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AGNET: A Computer Service at Your Fingertips

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AGNET

A Computer Service at Your Fingertips



COOPERATIVE EXTENSION SERVICE
SOUTH DAKOTA STATE UNIVERSITY
U.S. DEPARTMENT OF AGRICULTURE

AGNET

A Computer Service at Your Fingertips

What is the cheapest way to buy beef for your table?

What does it cost to own and operate your farm machinery or do custom work?

What is the latest market information?

Where can you save energy in heating and cooling your home?

Are you giving your livestock a balanced diet? Would you like to do it for less money?

Come to think of it, is your family getting a balanced diet?

AGNET can help you.

AGNET programs are designed for problem solving and information retrieval. They are designed to help you make better management decisions using your records, but not to keep those records.

AGNET is a management tool that can help analyze many alternatives with rapid and accurate computational efficiency, using the assistance of Extension and research specialists from seven states.

You don't have to be a computer expert to use AGNET. If you type using the "hunt and peck" system you can use the entire AGNET system. Access to AGNET is by use of a typewriter-like device called a terminal or your home computer; these devices communicate with the computer over telephone lines and can be used wherever there is an electrical outlet and a standard telephone—anywhere from the farm home to a sale barn.

The AGNET system is for farmers and ranchers, homemakers, Extension agents and specialists, adult vocational agricultural instructors, researchers, and students in agriculture, home economics, and

AGNET provides low-cost access to a large reliable computer with over 200 separate agricultural and home management programs valued at over 4 million dollars. A consolidated list of these programs follows.

GENERAL AGNET PROGRAMS - LAST UPDATE 1/19/81

PROGRAM NAME	DESCRIPTION
BASIS	DEVELOPS HISTORICAL "BASIS" PATTERNS FOR CERTAIN CROPS
BEEF	SIMULATION AND ECONOMIC ANALYSIS OF FREDER'S PERFORMANCE
BEEFADVISORY	BEEF FEEDLOT PLACEMENT AND SALES ADVISORY REPORT
BEEFBUY	COMPARISON OF ALTERNATIVE METHODS OF PURCHASING BEEF
BESTCROP	PROVIDES AN EQUAL RETURN YIELD AND PRICE ANALYSIS BETWEEN CROPS
BIMDRIY	PREDICTS RESULTS OF NATURAL AIR AND LOW TEMPERATURE CORN DRYING
BROLLER	SIMULATION AND ECONOMIC ANALYSIS OF BROLLER'S PERFORMANCE
BUSPAK	A SERIES OF FINANCIAL ANALYSIS PROGRAMS
CALFWINTER	ANALYZES COSTS AND RETURNS ASSOCIATED WITH WINTERING CALVES
CARCOST	CALCULATES THE COSTS OF OWNING AND OPERATING A CAR OR LIGHT TRUCK
CONFINEMENT	VENTILATION REQUIREMENTS AND HEATER SIZE FOR SWINE CONFINEMENT
CORNPROJECT	PROJECTS AVE U.S. CORN PRICE FOR VARIOUS MARKETING YEARS
COWCOST	EXAMINES THE COSTS AND RETURNS FOR BEEF COW-CALF ENTERPRISE
CROSBUDGET	ANALYZES THE COSTS OF PRODUCING A CROP
CROSSBRED	EVALUATION OF BEEF CROSSBREEDING SYSTEMS AND BREED COMBINATIONS
DAIRYCOST	ANALYZES THE MONTHLY COSTS AND RETURNS WITH MILK PRODUCTION
DETCHECK	FOOD INTAKE ANALYSIS
DIETSUMMARY	SUMMARY OF ANALYSIS SAVED FROM DETCHECK
DNY	SIMULATION OF GRAIN DRYING SYSTEMS
DUCTLOCATION	DETERMINES AERATION DUCTS TO AERATE GRAIN IN FLAT STORAGE BLDG
EDPAK	DEMO PGMS ILLUSTRATING CONCEPTS OF COMPUTER ASSISTED INSTRUCTION
EWKOST	ANALYZES THE COSTS AND RETURNS OF SHEEP PRODUCTION ENTERPRISE
EWKSALE	LISTS SHEEP FOR SALE
FAN	DETERMINATION OF FAN SIZE AND POWER NEEDED FOR GRAIN DRYING
FREDMIX	LEAST COST FEED FORMULATION FOR BEEF, DAIRY, SHEEP, SWINE, & POULTRY
GRASSPAT	ANALYZE COSTS AND RETURNS ASSOCIATED WITH PASTURING CALVES
HAYLIST	LISTS HAY FOR SALE
HOUSE	ESTIMATES THE COSTS OF HEATING AND COOLING A HOUSE
IRRGATE	IRRIGATION SCHEDULING
JOBSEARCH	MATCHES ABILITIES AND INTERESTS TO OCCUPATIONS
LANDPAK	PACKAGE OF LAND MANAGEMENT PROGRAMS
MACHINEPAK	MACHINERY ANALYSIS PACKAGE
MARKETS	VARIOUS MARKET REPORTS AND SPECIALISTS' COMMENTS
MONYCHECK	FINANCIAL BUDGETTING COMPARISON FOR FAMILIES
NEWSRELEASE	A PROGRAM FOR RAPID DISSEMINATION OF NEWS STORIES
PLANTAX	INCOME TAX PLANNING/MANAGEMENT PROGRAM
PRICEPLOT	DESIGNED TO PLOT MARKET PRICES IN GRAPHIC FORM
PUMP	DETERMINATION OF IRRIGATION COSTS FOR SURFACE OR CENTER PIVOT
RANGCOND	CALCULATES THE RANGE CONDITION AND CARRYING CAPACITY
SPELLIST	LISTS SEED STOCKS FOR SALE
SENDMAIL	USED TO SEND MAIL TO INDIVIDUALS AND/OR GROUP MAILING LISTS
SPRINKLER	EXAMINES FEASIBILITY OF INSTALLING SPRINKLER IRRIGATION
STORAGEIN	COST ANALYSIS OF ON FARM AND COMMERCIAL GRAIN STORAGE
SWINE	SIMULATION AND ECONOMIC ANALYSIS OF FREDER'S PERFORMANCE
SWINEADVISORY	FEDDER PIG AND SLAUGHTER HOG MARKETING ADVISORY REPORT
TRACTORSELECT	ASSISTS IN DETERMINING SUITABILITY OF TRACTORS TO ENTERPRISE
TREKSALE	LISTING OF CLARKE-MCNAMEY AVAILABLE INVENTORY
TURKEY	SIMULATION AND ECONOMIC ANALYSIS OF TURKEY'S PERFORMANCE
VITAMINCHECK	CHECKS THE LEVEL OF VITAMINS AND/OR TRACE MINERALS IN SWINE DIET
WEAR	PERFORMANCE TESTING OF WEARING WEIGHT CALVES
YEARLING	PERFORMANCE TESTING OF YEARLING WEIGHT CALVES

SPECIALIZED AGNET PROGRAMS - LAST UPDATE 12/8/80

PROGRAMS WHICH ARE AVAILABLE TO THE GENERAL PUBLIC, BUT ARE OF SUCH SPECIALIZED NATURE THAT THE AUDIENCE WOULD BE LIMITED OR ARE DESIGNED TO BE USED WITH ADDITIONAL MATERIALS AND/OR TRAINING FROM PROGRAM AUTHOR.

PROGRAM NAME	DESCRIPTION
AFFORD	FINANCIAL BUDGETTING MODEL
AGBUS	AGRI-BUSINESS MANAGEMENT GAME
ANIMAL	ANALYSIS OF GAIN & FEED CONSUMPTION OF EXPERIMENTAL TRIALS
BIGMGT	BIG MANAGEMENT FARM SUPPLY GAME
BUDGETIT	BUILDS AND MODIFIES FILES FOR USE IN BUDGET
BUDGET	GENERAL ACCOUNTING & BOOKKEEPING SYSTEM
BULLTEST	USED FOR NEBRASKA BULLTESTING PROGRAM
CARCASS	SCORING AND TABULATION OF CARCASS JUDGING CONTESTS (BEEF OR LAMB)
COWGAME	BEEF GENETIC SELECTION SIMULATION GAME
ECON	PACKAGE OF TEACHING PROGRAMS DEALING WITH ECONOMIC CONCEPTS
FAIR	SCORING AND TABULATION OF JUDGING CONTESTS
FARMSUPPLY	FARM SUPPLY BUSINESS MANAGEMENT GAME
FREDDIT	USED FOR BUILDING AND EDITING FILES FOR THE FREDMIX PROGRAM
FILLREDIT	CONSTRUCTS AND MODIFIES FILES FOR USE IN PILLIN
FILLIN	A "FILL IN THE BLANK" QUIZ ROUTINE
GRADINGPRO	PACKAGE OF PROGRAMS USED IN GRADING EXAMS AND QUIZES
INSECTCONT	INSECT CONTROL TEACHING PROGRAMS
LP	LINEAR PROGRAMMING MODEL
LPEDIT	USED FOR BUILDING AND EDITING FILES FOR THE LP PROGRAM
MARKOV	MARKOV CHAIN ANALYSIS - SIMULATING TRENDS OF GROWTH OF SYSTEMS
MB02	SIMULATION OF MEAT QUALITY IN MERCHANDISING
MC	A MULTIPLE CHOICE QUIZ ROUTINE
MCDIT	CONSTRUCTS AND MODIFIES FILES FOR USE IN MC
PCA	MANAGEMENT DECISION MODEL FOR PRODUCTION CREDIT ASSOCIATIONS
PLANPAK	PACKAGE OF PROGRAMS FOR FINANCIAL ANALYSIS AND PLANNING
PREMIUM	COMPILES AND SUMMARIZES FAIR PREMIUMS
SOILSPROGRAMS	PACKAGE OF PROGRAMS DEALING WITH SOIL PROBLEMS AND ANALYSIS
SORTANIMAL	RANDOM SORTING AND ASSIGNMENT OF ANIMALS TO PENS IN EXPERIMENTS
SOYBEANPROD	DEMONSTRATION SOYBEAN PRODUCTION MANAGEMENT MODEL
STATPAK	PACKAGE OF PROGRAMS FOR STATISTICAL ANALYSIS OF DATA
SUPERMARKET	SUPERMARKET BUSINESS MANAGEMENT GAME
TESTPLOT	STANDARD ANALYSIS OF VARIANCE
TRANS	TRANSPORTATION MODEL FOR ALLOCATION BETWEEN SUPPLY AND DEMAND
TREE	SUMMARIZATION OF COMMUNITY FORESTRY INVENTORY
WILDLIFE	PROGRAMS SIMULATING ENVIRONMENTAL EFFECTS ON UNDOMESTICATED ANIMALS

AGNET

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Please send me prices and a sample external user's contract.

Name _____

Address _____

City, State, Zip _____

business. Individuals with some knowledge of a program topic can easily use AGNET, because the computer leads the user through the problem solving process with questions, examples, and help routines.

For example, to analyze the costs and returns for feeding cattle, you type the word "BEEF". The program then gives you a description and asks what type of analysis you want to do. It then asks questions regarding animal weight, cost of the animal, feed costs, expected sale price, interest rate, commission, and transportation costs.

If you become confused during a program you can type "HELP." The computer will explain what to do next.

The program then calculates the expected returns per head, returns per pound, break-even price, average daily gain, average feed intake, and average conversion efficiency.

Another feature of all AGNET programs is that you can ask "what if" questions.

What if I could buy feeders for \$.25 per pound less? What if I sell direct and eliminate commission and yardage charges but have additional transportation charges? What if the selling price falls by \$.10 per pound?

AGNET programs permit you to explore these and many other management alternatives.

Communication is also an important aspect of AGNET. Electronic mail service for rapid transfer of

information or messages to individuals or groups is a recent addition to the growing list of AGNET programs available to all users.

AGNET was a pilot project funded by the Old West Regional Commission to extend the Agricultural computer NETWORK developed in Nebraska to South Dakota, North Dakota, Montana, and Wyoming. The states of Washington and Wisconsin joined AGNET in 1980. Pooling the resources of the seven states makes programs from the other states available to South Dakotans.

AGNET has been operational in South Dakota for over 3 years. About 30 terminals have been purchased by the project for your use.

In addition, many counties have purchased their own terminals. Contact your county Extension agent or home economist to use AGNET. These people have access to the terminals at various times, and have had an opportunity to get to know the system.

If you would like to know more about AGNET, contact your county Extension agent or AGNET, 120 Scobey Hall, Box 504A, South Dakota State University, Brookings, SD 57007, (605) 688-4141.

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