

HAVE YOU EATEN THIS PLANT BEFORE?



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 *swipe to find out*

YOU VERY LIKELY HAVE!



 *swipe to learn more*

SOYBEAN

MADE BY NATURE - GUIDED BY US

WILD SOYBEAN (GLYCINE SOJA) GREW AS SPRAWLING VINES WITH TINY, DARK SEEDS THAT SHATTERED EASILY AND WERE DIFFICULT TO HARVEST. THIS WAS THE REALITY OF WILD SOYBEAN THOUSANDS OF YEARS AGO.



THOUSANDS OF YEARS LATER



THROUGH DOMESTICATION AND GENERATIONS OF CAREFUL SELECTION, HUMANS DEVELOPED THE MODERN SOYBEAN WE KNOW TODAY:

LARGER YELLOW SEEDS, NON-SHATTERING PODS, UPRIGHT PLANTS, HIGHER YIELDS, AND IMPROVED OIL AND PROTEIN CONTENT. READY FOR US TO ENJOY.

OLD TRAITS

- Very small, hard black seeds
- Pod shattering (pods burst open and drop seeds before harvest)
 - Low yields and less uniform plants
- Vining, sprawling growth not suited for farming
- Lower oil and protein content



NEW TRAITS

- Larger yellow seeds with improved oil and protein
- Non-shattering pods for easier harvest
- Higher yields and more uniform plants
- Upright growth, easier to farm
- Varieties adapted for food, feed, and different climates



WHY WE CAN'T STOP HERE!



**MODERN BREEDING IS STILL NEEDED TO
DEVELOP SOYBEAN THAT
ADDRESS TOMORROW'S NEEDS BECAUSE:**

- ❶ Heat, drought, and changing rainfall reduce pod set, seed filling, and overall yield.
- ❷ Diseases and pests (soybean rust, root rot, nematodes) continue to limit production.
- ❸ Undesirable traits like pod shattering and seed hardness can still appear in some environments and reduce harvest efficiency.
- ❹ Protein and oil quality need improvement to meet food, feed, and industrial demands.
- ❺ Sustainability goals require soybeans that use fewer inputs and adapt better to new climates.

**BECAUSE THE SOYBEAN WE ENJOY TODAY WEREN'T BUILT FOR
CURRENT AND FUTURE GROWING CONDITIONS. BREEDING GIVES
US STRONGER, MORE RESILIENT, AND HIGHER-QUALITY
SOYBEANS.**