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| **Table S1. List of rice germplasm and source**  |
| **S.No** | **Germplasm**  | **Origin/Source** |  | **S.No** | **Germplasm**  | **Origin/Source** |
| 1 | AZUCENA | Philippines |  | 40 | Moroberekan | Cote d'Ivoire |
| 2 | CAIAPO | Brazil |  | 41 | OS 4 | Nigeria |
| 3 | CIRAD 358 | Cote d'Ivoire |  | 42 | OS 6 | Nigeria |
| 4 | CIRAD 394 | Madagascar |  | 43 | PALAWAN | Philippines |
| 5 | CIRAD 403 | Brazil |  | 44 | PALMIRA | Costa Rica |
| 6 | CIRAD 409 | Columbia |  | 45 | PCT 11/0/0/2,BO/1>55-1-3-1 | Columbia  |
| 7 | CIRAD 488 | Madagascar |  | 46 | PCT/4/1/>1076-2-4-1-5 | Columbia  |
| 8 | CT 13582-15-M | CIAT |  | 47 | WAB 176-8-HB | AfricaRice |
| 9 | CT 6946-9-1-2-M-1P | CIAT |  | 48 | WAB 706-3-4-K4-KB-1 | AfricaRice |
| 10 | CURINGA | Brazil |  | 49 | WAB 99-16 | AfricaRice |
| 11 | DOURADO PRECOCE  | Cote d'Ivoire |  | 50 | Primavera | Brazil |
| 12 | IAC 120 | Brazil |  | 51 | WAB 759-55-2-HB | AfricaRice |
| 13 | IAC 47 | Brazil |  | 52 | Nerica 7 \* | AfricaRice |
| 14 | WAB 181- 18 | AfricaRice |  | 53 | IRAT 109 | Cote d'Ivoire |
| 15 | IGUAPE CATETO | Brazil |  | 54 | ARICA4 | AfricaRice |
| 16 | IR 53236-275-1 | IRRI |  | 55 | Way Rem | Indonesia |
| 17 | IR 63371-38 | IRRI |  | 56 | Vandana | India |
| 18 | IR 63380-16 | IRRI |  | 57 | Apo | Philippines |
| 19 | WAB 56 – 50 | AfricaRice |  | 58 | WAB56-104 | AfricaRice |
| 20 | IR 66421.105.1.1.B | IRRI |  | 59 | IR64  | IRRI |
| 21 | IR 66421-096-2-1-1 | IRRI |  | 60 | Sabon daga  | Nigeria  |
| 22 | IR 68704-145-1-1-B | IRRI |  | 61 | ITA 117 | IITA |
| 23 | IR 71525-19-1-1 | IRRI |  | 62 | ITA 128 | IITA |
| 24 | IR 71676-90-2-2 | IRRI |  | 63 | ITA 257 | IITA |
| 25 | IR 72967-12-2-3 | IRRI |  | 64 | ITA 301 | IITA |
| 26 | IRAT 104 | Cote d'Ivoire |  | 65 | ITA 315 | IITA |
| 27 | IRAT 112 | Cote d'Ivoire |  | 66 | Ofada 1 | Nigeria landrace |
| 28 | IRAT 13 | Cote d'Ivoire |  | 67 | Ofada 2 | Nigeria landrace |
| 29 | IRAT 144  | Cote d'Ivoire |  | 68 | Ofada 3 | Nigeria landrace |
| 30 | IRAT 170  | Cote d'Ivoire |  | 69 | Ofada 4 | Nigeria landrace |
| 31 | IRAT 2 | Senegal |  | 70 | Igbemo white | Nigeria landrace |
| 32 | IRAT 212 | Cote d'Ivoire |  | 71 | Igbemo red | Nigeria landrace |
| 33 | IRAT 216 | Cote d'Ivoire |  | 72 | China best | China |
| 34 | IRAT 257 | Brazil |  | 73 | Ebonyi Local  | Nigeria landrace |
| 35 | IRAT 362 | Nicaragua |  | 74 | NERICA 1 \* | AfricaRice |
| 36 | IRAT 364 | Nicaragua |  | 75 | NERICA 2 \* | AfricaRice |
| 37 | IRAT 392=CIRAD 392 | Madagascar |  | 76 | NERICA 8 \* | AfricaRice |
| 38 | LAC 23 | Liberia |  | 77 | IR55419-04 | IRRI |
| 39 | IRAT 133 \* | Cote d'Ivoire |  |   |   |   |

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| **Table S2. Source and important traits of eighteen genotypes screened under reproductive stage drought stress**  |
|   | Genotypes | Landrace/Improved | Source | Important Traits |
| 1 | Ofada 1 | Landrace | Nigeria | Good taste |
| 2 | Ofada 2 | Landrace | Nigeria | Good taste |
| 3 | Ofada 4 | Landrace | Nigeria | Good taste |
| 4 | FUNAABOR-1(Ofada Gold) | Purified landrace | Nigeria | Good taste |
| 5 | FUNAABOR-2 (Ofada White) | Purified landrace | Nigeria | Good taste |
| 6 | Igbemo white | Landrace | Nigeria | Good taste/earliness |
| 7 | Igbemo red | Landrace | Nigeria | Good taste/earliness |
| 8 | Ebonyi local | Landrace | Nigeria | Earliness |
| 9 | Benue local | Landrace | Nigeria | Earliness |
| 10 | OS 6 | Improved | Nigeria | High yield |
| 11 | ITA 117 | Improved | Nigeria | Long grain/Drought tolerant |
| 12 | NERIACA 4 | Improved | AfricaRice | Drought tolerant |
| 13 | NERICA 8 | Improved | AfricaRice | High yield |
| 14 | NERICA 7 | Improved | AfricaRice | High yield |
| 15 | IRAT 109 | Improved | CIRAD | High yield/Drought tolerant |
| 16 | IR55419-04 | Improved | IRRI | High yield/Drought tolerant |
| 17 | IR84984-83-15-481-B | Improved | IRRI | High yield/Drought tolerant |
| 18 | IR 64 | Improved | IRRI | High yield/susceptible check |
| IRRI=International Rice Research Institute  |