WELCOME



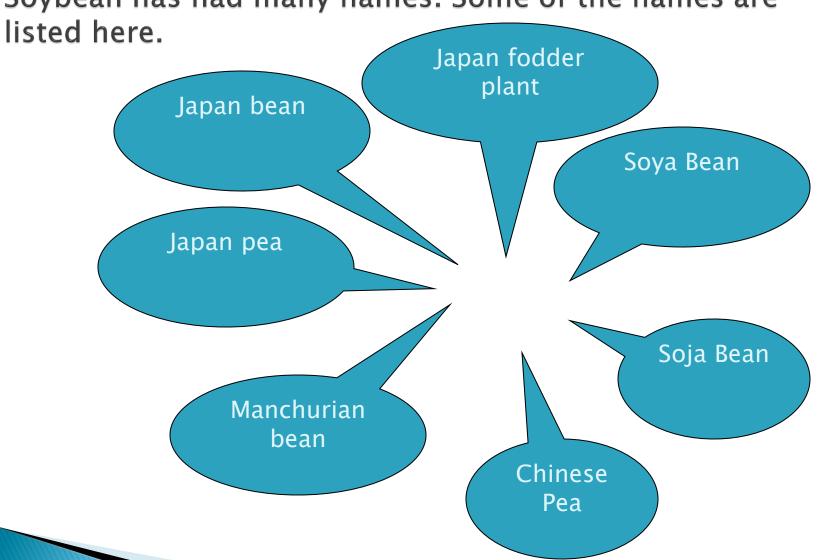


Floral Biology of Soybean Glycine max



Soybean: Origin

Soybean has had many names. Some of the names are



Soybean: Origin Family Facts

- Soybean [Glycine max (L.) Merrill]
- Wild relative: Glycine soja
 - Most likely the ancestor of Glycine max
- Other relatives in China, Korea, Russia, Japan, Taiwan, and Australia
- Member of the Legume Family
 - Alfalfa
 - Peas
 - Dry beans

Soybean Origin: Key Points

- Originated from China
- Scientific name: Glycine max
- Member of the legume family

Soybean History: Overall Concepts

- Soybean (Glycine max) originated in China.
- Improvements in agronomics and processing generated more production.
- Wars, weather, machinery and government rapidly increased soybean acres.
- U.S. is the leader in soybean production, with Brazil, Argentina, and China following.
- Most soybeans are processed into oil and protein for food and feed.

Maturity: Photosensitivity

- Soybeans are photosensitive
 - Begin to produce flowers when a critical dark period is reached (day length)
- Day length varies with latitude
- Soybeans were divided into types or groups according to their photosensitivity

Growth Types

Indeterminate

- Typically grown north of the 37th north parallel (about Lexington, KY)
- MG 00 through IV are in this area

Determinate

- Typically grown south of the 37th parallel
- These types require more light for flowering
- Originally in south because of their ability to produce adequate forage



Inflorescence

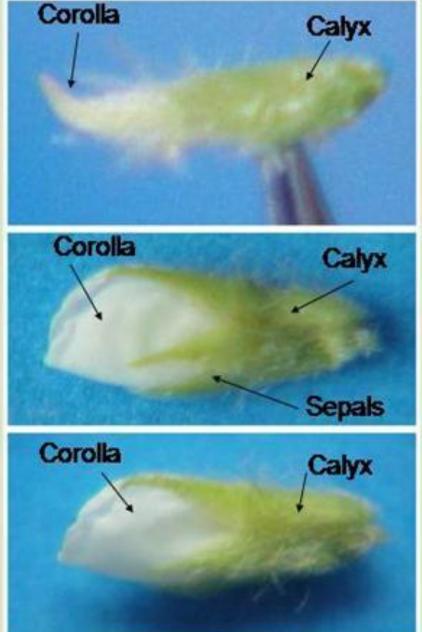
The cultivated soybean bears flowers in clusters of 3 to 15 blossoms in the axil of a branch. Many flowers are shed without forming pods.





Flowers of soybean are very small, about 4-6mm long. It is very difficult to emasculate them because of small size and delicate attachment on the stem

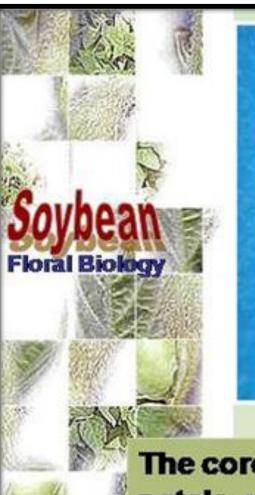
Young flower buds

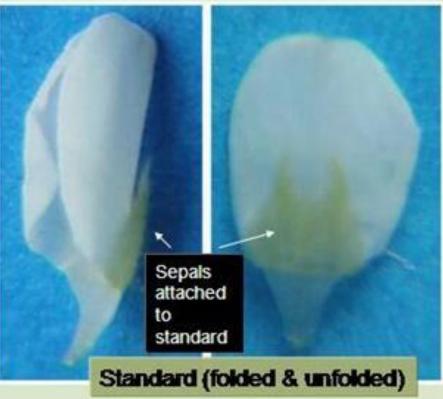


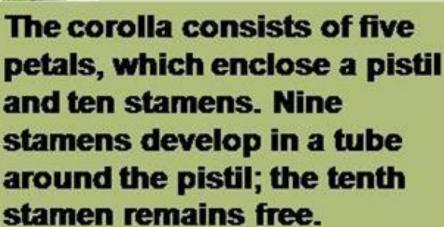
Floral Biology

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