Appendix 2 Concentration measures and their formulas.

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| **Concentration****measure** | **Formula** | **Variable****meaning** |
| Concentration ratios ($CR\_{x}$) | $CR\_{x}$ = $\frac{\sum\_{i=1}^{x}y\_{i}}{\sum\_{j=1}^{n}y\_{j}}$ | $y\_{i}$ is the total area of an owner, x is the number of largest owners under consideration and n is the total number of landowners. |
| Herfindahl-Hirschman index (HHI) | $HHI=\sum\_{i=1}^{n}a\_{i}^{2}\*10.000$ with $a\_{i}=\frac{y\_{i}}{\sum\_{j=1}^{n}y\_{j}}$ | $y\_{i}$ is the total area of an owner and n is the total number of landowners. |
| Gini coefficient (G) | $$G=\frac{1}{n}(n+1-2\frac{\sum\_{i=1}^{n}(n+1-i)y\_{i}}{\sum\_{i=1}^{n}y\_{i}}$$ | $y\_{i}$ is the total area of an owner and n is the total number of landowners. All landowners are sorted and indexed in ascending order. |