of soil approximately 10-12 inches in diameter, were enclosed in a plastic fertilizer bag 19 inches wide and 28 inches deep. The inside of the plastic bag and the soil were sprinkled with water before tying the bag securely with a string.

Five plants treated in this manner were transported in the trunk of an automobile 202 miles to Douglas, Georgia, and placed in the hot July sun during a demonstration at a corn clinic. Holes were dug in the soil at the site of the meeting for placing the bags and roots underneath the soil. Consequently, the bags were not visible to the audience.

The plants were still alive and in good condition for the demonstration, although one of the plants was dug two days prior to the meeting and the other four plants one day prior to the meeting. Three of the plants were transported back to Athens and placed in a grove of trees on the University campus. Water was sprinkled occasionally into the plastic bags. Two of the three plants lived until 17 days later. The third plant was still alive 22 days after the meeting but not in an entirely satisfactory condition for demonstrational use.

In addition to demonstrations, this method apparently has other possibilities such as transferring plants from greenhouse to the field and vice versa, and crossing plants from different locations.

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2. Effect of stand on yield and other agronomic characters in double-cross corn performance tests.

Genes controlling some characters in double crosses were affected more by variations in stand than genes controlling other characters. Under the conditions of this experiment, plant height, ear height, root lodging, and stalk lodging were not affected as greatly by deficiencies in stand as maturity, yield per plant, number of ears per plant, and size of ear.

When allowed the same amount of additional space in which to develop, plants of a two-eared hybrid had a greater increase in yield than plants of a one-eared hybrid.

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1. The blotching system involving the C locus.

In last year's News Letter it was concluded that the blotching system which causes blotches of color to develop in the aleurone in A c R genotypes involves at least four genes. This conclusion was based in part on the fact that the inbred strain, Oh45, which is not itself blotched, proved in test crosses to be homozygous for the Bh factors on chromosomes 4, 6, and 9. This suggested that there must be at least one additional factor in the system and that this factor is absent in Oh45. Ratios in crosses of Oh45 with testers for the known Bh genes also indicated that an additional factor is involved.

Test crosses made in 1959 show that this additional gene is \underline{A}_2 rather than a gene specific for blotching. Oh45 has the genotype \underline{a}_2 \underline{a}_2 . Our present conclusion is that three different $\underline{B}\underline{h}$ genes on chromo-