**For methods/full info on KNZ datasets/protocols, see** [**https://lter.konza.ksu.edu/sites/default/files/MM.pdf**](https://lter.konza.ksu.edu/sites/default/files/MM.pdf)

| **DATASET** | **YEARS** | **# OF SPECIES** | **ABUNDANCE MEASURE** |
| --- | --- | --- | --- |
| **knz\_producer** | **1983-2023** | **281** | **% cover** |
| **knz\_consumer** | **1982-2020** | **74** | **count** |

**PLOT/AGGREGATION NOTES**

1. The producer and consumer datasets were sampled at different spatial scales and will require aggregation at the ‘plot’ level in order to join them. I have not aggregated anything yet, leaving the data at the finest spatial and temporal sampling resolution.
2. **knz\_producer:** 
   1. *Spatial scale*: In each watershed (“plot”), 4 transects (“subplot”) are set up, each containing 5 sampling locations (“sub\_subplot”), for a total of 20 sampling locations per plot. Plots are either grazed or ungrazed.
   2. *Temporal scale*: From 1983-1990, plots were sampled 3 times per year. Beginning in 1991, plots were sampled 2 times per year. ***\*\*I have not done anything yet to account for this in my data cleaning!!!\*\****
3. **knz\_consumer:**
   1. *Spatial scale*: Sampled at 2 subplots per watershed (“plot”). Plots are either grazed or ungrazed.
   2. *Temporal scale:* Sampled 2 times per year in late July-early August. Samples are at least 1 week apart.
4. OTHER NOTES
   1. KNZ\_producer was sampled at more watersheds (“plot”) than KNZ\_consumer. The plot names match between the datasets and the extra KNZ\_producer plots can be dropped.

**knz\_producer**

1. SPECIES NOTES
   1. KNZ species list <https://lter.konza.ksu.edu/sites/default/files/sp_list_0.pdf>
   2. Konza has already cleaned/grouped species as necessary. Only changes made were excluding the following: "annual forb", "carex spp.", "cyperu spp.", "euphor spp.", "symphy spp."
2. ABUNDANCE NOTES
   1. Konza records percent cover in 10m2 circular plots using 7 abundance classes (1-7). The midpoint % of each class is meant to be used in analysis. I have replaces the abundance class with this midpoint
      1. "0.5" = "1", "3.0" = "2", "15.0" = "3", "37.5" = "4", "62.5" = "5", "85.0" = "6", "97.5" = "7"

**knz\_consumer**

1. SPECIES NOTES
   1. Konza has already cleaned/grouped grasshopper species as necessary and assigned a species code to each group. I suggest we stick with what they have done, and so have used this code as the species identities in the “species” column.
2. ABUNDANCE NOTES
   1. Represents count of # of individuals in the net after 200 sweeps