Farm History ~ J and L Gardens







Lee Goodwin

owner

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Tomato Farming



Bringing early field-grown tomatoes to market



Tomato Farming

Hoophouse in field



Hoophouse cover

Seed Saving

Seed must be fermented to remove the gel coating that inhibits germination.
This process also destroys

This process also destroys most virus on the seed.





CHOOSING THE FRUIT

Mature fruit from healthy plants during a time of the season when pollinators are not active

Traits



Tomatoes can be classified by a variety of traits including:

Fruit color (red, pink/purple, yellow, orange, green, brown/black, blue)

Fruit size (cherry, salad, beefsteak)

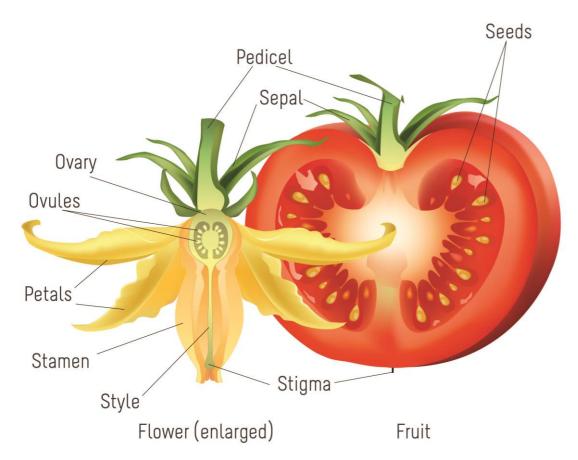
Shape (round, pear-shaped, elongated, oblate)

Fruit set (determinate, indeterminate, semi-determinate)

Leaf type (regular leaf, potato leaf, rugose)

Plant habit (sprawling, tree-type, compact, dwarf)

Crossing

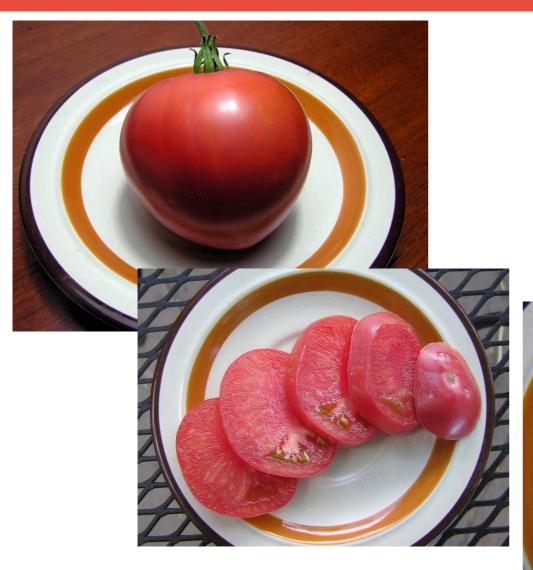


parts of the flower and fruit (above) emasculation and pollination (right)

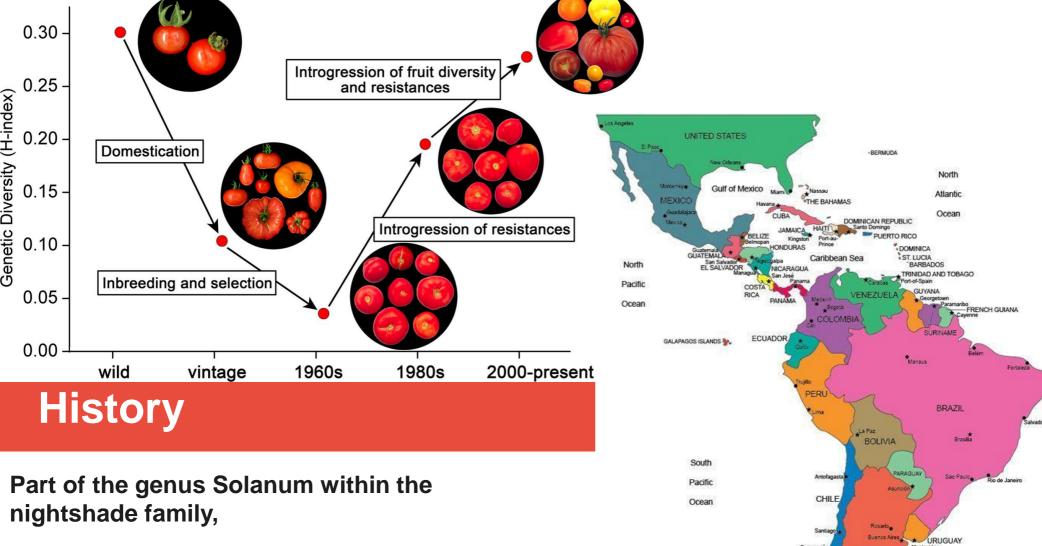




First Crosses







Ocean

FALKLAND ISLANDS

all cultivated tomatoes are a single species



Wild Relatives





Anthocyanin trait

Gene symbol species accession

(Abg) Aubergine S. lycopersicoides LA4425

(Aft) Anthocyanin fruit trait S. chilense LA0458

(atv) atroviolaceae S. pennelli LA0716

Sources: Tomato Genome Research Center (TGRC)

Germplasm Resources Information Network (GRIN)

Developing a New Variety

'Blue' Tomatoes







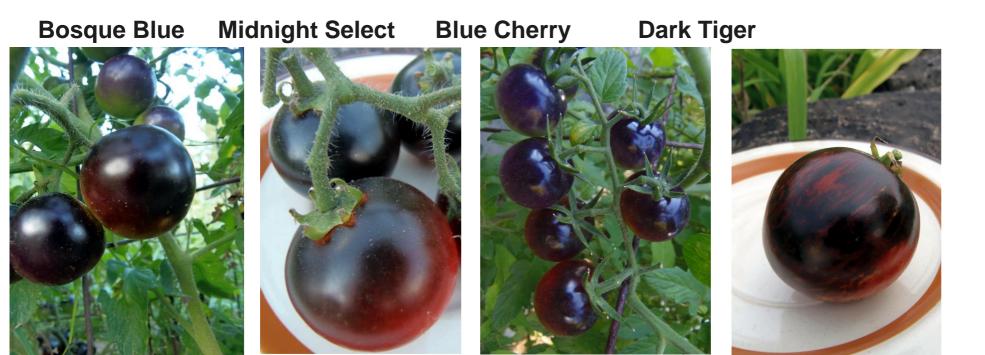
Crossing and Selection

Amy's Sugar Gem 'OSU Blue' selection





Bosque Blue Lines



Related Lines

Gloria Blue



Bosque Bumblebee



Black Inside-Out



Black Bumblebee



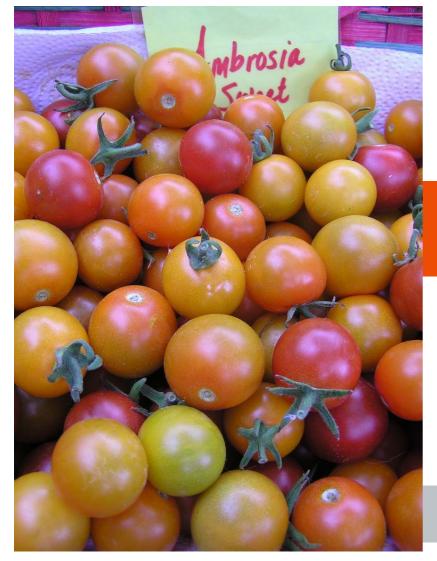


Blue Blazes



The Ambrosia Lines

Multiyear project to dehybridize SunGold





Dwarf Project