

## References

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## Figures and Tables

Figure 1

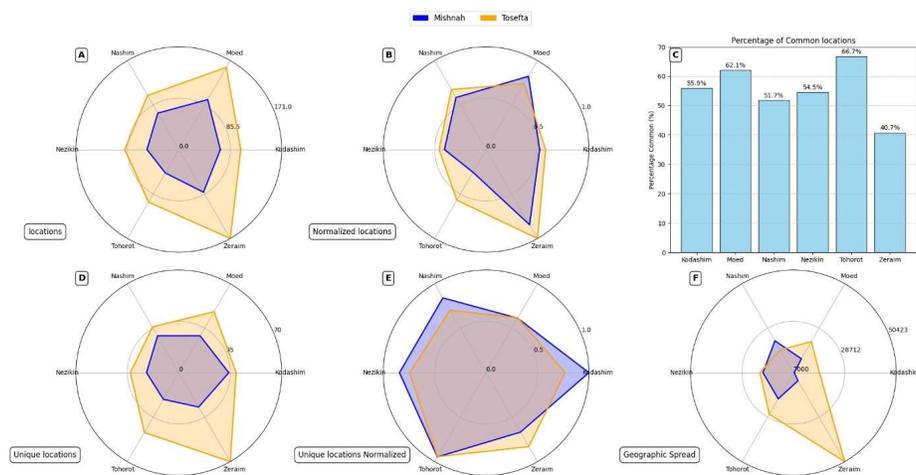


Figure 1a: Number of locations in the Tosefta vs. Mishnah.

This graph shows that the number of locations mentioned in the Tosefta is significantly greater than those mentioned in the Mishnah.

Figure 1b: Number of locations in the Tosefta vs. Mishnah, normalized.

The number of geographic references is calculated relative to the total number of words in each composition (GNW: Geographic Names per Word). When normalized in this way, the relative number of geographical references in the Mishnah is much closer to that in the Tosefta, and, in the case of the *Seder of Moed*, the Mishnah contains relatively more geographical references than the Tosefta. In the other *Sedarim*, the Tosefta contains relatively

more geographical references than the Mishnah. In *Nashim*, *Nezikin*, and *Kodashim*, the relative difference in the occurrence of place names is small, while it is more meaningful in *Zera'im* and *Toharot*.

Figure 1c: Percentage of locations appearing in both works.

About half the places appear in both works. The degree of common place names varies significantly across the *Sedarim*.

**Commented [A1]:** Percentage out of what? Out of the total number of place names in that seder? Does this graph unify both Mishna and Tosefta?

Figure 1d: Number of locations appearing uniquely in the Tosefta vs. Mishnah.

Figure 1e: Number of locations appearing uniquely in the Tosefta vs.

Mishnah, normalized.

Figure 1f: Geographic dispersion of location names.

This graph presents the distance between the most distant places mentioned in the Mishnah vs. the Tosefta, from other points in the same work. The Tosefta includes more peripheral place names than the Mishna, in most *Sedarim*, excluding *Seder Nashim*.

**Commented [A2]:** Distance from where to where? How was the distance measured?





Figure 2: Geographic distribution of place names in the Mishnah and the Tosefta.

Locations in green are found in both. Locations in red are exclusively found in the Mishnah. Locations in blue are exclusively found in the Tosefta. The distribution of the places common to both works is even, with no exceptional pattern being identified.

Figure 3

KDE Density Maps for Mishnah and Tosefta by Seder

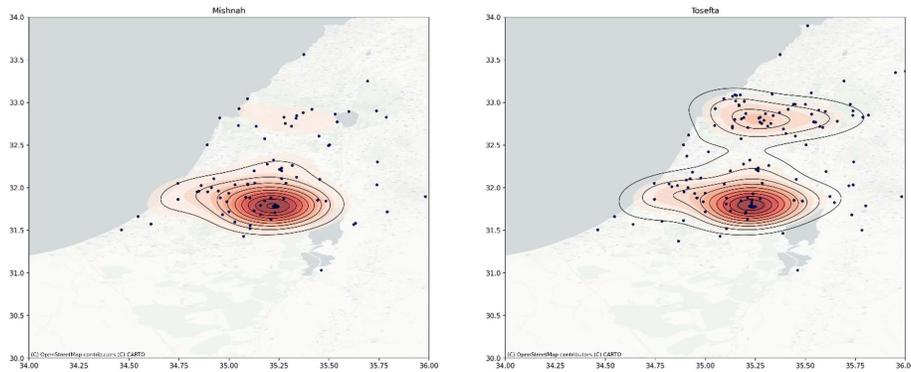


Figure 3: KDE of place names in the Mishnah vs. the Tosefta.

KDE maps compare the dispersion of place names; each place name is marked once only, regardless of the number of times it is mentioned in each composition. Fig. 3 shows that both compilations contain place names in a significant cluster in the central highlands near Jerusalem and extending west toward the Judean foothills and the coastal plain. However, the Tosefta also had another significant cluster in the middle of the Lower Galilee. Other locations are dispersed or in very small clusters around the two main clusters.

Figure 4

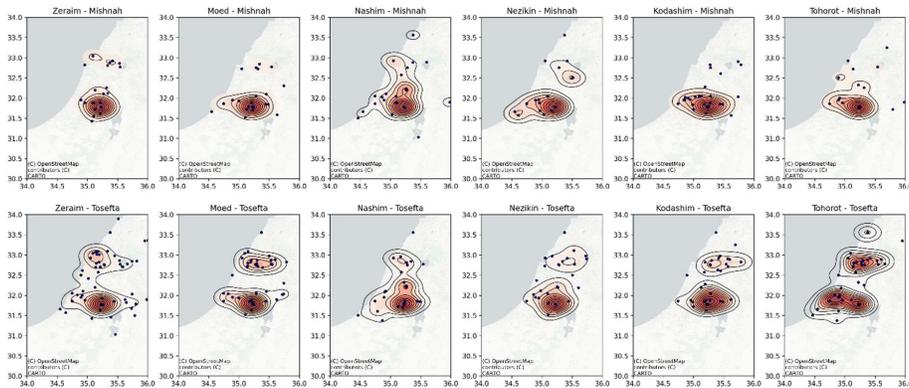


Figure 4: Mishnah (upper row) and Tosefta (bottom row) maps of settlements' distribution (unique place names), divided by Sedarim.

The locations mentioned in the Mishnah are concentrated in the Judea highlands around Jerusalem and extend westward, while there is a relative paucity of locations in Galilee. The

only exceptional *Seder* in that sense in the Mishnah is *Nashim*, which presents a meaningful cluster also in the Lower Galilee.

Figure 5

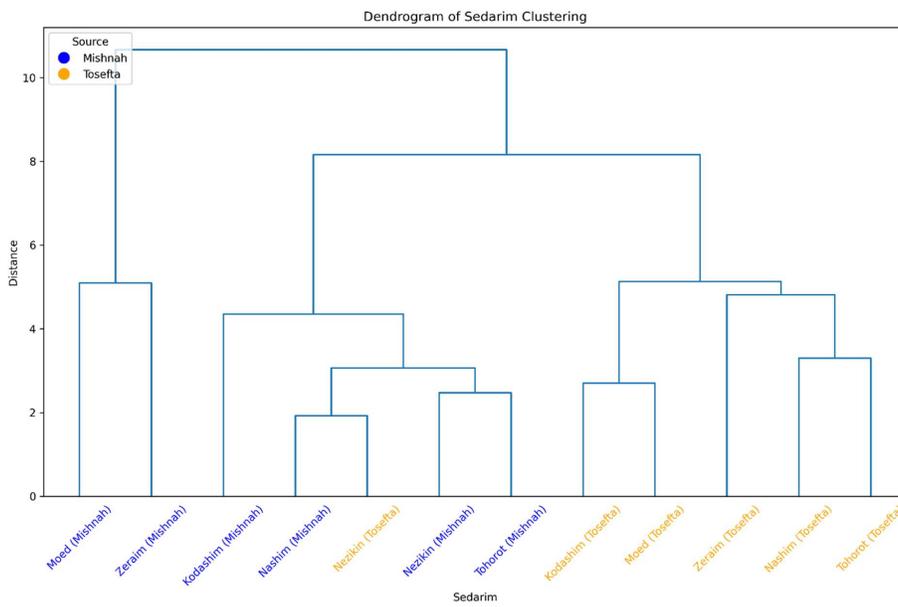


Figure 5: Clustering of spatial features (dendrogram)

Table 1

<i>Seder</i>	Mishnah	Tosefta
<i>Kodashim</i>	0.492753623	0.378640777

<i>Moed</i>	0.302083333	0.303797468
<i>Nashim</i>	0.414285714	0.346153846
<i>Nezikin</i>	0.41509434	0.366666667
<i>Toharot</i>	0.466666667	0.465346535
<i>Zera'im</i>	0.329268293	0.409356725

Table 1: Unique Places Normalized per Word, for each Text Unit

## Table 2

Geographic		
Spread by <i>Seder</i>	Mishnah	Tosefta
<i>Kodashim</i>	7396.475557	18033.83339
<i>Moed</i>	13808.46869	22173.23098
<i>Nashim</i>	22579.03879	18157.00805
<i>Nezikin</i>	19816.26996	21096.68665
<i>Toharot</i>	19771.43603	27316.64418
<i>Zera'im</i>	10938.20467	50442.94051

Table 2: Convex hull for Mishnah vs. Tosefta, by *Seder*