

43 (a) Table $Y_1 = 6.15X - 12059$ starting at $x = 1967$, incrementing by 1, as shown in *Figure 43*.

Using the table, the number first exceeded 70 in 1973.

X	Y_1	
1967	38.05	
1968	44.2	
1969	50.35	
1970	56.5	
1971	62.65	
1972	68.8	
1973	74.95	

$Y_1 = 6.15X - 12059$

Figure 43

(b) This will probably not be a good estimation far into the future. The river is capable of supporting a certain number of species. After a while, the number of species in the river will reach its natural level.