No. of Specimens	Ape	Length in mehes	Estimated average growth limit in each year, in inches	Increase in length per year, in inches.
6 22 5 3 3 3 5 2 6 10 21 5 2 1 2 1 2 4 3 0 1 0	In 1 t year 2nd " 3rd 4th 5th " 6th " 7th " 5th " 7th " 9th " 0th " 12th " 12th " 13th " 15th "	$\begin{array}{c} 1\frac{1}{2} - 4\\ 4\frac{4}{2} - 5\\ 7 - 8\\ 8\frac{1}{2} - 9\\ 10 - 12\\ 12\frac{1}{2} - 14\\ 14\\ 15 - 19\\ 16\frac{1}{2} - 20\\ 17\frac{1}{2} - 21\frac{1}{3}\\ 18 - 22\frac{1}{3}\\ 20\frac{1}{2} - 23\\ 20\frac{1}{2} - 23\\ 24\frac{1}{2} - 27\\ 27\end{array}$	$\begin{array}{c} 0 & 4 \\ 4 & -6\frac{1}{2} \\ 6\frac{1}{2} & -8\frac{1}{2} \\ 8\frac{1}{2} & -10\frac{1}{2} \\ 10\frac{1}{2} & -12\frac{1}{2} \\ 12\frac{1}{2} & -14 \\ 12\frac{1}{2} & -14 \\ 13\frac{1}{2} & -17 \\ 15\frac{1}{2} & -20 \\ 20 & -21 \\ 21 & -22 \\ 22 & -23 \\ 22 & -23 \\ 23 & -24 \\ 24 & -25 \\ 25 & -26\frac{1}{2} \\ 26\frac{1}{2} & -27 \\ 26\frac{1}{2} & -27 \\ 26\frac{1}{2} & -28 \\ 27\frac{1}{2} & -28 \end{array}$	

been in its third summer. The following table shows the determinations made for the eighty specimens examined :---

The first column shows the number of mutton fish of each age. The second column gives the age as determined by the otoliths. The third column shows the smallest and greatest lengths found

for each age.

The fourth column gives the estimated average growth limits for each year. For example a muttoiff h is 4 inches long at the end of the first year, $6\frac{1}{2}$ inches at the end of the second, $8\frac{1}{2}$ inches at the end of the third year, etc. At $2\frac{1}{2}$ years of age it would probably be $7\frac{1}{2}$ inches in length.

The fifth column gives the average growth in inches for each year.

These results are shown graphically in fig. 4. The dots represent the actual determinations while the curve represents the estimated average rate of growth. This diagram can therefore be used to determine the probable age of any muttonfish when the length is known. For example, if a muttonfish is found to be 14 inches long, then following the horizontal line to the left from where the 14-inch line meets the curve, shows the fish to be 6 years of age. A diagram of a fish has been drawn in to illustrate this. It must be remembered that these calculations are only approximate because temperature, food and other conditions affect the rate of

3

7