The paper presents the results obtained by Bucovina, Nordic and Milenium maize hybrids developed at the Agricultural Research and Development Station of Suceava, compared to the Romanian check Montana. These results assist a high yielding ability of Bucovina, Nordic and Mileium realized at a little superior grain moisture compared to Montana check, but with a better resistance to breaking and lodging. The agronomic index used as synthetic indicator by the cumulating of the production results, the vegetation period and the plant resistance to breaking and lodging for the maize hybrids tested in five north places of the country, shows that Turda 165, Nordic and Bucovina, can satisfy the farmers exigencies from the more humid and colder zones of Romania.