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Evolution and relationships between yield, protein and oil in experimental trials of commercial cultivars from Argentina

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Soybean cultivation in Argentina shows progress in yield, while for oil and protein in the grain the trend remains stable and decreasing respectively. The soybean market observes the evolution of these parameters as an aspect of both the quality of the product as well as its incidence in industrial processing. The objective of this work was to know the evolution and relationships between grain yield and protein and oil contents in commercial cultivars evaluated in experimental trials over a period of more than a decade. Grain yield data were obtained from the National Network for the Evaluation of Soybean Cultivars (RECSO) from experimental trials in complete random blocks and with 3 replicates per cultivar and environment. Protein and oil contents were obtained through a joint work with the INTA Marcos Juarez Industrial Quality and Value Added Laboratory of Cereals and Oilseeds, where each cultivar was evaluated from a grain sample by locality and year. The data recorded during 11 years and covering the period 2005-06 through 2015-16, would allow to know the evolution and the different relations between the three variables as well as the possibility of having information that optimizes the selection of genotypes, the time sowing and cultivation regions most likely to improve protein and oil values.