**Supplementary Table 1.** Phenotypic characteristics used for the evaluation of Colombian weedy rice populations, landraces and commercial varieties.

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| **Code** | **Crop stage** | **Morphological traits** | **Description** |
| C\_num | Vegetative | Tillers number | Quantitative. Record of tiller number per plant (n) |
| dtot | Vegetative | Days to tillering | Quantitative. Days after seeding (DAS) when the plants presented at least 1 tillers. |
| C\_hab | Vegetative | Culm habit | Quantitative. The estimated average angle of inclination of the base of the main culm from vertical. |
| C\_col | Vegetative | Culm anthocyanin coloration | Qualitative/categorical variables. The presence of purple color from anthocyanin, observed on the stem base (green, light purple, dark purple) |
| dtof | After flowering | Days to flowering | Quantitative. DAS when 50% of the plants presented panicle completely emerged |
| FL\_att | After flowering | Flag leaf attitude  | Qualitative/categorical variables. Record of angle of attachment between the flag leaf blade and the main panicle axis (semi-erect, intermediate, horizontal, descending) |
| FL\_len | After flowering | Flag leaf length | Quantitative. Measured from the topmost leaf blade (cm) |
| FL\_wi | After flowering | Flag leaf width | Quantitative. Measured at the widest portion of the blade (cm) |
| FL\_la | After flowering | Flag leaf area | Quantitative. Based on data of FL\_len and FL\_wi (Leaf area = K (0.75) x length x width) (cm2) |
| P\_len | After flowering | Plant height | Quantitative. Measured from the base of the culm to the tip of the tallest panicle from the principal culm (cm). |
| C\_len | After flowering | Culm length | Quantitative. Measured from the base of the culm to the base of the panicle, excluding the panicle (cm) |
| C\_att | After flowering | Tillers attitude  | Qualitative/categorical variables. The visual estimated average angle of inclination of the base of the main culm from vertical (erect, semi-erect, open) |
| Pan\_n | Ripening (after harvest) | Number of panicles  | Quantitative. Record of number of panicles per plant (n) |
| Pan\_l | Ripening (after harvest) | Panicle length | Quantitative. Measured from the base to the top of the panicle (cm), from the principal culm |
| RTR | Ripening (after harvest) | Shattering | Quantitative. Seed shattering was measured as breaking tensile strength (BTS) of seeds 35 days after flowering, Measured on about 10 seeds per panicle (gf) |
| Aw\_p | Ripening (after harvest) | Awn presence | Qualitative/categorical variables (absent, present) |
| Aw\_l | Ripening (after harvest) | Awn length | Quantitative. Record the average length of 5 representative spikelets (cm) |
| Aw\_c | Ripening (after harvest) | Awn color  | Qualitative/categorical variables. Measured on mature seed (black, straw, red, purple) |
| Ap\_c | Ripening (after harvest) | Apiculus color  | Qualitative/categorical variables. Measured on mature seed (black, straw, red, purple) |
| Hul\_c | Ripening (after harvest) | Hull color | Qualitative/categorical variables. Measured on mature seed (brown, black, straw) |
| Per\_c | Ripening (after harvest) | Pericarp color  | Qualitative/categorical variables. Measured on mature seed (red, white) |
| Gr\_lenH | Ripening (after harvest) | Grain length | Quantitative. Measured on about 10 seeds (mm) |
| Gr\_wiH | Ripening (after harvest) | Grain width | Quantitative. Measured on about 10 seeds (mm) |
| Rate | Ripening (after harvest) | Grain length/width ratio | Quantitative. Measured on about 10 seeds with hulls (mm) |
| Gr\_len | Ripening (after harvest) | Dehulled grain length | Quantitative. Measured on about 10 seeds (mm) |
| Gr\_wi | Ripening (after harvest) | Dehulled grain width | Quantitative. Measured on about 10 seeds (mm) |
| Gr\_we | Ripening (after harvest) | 100-grain weight | Quantitative. Measured (g) |