

Soybeans

DESCRIPTION

Soybeans are composed of a pod (lignocellulosic biomass), bean (oil and protein) and stalk (lignocellulosic biomass). Soybeans are used for human consumption, as animal feed and in over 140 non-food products like fuel, ink, glue and makeup. In addition to the bean, there are [crop residues](#), although these are typically left to decompose in the field.

CLASSIFICATION

Plant-based oils, plant-based proteins, lignocellulosic biomass

SOURCE INDUSTRY

Soybean farming. See the [Grains & Crops industry roadmap](#).

ANNUAL VOLUME GENERATED IN WISCONSIN

2 million tons (based on 66.88 million bushels at 60 pounds/bushel)¹

CURRENT APPLICATIONS

Human and animal consumption, chemicals, waxes, biodiesel

PRICE

\$310 per ton (\$9.30/bushel)²

APPLICABLE BIOREFINING PROCESSES

[Esterification/transesterification](#), [lipid extraction](#)

REFERENCES

¹ Weights, Measures and Conversion Factors. Small Grains, the Internet Source for Small Grain Growers. www.smallgrains.org/WHFACTS/convert.htm (8 April 2004).

² Wisconsin Soybean, Corn Price Up for Mid-March. 2004. Wisconsin Ag Connection, April 2. www.wisconsinagconnection.com/story-state.cfm?ID=409&yr=2004 (8 April 2004).

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