Types of Allelic Diversity

The number of alleles at the locus.

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$$A = \ell$$

Counts of alleles that occur at a minimum threshold of frequency.

$$A_{95} = \sum_{i=1}^{\ell} (p_i > 0.05)$$

Diversity weighed by frequencies.
$$A_e = \frac{1}{\sum_{i=1}^{\ell} p_i^2}$$

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Comparing Diversity

- Population A: 50 Samples were collected and found to have A_e = 4.52.

- Population B: 25 Samples were collected and found to have A_e = 3.29

Which is more diverse?