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Features of post-accidental changes in vegetation complexes of fallow lands and meadows in Chernobyl exclusion zone were considered in the study. It was shown that the processes of phytocenosis transformation are more complex than that was earlier described in forecasts concerning development of former agrocenosis. Directions, rate and frequency of self-seeding in new biotopes are defined by biological features of the species, the season weather conditions, microclimate characteristics of the given biotope and activity of animals. The plants penetrate on new unpopulated areas gradually and successively, every time – on effective distance of colonization over generation. They need existence of whole complex of necessary biotic and abiotic conditions. Though 25 years have gone after the accident so far only the first steps of dissemination take place: forming colonies of the trees-pioneers. It was shown as well that success of phytodiversity establishment and results of its assessment depend very much on the weather course. At unfavorable conditions ontogenesis of the plants does not reach generative phase, in which most of vascular plants are the most remarkable at the field studies.