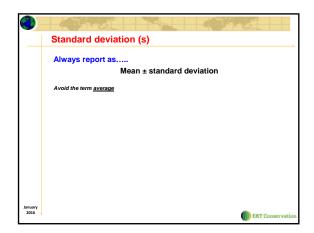
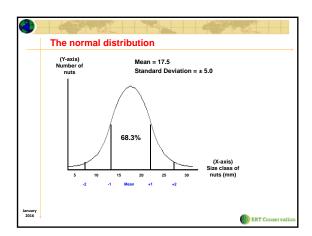
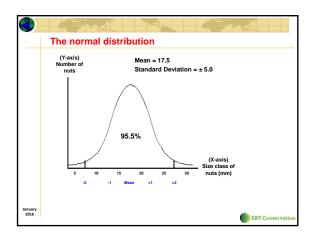


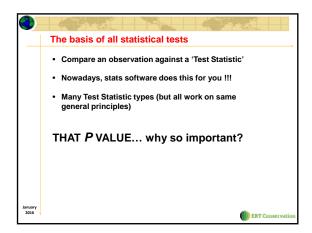
	Standard deviation (s)
	We often need to know how much variability there is about the central tendency i.e. how spread out is our frequency diagram?
	We need to know <u>average</u> deviation from mean (residual)
January 2016	ERT Conservation

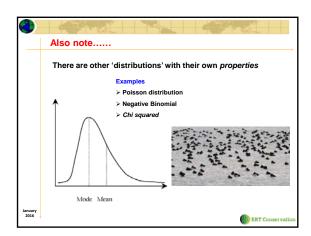
$  \perp  $	Standard deviation (s)	
	How do we calculate a mean (average) ?	
	Mean = sum of all measurements number of measurements	
	$Mean = \frac{\sum X}{n}$	
	Average deviation from mean (residual)	
	Mean deviation = $\frac{\sum (\overline{X} - X)}{n}$	
	$S = \sqrt{\frac{\sum (X - X)^2}{n - 1}}$	
January 2016	Degrees of freedom	ervation

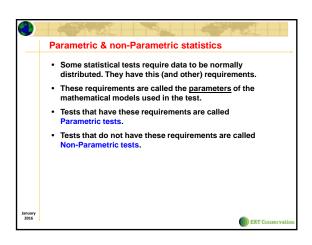


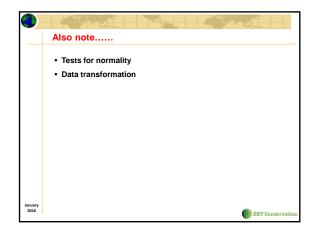


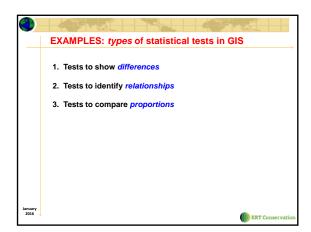


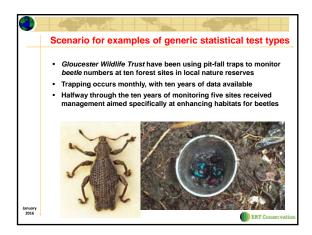




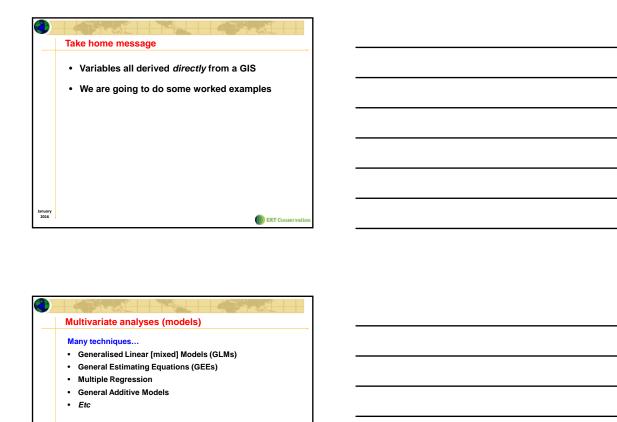












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Variables also derived directly from a GIS....

January 2016