Soybeans have a colorful history. While most of the early history of soybeans is unknown due to the lack of records, historians have pieced together a colorful history of the soybean. Dr. Theodore Hymowitz, an authority on the history of the soybean crop at the University of Illinois, indicated the beginnings of the domestication of the soybean might never be exactly known. Evidence suggests that the soybean emerged as a domesticate during the Zhou dynasty in the eastern half of northern China. The oldest records appear in bronze inscriptions and in early writings that date not much earlier than the 11th century. Since domestication is a process of trial and error, and is not a time-datable event, this process probably took place during the Shang dynasty (ca. 1500-1100 B.C.).

By the first century A.D., soybeans were probably distributed throughout China by trade missions and with time to other Asian countries. The earliest Japanese reference to the soybean was found in the Kojiki (Records of Ancient Matters) that was completed in 712 A.D.

In the 16th and 17th centuries, there are several references to native soy foods in diaries of European visitors to China and Japan. They reported that the Asians were quite creative in converting the soybean into several stable foods such as tofu, soy milk, miso, and soy sauce. These foods were unfamiliar to these early explorers and merchants.

The early history of soybean in the United States involves many famous Americans. A few of the key dates and persons involved in the growth of soybeans in the United States are as follows:

1765 The first soybeans were brought to the United States by Samuel Bowen, a seaman employed by the East India Company, and planted by Henry Yonge on his plantation "Greenwich," located at Thunderbolt, a few miles east of Savannah, Georgia. Mr. Bowen used the soybean to produce soy sauce and a soybean noodle for export to England. Mr. Bowen exported several agricultural products to England that ended or were drastically reduced by the Revolutionary War in 1776.

1770 Benjamin Franklin sent seeds from London to the Botanist John Bartram for planting near Philadelphia, PA. He also described in a letter to Bartram how a cheese (tofu) was made from the soybeans in China.

1829 Professor Thomas Nuttall grew soybeans in the Botanic Gardens in Cambridge, Mass.

1851 Dr. Benjamin Franklin Edwards received a gift of Japan peas (soybeans) for professional services he provided to a group of Japanese sailors. Dr. Edwards provided the soybeans to a friend John H. Lea for planting in his garden in Alton, IL. Lea distributed seeds, some were planted by J.J. Jackson in Davenport, Iowa, and by A.H. Ernst in Cincinnati, Ohio the following year. The significance of these events was that soybeans were being distributed in the Midwest for trial plantings.

1854 Commodore Matthew Perry's expedition that opened Japan to western trade recorded the use of a bean called the Japan pea (soybean) and obtained seeds for U.S. farmers. The Perry Expedition (1852-1854) provided ample publicity to soybeans.

1878 George Cook and James Nielson of the New Jersey Agricultural Experiment Station obtained soybean seeds while on a trip to Europe that they planted on the College Farm in 1879. The results of these successful tests were repeated at other agricultural experiment stations.

1890's Soybeans were widely tested as pasture, hay, silage, and green cover crops. Feeding studies with horses, cattle, sheep, dairy cows and poultry were conducted at several state university research facilities. Plant parts were analyzed to assess the value of the potential crop.
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1893 W.P. Brooks at the Massachusetts Station conducted classic studies showing the benefits of inoculation of soybean at planting and the relationship of nodules to seed yield. Researchers at the New Jersey and Kansas stations confirmed his results.

1898 United States Department of Agriculture established the Office of Foreign Seed and Plant Introduction. This organization developed the formal Plant Introduction system to provide permanent numbers to seed lots.

1904 George Washington Carver at Tuskegee Institute discovered soybeans were a rich source of protein and oil. He also encouraged farmers to rotate their crops with soybeans.

1905 A commercial soybean inoculum was marketed. This advance was an important step in assuring successful soybean rooting, growth and development.

1910 Charles V. Piper and William J. Morse, two USDA researchers, co-authored a paper entitled “The Soybean: History, Varieties and Field Studies”.

1911 Soybeans imported from Manchuria were first processed in this country in a plant near Seattle, Wash. Domestically produced soybeans were first processed in a cottonseed oil mill owned by Elizabeth City Oil and Fertilizer Co. at Elizabeth, N.C.

1917 T.B. Osborne and L.B. Mendel demonstrated that heating improved the nutritional quality of soybeans by inactivating some of heat-labile antinutritional components in soybeans.
were also initiated at each state institution and several private soybean breeding companies were founded.

**1990's** The 1990s are known in some groups as the beginning of the era of biotechnology. Researchers developed knowledge on the individual gene function, the ability to insert genes in elite germplasm and ways to use genomics to improve soybean growth and development. One of the most significant advances was the wide acceptance of herbicide-resistant soybean varieties that would reduce the cost and labor involved in controlling weeds in soybeans.

**2000's** Research is proving soybeans are a valuable renewable resource that is finding increased use in biodiesel fuels, biodegradable polymers, environmentally-friendly lubricants and many industrial chemicals.

### Summary Comments

Today, soybeans are extremely important to the U.S. farm economy, valued at about $15 billion dollars, annually. Soybeans are planted on more than 73 million acres, with trend lines averaging about 40 bushels per acre and total production of 2.8 billion bushels.

Soybean meal is the protein of choice for feed manufacturers. The United Soybean Board estimates about 46 percent of the soybean meal produced is used by broilers, layers and turkeys. Swine uses another 25 percent, with beef (13%), dairy (8.5%), pet foods (2.5%), other feed (2%) and food and industrial uses (2.5%), respectively.

Soy oil historically accounts for about 35 percent of the value of soybeans and over 80 percent of the total fats and edible oil consumption in the United States. A breakdown of soybean oil uses include baking and frying oils (46%), salad or cooking oil (43%), margarines (7%), other edible products (1%) and industrial products (3%). It is anticipated that industrial oil uses will rapidly expand with greater use of biodiesel, polymers and industrial chemicals developed from soybean oil.

Soybeans indeed have a colorful history, involving ancient cultures and early explorers. The soybean is a protein source that had a pivotal role in expanding commercial livestock and poultry industries, an edible oil important to world nutrition, and many dedicated individuals with the foresight to see the potential of the soybean. It is a truly remarkable crop that has changed the world.

### References for further study:


