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Analysis of agricultural characteristics and qualities of CIMMYT resources in seeding time

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Abstract

We received 73 wheat resources from CIMMYT for analysis of agricultural characteristics and qualities of them. We sowed 73 lines and 4 Korean varieties in fall and spring to compare differences of wheat traits between fall and spring seeding. The heading and maturity date of fall seeding lines has coming faster average 18 days than spring seeding lines. Fall seeding lines have more number of spike per m² and grain number of spike. Spike and awn length of spring seeding lines were shorter than fall seeding lines and stem length was variable to varieties in both condition. Protein contents of five of 73 lines, Jokyoung and Jopoom varieties decreased but the others increased. The sedimentation values of 34 lines include Jokyoung and falling number (F/N) of 44 lines include two varieties, Keumkang and Jokyoung, decreased but the others increased, respectively. Particle size was presented that most spring seeding lines were bigger. However, when it sowed in fall, the lightness (L) of wheat flour was lighter. Consequently, we confirmed when it was sowed in spring, agricultural traits and qualities of wheat got weak.

Key words: Agronomic Traits, Allelic variation, Long spike, Wheat

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