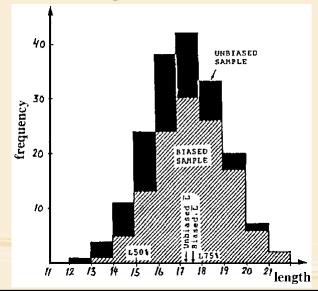


Using a Selection Curve to Adjust Length-Frequency Samples

Length-Frequency Data (LFD)

- Generally useful for Population Dynamics Study: Growth, Mortality, Maturity etc.
- Biased samples due to selectivity of fishing gears
- The effect of trawl selection:
 - Over-estimation of mean length
 - Under-estimation of standard deviation
 - Under-estimation of cohort (=generation age group) size





The sequence of analyses:

- Estimate the growth parameters (L_∞, K t₀) by any methods (Bhattacharya, Powell-Wetherall, Age determination etc.)
- Estimate the total mortality coefficient (Z) by any methods (Jones & Zalinge, Linearlized ctch curve)
- Adjust new LFD by selection Ogive curve
- Two-tailed selectivity is not available.