,052	1.01	159,633,000
1938	16,942	14,494	10.5	152,163	0.57	86,733,000
1939	13,703	9,574	12.0	114,858	0.66	75,806,000
1940	12,360	8,739	14.5	126,553	0.64	80,994,000
1941	13,091	11,799	14.7	173,332	0.94	162,932,000
1942	10,861	10,374	19.3	200,101	1.09	218,110,000
1943	10,741	10,159	14.2	144,241	1.37	197,610,000
1944	13,210	11,377	16.5	187,700	1.42	266,534,000
1945	14,148	13,416	15.5	207,939	1.49	309,829,000
1946	14,006	13,147	16.2	212,977	1.91	406,786,000
1947	15,404	14,855	19.3	286,702	2.25	645,080,000
1948	14,634	13,221	17.5	231,368	1.97	455,795,000
1949	16,244	14,279	11.0	157,069	1.89	296,860,000
1950	13,807	12,280	14.5	178,060	2.02	359,681,000
1951	14,773	9,701	13.0	126,113	2.13	268,621,000
1952	15,068	14,649	21.0	307,629	2.14	658,326,000
1953	14,315	11,573	12.5	144,662	2.11	305,237,000
1954	11,738	10,069	17.5	176,208	2.18	384,133,000
1955	10,799	8,559	15.0	128,385	2.06	264,473,000
1956	10,907	9,244	15.5	143,282	2.00	286,564,000
1957	7,199	5,269	19.0	100,111	1.96	196,218,000
1958	10,727	10,433	28.5	297,340	1.78	529,265,000
1959	10,727	10,329	20.5	211,744	1.78	376,904,000
1960	10,727	10,329	28.5	294,376	1.74	512,214,000
1961	10,727	10,329	26.5	273,718	1.79	489,955,000
1962	9,762	8,986	23.5	211,171	2.06	435,012,000
1963	10,641	8,627	21.5	185,480	1.86	344,993,000
1964	10,535	9,490	22.0	208,780	1.37	286,029,000
1965	11,272	10,059	23.5	236,386	1.35	319,121,000
1966	11,047	10,260	19.5	200,070	1.64	328,115,000
1967	13,146	11,081	20.0	221,620	1.35	299,187,000
1968	11,963	9,751	26.0	253,526	1.22	309,302,000
1969	10,767	9,849	31.0	305,319	1.19	363,330,000
1970	9,690	9,061	33.0	299,013	1.25	373,766,000

KANSAS WHEAT, 1866-2003 (Continued)

Year	Acres Planted 1,000	Acres Harvested 1,000	Yield, Bushels	Production, Bushels 1,000	Price per Bushel	Farm Value
1971	9,593	9,061	34.5	312,605	1.32	412,639,000
1972	10,300	9,400	33.5	314,900	1.68	529,032,000
1973	10,800	10,400	37.0	384,800	3.75	1,443,000,000
1974	12,000	11,600	27.5	319,000	3.86	1,231,340,000
1975	12,800	12,100	29.0	350,900	3.42	1,200,078,000
1976	12,900	11,300	30.0	339,000	2.59	878,010,000
1977	13,200	12,100	28.5	344,850	2.24	772,464,000
1978	11,300	10,000	30.0	300,000	2.89	867,000,000
1979	12,100	10,800	38.0	410,400	3.72	1,526,688,000
1980	13,000	12,000	35.0	420,000	3.78	1,587,600,000
1981	13,900	12,100	25.0	302,500	3.76	1,137,400,000
1982	14,100	13,100	35.0	458,500	3.41	1,563,485,000
1983	13,200	10,800	41.5	448,200	3.40	1,523,880,000
1984	13,300	11,200	38.5	431,200	3.32	1,431,584,000
1985	12,400	11,400	38.0	433,200	2.86	1,238,952,000
1986	11,500	10,200	33.0	336,600	2.25	757,350,000
1987	10,700	9,900	37.0	366,300	2.43	890,109,000
1988	10,200	9,500	34.0	323,000	3.58	1,156,340,000
1989	12,400	8,900	24.0	213,600	3.74	798,864,000
1990	12,400	11,800	40.0	472,000	2.51	1,184,720,000
1991	11,800	11,000	33.0	363,000	2.81	1,020,030,000
1992	12,000	10,700	34.0	363,800	3.13	1,138,694,000
1993	12,100	11,100	35.0	388,500	3.00	1,165,500,000
1994	11,900	11,400	38.0	433,200	3.32	1,438,224,000
1995	11,700	11,000	26.0	286,000	4.59	1,312,740,000
1996	11,800	8,800	29.0	255,200	4.63	1,181,576,000
1997	11,400	10,900	46.0	501,400	3.16	1,584,424,000
1998	10,700	10,100	49.0	494,900	2.53	1,252,097,000
1999	10,000	9,200	47.0	432,400	2.25	972,900,000
2000	9,800	9,400	37.0	347,800	2.65	921,670,000
2001	9,800	8,200	40.0	328,000	2.69	882,320,000
2002	9,700	8,200	33.0	270,600	3.41	922,746,000
2003	10,400	10,000	48.0	480,000	1/ 3.15	1/ 1,512,000,000

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