# **Supplementary material for the manuscript :** Impact of multi-environment genomic prediction in recurrent selection in an upland rice synthetic population

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| File name | Type of data | Number of entries/plots | Data recorded | Reference person for additional information |
| PCT27\_TP334\_genotypes.txt | Genotypic matrix | 334 S0 genotypes | 9928 SNPs extracted from GBS | [cecile.grenier@cirad.fr](mailto:cecile.grenier@cirad.fr) |
| PCT27\_TP334\_phenotypes.csv | Phenotypic matrix | 4800 plots (400 entries with 3 repetitions per trial) | 4 traits collected in Colombia in 2017 and 2018 in 2 sites | [cecile.grenier@cirad.fr](mailto:cecile.grenier@cirad.fr) |

**PCT27\_TP334\_genotypes.txt**

GBS genotypic data (9928 SNP) for the PCT27 tropical japonica population of 334 S0 plants

Data processed as in Appendix 1

**PCT27\_TP334\_phenotypes.csv**

Phenotypic data (4 traits) for the PCT27 tropical japonica population of 334 families tested in Colombia (2 sites) in 2017 and 2018

Data processed as in Appendix 2 and Appendix 3

Four trials recorded: Two trials (2017A and 2018A) in Santa Rosa (SRO) and two trials (2017B and 2018B) in Palmira (PAL)

400 entries phenotyped in 2017: 334 S0:2 progenies + 50 S0:2 Temporal Checks (TC) + 2 inbred lines as Spatial Checks (SC) for each block

400 entries phenotyped in 2018: 334 S0:3 progenies + 50 S0:2 Temporal Checks (TC) + 2 inbred lines as Spatial Checks (SC) for each block

Four recorded traits in each trial: FL: Day to flowering (days); PH: Plant height (cm); YLD: Grain weight per plot at 14% humidity (g); ZN: Grain zinc concentration (ppm)