Abstract  Research by the 2004-2010 in the agricultural area north-east Baragan, highlight the fact that rape sowing time factor to be considered limiting of the technology of great importance to this culture, a disturbance of optimal growth and development of this plant. Frost resistance of rape plants are closely related to planting dates with complex implications in the biology of their (production, leaf area, leaf area index, number pods per plant, dry matter harvest index, etc.). Optimal sowing time of winter rape to the north - east Baragan is between 5- 10 september the point of view so productive and biologically. So sowing too early too late and especially production determine significant drawbacks.

Key words: winter rape, sowing date, productive and biological structures