Table S1. List of the 30 varieties of durum wheat evaluated during the two cropping seasons.

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| --- | --- | --- | --- | --- | --- |
| **Nº** | **Genotype** | **Abbreviation** | **Type/Pedigree** | **Origin** | **Year of release** |
| 1 | Bidi 17 | Bid | Landrace | Algeria | 1930 |
| 2 | Gloire de Montgolfier  | Glo | Landrace | Algeria | 1960 |
| 3 | Guemgoum R'khem | Gue | Landrace | Algeria | 1960 |
| 4 | Hedba 3 | Hed | Landrace | Algeria | 1921 |
| 5 | Langlois | Lan | Landrace | Algeria | 1930 |
| 6 | Mohammed Ben Bachir | MBB | Landrace | Algeria | 1930 |
| 7 | Montpellier | Mon | Landrace | Algeria | 1965 |
| 8 | Oued Zenati 368 | OZ | Landrace | Algeria | 1936 |
| 9 | Acsad 65 | Acs | Gerardo-vz-469/3/Jori-1//Nd-61-130/Leeds | ACSAD | 1984 |
| 10 | Altar 84 | Alt | Ruff/Flamingo,mex//Mexicali-75/3/Shearwater | CYMMIT | 1984 |
| 11 | Bousselem | Bou | Heider//Martes/Huevos de oro | ICARDA | 2007 |
| 12 | Boutaleb | Bot | Hedba 3/Ofanto | Algeria | 2013 |
| 13 | Capeiti | Cap | Eiti\*6/Senatore-Cappelli | Italy | 1940 |
| 14 | Cirta | Cir | Hedba-3/Gerardo-vz-619 | Algeria | 2000 |
| 15 | GTA Dur | GTA | Crane/4/Polonicum PI185309//T.glutin enano/2\* Tc60/3/Gll | CIMMYT | 1972 |
| 16 | INRAT 69 | INR | Mahmoudi/(bd-2777)Kyperounda | Tunisia | 1969 |
| 17 | Korifla  | Kor | Durum-dwarf-s-15/Crane//Geier | ICARDA | 1987 |
| 18 | Mansourah | Man | Bread wheat/MBB | Algeria | 2012 |
| 19 | Massinissa | Mas | Ofanto/Bousselem | Algeria | 2012 |
| 20 | Megress | Mgs | Ofanto/Waha//MBB | Algeria | 2007 |
| 21 | Mexicali 75 | Mex | Gerardo-vz-469/3/Jori(sib)//Nd-61-130/Leeds | CIMMYT | 1975 |
| 22 | Ofanto  | Ofa | Ademelio/Appulo | Italy | 1990 |
| 23 | Oued El Berd | OEB | Gta dur/Ofanto | Algeria | 2013 |
| 24 | Polonicum | Pol | Triticum polinicum/Zenati boulette 1953-58 | France | 1973 |
| 25 | Sahell | Sah | Cit”s”/4/Tace/4\*tc//2\*zb/wls/3/aa”s’’/5/Ruff”s”/Albe”s” | CYMMIT | 1977 |
| 26 | Simeto | Sim | Capeiti-8/Valnova | Italy | 1988 |
| 27 | Sitifis | Sit | Bousselam/Ofanto | Algeria | 2011 |
| 28 | Vitron | Vit | Turkey77/3/Jori/Anhinga//Flamingo | Spain | 1987 |
| 29 | Waha  | Wah | Plc/Ruff//Gta’s/3/Rolette | ICARDA | 1986 |
| 30 | ZB×Fg | ZBF | Zb/fg‘‘s’’ lk/3/ko 120/4/Ward cs 10604 | Algeria | 1983 |
| \*: Backross |  |  |  |  |