

R E P O R T R E S U M E S

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1967-68 CATALOG OF TEACHING MATERIALS.
ILLINOIS UNIV., URBANA, COLL. OF AGRICULTURE

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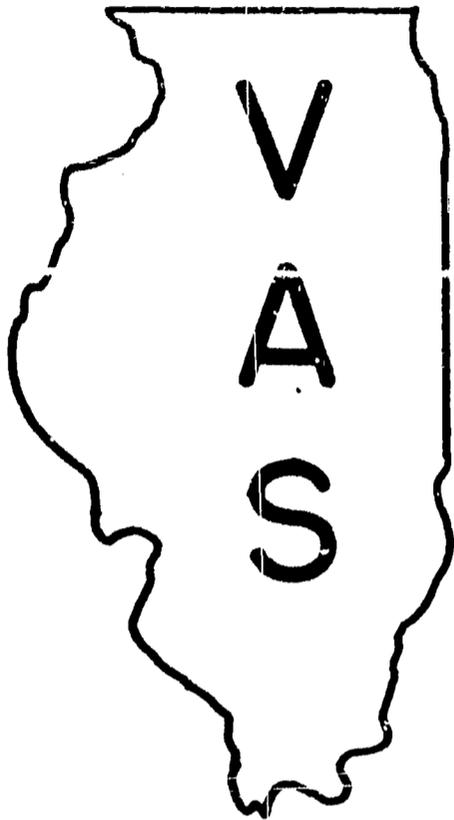
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U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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1967-68



Catalog of
**TEACHING
MATERIALS**

**Vocational Agriculture Service
434 Mumford Hall
Urbana, Illinois 61801**

University of Illinois

College of Agriculture

ED011552

VT02575

Vocational Agriculture Service is a division of the College of Agriculture at the University of Illinois. Its primary function is to produce and distribute subject-matter teaching materials for use in agriculture classes at the secondary and post-secondary level.

This catalog lists and describes briefly the various types of teaching materials that are available. Special order forms are also available for each category of materials.

Materials will be sent postpaid at the prices quoted if payment accompanies your order. However, orders are accepted without advance payment from any recognized school or other educational institution. Postage charges will be added to orders that are billed for payment.

Orders totalling less than \$10.00 are normally placed on open account and will be billed when open account charges reach \$10.00 or more. All accounts will be billed at the end of the current school year, regardless of size.

Orders totalling more than \$10.00 will be billed immediately. A receipted statement will be sent with cash orders of 25¢ or more.

Telephone orders will be accepted. Our telephone number is Area 217, 333-3870.

Our goal is to fill all orders within 24 hours after they are received. We will notify you when orders have been shipped. Please let us know promptly if your order does not arrive in good condition or if you have complaints of any kind.

VOCATIONAL AGRICULTURE SERVICE
434 Mumford Hall
Urbana, Illinois
61801

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ANIMAL AND DAIRY SCIENCE MATERIALS

SUBJECT-MATTER UNITS

Subject-matter units are prepared for student text and reference material. They are printed, 8½" x 11", illustrated, and punched for standard 3-ring notebook. Each unit carries a VAS number, as 1001. Units that have been revised have a letter following the number, as 1001a. Date of issue or revision is coded in letters on the last page. E-FG, for example, is 5-67 (May 1967).

| <u>Unit Number</u> | <u>Title</u> | <u>Price per Copy</u> |
|------------------------|--|---------------------------|
| 1001a | Caring for the Sheep Breeding Flock, 8 pages | \$.10 |
| 1002a | Artificial Insemination of Livestock, 8 p. | .10 |
| 1003 | Selecting and Purchasing Sheep, 8 p. | .10 |
| 1004 | Diseases of Sheep, 12 p. | .15 |
| 1005 | Internal Parasites of Sheep, 8 p. | .10 |
| 1006 | External Parasites of Sheep, 8 p. | .10 |
| 1007 | Capons and Caponizing, 8p. | .10 |
| 1008a | Making the Butterfat Test, 8 p. | .10 |
| 1009 | Improving Animals Through Breeding, 16 p. | .20 |
| 1010 | Producing Beef Cattle from a Beef Breeding Herd, 8 p. . | .10 |
| 1011 | The Ewe and Her Lamb, 8 p. | .10 |
| 1012 | Buying and Feeding Beef Cattle, 12 p. | .15 |
| 1013 | General Facts on Livestock Feeding, 8 p. | .10 |
| 1014 | Poultry Lice and Mites, 8 p. | .10 |
| 1015 | Internal Parasites of Poultry, 8 p. | .10 |
| 1016 | Baby Chicks, 8 p. | .10 |
| 1017 | Culling the Laying Flock, 8 p. | .10 |
| 1018 | Minerals for Livestock, 8 p. | .10 |
| 1019 | Judging Livestock, 24 p. | .30 |
| 1020 | Feeding Dairy Cows, 12 p. | .15 |
| 1021 | Raising Dairy Calves, 8 p. | .10 |
| 1022 | Raising Dairy Heifers and Bulls, 8 p. | .10 |
| 1023 | Classes and Grades of Livestock, 12 p. | .15 |
| 1024 | Beef Cattle Breeds, 12 p. | .15 |
| 1025 | The Cow's Udder and How it Functions, 12 p. | .15 |
| 1026 | Digestion in Animals, 8 p. | .10 |
| 1027 | Feeding Lambs, 8 p. | .10 |
| 1028 | Managing the Dry Dairy Cow, 4 p. | .05 |
| 1029 | The Swine Enterprise, 8 p. | .10 |
| 1030 | Keeping and Using Swine Records, 8 p. | .10 |
| 1031 | The Sheep Enterprise, 4 p. | .05 |
| 1032 | Castrating, Docking, and Dehorning, 8 p. | .10 |
| 1033 | Selecting and Purchasing Hogs, 8 p. | .10 |
| 1034 | Caring for the Swine Herd During Breeding and Gestation, 4p. | .05 |
| 1035 | Cattle Grubs, 4 p. | .05 |
| 1036 | Feeds and Feeding Swine, 12 p. | .15 |
| 1037 | Caring for the Sow and Litter at Farrowing Time, 8 p. . | .10 |
| 1038 | Feed Additives, 8 p. | .10 |
| 1039 | Systems of Swine Breeding, 8 p. | .10 |
| 1040 | Selecting, Feeding, and Caring for Light Horses, 16 p. . | .20 |
| 1041 | Caring for the Brood Mare and Foal, 8 p. | .10 |

*Use
SUBJECT-MATTER
UNIT
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ANIMAL AND DAIRY SCIENCE MATERIALS (continued)

SLIDE FILMS

Slidefilms are 35 mm. single-frame, for use with a standard filmstrip projector. No separate syllabus is required as all of the text is included on the frames. Those that are in color are so marked on the list below. Unmarked slidefilms are in black and white. Slidefilms are available on a sale basis only.

| <u>Film</u> <u>Number</u> | <u>Title</u> | <u>Price</u> <u>Each</u> |
|------------------------------|--|-----------------------------|
| 100 | Selecting Beef Breeding Animals | \$1.70 |
| 164-61 | Breeds of Swine | 1.50 |
| 166-64 | Selecting Breeding Hogs | 1.50 |
| 181-65 | Identification of Kinds of Meat (color) | 2.30 |
| 182-65 | Identification of Pork Cuts (color) | 3.00 |
| *182-65 (Supp.) | Practice Set for Identification of Pork Cuts (color) | 2.70 |
| 183-65 | Identification of Beef Cuts (color) | 3.15 |
| *183-65 (Supp.) | Practice Set for Identification of Beef Cuts (color) | 2.85 |
| 185-65 | Identification of Lamb Cuts (color) | 2.45 |
| *185-65 (Supp.) | Practice Set for Identification of Lamb Cuts and Variety Cuts (color) | 2.55 |
| 206-65 | Testing Milk for Butterfat | 1.15 |
| 208 | The Cow's Udder and How it Functions | 1.15 |

Use
SLIDEFILM
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*Practice sets consist of series of pictures shown in the companion slidefilms for use in practice work in teaching students to identify cuts. They are intended only as supplements to the identification films.

PROGRAMMED INSTRUCTION SERIES

These are sets of multiple-choice questions based, for the most part, on VAS units or other subject-matter materials. They are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way. Each set is in a package of 20 identical copies, all on the same subject.

| <u>Item</u> | <u>Price</u> <u>per Package</u> |
|---|------------------------------------|
| 101 Selecting and Purchasing Hogs | \$.25 |
| 102 Caring for Sheep Breeding Flock | .25 |
| 103 Artificial Insemination of Livestock | .25 |
| 104 Cattle Grubs | .25 |
| 105 Feeds and Feeding Swine, Part 1 | .25 |
| 106 Feeds and Feeding Swine, Part 2 | .25 |
| 107 Making the Butterfat Test | .25 |
| 108 Caring for the Sow and Litter at Farrowing Time | .25 |
| 109 Feed Additives | .25 |
| 110 Systems of Swine Breeding | .25 |

Use
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INSTRUCTION
MATERIALS
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ANIMAL AND DAIRY SCIENCE MATERIALS (continued)

SCRAMBLED BOOKS

Scrambled books are programmed like a teaching machine. The student reads some information, reacts to a statement, and is directed to a certain page if he considers the statement true or to another page if he thinks the statement false. If his choice is correct, he is directed on; if incorrect, he is sent back. Scrambled books are based on VAS units or other subject-matter materials and are normally used only as supplementary teaching material.

| <u>Item</u> | <u>Price Each</u> |
|--|-----------------------|
| 101 Digestion in Animals | \$.15 |
| 102 Improving Animals Through Breeding. | .15 |
| 103 General Facts on Livestock Feeding | .20 |
| 104 Minerals for Livestock | .20 |
| 105 Making the Butterfat Test | .15 |

Use
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INSTRUCTION
MATERIALS
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OTHER MATERIALS

Approved Practices for Swine. This is a 5-page publication which lists specific practices successful swine producers follow. It may be most useful to students in planning and carrying out their supervised farming programs where swine are involved. Price \$.05 per copy.

Meat Judging and Grading. This 32-page, 8½" x 11" publication discusses beef, pork, and lamb judging and carcass grading. It describes the retail cuts listed in the National Contest Rules. The score cards used in the national and state contests are shown in the back. Price \$.30 per copy.

Judging Milk, Sediment Discs, and Milker Unit Heads. This 8-page, 8½" x 11" publication discusses quality in milk, the steps in judging it, and how to score sediment discs and milker unit heads. Score cards used in the state and national contests are shown in the back. Price \$.15 per copy.

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Visuals. These are 8½" x 11" instructional illustrations printed on heavy paper. They are for making transparencies for overhead projection, for use with an opaque projector, or for direct viewing. Each set is contained in a manila pocket folder with the title of the series stamped on the flap. Available sets are:

- Beef Visuals - (Set of 5) Price \$.25
- Dairy Visuals - (Set of 5) Price \$.25
- Meat Visuals - (Set of 19) Price \$.60
- Sheep Visuals - (Set of 7) Price \$.30
- Swine Visuals - (Set of 11) Price \$.40

PRECEDING PAGE BLANK-NOT FILMED

AGRICULTURAL ECONOMICS MATERIALS

SUBJECT-MATTER UNITS

Subject-matter units are prepared for student text and reference material. They are printed, 8½" x 11", illustrated, and punched for standard 3-ring notebook. Each unit carries a VAS number, as 2001. Units that have been revised have a letter following the number, as 2001a. Date of issue or revision is coded in letters on the last page. E-FG, for example, is 5-67 (May 1967).

| <u>Unit Number</u> | <u>Title</u> | <u>Price per Copy</u> |
|------------------------|---|---------------------------|
| 2001a | Planning the Farm Business for Profit, 4 pages | \$.05 |
| 2002a | Inventory Your Resources for Farm Planning, 12 p. | .15 |
| 2003a | Planning for Sound Land-Use, 12 p. | .15 |
| 2004a | Field Arrangement Principles, 8 p. | .10 |
| 2005a | Developing the Land-Use Plan and Field Layout, 8 p. | .10 |
| 2006a | Choosing Specific Crops to Grow, 12 p. | .15 |
| 2007a | Making Estimates of Crop Production and Its Value, 8 p. | .10 |
| 2008a | Record Keeping on the Farm, 8 p. | .10 |
| 2010a | The Soil Fertility Program--Economic Considerations, Build-Up and Removal, 16 p. | .20 |
| 2011 | Choosing a System of Farming, 8 p. | .10 |
| 2012a | Fitting Livestock to the Farm, 12 p. | .15 |
| 2013 | Planning for Adequate Size Business, 8 p. | .10 |
| 2014a | Choosing the Livestock System, 8 p. | .10 |
| 2015 | Completing the Soil Fertility Plans, 8 p. | .10 |
| 2016 | Marketing Farm Products, 8 p. | .10 |
| 2017 | Mechanics of Land Transfer, 12 p. | .15 |
| 2018 | Legal Problems of the Farmer, 20 p. | .25 |
| 2019 | Getting Started in Farming is Hard, 8 p. | .10 |
| 2020 | The Rural Community and Its Development, 8 p. | .10 |
| 2021 | What Factors Affect Prices of Farm Products, 12 p. | .15 |
| 2022 | Taxation and the Farmer, 12 p. | .15 |
| 2023 | Marketing Dairy Products, 8 p. | .10 |
| 2024 | Use of Credit to Increase Farm Earnings, 8 p. | .10 |
| 2025 | Credit Needs on the Farm, 12 p. | .15 |
| 2026 | Farmer Jones' Plans for Repayment of Loans, 8 p. | .10 |
| 2027 | Sources of Farm Credit, 12 p. | .15 |
| 2028 | Factors Involved in the Borrowing Process, 8 p. | .10 |
| 2029 | Types of Hog Markets in Illinois, 12 p. | .15 |
| 2030 | Four Common Ways of Doing Business, 8 p. | .10 |
| 2031 | Integration in the Livestock Industry, 8 p. | .10 |
| 2032 | How Prices of Meat Animals Are Established, 12 p. | .15 |
| 2033 | Using Farm Real Estate Loans, 8 p. | .10 |
| 2034 | Credit Instruments, 12 p. | .15 |
| 2035 | Balancing the Labor Supply and the Farm Business, 8 p. | .10 |
| 2036 | Simplifying Farm Work, 16 p. | .20 |
| 2037 | Setting Up Farm Records to Provide for Analysis, 8 p. | .10 |
| 2038 | Capitalism, Socialism and Communism, 12 p. | .15 |
| 2039 | Fitting Machinery and Equipment to the Farm, 20 p. | .25 |

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AGRICULTURAL ECONOMICS MATERIALS (continued)

SLIDEFILMS

Slidefilms are 35 mm. single-frame, for use with a standard filmstrip projector. No separate syllabus is required as all of the text is included on the frames. Those that are in color are so marked on the list below. Unmarked slidefilms are in black and white. Slidefilms are available on a sale basis only.

| <u>Film Number</u> | <u>Title</u> | <u>Price Each</u> |
|--------------------|--|-------------------|
| 330-60 | Farm Appraisal | \$2.15 |
| 340-65 | The Illinois Crop-Share Cash Farm Lease. | 1.40 |
| 350 | Starting to Keep Records (color) | 3.25 |
| 351 | Keeping Records Up-to-Date (color) | 3.35 |
| 352 | Summarizing and Analyzing Records (color) | 3.80 |
| 353 | Increasing Earnings Through Farm Records (color) | 3.35 |
| 357 | What Records Tell About This Farm (color) | 3.50 |
| 370-65 | Inventory Your Resources | 1.20 |
| 371-65 | Plan the Land-Use Program and Estimate Crop Production | 1.05 |
| 380 | Insurance in the Farm Business (color) | 3.00† |

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†This film available to Illinois Voc-Ag Departments at \$.25 postpaid.

PROGRAMMED INSTRUCTION SERIES

These are sets of multiple-choice questions based, for the most part, on VAS units or other subject-matter materials. They are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way. Each set is in a package of 20 identical copies, all on the same subject.

| <u>Item</u> | <u>Price per Package</u> |
|---|--------------------------|
| 201 Summarizing and Analyzing Records | \$.25 |
| 202 Starting to Keep Records | .25 |
| 203 Increasing Earnings Through Farm Records | .25 |
| 204 Keeping Records Up to Date | .25 |
| 205 How Prices of Meat Animals are Determined | .20 |
| 206 Credit Instruments | .25 |
| 207 Using Real Estate Loans | .20 |
| 208 Choosing the Specific Crops to Grow, Part 1 | .25 |
| 209 Choosing the Specific Crops to Grow, Part 2 | .25 |
| 210 Making Estimates of Crop Production and Its Value | .25 |
| 211 Record Keeping on the Farm, Part 1 | .25 |
| 212 Record Keeping on the Farm, Part 2 | .25 |
| 213 Balancing the Labor Supply and the Farm Business | .25 |
| 214 Simplifying Farm Work | .25 |
| 215 Setting Up Farm Records to Provide for Analysis | .25 |
| 216 Inventory Your Resources for Farm Planning | .25 |
| 217 Planning for Sound Land Use | .25 |
| 218 Developing the Land-Use Plan and Field Layout | .25 |
| 219 The Soil Fertility Program--Economic Considerations, Buildup and Removal | .25 |
| 220 Capitalism, Socialism and Communism | .25 |
| 221 Field Arrangement Principles | .25 |
| 222 Fitting Livestock to the Farm | .25 |
| 223 Fitting Machinery and Equipment to the Farm | .25 |
| 224 Federal Income Tax (40 questions) | .50 |

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AGRICULTURAL ECONOMICS MATERIALS (continued)

OTHER MATERIALS

Analysis Charts and Tabulation Sheets. The charts are used for comparing students' productive enterprise results with class averages. The tabulation sheets provide a convenient means for computing these averages. Each package contains analysis charts sufficient for 10 students with crop and 10 with livestock enterprises, 5 sample charts filled in for a swine enterprise, and 5 tabulation sheets each for crops and livestock. Price \$.35 per package.

Farm Lease Reports

Livestock-Share Tenant's Farm Report to Landlord. This is a pad of 25 blank forms, in duplicate, that can be submitted monthly or for periods longer than a month. Price \$1.25 per pad.

Crop-Share Tenant's Farm Report to Landlord. This is a pad of 15 blank forms, in duplicate, considered to be a three-year supply for a crop-share tenant. Price \$1.25 per pad.

Farm Management Manual and Related Materials

Farm Management Manual. This 24-page publication provides budgeting information for use in a short-cut procedure for comparing alternate crop and livestock systems in determining which ones are the most profitable. Price \$.30 per copy.

Income Possibilities on Your Farm. This is a form for use by students or adult farmers in comparing alternate crop and livestock systems to determine the best long-time system for a farm. Price \$.30 per pack of 10 forms.

The Use of the "Income Possibilities" Form. This is an illustration on how to use the Income Possibilities form. It illustrates how to use it for three different crop and livestock plans for a given farm situation. Price \$.60 per pack of 10.

Farm Record Materials

Illinois Farm Record Book, Parts I and II. This is a two-part record book developed by the department of Agricultural Economics for widespread use by Illinois farmers. Part I contains receipts and expenses, inventories, and farm business analysis information. Part II contains depreciation and net worth forms. Parts I and II are sold together. Price \$1.25.

Problem for Use with Illinois Farm Record Book. This is a set of transactions for a farm for student use with the Illinois Farm Record Book. After records have been entered and summarized, students can make an analysis of the farm business. Price \$.60 for a pack of 10 problems.

Key for Farm Record Problem. This is essentially a reproduction of parts of the Record Book filled in with information from the problem. It also shows results for the analysis measures provided by the Record Book. The key is normally for teacher use although some use keys in quantities for adult classes. Price \$.50 per copy.

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AGRICULTURAL ECONOMICS MATERIALS (continued)

OTHER MATERIALS (continued)

Financial Planning Materials

Farm and Family Financial Budget Form. This form is also known as a "cash flow budget." It provides space for anticipated cash income and expenses for each month, both for farm business and family living items. Price \$.30 per pack of 10 forms.

Farm and Family Financial Planning Problem. This problem provides information on monthly cash receipts and expenses for a 430-acre farm with steers and hogs as the main livestock enterprises. These figures are used for filling out the financial budget form. Price \$.15 for pack of 10.

Your Net Worth Statement. This form provides space for recording net worth information for five years. Price \$.30 for pack of 10.

Set of Budget Sheets. This 5-page set of budget sheets provides space for completing an annual operating budget -- crop production and crop costs, crop usage and feed requirements, livestock, and inventory-repair-replacement and improvement. Price \$.50 for pack of 10.

Mechanics of Farm Budgeting. This is a 28-page manual that explains and illustrates the use of all of the above forms. It also contains a key for the financial planning problem. Price \$.30 per copy.

Machine Costs. This 2-page item helps in determining machine charges in connection with crop enterprises in students' farming programs, or in other problems involving machinery costs. The material is mostly based on detailed cost data from Farm-Bureau Farm-Management farms. Price \$.15 for pack of 10.

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Partial Budget Materials

Partial Budgets and Break-Even Problems. This 8-page item provides information and practice problems for preparing four partial budgets for adding livestock or machinery to the farm business. The break-even problems help determine the number of acres at which machine ownership is more economical than hiring custom work. A key is included which shows completed budgets and problem results. Price \$.80 for pack of 10 problems and 1 key.

Budget Forms. This 4-page set of 4 blank forms is for use in working the problems. They can also be used with VAS 2036, Simplifying Farm Work, or VAS 2039, Fitting Machinery and Equipment to the Farm. Price \$.40 for 40 forms (10 sets of 4 forms each).

Planning Your Farm Business. This 28-page booklet provides a method of working out plans for a farm and making income and cost estimates. It can be used separately or in conjunction with VAS units 2001-2007 and 2010-2015. Space is provided for drawing soil maps and providing related information. The book is suitable for students or adult farmers. Price \$.30 per copy.

Standards for Measures of Efficiency. This 6-page item is prepared in December each year, based on results obtained by about 6,500 farmers in the Illinois Farm-Bureau Farm-Management Service. Physical measures from previous years are used and dollar values are assigned according to current prices. Teachers can use these standards for comparing students' results or those of adult farmers enrolled in classes on record keeping. Price \$.60 per pack of 10.

AGRICULTURAL MECHANICS MATERIALS

SUBJECT-MATTER UNITS

Subject-matter units are prepared for student text and reference material. They are printed, 8½" x 11", illustrated, and punched for standard 3-ring notebook. Each unit carries a VAS number, as 3001. Units that have been revised have a letter following the number, as 3003a. Date of issue or revision is coded in letters on the last page. E-FG, for example, is 5-67 (May 1967).

| <u>Unit Number</u> | <u>Title</u> | <u>Price per Copy</u> |
|--------------------|---|-----------------------|
| 3001 | Using the Oxy-Acetylene Flame in Farm Construction and Repair, 24 pages | \$.30 |
| 3002 | Farm Metal Work, 24 p. | .30 |
| 3003a | Electrical Wiring--Fundamentals and Planning, 24 p. | .30 |
| 3004 | Arc Welding, 40 p. | .50 |
| 3005 | Sharpening Hand Tools, 16 p. | .20 |
| 3006 | Selecting Lumber and Other Building Materials, 12 p. | .15 |
| 3007 | Making and Using Concrete on the Farm, 16 p. | .20 |
| 3008 | Farm Tractor Tune-Up, 12 p. | .15 |
| 3009 | Use of the Square in Farm Construction, 20 p. | .25 |
| 3010 | Farm Surveying, 16 p. | .20 |
| 3011 | Lightning and Lightning Protection on the Farm, 12 p. | .15 |
| 3012 | Electrical Hazards on the Farm, 12 p. | .15 |
| 3013 | Handling and Using Gasoline and LP-Gas Safely, 8 p. | .10 |
| 3014 | Small Engines--Principles of Operation, Trouble Shooting and Tune-Up, 16 p. | .20 |
| 3015 | Spray Painting, 28 p. | .35 |
| 3016 | Electrical Wiring--Procedures and Exercises, 32 p. | .40 |
| 3017 | Farm Building Appraisal, 24 p. | .30 |
| 3018 | Air Compressors, 20 p. | .25 |
| 3019 | Small Engines--Repair and Overhaul, 20 p. | .25 |
| 3020 | The Two-Cycle Engine, 20 p. | .25 |
| 3021 | The Planter - Selection, Adjustment, Maintenance, and Use, 40 p. | .50 |
| 3022 | Safety in the Agricultural Mechanics Shop, 24 p. | .30 |
| 3023 | Micrometers and Related Measuring Tools, 8 p. | .10 |

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SLIDE FILMS

Slidefilms are 35 mm. single-frame, for use with a standard filmstrip projector. No separate syllabus is required as all of the text is included on the frames. Those that are in color are so marked on the list below. Unmarked slidefilms are in black and white. Slidefilms are available on a sale basis only.

| <u>Film Number</u> | <u>Title</u> | <u>Price Each</u> |
|--------------------|--|-------------------|
| 401-65 | Diagramming Electrical Wiring Circuits | \$1.30 |
| 404-64 | Unpacking, Checking, and Identifying Electrical Items | 1.45 |
| 412 | Electric Motors Part 1. Magnetism and the DC Motor | .95 |
| 413 | Electric Motors Part 2. Induction and the AC Motor | .95 |
| 414 | Electric Motors Part 3. Testing and Identifying Leads; Connecting and Reversing. | 1.00 |
| 415 | Electric Motors Part 4. Trouble Shooting. | 1.35 |
| 423 | Selection and Application of Galvanized Roofing and Siding | 1.25 |
| 432 | The Use of Welded Wire Fabric on the Farm | 1.15 |

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AGRICULTURAL MECHANICS MATERIALS (continued)

SLIDEFILMS (continued)

| <u>Film Number</u> | <u>Title</u> | <u>Price Each</u> |
|--------------------|--|----------------------|
| 433 | Planning and Preparing for Concrete Masonry Construction | \$1.35 |
| 434 | Laying Concrete Masonry Units | 1.25 |
| 435 | Special Concrete Masonry Problems | 1.25 |
| 436 | Using the Steel Tape in Surveying. | .90 |
| 437 | Recording Field Notes in Surveying. | .90 |
| 438 | Using the Level in Farm Surveying | 1.25 |
| 439 | Using the Level to Stake Out a Building Site | .85 |
| 441 | Care, Operation, and Adjustment of Mowers | 1.35 |
| 454 | Oxyacetylene - Assembling, Testing, Lighting Blowpipe | 1.35 |
| 455 | Oxyacetylene - Cutting, Bronze Welding | 1.15 |
| 456 | Oxyacetylene - Fusion Welding, Hard Surfacing, etc.. | 1.40 |
| 450-64 | Arc Welding - Process, Equipment, and Safety (color) |) Set of 3 - 5.00 |
| 451-64 | Arc Welding - Flat Position Welding (color) | |
| 452-64 | Arc Welding - Vertical, Horizontal and Overhead Position Welding (color) | |
| 457 | Welding Cast Iron with the Arc Welder | 1.15 |
| 458 | Hardsurfacing Farm Equipment with the Arc Welder | 1.00 |
| 459 | Heating, Brazing, Soldering, and Cutting with Arc Welding Equipment | 1.05 |
| 460 | The Jointer--How to Use It Safely (color) | 2.65 |
| 461 | Drill Press--How to Use It Safely (color) | 3.05 |
| 462 | The Circular Saw--How to Use It Safely (color) | 3.35 |
| 463 | The Power Grinder--How to Use It Safely (color) | 3.05 |
| 464 | The Radial Arm Saw--How to Use It Safely (color) | 3.45 |
| 465 | The Portable Electric Saw--How to Use It Safely (color). | 3.35 |
| 480 | Identification of Pipe and Fittings. | 1.50 |
| 495 | Part 1. Building a Woven Wire Fence | 1.50 |
| 496 | Part 2. Special Fencing Problems | 1.25 |
| 497 | The Safe Use and Care of Ladders | 1.10 |
| 498 | Using Power Lawn Mowers Safely (color) | 4.00 |

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PROGRAMMED INSTRUCTION SERIES

These are sets of multiple-choice questions based, for the most part, on VAS units or other subject-matter materials. They are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way. Each set is in a package of 20 identical copies, all on the same subject.

| <u>Item</u> | <u>Price per Package</u> |
|---|--------------------------|
| 301 Small Engines, Part 1 | \$.25 |
| 302 Small Engines, Part 2 | .25 |
| 303 Farm Surveying, Part 1 | .25 |
| 304 Farm Surveying, Part 2 | .25 |
| 305 Electrical Wiring, Part 1 | .25 |
| 306 Oxyacetylene Welding, Part 1 | .25 |
| 307 Oxyacetylene Welding, Part 2 | .25 |
| 308 Farm Building Appraisal | .25 |
| 309 Air Compressors, No. 1 | .25 |
| 310 Air Compressors, No. 2 | .25 |
| 311 Small Engines - Repair and Overhaul | .25 |

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AGRICULTURAL MECHANICS MATERIALS (continued)

OTHER MATERIALS

Electrical Materials

Applying Electrical Controls in Farm Production. This 10-page publication contains the basic subject-matter material for student use with the electrical controls kit. Principles of various types of manual and automatic control devices are explained and illustrated. Price \$.10

Student Exercises. A total of 17 exercises for student use with the electrical controls kit are stapled together. Questions are asked with space provided for answers. Directions and wiring diagrams are given which guide the student in assembling and testing the various exercises. Price \$.25.

Electric Motors for Farm Use. This 30-page, 8½" x 11" publication was prepared as a text and laboratory guide to accompany the electric motor kits. Some of the illustrations are in color. It explains the principles of electric motors, their selection, use, maintenance, testing, connecting and reversing. Price \$.45.

National Electrical Code, 1965 edition. This 433-page book, published by the National Fire Protection Association, is the standard for safety in electrical wiring. It is a valuable reference for use in teaching the various phases of electricity. Price \$1.00.

Field Notes for Surveying. This is a student field book for use in recording student notes in surveying. Price \$.15.

Plans

Plans for bolt rack, tool cabinet, and revolving device. This is a set of 3 drawings on 11" x 17" paper. They are for use in constructing these three items of shop equipment. Price for set of 3 is \$.20.

Welding Plans. This is a set of 39 plans, each on 8½" x 11" paper, stapled together, for welding projects. Most are for items of shop equipment and were submitted by teachers as useful projects for students to make. Price \$.40.

Safety Materials

Charts on Safety Rules for Power Tools. These are printed in two colors on 8½" x 11" heavy paper, plastic laminated on both sides, and punched for hanging near the power tool to which they apply. Each chart lists 10 important safety rules for students to observe in using the particular tool. Separate charts are available for each of the following: Arc Welder, Band Saw, Drill Press, Grinder, Jointer, Oxyacetylene Welder, Portable Electric Saw, Radial Arm Saw, and Tilting Arbor Saw. Price \$.25 each.

Safety Glasses. Two types of shop safety eye-protection devices are available. The spectacle type is of approved safety glass with side shields. The plastic face mask type is of soft, clear plastic with a replaceable lens. Prices: spectacle type, \$3.75; plastic face mask type, \$1.50; replacement lens for plastic face mask, \$.65.

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AGRICULTURAL MECHANICS MATERIALS (continued)

OTHER MATERIALS (continued)

Student Tests on Shop Safety. This is a set of 20 student tests of 10 questions each based on VAS 3022, Safety in the Agricultural Mechanics Shop. Each test deals with a specific machine or tool. There is also a sheet of suggestions to the teacher and a page for the student to sign that he has received instruction in shop safety and that he has passed a written test on each machine that he uses. Price per package of 10 sets (for 10 students), \$1.25.

Small Engine Tools These are special small engine repair tools that are difficult to obtain. The complete set contains five tools, as follows:

Magnetic key inserter - for use in removing and replacing valve spring pins or other keepers. Price \$2.30.

Piston ring compressor - for use in replacing the piston in a small engine. Price \$2.25.

Piston ring expander - for use in removing the rings from a piston and in replacing them. Price \$3.00.

Hand valve grinder - for use in lapping valves with grinding compound. Price \$3.50.

Valve lifter and spring compressor - for use in removing and replacing valves in a small engine. Price \$5.45.

Price of the entire set of tools is the sum of the above figures, or \$16.50.

Tool Holders. These are gripper type clamps that can be used to hold most small tools in a cabinet or on a tool panel. They are available in two sizes. Prices: small \$.07 each; large \$.08 each.

Visuals These are 8½" x 11" instructional illustrations printed on heavy paper. They are for making transparencies for overhead projection, for use with an opaque projector, or for direct viewing. Supplementary information for use by the teacher as he projects the drawing are contained on the back of each visual. Each set is contained in a manila pocket folder with the title of the series stamped on the flap. Available sets are:

| | | |
|-------------------------------------|---------------|--------------|
| <u>Small Engine Visuals</u> | - (Set of 98) | Price \$2.65 |
| <u>Oxyacetylene Welding Visuals</u> | - (Set of 73) | Price \$2.00 |
| <u>Spray Painting Visuals</u> | - (Set of 50) | Price \$1.35 |

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CROP AND SOIL SCIENCE MATERIALS

SUBJECT-MATTER UNITS

Subject-matter units are prepared for student text and reference material. They are printed, 8½" x 11", illustrated, and punched for standard 3-ring notebook. Each unit carries a VAS number, as 4001. Units that have been revised have a letter following the number, as 4002a. Date of issue or revision is coded in letters on the last page. E-FG, for example, is 5-67 (May 1967).

| <u>Unit Number</u> | <u>Title</u> | <u>Price per Copy</u> |
|------------------------|---|---------------------------|
| 4001 | Collecting and Preparing Soil Samples for Testing, 4 pages | \$.05 |
| 4002a | pH Test for Soil Acidity, 8 p. | .10 |
| 4003a | P ₁ and P ₂ Soil Tests for Phosphorus, 8 p. | .10 |
| 4004a | T sting Soils for Potassium, 12 p. | .15 |
| 4005 | Nature of Soil Acidity and Major Plant Nutrients, 4 p. | .05 |
| 4006a | Soil Liming--A Key to Better Farming, 8 p. | .10 |
| 4007 | Using Phosphorus Fertilizers, 4 p. | .05 |
| 4008a | Recommended Potassium Fertilizers, 8 p. | .10 |
| 4009 | Using Nitrogen Fertilizers, 8 p. | .10 |
| 4010a | Planning a Fertilizer Program, 8 p. | .10 |
| 4011 | Hunger Signs--A Guide to Soil Improvement, 10 p. | .15 |
| 4012 | Maintaining Organic Matter in the Soil, 8 p. | .10 |
| 4013 | Animal Manures on the Farm, 8 p. | .10 |
| 4014 | Improving Permanent Pastures, 8 p. | .10 |
| 4015 | Growing Red Clover, 12 p. | .15 |
| 4016 | Growing Ladino Clover, 8 p. | .10 |
| 4017 | Growing Sweet Clover, 12 p. | .15 |
| 4018 | Farmstead Windbreaks, 8 p. | .10 |
| 4019 | Seed Treatments, 4 p. | .05 |
| 4020 | Plants Poisonous to Livestock, 16 p. | .20 |
| 4021 | Grass Waterways, 8 p. | .10 |
| 4022 | Inoculation of Legumes, 4 p. | .05 |
| 4023a | Producing Oats, 12 p. | .15 |
| 4024 | Planting and Care of Farm Forests, 16 p. | .20 |
| 4025 | Controlling Diseases of Vegetable Crops, 12 p. | .15 |
| 4026 | Growing Barley, 8 p. | .10 |
| 4027 | Growing Winter Wheat, 16 p. | .20 |
| 4028 | Soil Structure, 8 p. | .10 |
| 4029 | Soil Color, 8 p. | .10 |
| 4030 | Soil Texture, 8 p. | .10 |
| 4031 | Treating Fence Posts, 8 p. | .10 |
| 4032a | Producing High Alfalfa Yields, 20 p. | .25 |
| 4033 | Growing Soybeans, 8 p. | .10 |
| 4034 | Controlling Pests of Home Fruits, 4 p. | .05 |
| 4035 | Selecting and Preparing Soybeans for Seeding, 8 p. | .10 |
| 4036 | Contouring, 8 p. | .10 |
| 4037 | Controlling Giant Foxtail, 4 p. | .05 |
| 4038 | Terraçing, 16 p. | .20 |
| 4039a | Producing High Corn Yields, 12 p. | .15 |
| 4040 | Corn Insects, 12 p. | .15 |

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CROP AND SOIL SCIENCE MATERIALS (continued)

SUBJECT-MATTER UNITS (continued)

| <u>Unit Number</u> | <u>Title</u> | <u>Price per Copy</u> |
|--------------------|---|-----------------------|
| 4041 | Minimum Tillage, 8 p. | \$.10 |
| 4042 | Controlling Weeds, 12 p. | .15 |
| 4043 | Pruning Fruit Trees, 8 p. | .10 |
| 4044 | Storing and Drying Corn, 12 p. | .15 |
| 4045 | Handling and Using Agricultural Chemicals, 12 p. | .15 |
| 4046 | Growing and Selling Christmas Trees, 12 p. | .15 |
| 4047 | Controlling Insects of Vegetable Crops, 20 p. | .25 |
| 4048 | Pruning and Training Bramble Fruits and Highbush Blueberries, 8 p. | .10 |
| 4049 | Maize Dwarf Mosaic of Corn, 8 p. | .10 |

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SLIDEFILMS

Slidefilms are 35 mm. single-frame, for use with a standard filmstrip projector. No separate syllabus is required as all of the text is included on the frames. Those that are in color are so marked on the list below. Unmarked slidefilms are in black and white. Slidefilms are available on a sale basis only.

| <u>Film Number</u> | <u>Title</u> | <u>Price Each</u> |
|--------------------|---|-------------------|
| 501 | The Farmstead Windbreak | \$1.95 |
| 504 | Identifying Coniferous Trees (color) | 3.40 |
| 703-64 | Collecting and Preparing Soil Samples for Testing | .95 |
| 704-63 | Using the pH Meter in Testing Soils for Acidity | 1.10 |
| 708 | Soil Color (color) | 3.00 |
| **T710 | Soil Moisture | .70 |
| 712 | Soil Structure | 1.45 |
| 713 | Soil Texture | 1.70 |
| 731 | Planting Corn | 1.25 |
| 732 | Corn Diseases in Illinois (color) | 3.05 |
| 790 | Preparing and Using Soil Monoliths | 1.40 |
| 791 | Identification of Weeds, Part I (color). | 2.80 |
| 792 | Identification of Weeds, Part II (color) | 2.35 |
| 794 | Controlling Giant Foxtail (color) | 2.70 |
| 795 | Control of Aquatic Weeds (color) | 2.90 |
| 796 | Seed Quality--A Major Factor in Crop Yields (color) | 2.75 |
| 797 | Using Pre-emergence Herbicides (color) | 2.95 |

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**T - For use with tape recording of same title, \$3.50.

CROP AND SOIL SCIENCE MATERIALS (continued)

PROGRAMMED INSTRUCTION SERIES

These are sets of multiple-choice questions based, for the most part, on VAS units or other subject-matter materials. They are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way. Each set is in a package of 20 identical copies, all on the same subject.

| <u>Item</u> | <u>Price per Package</u> |
|---|------------------------------|
| 401 Storing and Drying Corn | \$.25 |
| 402 Corn Insects | .25 |
| 403a Understanding Soils, Part 1 | .25 |
| 404 Understanding Soils, Part 2 | .25 |
| 405 Recommended Potassium Fertilizers | .25 |
| 406 Handling and Using Agricultural Chemicals | .25 |
| 407 Growing and Selling Christmas Trees | .25 |
| 408 Producing Oats | .25 |
| 409 Controlling Insects of Vegetable Crops | .25 |
| 410 Planning a Fertilizer Program | .25 |
| 411 Pruning and Training Brambles | .25 |
| 412 Maize Dwarf Mosaic of Corn. | .25 |

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SCRAMBLED BOOKS

Scrambled books are programmed like a teaching machine. The student reads some information, reacts to a statement, and is directed to a certain page if he considers the statement true or to another page if he thinks the statement false. If his choice is correct, he is directed on; if incorrect, he is sent back. Scrambled books are based on VAS units or other subject-matter materials and are normally used only as supplementary teaching material.

| <u>Item</u> | <u>Price Each</u> |
|---|-----------------------|
| 401 Corn Production--As a Part of Your Farming Program. | \$.20 |
| 402 Producing Oats | .15 |

OTHER MATERIALS

Approved Practices These are 4-page publications which list specific practices followed by successful crop producers. They are useful to students in planning and carrying out their supervised farming programs involving crops. They are available for the following crops:

- Approved Practices for Alfalfa - Price \$.05 per copy
- Approved Practices for Corn - Price \$.05 per copy
- Approved Practices for Oats - Price \$.05 per copy
- Approved Practices for Soybeans - Price \$.05 per copy
- Approved Practices for Wheat - Price \$.05 per copy

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CROP AND SOIL SCIENCE MATERIALS (continued)

OTHER MATERIALS (continued)

Demonstrations on Weed Control

This is a series of demonstrations for student use to show the effect of herbicides on weed control. All except Number 4 contain the essential items needed to set up the demonstration. Each one provides full directions for carrying out the demonstration and observing the results. They are as follows:

1. The Effect of Pre-Emergence Herbicide on Weed Growth - Price \$.25 ea.
2. The Effect of Post-Emergence Herbicide on Weed Growth - Price \$.25 ea.
3. The Effect of 2-4D on Broad Leaved Plants in Lawns - Price \$.25 ea.
4. Checking and Calibrating Farm Sprayers - Price \$.05 ea.

Land-Use Selection Cards. These are 5½" x 8" cards, printed on both sides, for use in Land-Use Selection contests. The information on them is based on Ill. Circular 758, "Understanding Soils." Land-use selection cards are available in packages of 25 cards (five boys on a team to judge five holes). Price \$.30 per package.

Munsell Color Book. This set of standard color charts in a soft, black loose-leaf binder is used to determine soil colors. It is available in two forms:

Kit Form. This includes the color charts, color chips to be glued on, and the notebook cover. Price \$5.25 each.

Assembled Book. This Munsell Color Book is completely assembled, ready to use. Price \$6.95 each.

pH Kit. The complete kit includes ¼ pound of pH powder, plastic wash bottle, instruction sheet, color chart, 1-gram measuring spoon, 2 vial racks containing 24 vials, and a metal carrying case. It can be used for making indicator pH tests of soils in the laboratory or in the field when soil is not too wet to plow. Price \$8.00 each.

Replacement pH Powder. In ¼ pound lots, sufficient to make about 100 tests. Price \$2.50 per ¼ pound.

Soil-Testing Spoons. These are copper spoons, double end, 1 and 2½ grams. Price \$.65 each.

Soil-Test Report Forms. This is a set of 6 forms for use in testing soil, recording results, and interpreting soil tests. The set includes one each of the following: Soil Test Form A; Soil Test Form B; D-1 Soil Test Report; D-2 Using the Results of Your Soil Acidity Test for Lime; D-3 Phosphorus--Maps and Interpretations; D-4 Potassium--Maps and Interpretations. Price \$.10 per set of 6 forms.

Subject-Matter Packet -- Corn Production. This is a collection of more than 30 publications on Corn Production, assembled in a manila pocket folder. This material may be handed out as it is discussed, and should make an extensive library on corn for a student or adult farmer. A teacher's guide is included with each order. Price \$2.50 per packet.

Visuals These are 8½" x 11" instructional illustrations printed on heavy paper. They are for making transparencies for overhead projection, for use with an opaque projector, or for direct viewing. Supplementary information for use by the teacher as he projects the drawing are contained on the back of each visual. Each set is contained in a manila pocket folder with the title of the series stamped on the flap. Available sets are:

- | | | | |
|------------------------------------|---|-------------|--------------|
| <u>Weed Control Visuals</u> | - | (Set of 36) | Price \$1.00 |
| <u>Weed Identification Visuals</u> | - | (Set of 33) | Price \$.95 |

MISCELLANEOUS MATERIALS

Calendar of Events. This is a set of 8½" x 11" monthly calendars, printed on heavy paper, punched for easy hanging. Space is provided at each date for recording events. There is a sheet for each month, September through August. Price \$.20 per set.

Careers

Tape Recordings on Careers in Agriculture. These are 1200 ft. tapes for a standard tape recorder. The subjects and other information about each are as follows:

Careers in Agriculture, 25 minutes, 7½ ips.

Choosing a Career in Agronomy, 25 minutes, 7½ ips.

Choosing a Career in Ornamental Horticulture, 25 minutes, 7½ ips.

Junior College Programs in Agriculture in Illinois, 35 minutes, 3 3/4 ips.

The price of each tape is \$4.50 on a new tape; or \$2.00 if you send in your own tape for dubbing.

Programmed Instruction Series. This is a set of multiple-choice questions on the importance of agriculture and careers in this field. The questions are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way.

No. 501 Let's Look at Agriculture - Price \$.25 per package of 20 copies.

Cumulative Record Books for Foundation Awards These record books were developed by the Illinois Foundation FFA for members to use in their improvement project programs. Completed books are submitted as official entries in the Foundation Award Fields listed below:

Agricultural Electrification - Price \$.12 per copy

Agricultural Mechanics - Price \$.12 per copy

Beautification - Price \$.12 per copy

Safety - Price \$.12 per copy

Soil and Water Management - Price \$.12 per copy

Flannel Board Materials

Flocked Paper. This is a high-quality material that can be cut and attached to items you wish to use on a flannel board. It has a pressure-sensitive side for attaching to the display item and a rough texture that clings well to flannel. It is available in lots of two sheets, each 15" x 20". Price \$1.70.

Suede Paper. This is an economical material for making flannel board items. One side of the paper is rough and will adhere to the flannel surface. The other side is white and will accept ink, chalk, gummed letters or felt pen. It is available in 27" width and any length desired. Price \$.30 per yard.

Judging Materials

Illinois Scoring System Cards. This set of three 7" x 10" cards may be used to score any 4-place judging ring. The bottom card gives scores, divided into columns according to spacing between pairs. The top cards are "window" or "cut-out" cards, divided into columns according to placings, one card by numbers 1-2-3-4, and the other by letters A-B-C-D. To use the system, you match the top card and bottom card together according to correct placing and official spacing between pairs, and read off the scores directly on a basis of 100 points possible. Price \$.20 per set.

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MISCELLANEOUS MATERIALS (continued)

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Hormel Computing Slide. The 4" x 6" plastic holder and nine inserts may be used for scoring any 4-place judging ring. By selecting the proper insert cards and assembling them correctly, the scores of all possible placings show through. This computing slide differs from most other systems by considering the closeness of the whole ring as well as placing and spacing between pairs. Scores are on a basis of 50 points possible. Price \$2.75 ea.

Judging Cards and Supplies. Placing, grading, and identification IBM cards are available for judging contests, classroom or practice work in 7 colors -- salmon, green, yellow, pink, blue, manila, and brown. Registration forms, scoring cards, judges placing cards, summary sheets, are furnished without charge with a judging contest card order. Price of cards is \$3.00 per 1,000.

Parliamentary Practice Materials

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Guide to Parliamentary Practices. This is a 58-page, 5½" x 8½" publication which is essentially a condensed version of Robert's Rules of Order. It was prepared to assist FFA officers and as basic text material in preparing parliamentary procedure contest teams. Price \$.30 per copy.

Beginning Steps in Parliamentary Procedure. This 13-page multilith is supplementary to "A Guide to Parliamentary Practices." It is essentially an outline of "steps up the ladder" for each main type of parliamentary action, with blanks for students to fill and questions to answer. A key to the correct answers is given on the last page. Price \$.10 per copy.

Scrambled Books on Parliamentary Procedure. Scrambled books are programmed like a teaching machine. The student reads some information, reacts to a statement, and is directed to a certain page if he considers the statement true or to another page if he thinks the statement false. If his choice is correct, he is directed on; if incorrect, he is sent back. These scrambled books are based on "A Guide to Parliamentary Practices."

- No. 501 Parliamentary Procedure--Presenting and Voting Motions - Price \$.15 ea.
- No. 502 Subsidiary Motions - Price \$.20 ea.
- No. 503 Incidental Motions - Price \$.15 ea.
- No. 504 Privileged and Unclassified Motions - Price \$.15 ea.

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Rapid Rater. This is a punch-board device for use with the Programmed Instruction Series questions or any set of multiple choice questions with not more than 4 choices. The device can be used with up to 80 questions, coded to 8 different orders of correct answers. The student knows when he has answered each question correctly and a paper insert records the number of wrong efforts he makes in arriving at the correct answer. Price \$4.00 each.

Insert sheets for Rapid Rater. These are available in packages of 25, cut to correct size with space to identify student name and subject. Price \$.06 per package.

Replacement templates for Rapid Rater. These are not needed until original templates are lost or damaged. Complete set is a pair -- Coded 1-4, and 5-8. Price \$.35 each or \$.70 per pair.

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Pressboard Covers. These are 9" x 11½" binders for use with 8½" x 11" punched materials. Each binder has a metal fastener and a blank label. Price \$.30 each.

Slidefilm Containers. These are the green plastic cans with removable cover in which new slidefilms are delivered. They can be used as replacements or to store 35 mm. negatives, etc. Price \$.05 each.

Sets of order forms are available on request from

VOCATIONAL AGRICULTURE SERVICE

434 Mumford Hall

Urbana, Illinois 61801