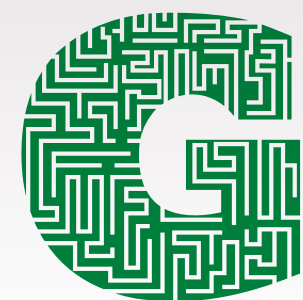




Heritable traits in soybeans



GROW
NEXT GEN

Hilum color

- A spot where the bean is attached to the pod
- Can vary in color from black to yellow
- Some importers of soybeans want a particular hilum color for the beans



Pubescence



- Hairs that grow on the pod
- Hair colors vary from light brown, brown, and dark brown, to gray
- Pod color is independent of the hair colors



Light brown pubescence



Brown pubescence



Dark brown pubescence



Grey pubescence

Pod color

- Color of pods can vary from light brown to black



Black pods



Dark brown pods



Brown pods



Light brown pods

Abscission layer

- Lacking if the beans have an extra attachment on the hilum (where they were attached to the pod)

On left: have abscission layer

On right: lacking abscission layer

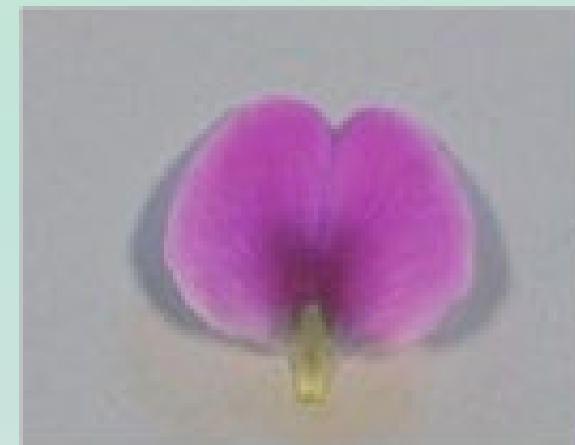


Flower color

- Varies from white to purple



Clark
(purple)



Bay
(purple)



Clark-w4
(near white)



222-A-3
(near white)



E30-D-1
(light purple)



kw4
(near white)



T321
(dilute purple)



T369
(pale)

Yan F, Di S, Rojas Rodas F, Rodriguez Torrico T, Murai Y, Iwashina T, Anai T, Takahashi R. Allelic variation of soybean flower color gene W4 encoding dihydroflavonol 4-reductase 2. BMC Plant Biol. 2014 Mar 6;14:58. doi: 10.1186/1471-2229-14-58. PMID: 24602314; PMCID: PMC4015899. (pubmed.ncbi.nlm.nih.gov/24602314/)