

A simple example

In Krebs (1989), he presents an example of rainbow trout put in the effluent coming from a coal processing plant. We are know from previous studies that the mean survival time should be less than 36 hours. We follow these steps:

1. Set up the alternatives

H_0 : mean survival time \leq 36 hours

H_1 : mean survival time \geq 40 hours

2. Determine the acceptable risk of type I and II error (alpha and beta error)
3. Estimate the threshold

Figure 1 illustrate the how a hypothesis is accepted.



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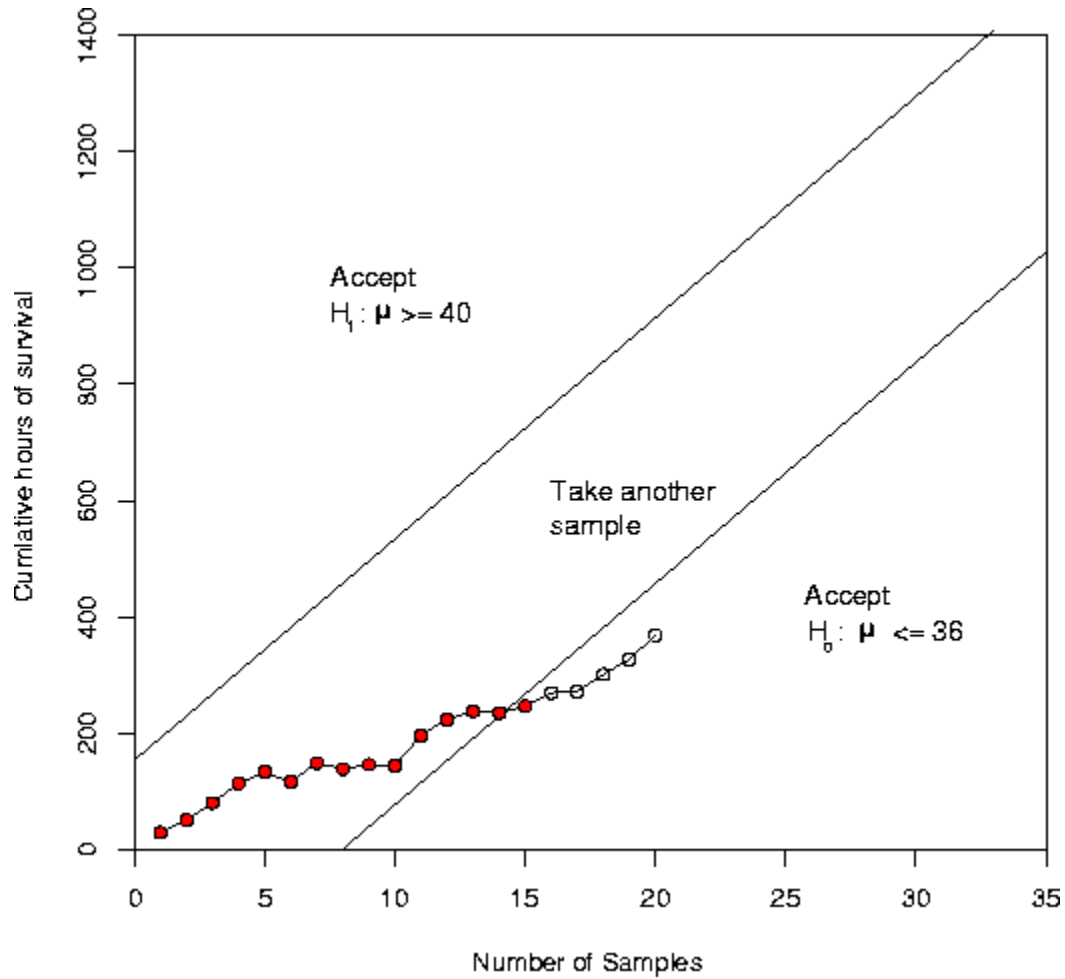


Figure 1: Diagram illustrating a sequential sample for rainbow trout in coal-processing plant effluent

Also See:

Chapter 7 - Sequential Sampling pages 237--243 in:

Krebs, C. J. 1998. *Ecological Methodology*. Harper and Row, Publishers. New York. 620 pp.



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