

Percentiles of weight in tons in the `xauto` data

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Methods

We used the Mata-based SSC package `rcentile` to estimate percentiles 0 to 100 by 25, with confidence intervals clustered by the variable `firm`, meaning that we are sampling firms from a population of firms, instead of models from a population of models. A 100α th percentile of a variable Y is defined informally as a solution in θ of the equation

$$C_Y(\theta) = \alpha,$$

where $C_Y(\cdot)$ is the centre ridit function of Y .

Results

The percentiles are plotted in Figure 1 and tabulated in Table 1.

Figure 1. Percentiles of weight in tons in the xauto data (23 firms, 74 models)

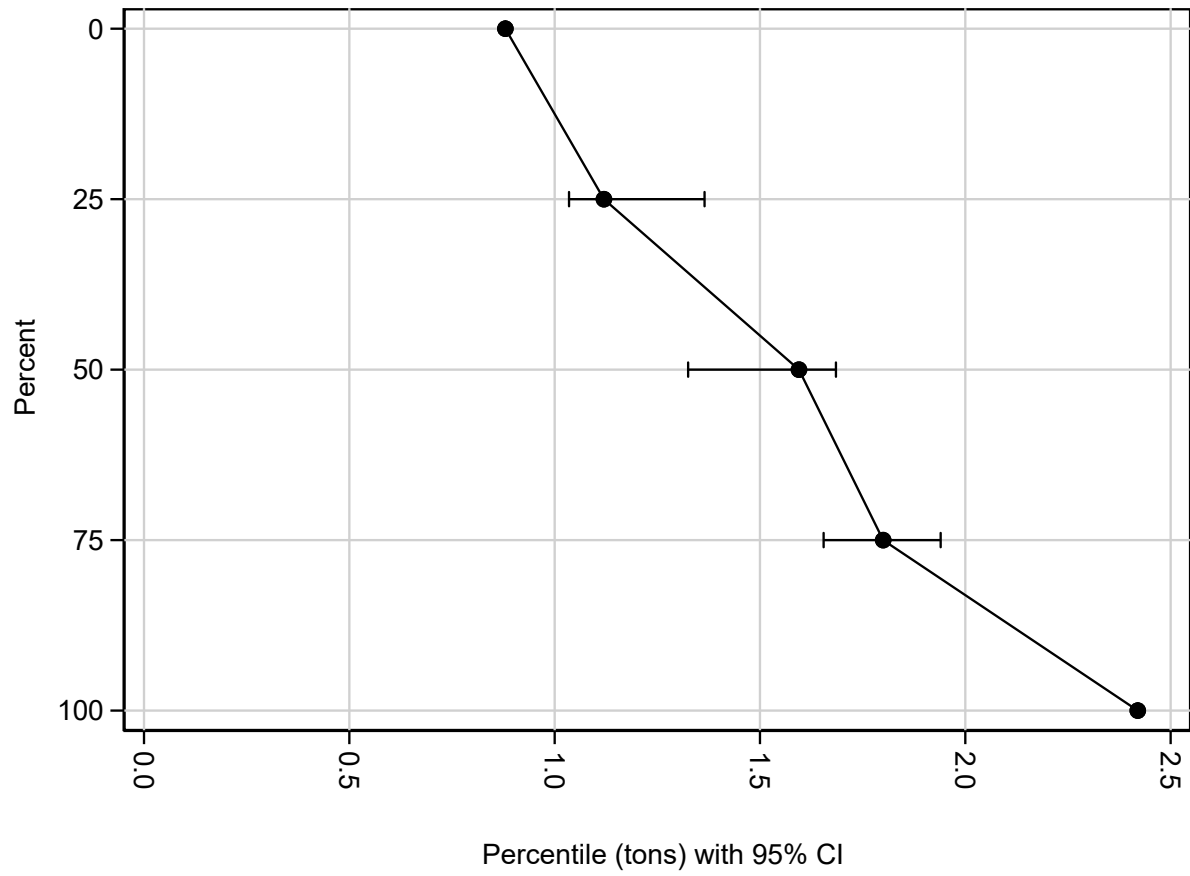


Table 1. Percentiles of weight in tons in the xauto data (23 firms, 74 models)

<i>Percent</i>	<i>Percentile</i>	<i>(95%</i>	<i>CI)</i>
0	0.880	(0.880,	0.880)
25	1.120	(1.035,	1.365)
50	1.595	(1.325,	1.685)
75	1.800	(1.655,	1.940)
100	2.420	(2.420,	2.420)