Inter-American Institute of Agricultural Sciences of the OAS

Training and Research Center

Turrialba, Costa Rica

Report on the Use of Visual Aids for Teaching

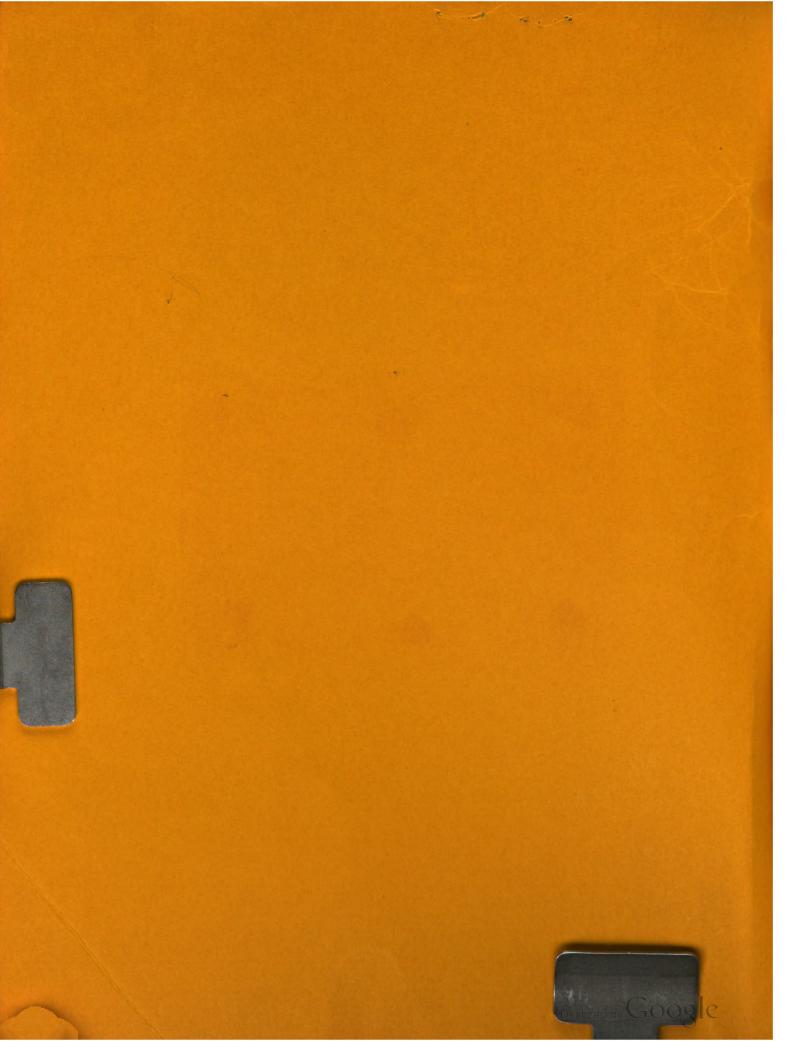
Agricultural Marketing

by
Karl Wierer
FAO Marketing Expert

August, 1969

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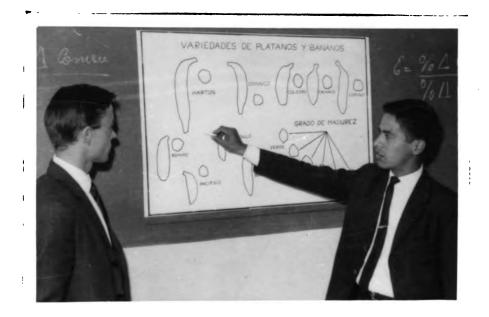
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# INTER-AMERICAN INSTITUTE OF AGRICULTURAL SCIENCES OF THE OAS Training and Research Center Turrialba, Costa Rica

# REPORT ON THE USE OF VISUAL AIDS FOR TEACHING AGRICULTURAL MARKETING



by

KARL WIERER

FAO MARKETING EXPERT

August, 1969

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## I. INTRODUCTION

In the last years, different types of visual aids for teaching appeared. This material can be a great help in completing verbal explanations of a certain scientific or practical problem. Beside this, the visual aids are an excellent means to attract the interest of students for a special aspect.

The use of different types of teaching material will give the class a certain dynamic. Students do not have to follow permanently the speech of the professor and to write down important aspects. They will learn more to think, if a problem is exposed in a picture, a drawing etc., because they do not have to copy it. However, an excess of visual aids can create a strong decrease in concentration. Visual aids are not a compensation for a good speech, but an appropriate complementation for difficult or at tractive aspects.

Agricultural marketing is an excellent field for visual aids. The word "marketing" has already a meaning of "efficiency", which involves that the theoretical discussion is oriented to the practical problems. With the visual aids, this objective might be easier reached.

This report includes only some important types of visual aids, of which the author gained some experience. In the following pages are treated especially the charts, slides, product samples and a special blackboard. The main aspects which will be discussed are the subject matters used for visual aids, size of the material and explanations, the symbols and drawings to be used and some aspects of color combination. Together with this report, a catalogue of visual aids was prepared, which might be a guide

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for similar efforts. The numbers in parenthesis which appear in the following pages of the text, refers to the number of the respective teaching material in the mentioned catalogue.

### II. TYPES OF VISUAL AIDS

### A. Charts

This teaching material can be a great help, above all, for the theoretical understanding of the subject matter. The charts are for permanent use and can be stored in a large box, or hanged up in a special place.

The most important technical questions for preparing such teaching material are the following:

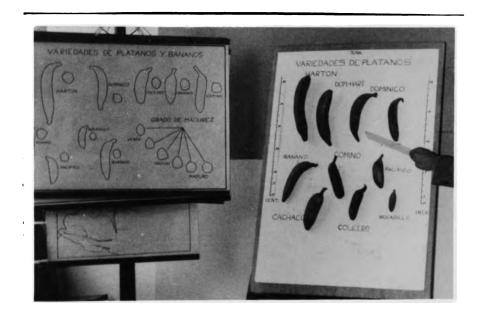
- 1. Subject matter to be presented
- 2. Size of the chart
- 3. Size of letters for titles or explanations
- 4. Drawings or symbols to be used
- 5. Use of colors

The subject matter depends much on the main objective of the class. However, it seems to be more useful to present the theoretical aspects or a basic analysis which can be used to explain methodological aspects. If a concrete analysis of a certain marketing problem will be shown, a lot of explanations will be needed, which may disturb the clear and rapid underse tending of the matter treated on the chart. Beside this, charts with very specific aspects are for a limited use only.

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For teaching a matter like "marketing and market analysis", the following collection of charts might be of guide:

General marketing (1/18, 1/26, 1/38)	2						
Market, general analysis (1/15, 1/43)	2						
Marketing, specific aspects							
Marketing functions (1/1, 1/23, 1/46)	10						
Marketing organization (1/51, 1/10)	8						
Marketing services (1/18)	3						
Marketing channels and margins (1/13)							
Efficiency measurements (1/17, 1/19)							
Market analysis, specific aspects							
Supply (1/4)	2						
Demand (1/7, 1/9, 1/20)	4						
Prices (1/5, 1/25, 1/52)	5						
Projections (1/12)	6						
Total	47						



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This collection might be completed by some 4 charts about macroeconomics and production economics (1/2, 1/29) and 5 to 10 charts about international trade (1/33, 1/47). If the latter aspects will be the main objective of the class, the number of charts required will be higher.

The most appropriate size of a white wall paper is as follows:

Length 90 to 110 centimeters

width 60 to 80 centimeters

If the maximum distance between students and blackboard will not pass 20 to 25 meters, the following sizes for written letters can be recommended:

For main titles 3 to 5 centimeters altitude and 3 to 4 millimeters thickness of letters.

For secondary titles 1 1/2 to 2 1/2 centimeters of altitude and or explanations 2 to 3 millimeters thickness of letters.

One of the most important questions are the symbols or drawings used to explain certain problem. For the aspects of market analysis, it mainly may be used graphs with differente tyres of curves, e.g. a demand-income or a price-supply curve. For the marketing functions, some symbols of products, equipment or buildings are more explanatory (1/8, 1/11). It does not seem necessary to draw the matter with all its details, but on the other hand, the abstraction should not be too extense, in order to recognize the problem treated. It is not useful to draw too many symbols, but any relation between two factors can be well shown in varying the size of symbols. Also an accumulation of a big number of the same symbol can be very illustrative.

In respect to the colors, the most effective combination is of three different ones. A one-color graph, generally with black letters or drawings, is not very attractive, because there is less difference to the most ly monotone colored class-rooms and there is no dynamic within the graph. A change of color is mostly associated with a current flow, especially if colors will change from dark to clear ones or vice-versa. An excess of colors should be avoided in any case, because too many colors gives too much individuality to each single aspect and do not permit to form a complex idea about the respective problem. There is no need to draw the symbols with their original color, only among different groups of things, the color can be changed. Some of the most attractive color combinations are the following:

Red - blue - black
Yellow - green - black
Red - blue - green
Orange - violet - black
Red - green - yellow

The best two-color combinations are red-blue, yellow-green, orange-violet and red-black. The brown color is not well accepted because of its small difference to red or green. In some special cases, a red-grey combination can be well used, but grey should not be included in a three or more color picture. Within the titles or descriptions, some main words or aspects can be written in a different color than the rest of explanations. The main word of the problem is often written with red color and the others with black one. If there are groups of things with different colors, the respective explanations should have the same color than the drawing. For graphs with different curves, there should be drawn in red

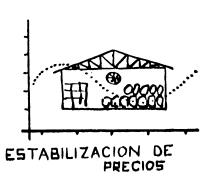
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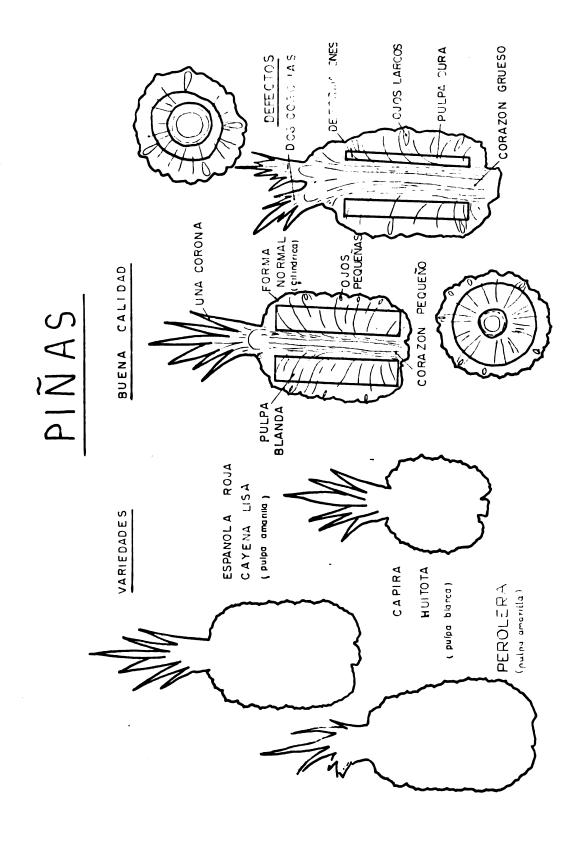
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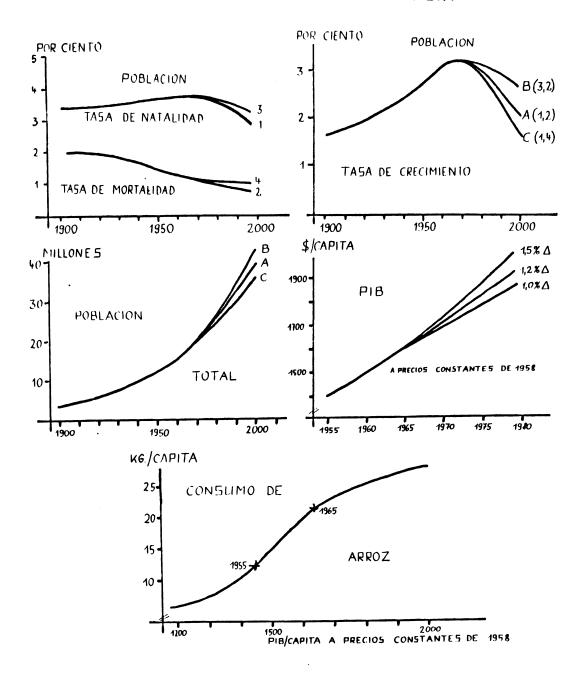


CONSTRUCCION DE CAMI-NOS VECINALES



# PROYECCIONES

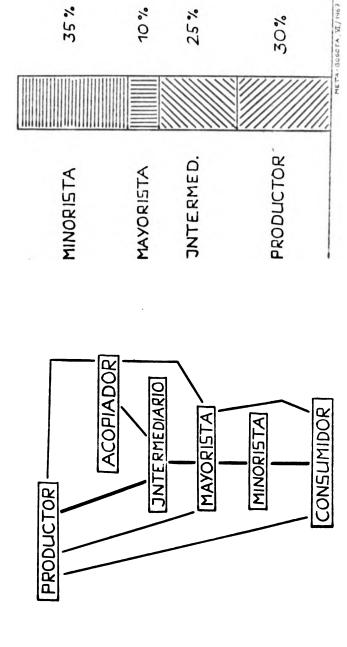
DE LA POBLACION, DEL INGRESO Y DEL CONSUMO DE ARROZ EN COLOMBIA



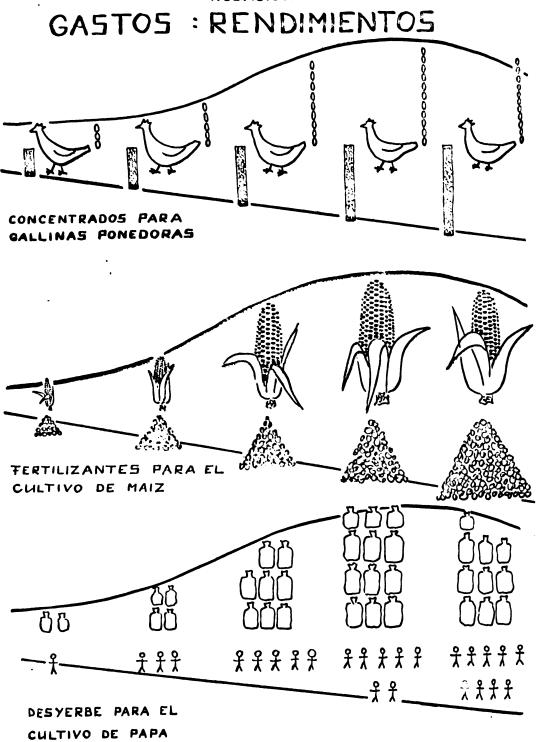
# MERCADEO DE PLATANOS

CANALES DE COMERCIALIZACION

MARGENES DE COMERCIALIZACION



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or blue, whereas the axes of the graph may be black. The whole graph or picture should not have a perfect artistic image, but more the character of working material, and the student should believe that the graph or picture was quite rapidly designed and drawn.

### B. Slides

This is an excellent visual aid to explain the more practical and applicated aspects of marketing. Within this field, especially for marketing, functions and different types of markets, slides are very instructive. Being the market analysis more theoretical, the slides have less use for that matter. Some aspects which can be well explained by slides are e.g. grading, storage, transport, packing and processing of agricultural products, views of wholesale and retail markets, etc.

The slides should have the respective aspect in the fore-ground. In order to show aspects of grading or packing, some close-up pictures may be preferred. In the case of alides products, different grades of maturity, sizes, physical or biological damages, can be well expressed. If it is possible, the picture should not show only the product, building or equipment, but also the people working with them. Each slide should have at least two or three well differenciated colors. It does not seem very useful if graphs, tables or pictures from books are reproduced by slides. If one uses slides for teaching, it is necessary to have a certain number of slides for each specific aspect, product or product group to explain differences, changes, marketing channels, etc. A guide for a small collection of slides for marketing of each product group might be

### as follows:

Transportation problems (2/26, 2/22)	3
Grading (2/8, 2/2)	4
Packing material (2/7, 2/17)	3
Storage facilities (2/27, 2/24, 2/14)	3
Processing facilities (2/19, 2/18)	2
Processed products and raw materials	
	1
Wholesale markets (2/7)	2
Retail markets (2/25, 2/23)	4
Assembly markets (2/21, 2/17)	1
Autions (2/12, 2/9)	1
Cooperatives (2/1)	1
Total	25

If the following group of products: grains, starchy roots, fruits and venetables, livestock products and fish, fats and oils, condiments, fibers, and forestry products, would be considered, a collection of about 200 slides would be the minimum required. The above mentioned list would be somewhat different composed for livestock products and forestry.









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# C. Illustration with products or samples

This type of visual aids is very useful, for aspects like grading and packing. Fresh or prepared products may be hanged up on a wooden board. On a white carton below the products, the necessary explana tions can be given. When teaching fruit and vegetable marketing, the first illustration could be a collection of different products, the second one, a collection of different species of the same product and the third one, a sample of aspects to be considered with grading, like maturity grades, different sizes, damages, etc. It is advisable that the products can be easily taken off from the board, in order to explain special characteristics with the fruit in hand. It gives a good image. if the products are hanged up in a certain symmetrical order, as curves, circles or straight lines. For grains, the board can be used permanent ly, if the product is well dried and prepared. However, the visibility of these grain samples on a board is limited to a distance of 1 1/2 to 4 meters. In this case it would be better to advise students to have a close-up look at the board after finishing the class. The use of slides could be also more efficient in this case.

# D. Blackboard Maps

On a blackboard are drawn the contours of a country or region with red non-effaceable color. On one side of the blackboard, there might be one map of South America and another one of Central America, on the other side, a world map could appear; or there might be a map of an

individual country or department too. In these maps can be included some fixed orientation points or lines, as borders, rivers, capital cities, etc. The maps are very useful for teaching international trade. With a crayon, it can be indicated, exporting and importing countries for a certain product, and wipe it off if another product is discussed. At the left or the right side of the blackboard should remain a small free space to write explanations. If these maps are from individual countries, they could be used for regional planning, indicating with different colors the production zones, highway network, location of marketing facilities, etc.

# E. Figures and Symbols for Inmediate Use

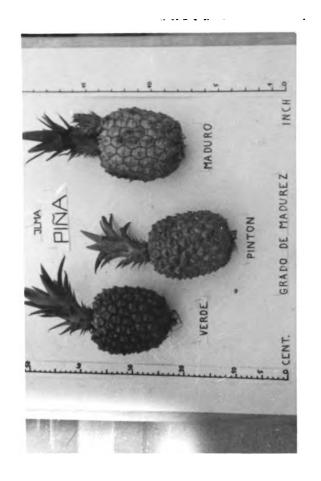
There are a number of simple and common figures which can be always used if a problem is explained on the blackboard. For the drawing, a certain skill is needed, however with some practice, this can be learned. In many cases, the most simple drawing is a graph with some curves, especially if a market analysis is treated. To explain marketing functions or organizations, one may draw a man, a ware house, a truck or products, as it is shown on the next pages. It is best , if two or three (not more!) different colors are used, especially if a graph includes more than one curve. It is not necessary that the drawings be very artistic, but the sizes and scales should be in order. Also in this case, it is not necessary to give the aspect its natural color; the use of colors is more to distinguish groups, levels, steps, etc.

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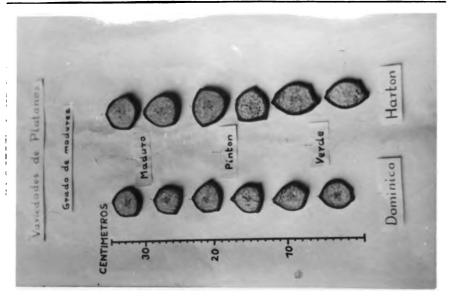
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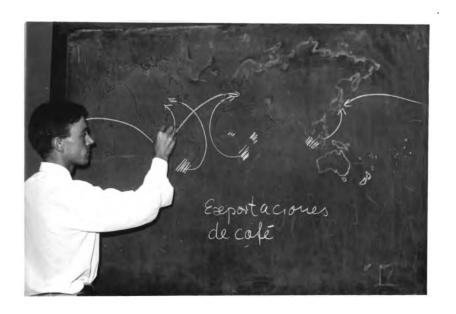
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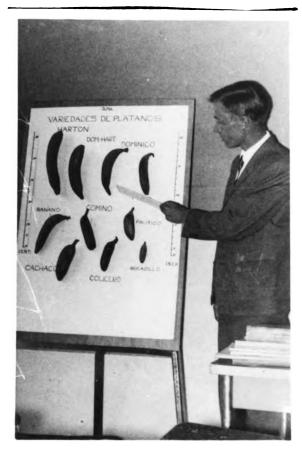




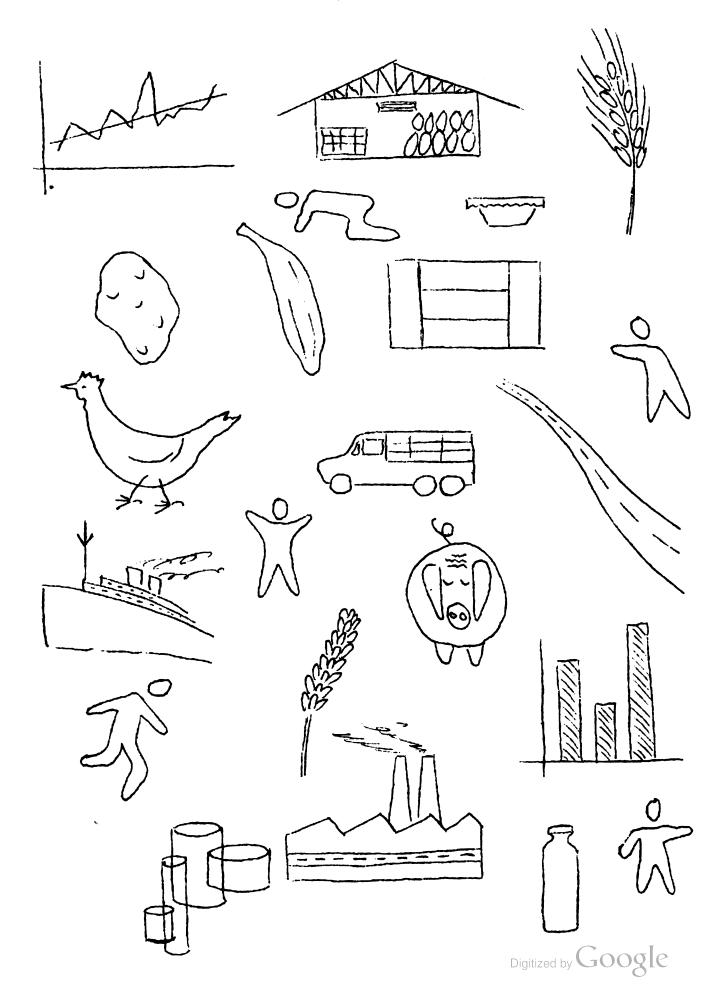


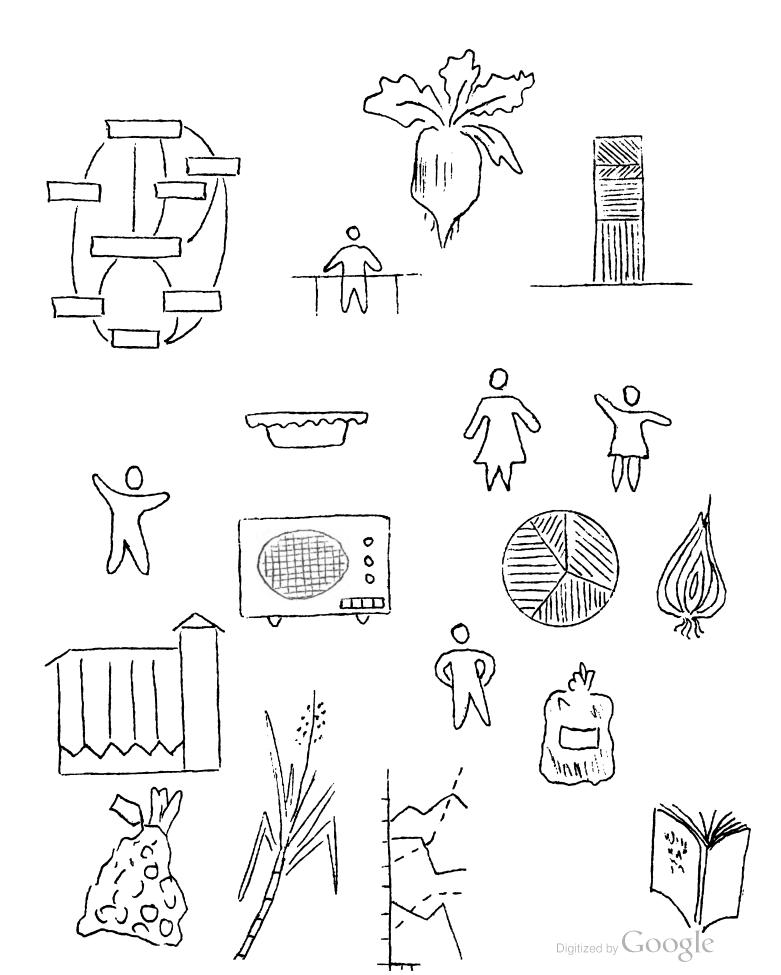






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### III. How to use Visual Aids

One may have an excellent collection of graphs, slides, etc., however, the objective of this teaching material will only reach if he knows some technical aspects and how to use it. The most important point is that this teaching material should not disarrange the normal flow of the class. Moving a heavy blackboard, closing and opening the curtains, hanging up a graph with drawing-pins (which might not enter into the wall) produce much noise which can divert the students considerably. Beside this, there is a time-lost, if one needs e.g. five minutes to find the electrical connection for the slide projector and thereafter he discovers that the projector lamp was already damaged. For that reason, it does not seem very appropriate if single slides are used during the discussion of the subject matter. It is more reasonable to project a collection of slides at the end of the respective subject matter, may be in the last quarter of the hour. A serie of 15 to 20 slides constitute an interesting part of the class. One half, to one and a half minutes for each slide would be a reasonable time. If one has less than 8 to 10 slides, it is better to wait for the next subject matter and to join them with others. In order to integrate well the use of graphs in the matter teached, they could be hanged up on a frame, where only the papers are moved, without producing noice or technical troubles.

The use of visual aids needs a careful prevaration of the material before class; and during the class, no technical problems should appear.

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Code	SMM-16				Teaching materi <b>a</b> l		91 5			82 g		•			7 9 35	89-10	2-/2 4
Programming of classes	Students: Post-Grad. Date: 11.6.68	Storage		aids	Drawings, graphs etc. at the blackboard				Ware-house with								
		Economics of		Visual a	Calculation				1				Depreciat.	interest	į.		
	General Marketing Prof.: R. Garcés Stu	objective: E			Data								3 mill.	3 perm.	500 tone capacity		
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It is also necessary to plan at which points of the discussion, the teaching material will be used. The main objectives of the visual aids are the following:

- 1. To give the students an idea of space and time
- 2. To indicate the flow of a complete process
- 3. To attract students for special problems
- 4. To give a rapid understanding of comparable numbers, sizes, volumes, etc.
- 5. To explain the practical importance of theoretical problems.

The use of teaching material requires a certain movement of the teacher or professor. However, he should have always a fixed place on a desk or table. No excess of teaching material should be used, but a good combination of verbal explanations and visual aids is necessary. The speech permits a high concentration, however, it is often too abstract, and if students can not follow the context of the problem, concentration will decrease. This happens especially if there is a long time-gap between two complex problems. The visual aids are an excellent mean to give the class more dynamics and more reality.

## IV. EFFICIENCY MEASUREMENTS

In order to obtain an idea of what kind of visual aids is more appropriated for a certain type of student, one should undertake from time to time an evaluation. The efficiency of a graph or slide can be tested by very short questionnaires. The author of the teaching material has a fixed idea of the objective and the students might be asked on their individual opinion of it. If the interpretation of the students will almost be the same as of the author, this would indicate a good effect. The questions about the respective teaching material should be concerned to the following three aspects:

- 1. Size of graph, of the writing and of the drawings or symbols
- 2. Kind of symbols or drawings used
- 3. Use of colors

The questionnaire on page No. 22, may give an idea of such an experiment. The author of this report realized some samples among students of different universities about their opinions on a couple of graphs (1/2-35-1-36-20-23). The experiments were realized in the University "Jorge Tadeo Lozano" in Bogotá, Colombia, in the Latin American Marketing Institute (ILMA), Bogotá, Colombia and in the Inter-American Institute of Agricultural Sciences of the O.A.S. (IICA) in Turrialba, Costa Rica, covering a total of 62 students.

# QUESTIONNAIRE ABOUT THE EFFECT OF VISUAL AIDS FOR TEACHING AGRICULTURAL MARKETING

Нач	e you recognized the meaning of the chart:
a.	Inmediately
b.	With time
c.	In part only
d.	Not well
Did	you like the color combination? Yes ( ) No ( ). If "no"
whi	ch other colors would you prefer?
whi	ch other colors would you prefer?
	ch other colors would you prefer?  you like the symbols or drawings used? Yes ( ) No ( ).
 Did	
Did	you like the symbols or drawings used? Yes ( ) No ( ).
Did 'nc	you like the symbols or drawings used? Yes ( ) No ( ).
Did 'no	you like the symbols or drawings used? Yes ( ) No ( ).
Did '''nd Had	you like the symbols or drawings used? Yes ( ) No ( ). : ", which other symbols or drawings would your propose? you difficulties to read explanations?

All students had already passed the respective subject matter, but they had never seen before the chart. For each graph they had three minutes to fill out one questionnaire. The title of the chart was not shown. The average distance of the students from the blackboard was 4 1/2 meters. The description of the charts included in the sample, is as follows:

# No. 1 (1/2)

Size: 80 x 110 centimeters

Title: Law of diminishing yields

Altitude of letters: 3 centimeters

Symbols or drawings: Curves, hens, feed concentrates, corn spikes,

fertilizers, potatoe bags and men.

Colors: red, green, blue

No.2 (1/35)

Size: 60 x 90 centimeters

Title: Macroeconomic model of creating capital resources

Altitude of letters: 2 1/2 centimeters

Symbols or drawings: Squares, circles and some numbers

Colors: green, yellow, blue

No. 3 (1/1)

Size: 80 x 110 centimeters

Title: General illustration on processing agricultural products

Altitude of letters: 2 1/2 centimeters

Symbols or drawings: Crude and processed agricultural products, proces-

sing plant.

Colors: Red and blue

No. 4 (1/36)

Size: 80 x 110 centimeters

Title: Levels of competition

Altitude of letters: 2 1/2 centimeters

Symbols or drawings: squares and circles

Colors: Yellow and brown

No. 5 (1/20)

Size: 80 x 110 centimeters

Title: Income-demand relation for banana in the world market

Altitude of letters: 2 centimeters

Symbols or drawings: Curve

Colors: Black and red

No. 6 (1/23)

Size: 60 x 90 centimeters

Title: Grading of agricultural products

Altitude of letters: 2 1/2 centimeters

Symbols or drawings: Different agricultural products with different sizes,

damages, maturity grades, etc.

Colors: Yellow, red, brown, green, blue, black

The evaluation of the questionnaire gave the following results:

Item	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Average
Interpretation Exact Good Fair Bad Total	50 12 38 0	0 25 60 15 100	50 27 17 6 100	70 15 25 0	73 8 19 0 100	83 11 6 0	54 16 28 2 100
Recognition Inmediate With time In part only Nothing Total	36 64 0 0 100	25 40 23 12 100	50 50 0 0 100	18 63 18 1 100	15 80 5 0 100	88 7 5 0 100	39 51 9 <u>1</u> 100
Colors Accepted Not accepted Total	75 25 100	63 <u>37</u> 100	76 24 100	53 47 100	100 0 100	45 <u>55</u> 100	69 <u>31</u> 100
Symbols, drawings Accepted Not accepted Total	90 10 100	50 _50 100	88 12 100	61 <u>39</u> 100	93 7 100	100 0 100	80 20 100
Letters Clear Not clear Total	75 <u>25</u> 100	67 _33 100	100 0 100	83 <u>17</u> 100	68 <u>32</u> 100	93 7 100	81 19 100

The results are rather good for the graphs No. 1, No. 4, and No. 6.

This is mainly due to the symbols or drawings choosen. Graph No. 2 had a bad result, due to the very abstract drawing and a bad color combination. The colors yellow-brown were not very well accepted, whereas blue-red and

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red-black were good received. The great color mixture of graph No. 6 gave no good image. With exception of graph No. 2, all other symbols were well recognized. With respect to the letters, it seems that 2 centimeters is already the minimum altitude required.

# V. CATALOGUE OF VISUAL AIDS

If there is available, a considerable number of graphs, flides, etc., one should establish a catalogue in order to find rapidly the teaching material for the respective subject matter. The material to be stored will be enumerated continuously and the respective number will appear in the catalogue. The latter should be subdivided in two parts: Subject matters and products or product groups. For international trade and marketing in different countries, a third part, concerning "regions" can be included. The subjects depend much on the emphasize given in the respective course. However, it would be advisable to have two groups: marketing and market analysis. If it is needed, there might be a first part, related to general economics and a last part about international trade. The following outline might be a guide for establishing different groups within the catalogue of visual aids for agricultural marketing.

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#### I. SUBJECT MATTERS

# A. General Economics

- 1. Macroeconomics
- 2. Production economics

## B. Marketing

- 1. General
- 2. Marketing facilities
  - a. Transport
  - b. Grading
  - c. Processing
  - d. Storage
  - e. Packing
- 3. Marketing organization
  - a. Wholesale
  - b. Retail
  - c. Assembly
  - d. Others
- 4. Marketing services
- 5. Government's marketing policy
- 6. Marketing channels and margins
- 7. Feasability and efficiency

## C. Market Analysis

- 1. General
- 2. Supply
- 3. Demand
- 4. Prices
- 5. Projections

# D. International trade

- 1. General
- 2. Export-import

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- 3. Trade and monetary policy
- 4. Commodity agreements
- 5. Regional integration

### II. PRODUCTS

- A. Grains
- B. Starchy roots
- C. Fruits and vegetables
- D. Condiments
- E. Oils and fats
- F. Livestick products and fish
- G. Fibers
- H. Forestry products
- I. Others

# III. REGIONS

- A. Brazil
- B. Colombia
- C. Costa Rica
- D. France
- E. United States
- F. Others

The white catalogue cards may have a size of 7 x 12 centimeters. To separate subject matter or products, somewhat higher, yellow cards can be used. In the first line of the white card should appear the code number of the respective teaching material. This number is divided in two parts; the first indicates the kind of teaching material, the second one the sequence order in the store:

No. 1 - 43 Wall chart No. 43

No. 2 - 16 Slide No. 16

No. 3 - 29 Film No. 29

No. 4 - 08 Sample No. 08

It is advisable to put on the right up corner a certain color in order to recognize inmediately the type of teaching material. In the second line of the card, should appear the subject matter, in the third one the product and in the fourth one the region or country. If it is a general graph (or slide, etc.), the product or region may be characterized by "n.s" (not specified). After a bigger line, follows the title or a short description of the respective teaching material; in the case of time-series, it is advisable to mention also the period covered.

With the described organization, the catalogue is very useful for finding rapidly the necessary teaching material and for completing from time to time the material required. These facts are important for a complete success of using visual aids for teaching agricultural marketing.

Code:	Section Manual M
Subject:	
Product:	
Region:	
Title or description:	

a ·

#### VI. SUMMARY

The visual aids discussed in this report are: charts, slides, samples of products and blackboard maps.

The aspects to be considered in preparing visual aids are: size of the material, size of letters for explanations, symbols or drawings used, color combination, and about all the problem treated.

The charts are appropriated for theoretical aspects, whereas the slides could demonstrate the practical side of a problem discussed. The product illustrations have special utility for teaching, grading and packing, whereas the blackboard maps are used for international trade and planning of agricultural marketing.

A reasonable collection of visual aids for teaching agricultural marketing would be about 60 charts, 200 slides, one large blackboard with three maps and 4 to 8 product samples. Also, the professor should have in memory a certain number of symbols for inmediate blackboard use and it would be an advantage to be skilled in drawing.

The use of visual sids for teaching should be well planned and always combined with an oral explanation of the problem. It is not advisable to include single slides during the class, but to show a collection of at least 10 slides, after discussion of a determined subject matter. The use of visual aids should not interrupt the normal flow of teaching; any noice, movement of equipment or loss of time should be avoided.

The symbols used should be easy to recognize. No artistic perfection is necessary, but the scale of the figure must be in order.



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If more than three colors are used, the individuality of each aspect is too large. The most appropriate color combinations have been: red-blue-black and yellow-green-black. There is no need to use an item's natural color, but different colors can be used to distinguish product groups, levels, steps, etc.

To obtain a good teaching material, an evaluation of the effect produced is required. Through questionnaires, the students might be asked for their interpretation of a graph, slide, etc. The answer will be compared with the former idea of the author of the material. Students can be asked also if they like the colors, the symbols or drawings, the kind of letters, etc.

If there is enough teaching material available, a catalogue should be established. It will include a part on subject matters, on products (or product groups) and on regions. The code number of each card must indicate which kind of visual aid it is, e.g. slides, films, charts, etc.

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