

Using the interactive maize chromosomes exhibit, your group should complete the following chart by finding 2 genes that control each of the following characteristics of the corn plant:

5. Kernel color:

Chromosome #	Name of gene	What does this gene do to the plant?

6. Leaf texture or color:

Chromosome #	Name of gene	What does this gene do to the plant?

7. Silk/Tassels:

Chromosome #	Name of gene	What does this gene do to the plant?

8. What does the "transgenic" gene on chromosome 7 increase resistance to in *Bt* corn plants?

9. Compare the amount of modern corn produced per acre in 2002 with the amount that would be produced by teosinte if it was used as a crop plant today.

2002 corn: _____ tons per acre

Teosinte: _____ tons per acre

10. If we were still planting teosinte as a food crop, how much more land (in millions of acres) would be needed to get the same yield as modern corn (from 2002)?

Teosinte: _____ million acres

2002: - _____ million acres

= _____ million acres more