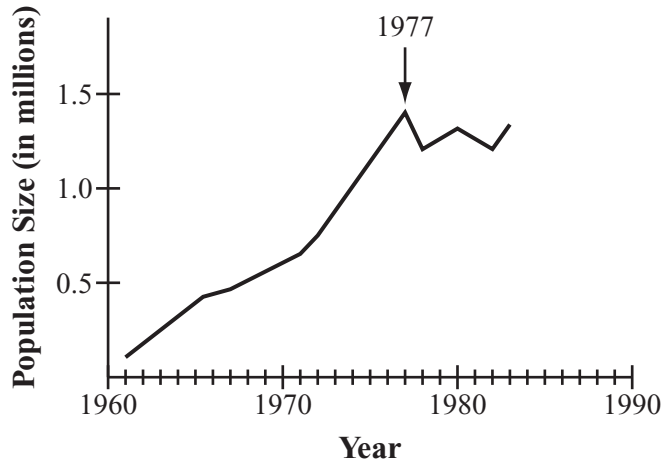


45

Cattle-like animals called wildebeests live in Africa. The wildebeest population decreased for many years because of a fatal virus. The virus was eliminated in the 1960s by vaccinating the wildebeests against the virus. The graph below shows changes in the size of the wildebeest population from 1961 to 1983.

**Wildebeest Population Size,  
1961–1983**



- Describe the effect of the vaccinations on the death rate in the wildebeest population.
- Explain the change in the size of the population from 1961 to 1977 in terms of birth rate and death rate. Assume immigration and emigration rates were equal during this time.
- Based on the graph, describe what happened to the wildebeest population size from 1977 to 1983 **and** explain why this pattern most likely occurred.