Weed control in soybean and its related problems

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119 -SUMMARYFour experiments were carried out at the AgriculturalResearch and Experiment Station, Faculty of Agriculture atMoshtohor, Kalubia Governorate, during 1979 and 1'980 seasonsto investigate the effect of some herbicides as a single orin combinations under different cultural methods of planting. In addition to study the influence of the competition ofweeds on the growth and soybean yield as well as the proteinand ~il content, Calland cultiver was used, the soil inwhich the experiments were undertaken was silt cl, ay textured, with a pH value of 7.8 and 1.581 organic matter ecnrenr, Experiment I:This experiment included 30 treatments which were theusing of 13 herbicides (single or combinations), beside thehoeing and control (un-weeded) treatments under ~NO methodsof planting (heraty and sfir). These treat.ants iarrangedin split plot da81gn with four replications. The two methodsof planting arranged in the .a1n plots, whereas the weedcontrol treatments 1n the subplots _ The 13 herbilcidestreatment were: (Rate/faddan): afalon (11nuron) 1.0 kg.;amex (butralin) 2.0 L.; ronster (oxadiazon) 2.0 L; Sencor(metribuzin) 0.5 kg_; enide (dlphena_lde) 1.5 kg.; tridex(trifluralin-bladex) 1.0 L.I dicotex (phen18opha_:) 1.0 L and mixtures of linuron with the other herbicides byusing half rate of that of the individual herbicide. The herbicidal combinations were more effecti'e incontrolling weeds than any single herbicide and itshowed good effects on most growth characters studied atthe early, moderate and late stage of soybean plant.4. Linuron, tridex, phenisophem and mixtures of linuronwith butrelin or tridex or phenisopham were e~~rox1-.ataly similar to hoeing in controlling broed-leavedweeds, while the worest treatments in controllingbroad-leaved weeds were butralin, oxadiazon ariddiphenamide.