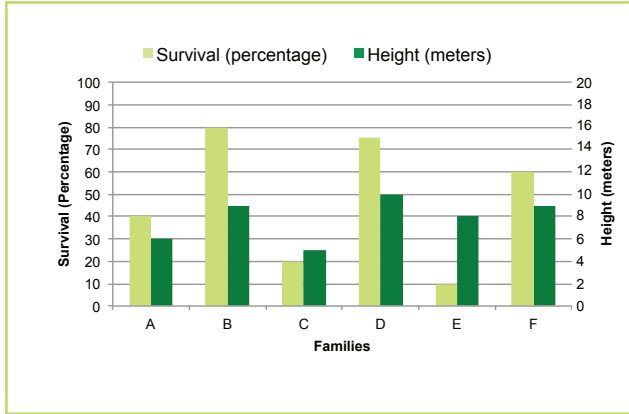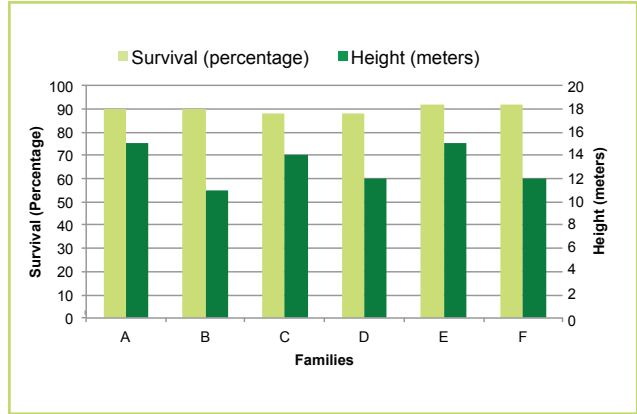# Survival and Height Graphs (1 of 3)

Sample graphs using data in metric units (as given on the student page).
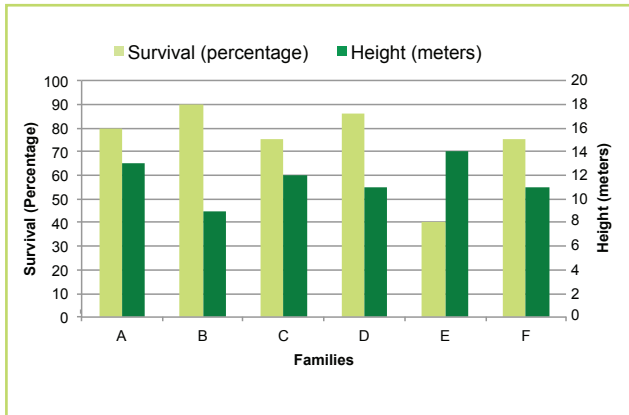
Site 1: 100 centimeters of rainfall per year

Site 3: 130 centimeters of rainfall per year

Site 2: 115 centimeters of rainfall per year

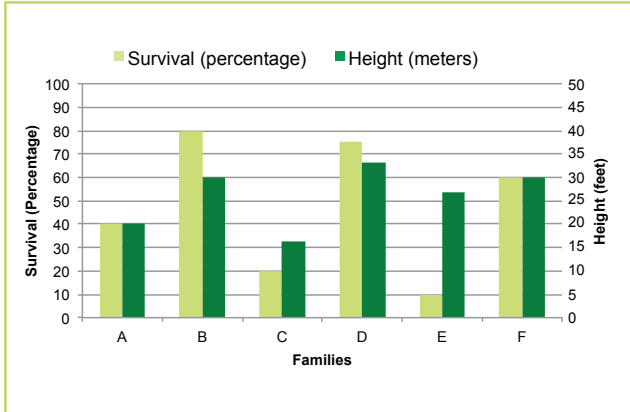For each family, write the original source of the genotype.

A: Eastern

B: Western

C: Eastern

D: Western
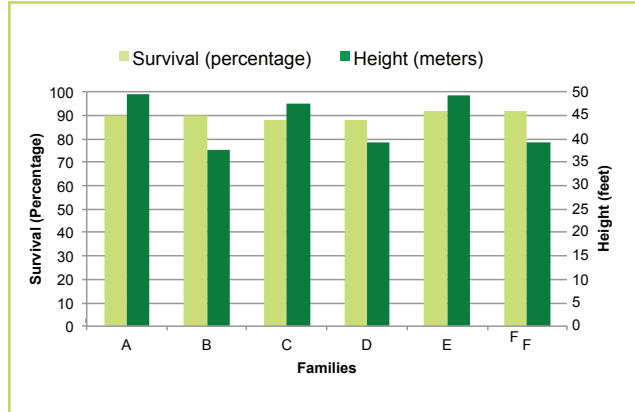
E: Eastern

F: Western

Survival and Height Graphs (2 of 3)
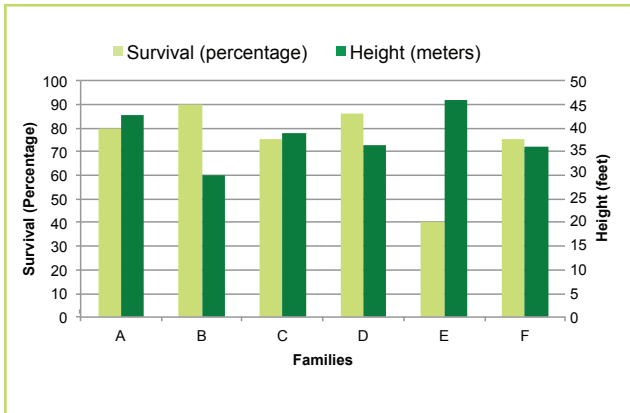
Sample graphs using data in English units.

Site 1: 40 inches of rainfall per year

Site 3: 50 inches of rainfall per year

Site 2: 45 inches of rainfall per year

For each family, write the original source of the genotype.

A: Eastern

B: Western

C: Eastern

D: Western

E: Eastern

F: Western

Survival and Height Graphs (3 of 3)

Sample graphs for Enrichment exercise on page 115 of Activity 6.

In this graph, the coefficient of determination is 0.66, showing that there is a linear association between survival and height for eastern families, which suggests that families with greater survival tend to be taller.

Relationship between Height and Survival in Families from the Eastern Population

EAST $y = 0.0995x + 5.4203$ $R^2 = 0.65672$
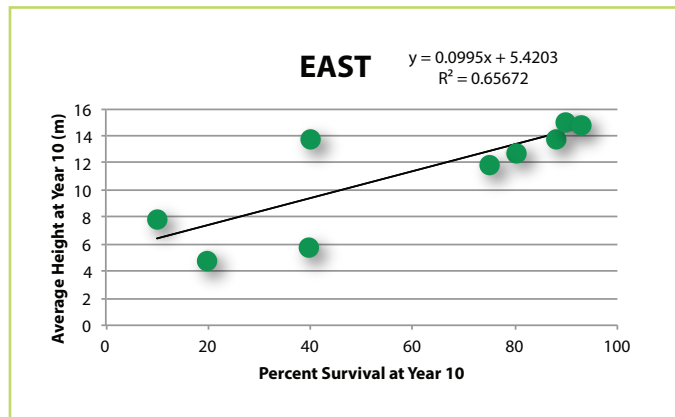
In this graph, the coefficient of determination is near 0 (0.27), suggesting that there is no association between height and survival. Trees that survive may be short or tall, but more trees survive.

Relationship between Height and Survival in Families from the Western Population

WEST $y = 0.0623x + 5.353$ $R^2 = 0.27451$