

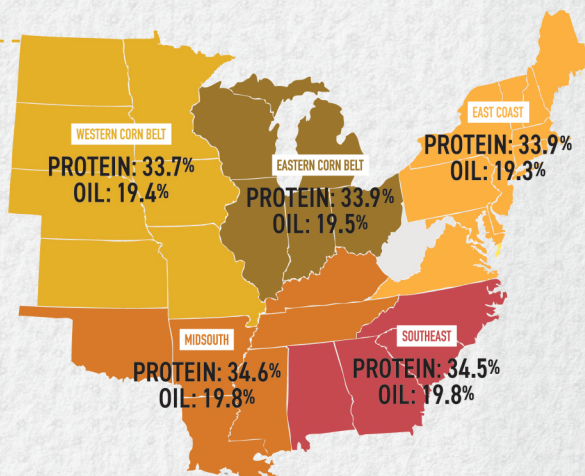
# RESEARCH DEFINES SOYBEAN quality APPLICATIONS

**quality** [kwol-i-tee] noun

an essential or distinctive characteristic, property or attribute

## COMPOSITION AS SOYBEAN **quality**

The annual U.S. soybean checkoff-funded quality survey began in 1986. Each October, farmers send samples to be analyzed for protein, key amino acids and oil content by near-infrared reflectance (NIR). The data aid customers worldwide with purchasing decisions. **Checkoff investments in production research, including quality, return an average \$9.42.**



**quality** [kwol-i-tee] noun

an accomplishment or attainment

## STORAGE AND HANDLING PROTECT

### **quality**

Research investigating harvest weed seed control practices, storage time at various moisture levels and countless other cultural practices **impact quality as soybeans move from fields to storage facilities to domestic and global customers.**



**quality** [kwol-i-tee] noun

character with respect to fineness or grade of excellence

## SOYBEAN GRADES AS **quality**

**Soybean quality grades 1 through 5 impact profitability.** Checkoff-funded research finds digital image processing can improve grading to help grain inspectors grade soybeans more efficiently and consistently. Long-term, the data could help farmers improve variety selection.

**quality** [kwol-i-tee] noun

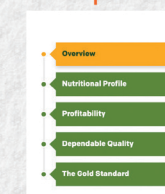
producing or providing products or services of high quality or merit

## HIGH-**quality** MEETS GLOBAL CUSTOMER NEEDS

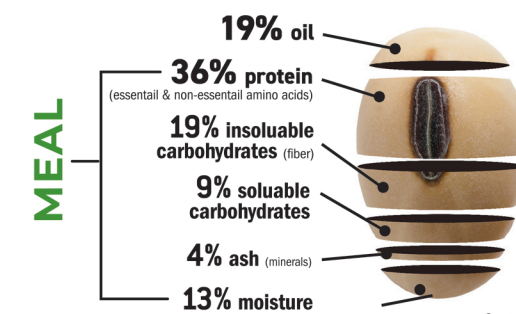
U.S. soybeans provide nutritious meal and oil, excellent functionality and performance. Ongoing genetics and nutrient research improve protein and oil content and component quality. Checkoff-funded research investments to enhance quality **return an average value of \$18.18.**

**quality** [kwol-i-tee] noun

high grade; superiority; excellence



## Composition of a Soybean



Source: USB

## MEAL **quality**: PROTEIN, ENERGY AND AMINO ACIDS

Checkoff-funded research improves nutritional qualities like protein level, digestibility and amino acid content. A recent meta-analysis quantifies the relationship between country of origin and chemical composition, protein quality and nutritive value of meal. **The Nutrient Value Calculator factors in price, protein and more to confirm U.S. soybean meal quality.**

**quality** [kwol-i-tee] noun

native excellence or superiority

## HIGH OLEIC SOYBEANS: FOOD OIL **quality**

Research showcases the functionality and versatility of high oleic soybean oil – **an oil that provides a sustainable, highly stable oil for the food industry and industrial users.** Global regulatory approval adds demand, and ongoing research demonstrates its benefits.



**quality** [kwol-i-tee] noun

marked by a concentrated expenditure of involvement, concern or commitment

## SOYFOODS: BUYERS DEMAND HIGH **quality**

Production practices directly impact the quality of specialty soybeans that produce edamame, natto, soymilk, tofu and other products. Checkoff-funded **research identifies and improves on best management practices** for soybeans destined for food uses.



The Soybean Research and Information Network (SRIN) is a joint effort of the North Central Soybean Research Program and United Soybean Board. The online resource contains checkoff-funded soybean production challenge research findings with direct links to the respective underlying scientific studies housed in the National Soybean Checkoff Research Database.

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