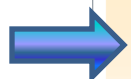


# Creating Line Panels in The Triticeae Toolbox (T3)

T3 users can create custom germplasm line panels that are saved in the database. Whenever a user is logged onto T3, the panels are available for analysis and data download.

## 1. Select Login/Register

You will need to be registered. Use this link to register if necessary.



The screenshot shows the homepage of The Triticeae Toolbox (T3). The header features the title "The Triticeae Toolbox" and a navigation bar with links: Home, Select, Analyze, Download, and About T3. A "Contact Us" link is also present in the top right. The main content area is divided into two columns. The left column contains a "Quick Links" section with a "Login/Register" link, a "Current selections" section showing "Lines: 0", "Markers: All", "Traits: 0", and "Trials: 0", a "Quick search..." input field, and a "What's New" section listing recent updates. The right column displays the "Home: T3 Wheat" section, which includes a welcome message, a description of the T3 portal, and a "Data submission" button. Below this is a "Search Type" section with three dropdown menus: "Search by Breeding Program", "Search by Trait", and "Search by Year". The footer contains logos for USDA, NIFA, and the Triticeae CAP project, along with contact information and a copyright notice.

**The Triticeae Toolbox**

Home Select Analyze Download About T3 Contact Us

**Quick Links**  
[Login/Register](#)

**Current selections:**  
Lines: 0  
Markers: All  
Traits: 0  
Trials: 0

Quick search...

**What's New**

- 2011 Spring wheat association mapping panel agronomic, yield and NUE data in Bozeman, MT
- 2012 NSGC core agronomic, stripe rust data from UC Davis
- 2012 NSGC core plus (2040 lines, many not aestivum or durum) agronomic, stripe rust data from UC Davis

**Home: T3 Wheat**

**Welcome to The Triticeae Toolbox (T3)!**

T3 is the web portal for the data generated by the [Triticeae Coordinated Agricultural Project \(T-CAP\)](#), funded by the National Institute for Food and Agriculture ([NIFA](#)) of the United States Department of Agriculture ([USDA](#)). T3 contains SNP, phenotypic, and pedigree data from wheat and barley germplasm in the Triticeae CAP. [More...](#)

**Participants:** The templates for submitting your data about phenotype trials, phenotype results, and the lines tested are here.

[Data submission](#)

**Search Type**

<a href="#">Search by Breeding Program</a>	All experiments containing data from the program's lines
<a href="#">Search by Trait</a>	All experiments that measure the trait
<a href="#">Search by Year</a>	All experiment data from the selected year

USDA | NIFA | Triticeae CAP

To send questions or suggestions to the T3 curators, please [click here](#).

The Triticeae Toolbox is part of the Triticeae CAP project, supported by Agriculture and Food Research Initiative Competitive Grant no. 2011-68002-30029 from the USDA National Institute of Food and Agriculture.

Copyright © 2006 - 2010 Iowa State University

## 2. Enter email, your password and click 'Continue'

**Quick Links**  
[Login/Register](#)

**Current selections:**  
[Lines:](#) 0  
[Markers:](#) All  
[Traits:](#) 0  
[Trials:](#) 0

**What's New**

- 2011 Spring wheat association mapping panel agronomic, yield and NUE data in Bozeman, MT
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### Login/Register

#### Why Register?

##### Triticeae CAP Participants

- have pre-release access to all phenotype and genotype data from the project.
- will be allowed to add their own private data to the database (feature to be added).
- can test-load their data files in the Sandbox database before submitting them to the curator. For this purpose please register at the [Sandbox site](#).

##### All Registered Users

- Selections made during searches are saved from session to session.

#### What is your email address?

My email address is:



#### Do you have a password?

- ☒ Yes, I have a password:
- ☐ No, I am a new user.
- ☐ I forgot my password.
- ☐ I want to change my password.



### 3. Click the Select Tab, then 'Lines by Properties'

[Contact Us](#)

# The Triticeae Toolbox

[Home](#)[Select](#)[Analyze](#)[Download](#)[About T3](#)[Curation](#)[Share data](#)[Administration](#)

**Quick**  
[Logout](#)  
(victoria.bl...)

**Current:**  
[Lines: 1](#)  
[Markers:](#)  
[Traits: 0](#)  
[Trials: 0](#)

[Lines by Properties](#)[Lines by Phenotype](#)[Lines by Haplotype](#)[My Line Panels](#)[Traits and Trials](#)[Markers](#)[Wizard \(Lines, Traits, Trials\)](#)[Clear selection](#)

## Welcome to The Triticeae Toolbox (T3)!

the web portal for the data generated by the [Triticeae Coordinated Agricultural Project \(T-CAP\)](#), funded by the [National Institute for Food and Agriculture \(NIFA\)](#) of the United States Department of Agriculture ([USDA](#)). T3 contains SNP, phenotypic, and pedigree data from wheat and barley germplasm in the Triticeae CAP. [More...](#)

**Participants:** The templates for submitting your data about phenotype trials, phenotype results, and the lines tested are here.

[Data submission](#)

### What's New

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- 2012 NSGC core plus (2040 lines, many not aestivum or durum) agronomic, stripe rust data from UC Davis

Search Type	
<a href="#">Search by Breeding Program</a>	All experiments containing data from the program's lines
<a href="#">Search by Trait</a>	All experiments that measure the trait
<a href="#">Search by Year</a>	All experiment data from the selected year

4. Enter line names in the 'Name' box (can be pasted in) and select 'Search'.

### Select Lines by Properties

Select any combination of properties

1. {

Name	Data program	Year	Species
ACME WAKOOMA ZAGAZTL <small>E.g. Cayuga, tur*ey, iwa860* Synonyms will be translated.</small>	NSG--National Small Grains Collection CAN--AAFC Canada UIA--University of Idaho CSU--Colorado State University UCD--UC Davis CMT--CIMMYT	2012 2011 2010 2009 2008 2007	aestivum durum other

Panel	Hardness	Color	Growth habit	Awns
HWWAMP2 TestPanel Everybody's: Spring Wheat AM Pa Hard Winter AM Pan	<input type="radio"/> Hard <input type="radio"/> Soft	<input type="radio"/> Red <input type="radio"/> White	S W F	<input type="radio"/> Awned <input type="radio"/> Awnless

2 → Search Clear

## Select Lines by Properties

Select any combination of properties

Name	Data program	Year	Species
ACME WAKOOMA ZAGAZIL	NSG--National Small Grains Collection CAN--AAFC Canada UIA--University of Idaho CSU--Colorado State University UCD--UC Davis CMT--CIMMYT	2012 2011 2010 2009 2008 2007	aestivum durum other

E.g. Cayuga, tur\*ey, iwa860\*  
Synonyms will be translated.

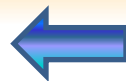
Panel	Hardness	Color	Growth habit	Awns
Spring Wheat AM Pa Hard Winter AM Pan US Wheat Collection NSGC Wheat Core P	<input type="radio"/> Hard <input type="radio"/> Soft	<input type="radio"/> Red <input type="radio"/> White	S W F	<input type="radio"/> Awned <input type="radio"/> Awnless

Search Clear

Lines found: 3 Add to Selected

ACME
WAKOOMA
ZAGAZIL

Show line information

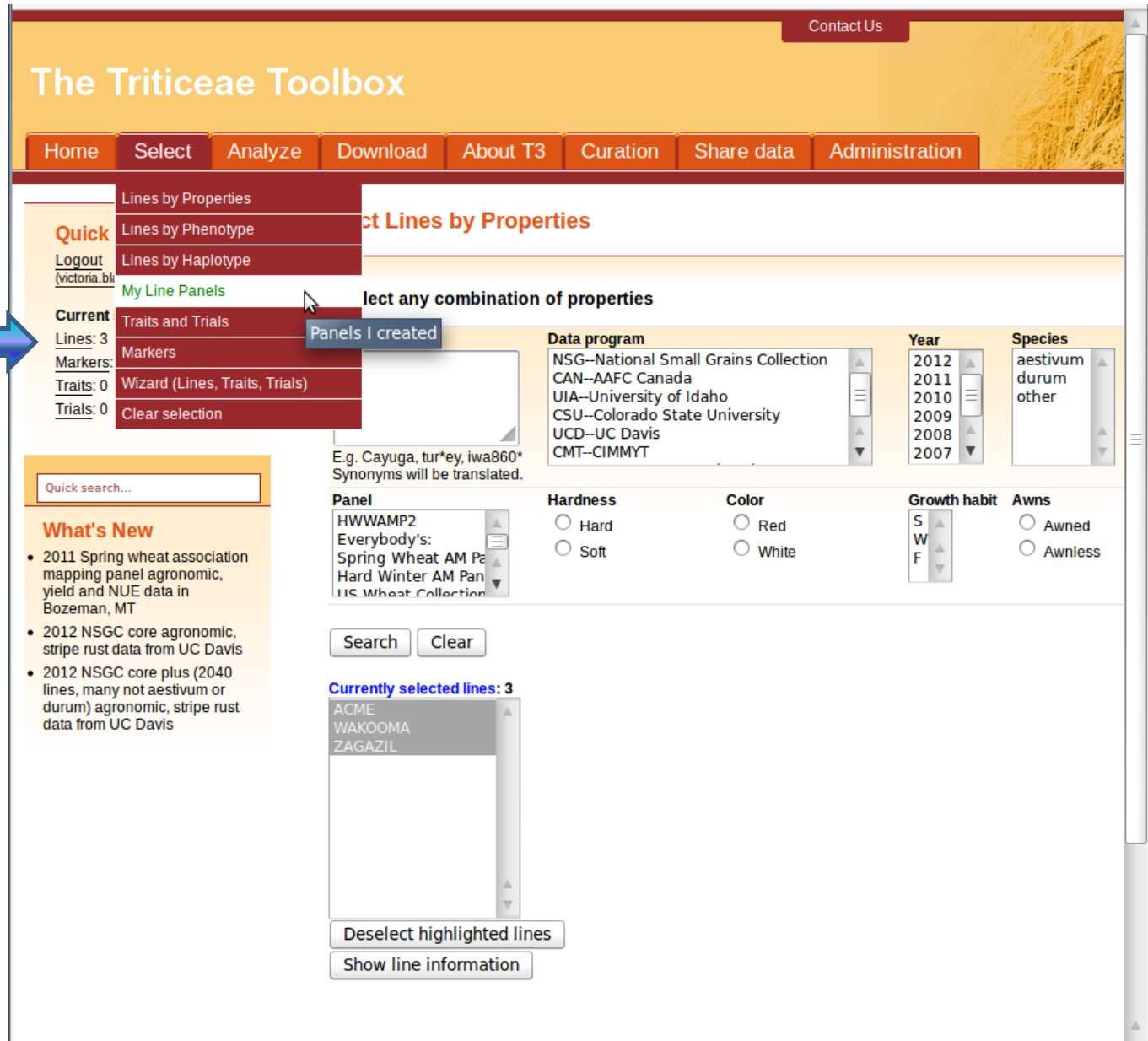


### 5. Click 'Add to Selected'.

If you already have germplasm lines in the buffer, you will be given the opportunity to add to the existing list or replace with the new lines.

## 6. Click the 'Select' tab, and then 'My Line Panels'.

Notice there  
are now 3 Lines  
in the Current  
Selections panel



The Triticeae Toolbox

Contact Us

Home Select Analyze Download About T3 Curation Share data Administration

Quick Logout (victoria.bl...)

Lines by Properties  
Lines by Phenotype  
Lines by Haplotype  
My Line Panels

Current Lines: 3  
Markers:  
Traits: 0  
Trials: 0

Panel: HWWAMP2  
Everybody's:  
Spring Wheat AM Pa  
Hard Winter AM Pan  
US Wheat Collection

Panel I created

Select any combination of properties

Data program  
NSG--National Small Grains Collection  
CAN--AAFC Canada  
UIA--University of Idaho  
CSU--Colorado State University  
UCD--UC Davis  
CMT--CIMMYT

Year  
2012  
2011  
2010  
2009  
2008  
2007

Species  
aestivum  
durum  
other

Quick search...

What's New

- 2011 Spring wheat association mapping panel agronomic, yield and NUE data in Bozeman, MT
- 2012 NSGC core agronomic, stripe rust data from UC Davis
- 2012 NSGC core plus (2040 lines, many not aestivum or durum) agronomic, stripe rust data from UC Davis

E.g. Cayuga, tur\*ey, iwa860\*  
Synonyms will be translated.

Panel

Hardness  
☐ Hard  
☐ Soft

Color  
☐ Red  
☐ White

Growth habit  
S  
W  
F

Awns  
☐ Awned  
☐ Awnless

Search Clear

Currently selected lines: 3

ACME  
WAKOOMA  
ZAGAZIL

Deselect highlighted lines  
Show line information

6. Notice that the 'Create a Line Panel' page now appears with your 3 line selections in the text box. You can deselect lines if desired

[Contact Us](#)

## The Triticeae Toolbox

[Home](#) [Select](#) [Analyze](#) [Download](#) [About T3](#) [Curation](#) [Share data](#) [Administration](#)

### Quick Links

[Logout](#)  
(victoria.blake@ars.usda.gov)

**Current selections:**  
[Lines](#): 3  
[Markers](#): All  
[Traits](#): 0  
[Trials](#): 0

Quick search...

### What's New

- 2011 Spring wheat association mapping panel agronomic, yield and NUE data in Bozeman, MT
- 2012 NSGC core agronomic, stripe rust data from UC Davis
- 2012 NSGC core plus (2040 lines, many not aestivum or durum) agronomic, stripe rust data from UC Davis

### Create a Line Panel

Currently selected lines: 3

ACME  
WAKOOMA  
ZAGAZIL

Deselect highlighted lines

Panel Name

Description

Create

### My Panels

HWWAMP2

Delete

Panel	Lines	Description
<u>HWWAMP2</u>	318	Hard Winter Wheat Association Mapping Panel with 20 additional lines evaluated at Mead, NE

## 7. Provide a Panel Name, a Description and click 'Create'.

### Create a Line Panel

Currently selected lines: 3

ACME  
WAKOOMA  
ZAGAZIL

Deselect highlighted lines

Panel Name

TestPanel

Description

Panel for tutorial

Create

1

2

3

### My Panels

HWWAMP2

Delete

Panel

Lines

Description

HWWAMP2

318

Hard Winter Wheat Association Mapping Panel with  
20 additional lines evaluated at Mead,NE



## 8. The new panel is now in the 'My Panels' list.

[Contact Us](#)

# The Triticeae Toolbox

[Home](#) [Select](#) [Analyze](#) [Download](#) [About T3](#) [Curation](#) [Share data](#) [Administration](#)

### Quick Links

[Logout](#)  
(victoria.blake@ars.usda.gov)

**Current selections:**  
[Lines:](#) 3  
[Markers:](#) All  
[Traits:](#) 0  
[Trials:](#) 0

Quick search...

### What's New

- 2011 Spring wheat association mapping panel agronomic, yield and NUE data in Bozeman, MT
- 2012 NSGC core agronomic, stripe rust data from UC Davis
- 2012 NSGC core plus (2040 lines, many not aestivum or durum) agronomic, stripe rust data from UC Davis

### Create a Line Panel

**Currently selected lines:** 3

ACME  
WAKOOMA  
ZAGAZIL

[Deselect highlighted lines](#)

Panel Name

Description

[Create](#)

### My Panels

HWWAMP2  
TestPanel

[Delete](#)

Panel	Lines	Description
<a href="#">HWWAMP2</a>	318	Hard Winter Wheat Association Mapping Panel with 20 additional lines evaluated at Mead, NE
<a href="#">TestPanel</a>	3	Panel for tutorial