

What's the most preferred central Tendency measure for average in the below graph?

There can often be a "best" measure of central tendency with regards to the data you are analyzing, but there is no one "best" measure of central tendency. This is because whether you use the median, mean or mode will depend on the type of data you have, such as nominal or continuous data; whether your data has outliers and/or is skewed; and what you are trying to show from your data.

1. Mean is the most frequently used measure of central tendency and generally considered the best measure of it. However, there are some situations where either median or mode are preferred.
2. Median is the preferred measure of central tendency when:
 - a. There are a few extreme scores in the distribution of the data. (NOTE: Remember that a single outlier can have a great effect on the mean).
 - b. There are some missing or undetermined values in your data.
 - c. There is an open ended distribution (For example, if you have a data field which measures number of children and your options are 0, 1, 2, 3, 4, 5 or "6 or more," then the "6 or more field" is open ended and makes calculating the mean impossible, since we do not know exact values for this field)
 - d. You have data measured on an ordinal scale.
3. Mode is the preferred measure when data are measured in a nominal (and even sometimes ordinal) scale.