***Supplementary Material***

**Setting up decision-making tools towards a quality-oriented participatory maize breeding program**

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**Table S9.** Average chord distance between farmers’ populations, average chord distance between participatory bred (PPB) populations, and overall Cavalli-Sforza–Edwards’ chord distances between all maize populations.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Farmers’ populations | | PPB populations | | All populations | |
| *DCSE* | Between populations | *DCSE* | Between populations | *DCSE* | Between populations |
| Average | 0.078 |  | 0.096 |  | 0.104 |  |
| Minimum | 0.035 | Broa-136 / Broa-172 | 0.021 | Estica / Fisga | 0.021 | Estica / Fisga |
| Maximum | 0.183 | Broa-214 / Broa-CMSPH8 | 0.164 | Verdeal da Aperrela / Castro Verde | 0.281 | Broa-CMSPH8 / BS22(R)C6 |

*DCSE -Pairwise Cavalli-Sforza–Edwards’ chord distance*