

100,000 kg of seeds were produced. Greenhouse nutrition research and field fertilizer trials are gradually throwing more light on the coffee plant's mineral requirements and erosion control experiments on various soil types indicate the best methods of preventing soil losses in coffee plantations. To obtain highest yields per unit area many experiments on methods of planting (distance, number of plants per hill etc.) have been conducted and the effects of mechanization and artificial irrigation are also being studied in various coffee regions. Modern methods of insect and weed control are gradually being introduced as routine procedures. To produce larger amounts of high quality coffee, methods of processing are being investigated, special emphasis being laid on artificial drying.

#### Field Agents Schooled

In order to prepare a large staff of county agents well aware of the latest results derived from this extensive research program, the Agronomic Institute organized this year the first post-graduate course on coffee, comprising 30 lectures and numerous demonstrations on its coffee experiment stations, including also visits to many coffee

estates around Campinas and of other regions. About 50 agronomists, most of them already working as county agents in coffee areas of Sao Paulo and of five other States of Brazil attended this course, which, it is hoped, will be repeated again next year.

#### Security in Mixed Farming

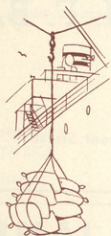
The above outlined program for the rehabilitation of Sao Paulo's coffee industry, was started some years ago in the Campinas area as soon as better coffee prices allowed it. In this district alone it is estimated that almost 2 million new coffee trees have already been planted, subdivided into reasonably small plantations, all in contour lines, heavily fertilized and derived from seed of high yielding strains, some of them being also irrigated during the dry season. Gradually this program is also coming into effect in various other well suited areas for coffee, mainly due to the establishment of numerous demonstration plots on private farms. The change, of course, can only be a gradual one, as many years will be necessary to reorganize the whole coffee industry in Sao Paulo. The velocity of this event will of course largely depend on coffee prices.

The present convenience of this rehabilitation program might be questioned, as one might reason that it will contribute to worsen the next period of overproduction, in the case this phenomenon should again occur. If so, this contribution will however be negligible in the near future as production of these new plantations in Sao Paulo is hardly equivalent to the losses which still occur due to the abandonment of many old plantations. On the other hand, the main thing to remind is that Sao Paulo's well balanced mixed farms and small one family holdings with intensive coffee growing will have a much better chance to survive such a period with all its disastrous consequences than large coffee farms, typical of the "invasion" phase, as the ones in Parana.

Concluding, one might say that the modern trend of Sao Paulo's coffee industry is to change over to intensive scientific coffee growing on mixed, well balanced farms. Sao Paulo's coffee policy is, therefore, to contribute to the future establishment of a stable world coffee situation, when gradual increase of consumption will be accompanied by an equally gradual increase in coffee production.



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