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Agricultural Economics

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AND COMPUTER PROGRAMS

Cornell University, Ithaca, New York

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MarketingGeneral

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A.E. Res. 74-10	Beverage Consumption and Advertising Awareness in Selected New York State Markets, 1973 September 1974	Carolyn B. Cook Doyle A. Eiler O. D. Forker
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Direct Marketing

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Products - Vegetables

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FL 531	Updated Inventory of Agricultural Computer Programs April 1984	Food & Resource Economics Dept., IFAS, University of Florida
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- "Produce Losses: Opportunities for Improved Operations." Produce Marketing Association 1984 Almanac. Edward W. McLaughlin
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Thomas R. Pierson
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H. W. Kinnucan
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Ralph E. Heimlich

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1964. | Thomas T. Poleman |
| THE ECONOMICS OF AGRICULTURAL DEVELOPMENT
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| AGRICULTURAL MARKETING IN THE PHILIPPINES
College of Agriculture, University of
The Philippines, 1969. | L. B. Darrah
F. A. Tionson |
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India and the Developing World
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National Technical Information Service,
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Emerson M. Baff
Robert D. Boynton
William D. Dobson
Andrew M. Novakovic

VI. COMPUTER PROGRAMS

The following is a list of computer programs developed in the Department of Agricultural Economics. If you are interested in any of these, please send your request directly to the contact person, Department of Agricultural Economics, Cornell University, Ithaca, NY 14853. Prices cover only the cost of program reproduction and distribution.

The programs are divided into two categories:

- (I) Actively supported by Department staff with documentation available; and
- (II) Adequate documentation not available, most applicable only to institutions and businesses.

I. ACTIVELY SUPPORTED BY DEPARTMENT STAFF WITH DOCUMENTATION AVAILABLE:

A. Program Title: CROP BUDGET CALCULATOR TEMPLATE

Machines and Languages:

Apple II Plus and 16 Sector Visicalc
Osborne 1 and Supercalc

Description:

Calculates a crop enterprise budget given input quantities and prices, and machinery ownership and operating costs per acre. Expenses are divided into fixed and variable, and growing and harvesting. Breakeven prices to cover variable and all expenses are calculated.

Contact Person: William F. Lazarus

B. Program Title: CROP BUDGET AND MACHINERY COST CALCULATOR TEMPLATE

Machines and Languages:

Osborne 1 and Supercalc Version 1.05 or later version

Description:

Set of seven templates and 10 execute files. Calculates annual hours of use and ownership and operating costs for a set of farm machines, allocated to growing and harvesting on up to five crops. Width, speed, field efficiency, and times over field are used to calculate field capacity. Repair costs are estimated from engineering equations. Fuel use is calculated by machine based on horsepower and estimates of hourly fuel use. Straight-line depreciation and interest, insurance and storage on investment are calculated. Calculates costs and returns per acre for the five crops, using the calculated machinery costs.

Contact Person: William F. Lazarus

C. Program Title: ASSESSING THE RETIREMENT VALUES OF FARM AND OTHER INVESTMENTS

Machines and Languages:

TI-58 and TI-59 Programmable Calculators

Description:

Calculates the values of alternative investments for retirement. These values depend not only on ordinary income return rates, capital gain return rates, and capital appreciation, but also on income tax rates before and during retirement.

Contact Person: Loren W. Tauer

D. Program Title: GRADUATED PAYMENT SCHEDULES FOR FARMLAND PURCHASES

Machines and Languages:

IBM 370, FORTRAN IV

Description:

Computes a loan repayment schedule for any amount, interest rate or duration. Loan payments can be geometric, modified geometric, or level.

Contact Person: Loren W. Tauer

E. Program Title: PROFITABILITY AND FINANCIAL FEASIBILITY OF MAJOR CAPITAL INVESTMENTS

Machines and Languages:

IBM 370, FORTRAN

Description:

The program calculates the profitability of investments using discounted cash flows and determines the financial feasibility of the same investment from cash flows generated by the model. Financial feasibility can be assessed for the investment independent of the rest of the business, or the complete business including the investment, can be considered. The model evaluates situations which include a combination of investments in machinery, buildings, land, cattle, trees and vines. The current debt situation and a variety of available credit terms can be entered. For dairy farm situations a budget generator will estimate cash flows from base year data. Investment periods of up to 25 years can be considered. All items can be inflated at selected rates. The output includes the net present value of the investment, investment summary, before and after tax cash flows, investment tax credit use, five year financial feasibility summary, debt outstanding and required debt service.

Contact Person: Eddy L. LaDue

F. Program Title: DEBT SELECTION MODEL FOR A FARM CREDIT BANK

Machines and Languages:

IBM 370, FORTRAN IV, and Rand Quadratic Program

Description:

The model uses probability projections of interest rates and funding requirements provided by the user to compute an efficient set of debt issuance strategies that have low expected costs and low risks (such that actual costs are not expected to deviate greatly from expected costs).

Contact Person: Loren W. Tauer

G. Program Title: ESTIMATING OPERATING COSTS FOR BULK MILK ASSEMBLY

Machines and Languages:

TI-59 Programmable Calculator

Description:

Estimates truck operating costs using economic engineering techniques by combining individual item costs, from fuel and tires to purchase price and maintenance, into uniform operating costs per unit of product, time and distance. These estimates may be broken out into fixed and variable cost components. The program may be used to answer "what if" questions like the effect of fuel cost changes on overall operator costs.

Contact Person: William H. Lesser

H. Program Title: A USER'S GUIDE TO TRIPSIM

Machines and Languages:

TRS-80 (PC-2) Pocket Computer
Basic

Description:

TRIPSIM is a program designed to simulate net revenues from a fishing trip. The user is asked twenty questions relating to the operating conditions for his vessel as well as his catch and price levels and compute gross revenue, trip cost, net revenue, crew's share and ship's share. The program may be most useful for fishermen considering a change in fisheries. It allows for a systematic inquiry into the net revenue prospects of a trip before leaving port.

Contact Person: Jon M. Conrad

II. ADEQUATE DOCUMENTATION NOT AVAILABLE, MOST APPLICABLE ONLY TO INSTITUTIONS AND BUSINESSES:

A. Program Title: LEAST-COST BALANCED DAIRY RATION

Machines and Languages:

IBM 370, FORTRAN IV

Description:

Calculates a nutritionally-balanced least-cost ration composed of the feed ingredients available to the dairyfarmer. Considers restrictions on availability of feeds and computes the ration for prespecified milk production. Incorporates new nutritional concepts such as negative energy balance, lead factors, soluble protein, and the balancing for additional minerals and vitamins into ration formulation. Output includes information on the feeds included in the ration in a form useful to the user, a complete nutritional breakdown of the requirements and the amount contained in the ration, economic information concerning the cost of attaining nutritional requirements and restricting feeds to be included in the ration, and feed prices at which an alternative ration becomes more economical. The user can change any feed requirement or feed composition parameter when the situation dictates.

Contact Person: Robert A. Milligan

B. Program Title: CAMIS DEPRECIATION AND COST RECOVERY SCHEDULE

Machines and Languages:

Digital Equipment Corporation 11/24, C

Description:

An income tax depreciation and cost recovery schedule. The cost basis of nondepreciable assets can also be listed. Depreciable assets are itemized and summarized by class. A record of federal and New York State investment tax credit claimed is included. The adjusted basis and gain on dispositions is computed.

Contact Person: Stuart F. Smith

C. Program Title: INDIVIDUAL DAIRY FARM BUSINESS SUMMARY

Machines and Languages:

Digital Equipment Corporation 11/24, C

Description:

Organizes and summarizes dairy farm business and financial data, computes important business management factors, and prints a farm business summary and analysis for individual dairyfarmers.

The farm business and financial data is keyed directly from a multiple-page check-in form to the microcomputer using 12 input screens, data is verified, and a six page individual farm summary plus diagnostics is produced.

Contact Person: Linda D. Putnam

D. Program Title: AGGREGATE DAIRY FARM BUSINESS SUMMARY

Machines and Languages:

IBM 370, FL-1

Description:

Combines the data from individual dairy farm businesses to produce an aggregate summary for New York counties, regions, state and other selected variables. Selected variables include: herd size, milk output per cow, milk output per worker, cost control, capital efficiency and financial management. A key program component accepts individual farm data via telephone line from the Digital Equipment Corporation 11/24 microcomputer where the individual dairy farm data is processed.

Contact Person: Linda D. Putnam

E. Program Title: LABOR RECORDS/MANAGEMENT SYSTEM

Machines and Languages:

Radio Shack TRS-80 Model I, Level II, Basic

Description:

A labor accounting management system for farms with seasonal labor, specifically New York State fruit and vegetable producers. Daily time records are entered by enterprise and various reports and a payroll are generated. Program is easy to use and is flexible but has not been updated to include provisions of the Economic Recovery Act of 1982.

Contact Person: Robert A. Milligan

F. Program Title: MONTHLY SIMPLE INTEREST LOAN SCHEDULE

Machines and Languages:

Most machines, BASIC

Description:

Computes monthly simple interest payment schedules for any amount, interest rate, or duration. The definition of simple interest is that used in federal income tax regulation as the minimum interest rate for installment sales before imputed interest is implemented. Uses elementary BASIC statements so the program runs with no modification on most computers with BASIC compilers.

Contact Person: Loren W. Tauer

- G. Program Title: SIMULATION MODEL FOR DETERMINING THE OPTIMUM SPATIAL
AND TEMPORAL ALLOCATION OF GENERIC ADVERTISING
EXPENDITURES FOR MILK

Machines and Languages:

Fortran

Description:

Inputs milk prices, supply and demand functions, and long run advertising elasticity. Program prints the optimum level of investment in generic advertising of fluid milk for the market in question. Sensitivity analysis with respect to supply response can be conducted, as well as the impact of opportunity costs of capital on the advertising investment.

Contact Person: Olan D. Forker