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## APPLICATION OF THE PRINCIPAL COMPONENTS ANALYSIS TO THE BREEDING BROILER IN FRANCE

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By means of the principal components analysis we tried to determine the size of broiler production units liable to entail the largest variations in the performances from one poultry-farm to another.

The principal components analysis allows to detail and explain the working of a system on condition that all the variables involved are included.

From the statistical informations collected by I. T. A. V. I. in 144 poultry-farms, the means, standard deviations and coefficients of variation have been computed for the 18 variables chosen.

The computation led to establishment of nine principal components which explain 93.5 p. 100 of the total variance registered for the 18 variables.

Then we identified the components and settled their part in the working of the breeding system. Five components have been settled accurately : the economic productivity — the product — the poultryman salary — the investment costs — the breeding structure.

The system of analysis used constitutes an objective approach towards all problems of the broiler production and its surrounding structure. It should be able to contribute to the realization of a strategy at the level of an economic organization such as the association of producers.

## DETERMINATION OF FOOD CONSUMPTION BY FAMILIES THROUGH THE TECHNIQUE OF CONSUMER'S PANELS EXAMPLE OF APPLICATION : CHICKEN MARKET

J. DURANTON

*Secodil*

## OPTIMUM DATE FOR THE DISCHARGE OF A FLOCK OF LAYING HENS

J.-P. OLIVE

*École nationale d'Aviculture,  
C. E. Z., Rambouillet*