

SC.912.L.16.10 – Biotechnology – Example 1 Answer

While genetic engineering has positive benefits, there are also concerns associated with widespread use of genetic engineering in agriculture. If many farmers begin to plant more genetically modified crops that have an increased tolerance to insects, which of the following may result?

- A. an increase in the use of pesticides**
- B. a decrease in genetic diversity of the crops**
- C. an increase in the contamination of the water supply**
- D. a decrease in crop productivity**

Answer

B. a decrease in genetic diversity of the crops

Genetic modifications of organisms does not allow for random mutation in the genetic code. This random mutation is responsible for the genetic diversity seen in populations of organisms.