



Key CottonGen Features

- Easy-to-use search to retrieve data on markers, genes, transcripts, sequences, QTLs, and traits
- Synteny Viewer with 20 genome comparisons and ortholog data
- MapViewer for interactive viewing and comparisons of genetic maps
- BIMS, a private breeding data management and analysis system
- Assembled and annotated reference transcriptome (RefTrans) searchable using BLAST
- PathwayCyc for 8 species (5 diploids and 3 tetraploids)

Supported by:

Cotton Incorporated

USDA NIFA NRSP10

Bayer

Corteva Agriscience™

Southern Association of Agricultural
Experiment Station Directors

USDA-ARS

Washington State University

Available Data

Twenty whole genome assemblies
(8 diploids and 12 tetraploids)

575,844 markers

111 genetic maps

5,522 QTLs

12,337 images

19,563 germplasm

25,227,605 genotype scores

390,519 phenotype scores

Available Tools

BIMS for Breeders

BLAST

CottonCyc

JBrowse

Map Viewer

Primer3


Synteny Viewer

For more information contact:

www.cottongen.org/contact

Jing Yu (jing.yu@wsu.edu)

Dorrie Main (dorrie@wsu.edu)

 [@CottonGen_news](https://twitter.com/CottonGen_news)



COTTONGEN
COTTON DATABASE RESOURCES

www.cottongen.org

Genomic, Genetic and Breeding Resources for Cotton Research
Discovery and Crop Improvement

The US Regional Breeders Testing Net

Program

BIMS

About BIMS

Help

Archive

Manage Breeding

- Program
- Trait
- Location
- Cross
- Accession
- Trial
- Accession / Trial

Data Import

Search

Field Book Management

Data Analysis

Breeding Decision Tools

Manage Trait

- QS (1,1,3,5)
- QS (2,1,4,3)
- QS (4.5,2.5,0,3)
- QS (5,2.5,1,1.5)
- QS (5,2.5,1.5,1)
- SFC HVI (%)
- SI (g)
- SNPB
- T1 (g/tx)**
- UHML (inch)

Click a trait to see details

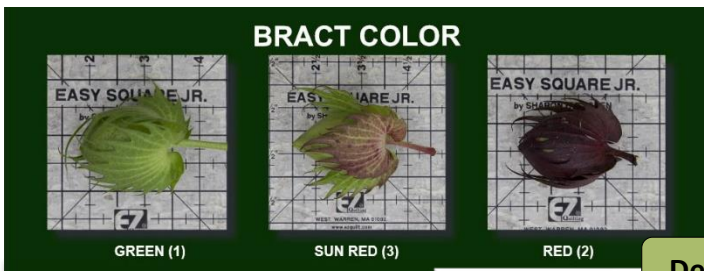
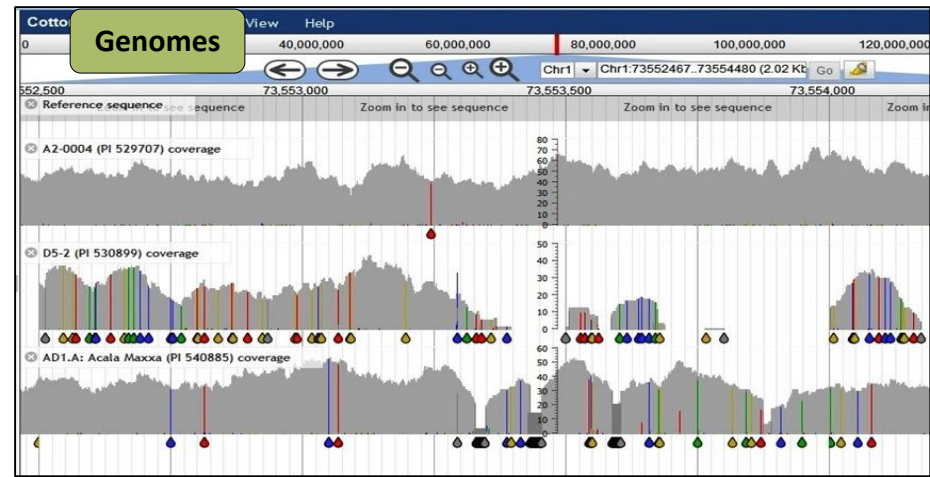
Definition

Fiber strength T1 is an HVI measurement of the strength of a bundle of fibers measured by one-eighth inch, expressed as a percentage of the original strength.

Properties

data_unit = g/tx

# Data	Max	Min
4508	45.30	23.98



Search Trait Descriptors

Group: Any

Category: morphological trait

Keyword: contains bract

Search Reset

6 records were returned

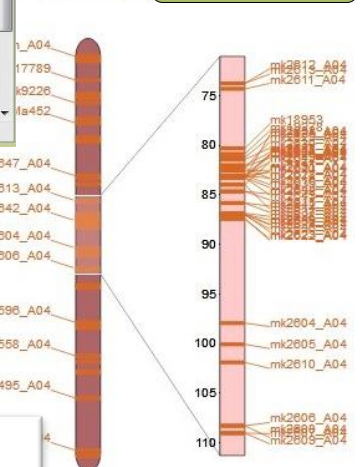
#	Group	Descriptor	Category	Trait	Definition
1	NCGC	bract color	morphological trait	bract color	bract color descriptor code definition: 1=green; 2=red; 3=sun red; 9=seg/off type
2	NCGC	bract nectaries	morphological trait	bract nectaries	bract nectaries descriptor code definition: 0=absent; 1=present; 2=reduced; 3=inactive; 9=seg/off type
3	NCGC	bract teeth number	morphological trait	bract teeth number	bract teeth number descriptor code definition: 1=medium; 2=many; 3=few; 9=seg/off type
4	NCGC	bract teeth size	morphological trait	bract teeth size	bract teeth size descriptor code definition: 0=none; 1=medium; 2=small; 3=large; 9=seg/off type
5	NCGC	bract type	morphological trait	bract type	bract type descriptor code definition: 1=normal; 2=frego; 3=flared; 4=recurved; 9=seg/off type
6	CN_COT	bract shape	morphological trait	bract shape	Bract shape. Code Definition: 1=cordate; 2=narrow coil; 3=ovule; 4=sword; 5=lanceolate; 6=trianle; 7=three teeth

Descriptor Overview

Trait Descriptor	bract color
Of Trait	bract color
Definition	bract color descriptor code definition: 1=green; 2=red; 3=sun red; 9=seg/off type
Alias	[view all 1]
Format	categorical
Trait Category	morphological trait
Datasets	[view all 18]
Germplasm	[view all 5154]

Download Table

MapViewer



Synteny

