This research was carried out in order to determine the yields and some agricultural characteristics of 36 triticale cultivars/lines under Erzurum ecological conditions in 1992-93 and 1994-95 growing seasons. The experiment indicated that lines 11, 17, 18 and 19 and cultivars IGUANA 4-2 and ERONGA 83 were suitable in Erzurum dryland conditions. On the other hand, test weight was generally above 70 kg in the many cultivars/lines (especially cultivars and lines from CIMMYT) and their seeds were plumper.