

Do You Know?

1. Soy crayons are the first advancement in crayons since they were introduced in the US in the late 1800's. (True or False)
2. How many soybeans in a pod? (3, 5, or 9)
3. Soybean oil provides an environmentally friendly fuel for diesel engines? (True/False)
4. What percent of the soybean and livestock farms in the country are still family farms? (10%, 45%, 98%)
5. A bushel of soybeans weighs about? (30#, 60#, 90#)
6. Why should soybeans be heated/steamed/blanched before eating? (a. improves color; b. destroy bacteria; c. promote efficient digestion; d. soften the soybean; e. All of these reasons)
7. What do wood adhesives, soy flour, paint removal solvents, tofu, herbicide adjuvants, and your double chocolate chip cookies have in common?
 - A. all are major industrial products
 - B. all include a product of soybean
 - C. none are made in the U.S.
8. 2013 projections for a total of non-land costs to produce one acre of soybeans is: (\$105; \$230; \$308)

Answers

1. True; 2. 3; 3. True; 4. 98%; 5. 60#; 6. e/all of the reasons; 7. b/all include a product of soybean 8. \$308, which leaves only an estimated \$18 per acre net for cash rent and other land costs.

Soybean Production

National Ag Statistics 2011 reports for New York State reveal 277 thousand acres were harvested yielding more than 11.9 million bushels valued at almost \$137 million, which puts millions of dollars back into local economies for production costs, labor, machinery and equipment, supplies, repairs and maintenance and so much more.

U.S. Planting: Soybean crops are planted beginning in late April and last through June. U.S. Harvest: Soybeans are mainly harvested in late September and is finished by the end of November.

Soybeans can produce at least twice as much protein per acre than any other major vegetable or grain crop besides hemp .



**NEW YORK FARM BUREAU
FOUNDATION FOR AGRICULTURAL
EDUCATION, INC.**

P.O. Box 5330
Albany, New York 12205
Phone: 1-800-342-4143
Fax: 518-431-5656
E-mail: sprokop@nyfb.org
www.nyfbfoundation.org

Sowing the Seeds of Understanding
The Foundation
New York Farm Bureau
Foundation for Agricultural Education, Inc.

www.nyfbfoundation.org

Soybeans



The Mission of the Foundation is to inform and educate all New Yorkers regarding agriculture and to increase understanding between the farm and non-farm public.



Do You Know?

Versatility



Soybean History!

- ***2853 BC** - the reigning Chinese Emperor named a group of sacred plants that were considered essential and these included soybeans.
- ***1765** - Chines Vetch (soybeans) were introduced in Georgia by Samuel Bowen.
- ***1804** - A Yankee clipper ship brought soybeans to the U.S from China. They served as an inexpensive ballast and were dumped and replaced with cargo in the U.S.
- ***1829** - U.S. farmers first grew soybeans, a variety for making soy sauce.
- ***Late 1800's** - Significant numbers of farmers began to grow soybeans as cattle feed.
- ***1929** - U.S. soybean production had grown. Soybean pioneer "Bill" Morse left on a two-year trip to China during which he gathered more than 10,000 soybean varieties for U.S. researchers to study.
- ***1931** - Ford hired chemists to produce artificial silk. They succeeded in making a textile. It was usable in the making of suits, felt hats, and overcoats. It never reached the commercial market.
- ***1935** - Henry Ford, used many soybean derived parts including gearshift knobs, window trim, door handles, and accelerator parts in his vehicles.
- ***1940** - the U.S. soybean crop had grown and was a net exporter of soybeans and soybean products.

Today, the U.S. is one of the world's top producers of soy.

The Many Uses of Soybeans! Only a Partial Listing...

Consumer Products

Animal Care
Auto Care
Bar Chain Oils
Building Products
Candles
Cleaning Products
Clothing
Coatings and Sealants
Crayons
Diesel Additives
Engine Oils
Flooring
Fuel Additives
Furniture
Garden
Grease
Hair Care
Hand Cleaners
Hydraulic Fluids
Lubricants all purpose
Mattresses
Paint Products
Paint Strippers
Personal Care
Soy Biodiesel
Waxes

Industrial products

Adhesives
Agri. Adjuvants
Concrete Supplies
Dielectric Fluids
Dust Suppressants
Flooring
Hydraulic Fluids
Industrial Cleaners
Industrial Lubricants
Industrial Solvents
Metalworking Fluids
Odor Reduction
Paint Strippers
Printing Inks/ Supp.
Propylene Glycol
Surfacing Agents

Ingredients

Industrial Plastics
Industrial Proteins
Industrial Solvents
Soybean Oils - of varied grades/uses
Surfactants & Emulsifiers
Waxes



Soybean Nutrition

- Soybeans have great nutritional value and are used in making many things. When first grown in the U.S., they were used as cattle feed, and today, they are used in a variety of processed foods for human consumption. They are even used to make soy ink, which is used in printing textbooks and newspapers.
- For human consumption, soybeans must be cooked.
- Soybeans are considered to be a source of complete protein. A complete protein is one that contains significant amounts of all the essential amino acids that must be provided to the human body because of the body's inability to synthesize them.
- Some studies indicate that the consumption of soy may reduce the risk of colon cancer.

The Foundation has developed tools and resources to "sow the seeds of understanding". Our programs are available throughout New York State. We invite all who utilize agriculture in the form of food, shelter and clothing to invest in our programs and help us as we work to accomplish our mission. Thank you to the New York Corn & Soybean Growers Assoc. for their help and financial support.