# 100 Years of Dairy Science at Kansas State University

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## History

- **1863**: Kansas State Agricultural College established.
- **1883**: Butter and cheese production began as a No. 2 Cooley Creamery with four cans, a butter worker, churn, milk pails, strainer, and dairy thermometer were received.
- **1899**: Dairy school was established with departments in butter making, cheese making, and dairy farming.
- **1905**: Dairy train operated over the St. Joseph and Grand Island Railway.
- **1909**: National Dairy Show in Chicago – dairy products received honorable mention and market milk received a gold medal.
- **1911**: The College offered a 4-yr course in dairying, a 2-yr short course in dairy farming, a 10-wk commercial course in dairy manufacturing and short courses for testing dairy products.
- **1913**: Dairy commissioner office authorized the college to inspect all 250 creameries, dairies, ice cream factories, and cream buying stations in the state and to check the accuracy of the tests made by the cream sellers.
- **1921**: Dairy department advised the 12 state institutional dairy herds, supervised advanced registry records for the dairy cattle breeders, and developed and conducted experiments on the 4 dairy breeds.
- **1931**: The College was renamed Kansas State College of Agriculture and Applied Science.
- **1933**: The new Dairy barn opened northwest of campus.
- **1940**: Dairy Manufacturing was a new curriculum.
- **1948**: Dairy Herd cows were classified for type by the Holstein Friesian Association.
- **1950**: Kansas Artificial Breeding Service Unit (KABSU) was started to initiate artificial insemination (AI).
- **1958**: Weber Hall, the animal industries building was dedicated.
- **1961**: Dairy Husbandry became Dairy Science.
- **1964**: Dairy Science and the Dairy Sales counter moved to Call Hall.
- **1989**: Department of Dairy Science was named.
- **1995**: Dairy facilities and expansion (1995 - present)
- **1997**: Dairy research and educational programs started.
- **2003**: Dairy composition and milk composition (2003 - present)
- **2005**: Dairy and livestock showmanship for scholarships.

## Dairy Husbandry

- **Old Dairy 1933**
- **Present Dairy**
- **Buttermakers class, 1903**
- **Dairy Hall, 1905**

## Research Topics

- Comparing cream contents of Shorthorn, Jersey, and Devon cows (1875).
- Perfecting Kansas Ambrosia, a mixture of ice cream and buttermilk (1900).
- Comparing hand milking to machine milking throughout the lactation cycle (1907).
- Sludge preservation and processing (1911-present).
- Milk flavor (1980-present).
- Dietary protein, carbohydrate and fat interactive effects on milk composition and yield (1985-present).
- Byproduct diets for dry and lactating dairy cows (1985-present).
- Reproductive management (1985-present).
- Ovulation control (1990-present).
- Dairy facilities and expansion (1995-present).
- Reproductive approach to address nutrient challenges during the lactation cycle (1997-present).
- Processing plant considerations (2003).
- Composition of growth and growth mechanisms (2005).
- Vaccine administered with needle-free injections in Holstein calves (2005-present).
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## Activities

- **Dairy Cattle Judging** – began in 1907.
- **Comparing cream contents of Shorthorn, Jersey, and Devon cows (1875).**
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- **Comparing hand milking to machine milking throughout the lactation cycle (1907).**
- **Comparing cream contents of Shorthorn, Jersey, and Devon cows (1875).**
- **Heat abatement (1995-present).**
- **Cow comfort (1995-present).**
- **Dairy facilities and expansion (1995-present).**
- **Dairy Cattle Judging** – began in 1907.
- **Comparisons of cream contents of Shorthorn, Jersey, and Devon cows (1875).**
- **Comparing hand milking to machine milking throughout the lactation cycle (1907).**
- **Comparing cream contents of Shorthorn, Jersey, and Devon cows (1875).**
- **Heat abatement (1995-present).**
- **Cow comfort (1995-present).**
- **Dairy facilities and expansion (1995-present).**
- **Reproductive approach to address nutrient challenges during the lactation cycle (1997-present).**
- **Processing plant considerations (2003).**
- **Heifer development (2004).**
- **Composition of growth and growth mechanisms (2005).**
- **Vaccine administered with needle-free injections in Holstein calves (2005-present).**

## ADSA Awards Received by Faculty and Alumni

- Agway Young Scientist – 1
- Amer. Feed Industry – 4
- Award of Honor – 5
- Borden, Inc. – 7
- Distiniguished Service – 2
- Foundation Scholar – 1
- Foundation Teaching – 2
- Land O’ Lakes teaching – 1
- National Student officer – 1
- Past Presidents – 7
- Outstanding Advisor – 3
- Pharmacia Animal Health – 1
- NAAB Research Award – 1
- Academic Quadrathlon – teams compete for buckles
- Judging camps – began in 1993 for youth interested in livestock judging

## Recent ADSA Awards Received

- Jeffrey S. Stevenson – Agway Inc. Young Scientist Award (1990)