SMALL FARMS: A SELECTED LIST OF REFERENCES, BRIEFLY ANNOTATED

A research paper submitted to the graduate faculty of the North Dakota State University of Agricultural and Applied Science at Fargo, North Dakota

BY
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ABSTRACT

Soto Famirez, Francisco, M.S., North Dakota State University, July 1979
Small Farms: A Selected List of References, Briefly Annotated
Major Advisor: Dr. Gordon W. Erlandson

This research paper consists of a list of research publications selected for the use of those involved in agriculture and concerned with problems facing small farmers. The publications are divided into eleven categories to cover the major grouping of need, such as crops, livestock, and farmstead conveniences.
PREFACE

Mexican agriculture has been developed in a highly polarized fashion. A commercial sector located primarily in irrigated districts has reached high levels of productivity, mechanization, and use of modern inputs; while a vast subsistence sector utilizing traditional methods produce crops of low value and poor yields, and possess a low capacity for capitalization. Structurally, agrarian reform in Mexico attained its objective of dividing the land among the peasants who worked it. But there was neither a parallel redistribution of the other factors of production -- irrigation facilities, machinery, credit, and so forth. Nor was an appropriate agricultural program established to provide technical knowledge to rural people on how to use the resources and facilities available to them.

Most of the farmers in the country have limited education in agriculture. They have an empirical knowledge which has been transmitted through their parents for generations. The technical deficiencies of the educational system lead to a cycle of low productivity, and so the low income received is not sufficient to cover their primary needs.

In the face of these problems, the Mexican government has made several policy decisions. However, the lack of technical knowledge on how to use the resources and facilities by rural people has rendered the agricultural programs in most of the areas to be unsuccessful and futile. One of the first things to be done in order to increase production and to satisfy domestic consumption is to educate farmers through agricultural education programs. These programs will provide some theoretical background and knowledge of resources and facilities which are used in agriculture. By doing so, rural people and small farmers will increase their productivity
and thus their standard of living. It is known that the standard of living for any country depends upon continued research, modern production techniques, and the use of the best known procedures and methods in the operation of agricultural businesses.

Justification of this Paper

This annotated bibliography is a specific research tool. The objective is to assist instructors of agricultural education, farmers, students, and/or specialists, in some way to provide sources for technical know-how that is readily adaptable for the small farmer.

This list of references meets an urgent need for an increasing number of agricultural producers. The level of material listed in this paper is designed primarily to be used by small farmers. Although much of it is also useful for vocational courses at higher levels as well.

Procedure

This research paper consists of a list of research publications selected for the use of those involved in agriculture and concerned with problems facing small farmers. The list is divided into eleven categories to cover the major grouping of need such as crops, livestock, and farmstead conveniences.

These publications are convenient since they typically cover a single specified topic, are frequently illustrated, and are inexpensive.

Articles are selected according to their probable usefulness to practicing farmers, agricultural instructors, students, or extension specialists. A brief comment on the nature of the publication is included
in those cases where the title is not sufficiently descriptive. An attempt was made to include only current materials; however, some older publications were included for their outstanding value. In some areas where the amount of literature available is enormous, only a representative list of titles can be given in order to maintain balance as a comprehensive bibliography and to reduce redundancy.

Limitations

Textbooks and journals are excluded. Only publications dealing with very practical and useful applications are listed.

This list of references is limited in scope. It attempts to provide information with a focus primarily on topics related to the small farm.

Organization of References

A. Farmstead Conveniences
   A.1. Buildings
   A.2. Fences and corrals
   A.3. Farm water supply

B. Crops
   B.1. Small grains
   B.2. Forages
   B.3. Oil crops
   B.4. Soils and fertilizer
   B.5. Edible beans
   B.6. Corn

C. Livestock
   C.1. Dairy
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D. Poultry
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D.2. Eggs
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E. Management
E.1. Budgeting
E.2. Credit and Finance
E.3. Marketing
E.4. Leasing arrangements

F. Irrigation
F.1. Pumps
F.2. Trickle system
F.3. Other methods

G. Fruits and Vegetables
G.1. Fruits
G.2. Potatoes
G.3. Vegetables

H. Machinery and Implements
H.1. Tractors
H.2. Harvesting and tillage
H.3. Machinery management

I. Pests, Diseases, and their Control
I.1. In the farms crops
I.2. In homes and gardens

J. Community Development

K. Miscellaneous
A. FARMSTEAD

A.1. Buildings

A.1.1. Phillips, Richard E., SMALL POULTRY BUILDING, Small Farm Operators Guides, SF13, University of Missouri-Columbia Extension Division. 5/76/2M.
This guide describes a building designed for brooding and rearing of a small flock of poultry. 2 pp.

This bulletin describes several common methods of mechanically dried and small grains on the farm. 12 pp.

This publication includes general management principles and suggestions on housing facilities, equipment, and methods of starting the home flock. 30 pp.

This publication includes different types of silos. Permanent silos as well as temporary silos. 27 pp.

It contains specifications for concrete silo construction. 6 pp.

This publication consists of where and how to use adobe and stabilized-earth blocks. 8 pp.

This publication includes some concrete farm structures as well as mixed materials for concrete. 30 pp.

This circular describes how to build a basement for vegetable storage, fallout shelter, and recreation room. 6 pp.

It gives specifications how to build a portable cone-shaped silage feeder. 4 pp.
A.2. Fences


This bulletin describes a good way for handling beef cattle. 7 pp.

A.3. Farm Water Supply


This guide describes the chemical and biological factors which can contaminate the water. 2 pp.

This bulletin includes information on water requirements and water sources for farms and rural living. 18 pp.

It describes in a very short outline some surface drainage systems. 4 pp.


B. Crops

B.1. Small Grains: Oats, Barley, Wheat


B.1.3. McDonald, Hugh J., and Walter G. Heid, Jr., FACTORS AFFECTING
THE PRICES OF HARD RED SPRING AND DURUM WHEATS, Cooperative
Extension Service, North Dakota State University, Circular

B.1.4. WHAT DOES IT COST YOU TO GROW WHEAT?, Extension Service, United
States Department of Agriculture, June, 1971.
It contains a worksheet for estimating costs and revenues.
5 pp.

B.1.5. Quick, J. S., and H. D. Wilkins, DURUM ... A NORTH DAKOTA
SPECIALTY, Cooperative Extension Service, North Dakota

B.1.6. WHEAT TRANSPORTATION IN PERSPECTIVE, Cooperative Extension
Service, South Dakota State University, Circular 712, 9 pp.

B.1.7. Carkner, Richard W., CROP SELECTION AND SET-ASIDE PARTICIPATION
IN 1978, Cooperative Extension Service, North Dakota State

B.1.8. NORTH DAKOTA WHEAT VARIETIES 1975, North Dakota Crop and Live-
stock Reporting Service, Agricultural Statistics No. 37,

B.1.9. Ball William S., NORTH DAKOTA GRAIN VARIETIES 1979, Cooperative
Extension Service, North Dakota State University, December,

B.1.10. SEMIDWARF WHEAT VARIETIES, Agricultural Experiment Station,
North Dakota State University, Circular A-512, November, 1967,
4 pp.

AND SILAGE, Agricultural Experiment Station, North Dakota
State University, Bulletin 447, April, 1964, 8 pp.

DURUM WHEATS GUIDELINES FOR SWATHING, Williston Experiment
Station, North Dakota State University, 1966, 3 pp.

B.2. Forages

B.2.1. Dodds, Duaine L., and Dwain W. Meyer, ESTABLISHMENT OF DRYLAND
AND IRRIGATED FORAGES, Cooperative Extension Service, North

HAYLAGE, Cooperative Extension Service, North Dakota State

B.2.4. Clawson, W. J., Gary Beall, and James E. Street, MANAGING SMALL PASTURES FOR LIVESTOCK PRODUCTION, Cooperative Extension Service, University of California, Leaflet 2906, September, 1976


B.2.7. Whitman, W. C., Larkin Langford, R. J. Douglas, and T. J Coulon, CRESTED WHEATGRASS AND CRESTED WHEATGRASS-ALFALFA PASTURES FOR EARLY-SEASON GRASING, Agricultural Experiment Station, North Dakota State University, Bulletin 442, April, 1963.

This publication describes the results of a seven-year period with yearling steers on crested wheat-grass and crested wheat grass alfalfa.


B.2.10. Dodds, Duaine L., HARVESTING QUALITY HAY, Cooperative Extension Service, North Dakota State University, Circular R-624, April, 1978.

This publication describes some tips when the forage crops should be harvested for hay at their preferred growth stage if quality forage is the goal. 6 pp.


This publication describes principal varieties of alfalfa and total acreage which are grown in the United States. 8 pp.


This handbook describes the alfalfa varieties most commonly grown in the United States. It includes variety, origin, genetic stocks used for maintaining variety, characteristics, winter hardiness, and area of adaptation.


B.2.17. Bennett, Myron, Burch Harrington, and Ed Wiggins, PASTURE RENTAL RATES, University of Missouri-Columbia, Extension Division, Small Farm Operators Guides SF7, 6/76/4M.
This guide describes a budget which includes the amount a renter can afford to pay for pasture. Income and costs for a beef cow-calf program is estimated. 4 pp.

B.2.18. Wheaton, Howell, Dale Hagerman, and Ed Wiggins, GROWING AND USING GRASS ON SMALL FARMS, University of Missouri-Columbia Extension Division, Small Farm Operators Guides, SF9, 7/75/4M.
This publication gives some steps to follow to receive income from grass. 6 pp.

This report summarizes estimated costs of improving pasture by five different systems. 12 pp.

B.2.20. Hewlett, David, and Arnold J. Bateman, ALFALFA AN ECONOMIC ALTERNATIVE TO CORN, Cooperative Extension Service, South Dakota State University, United States Department of Agriculture, EC 772.
In this report, production costs and returns of alfalfa for different levels of management and different prices are compared to shelled corn and corn silage.

The characteristics of a forage as nutritive value is described in this publication. It includes a preferred growth stages for cutting different forage crops for hay. 6 pp.


   To determine various methods of hay harvesting and comparing the important methods as to labor, power, equipment, and other cost factors. 35 pp.

   The objective of this study was to determine the best adapted varieties in different areas, yield responses to fertilization, quality of forage, and stand maintenance. 23 pp.

   It describes some tolerant crops to salty or wet soil conditions. 4 pp.

B.2.27. Dodds, Duaine, GRAZING SYSTEMS FOR FULL SEASON PASTURES, Cooperative Extension Service, North Dakota State University, Circular R-559, Rev., April, 1976.
   This publication describes some grazing systems depending on available acreage. 4 pp.

B.2.28. Dodds, Duaine L., Dwain W. Meyer, and Billy B. Rice, ALFALFA MANAGEMENT: SELECTION, HARVESTING, ECONOMICS, Cooperative Extension Service, North Dakota State University, Circular R-571, 10M-8/72, 8 pp.

   It includes some tips about seed bed preparation, seeding dates, seeding depth, and soil fertility for forages. 6 pp.

B.3. Oil Crops


   This report made under Consumer and Food Economics Institute describes the nutritive value of soybeans and includes some recipes for using them. 26 pp.

B.4. Soils and Fertilizers


B.4.4. Dodds, Duaine L., WIND EROSION CONTROL ON SUMMERFALLOW AND ON CONTINUOUS CROPLAND, Circular SC-572, IOM-6/72.
   This publication includes some methods how to control wind erosion. 8 pp.

   It makes some recommendations for a proper soil mixtures for house plants. 4 pp.

   It describes the tensiometer method for scheduling irrigations. 6 pp.


   This publication shows some common weed seeds. 4 pp.

   The circular describes fertilizer recommendations for wheat, oats, and barley. 2 pp.


   This bulletin contains information on the fertilization of oats and wheat for grain production. 22 pp.

   It includes some new wheat and barley varieties. 2 pp.


   This publication presents results on the response of soybeans to mineral fertilizers under varying soil conditions. 20 pp.


B.5. Edible Beans


This handbook includes topics related to dry edible beans such as germination growth and development, crop management and production, varieties, diseases, weed control, and fertilizing. 18 pp.


B.6. Corn


This report gives some recommendaiton on how to produce corn in order to increase its yield. 6 pp.


This report describes how corn infested affects the animal which is feed with it. 11 pp.


Some fertilizer recommendations and time applications are given in this guide. 2 pp.

B.6.4. Curtis, J. O., REMODELING CORN CRIBS FOR SMALL GRAIN STORAGE, Agricultural Engineers Digest, University of Illinois, Circular 777, AED-12.

Some methods for shelled corn storage are given in this circular.


   The purpose of this pamphlet is to offer some guidelines for production practices which research and observation have shown to be profitable for corn production. 8 pp.

   It describes how the combination of high summer temperatures and uneven distribution of rainfall makes it very hard to get good yields of corn in Arkansas. 27 pp.

C. LIVESTOCK

C.1. Dairy


   This article lists some of the key factors to be considered under the United States Government Market Orders. 7 pp.

   This bulletin describes some aspects of the United States Government Support Programs and the reasons for increasing management supply avoiding higher milk prices. 18 pp.


C.1.5. Ladd, George W., ANALYSIS OF RANKING OF DAIRY BARGAINING COOPERATIVE OBJECTIVES, Agriculture and Home Economics Experiment Station, Iowa State University, Bulletin 550, January, 1967.
   This report summarizes the relative importance of various objectives to Grade A milk bargaining cooperatives. 16 pp.
   This bulletin provides cost information which would be useful in planning for adjustments to new technology and changing plant size in the butter-nonfat dry milk industry. 30 pp.

   This report considers the adequacy of organization and administration of the United States Dairy Cooperatives in 1962, and whether they will truly be able to serve future needs of procedures. the industry, and the national economy. 42 pp.

   This report describes substantial changes occurring in the production sector of the fluid milk industry in Georgia during 1966-1970 period. 49 pp.


   This publication describes a study carry out on the United States Dairy Industry during 1974. It includes an overview of the entire dairy industry including on-Farm as well as marketing, processing, credit, and other phases of dairy. 19 pp.


   This bulletin describes a study which points out some of the major organizational changes that the dairy industry in North Dakota was undergoing and the economic impact in the state. 35 pp.


C.1.15. Storck, Harold, RAISING BABY CALVES, University of Missouri-Columbia, Extension Division, Small Farm Operators Guides, SF-11, Rev. 5/76/3M, 5 pp.


C.1.18. Berry, Calvin R., and H. J. Meenen, DISTRIBUTING DAIRY PRODUCTS THROUGH RETAIL STORES IN ARKANSAS, Agricultural Experiment Station, University of Arkansas, Bulletin 592, June, 1957. This study analyzes the sale of dairy products through retail stores. It includes costs and revenues in size of stores. It discovers factors that may serve as guides to increasing efficiency of marketing dairy products through retail stores.


C.1.20. Stallcup, O. T., D. V. Bostain, and K. P. Bierworth, TIME REQUIRED FOR DAIRY COWS TO EAT CONCENTRATES AND SILAGE, AGRICULTURAL EXPERIMENT STATION, University of Arkansas, Bulletin 609, March, 1959. This publication describes a study which determines the influence of the type of milking barn and the breed of dairy cattle on the time required by cows to consume concentrates fed during the milking process. 13 pp.

C.1.21. Horton, O. H., O. T. Stallcup, and J. M. Rakes, CATTLE LOSSES AND DISPOSALS, Agricultural Experiment Station, University of Arkansas, Bulletin 623, April, 1960. The length of time that a dairy cow stays in the producing herd is analyzed. This publication makes emphasis on the reasons for animals leaving the herd. 13 pp.
C.1.22. Stallcup, O. T., and J. M. Rakes, NET ENERGY AND TOTAL DIGESTIBLE NUTRIENT REQUIREMENTS FOR MILK PRODUCTION, Agricultural Experiment Station, University of Arkansas, Bulletin 738, March, 1969. This publication determines the estimated net energy requirement and TDN requirement for milk production of lactating cows where accurately measured amount of roughage and concentrate were fed to cows on an individual basis in specific ration to milk production. 24 pp.


C.1.24. CHEESE IN FAMILY MEALS: A GUIDE FOR CONSUMERS, Consumer and Food Economics Institute, Agricultural Economics Institute, Agricultural Research Service, United States Department of Agriculture, Home and Garden Bulletin 112, September, 1977. In this bulletin, you will find tips on choosing cheeses to suit your needs and please your palate, a guide to storing cheese at home, and suggestion for serving cheese as a snack or dessert. 30 pp.

C.1.25. Tung, T. H., Leon Reu, and Ronald H. Millar, A LOCATION PROGRAMMING MODEL OF THE COLORADO DAIRY INDUSTRY, Agricultural Experiment Station, Colorado State University, Technical Bulletin 99, May, 1968. This bulletin reports the research results of a dairy marketing project whose primary purpose was the study of cost structure and location efficiency of the Colorado Dairy Industry.


C.1.27. Thompson, S. R., and D. A. Eiler, and O. D. Forker, AN ECONOMETRIC ANALYSIS OF SALES RESPONSE TO GENERIC MILK ADVERTISING IN NEW YORK STATE, Agricultural Experiment Station, Cornell University, New York, Vol. 6, No. 3., July, 1976. This study provides to dairy farmers an estimate of the economic return from their investment in generic advertising and to provide program managers with information to guide them in determining appropriate levels of advertising expenditure among markets.


C.1.31. Ladd, George W., and Milton Hallberg, AN EXPLORATORY ECONOMETRIC STUDY OF DAIRY BARGAINING COOPERATIVES, Agricultural and Home Economics Experiment Station, Iowa State University, Bulletin 542, November, 1965. This publication includes a study which provides some of the information needed for a better understanding of the complex bargaining process. 24 pp.

C.1.32. Ladd, George W., ANALYSIS OF RANKING OF DAIRY BARGAINING COOPERATIVE OBJECTIVES, Agriculture and Home Economics Experiment Station, Iowa State University, Bulletin 550, January, 1967. This study develops an hypotheses on determinants of the relative importance of various objectives to Grade A milk bargaining cooperatives. 16 pp.

C.1.33. Ladd, George W., and Robert L. Oehrtman, FACTOR ANALYSIS OF THE MARKET STRUCTURE OF THE FLUID-MILK BOTTLING INDUSTRY IN THE NORTH CENTRAL REGION, Agriculture and Home Economics Experiment Station, Bulletin 573, October, 1971. This publication tends to provide an understanding of market structure, conduct, and performance by determining some of the economic, sociological, and psychological, variables that fluid-milk processors believe are relevant to their marketing problems. 30 pp.

C.1.34. LaGrange, William S., MILK FLAVOR DEFECTS, Cooperative Extension Service, Iowa State University, FT-1000, February, 1976. This publication describes some causes of milk flavor defects, how to recognize them, and how to prevent them. 9 pp.

C.1.35. Kleen, E. J., and N. A. Jorgensen, THE MILKING MACHINE, Cooperative Extension Service, South Dakota State University, Fact Sheet FS 404. This publication describes how to work the four basic milking machine components for better cow milk without causing mastitis. 4 pp.


   This publication includes some white sauce mix recipes to be used at home. 2 pp.


   This bulletin analyzes six experiments carried out in Arkansas using corn silage under different conditions to find out the nutritive value of corn and sorghum for milk production. 34 pp.


   It includes some tips about mastitis: what is it, signs of mastitis, causes of mastitis, and prevention and treatment. 5 pp.

C.1.44. McBride, Dean K., and Dennis D. Kopp, APPROVED...DAIRY CATTLE SPRAYS, Cooperative Extension Service, North Dakota State University, Circular E-330, April, 1978.
   This circular includes some recommendations on how to control fly pests. It includes insecticide to use and the amount to use.


This publication includes facts on structure and performance trends in the dairy industry in U.S.A. since 1962. Facts such as mergers, trends in the fluid milk processing industry, concentration, food chain vertical intergration into processing. 152 pp.

C.2. Beef


C.2.2. GUIDE TO LIVESTOCK-SHARE AGREEMENT, Agricultural Economics Department, North Dakota State University and School of Law, University of North Dakota, Circular AE-Guide 3A.


C.2.5. Entomology Research Division, HOW TO CONTROL CATTLE GRUBS, Agricultural Research Service, United States Department of Agriculture, Leaflet 527, June, 1972, 8 pp.


This circular gives a synchronizing program of heat periods in cattle. 2 pp.

In this bulletin there is a study which identifies various production density areas for cattle and calves in the North Central Region of the United States. 59 pp.

C.2.15. Bender, Lloyd D., ECONOMIC FEASIBILITY OF LIVESTOCK FEEDING ENTERPRISES ON SMALL OZARK FARMS, Agricultural Experiment Station, University of Arkansas, Bulletin 701, June, 1965.
This publication provides a guide for evaluating the profitability of feeding cattle on small farms in Arkansas. 23 pp.

C.2.16. Allen, Herbert R., and David Jibben, BUDGETS FOR MAJOR LIVESTOCK ENTERPRISES IN SOUTH DAKOTA, Agricultural Experiment Station, South Dakota State University, Circular 220, November, 1977.
Budgets in this publication reflect normal input-output expectations. The budgets are intended to serve as planning guides for farmers and ranchers. 116 pp.


In this publication there is a study which evaluates price factors contributing to uncertainty in livestock production and measures income variability for different enterprises. 17 pp.
This publication includes some tips how to design proper equipment and housing for beef cattle. 20 pp.


This publication includes some small-scale farming enterprises such as chickens, turkeys, ducks, geese, dairy cows, dairy goats, sheep, rabbits, and hogs. 22 pp.

This report represents estimates of input requirements, specified costs, and returns for different kinds of beef cattle that can utilize the forages produced on Arkansas farms. 34 pp.

C.2.23. Spooner, A. E., and Maurice L. Ray, FINISHING YEARLING STEERS ON PASTURE WITH GRAIN, Agricultural Experiment Station, University of Arkansas, Bulletin 772, April, 1972.
This report describes the results of three studies of analyzing costs of feeding steers.

This report was developed as a step toward estimating the economic potential for adjusting present land use. It includes some budgets which will help farmers to make decisions. 75 pp.

C.3. Hogs


C.3.5. Phillips, Richard E., and Donald C. Rains, PORTABLE FARROWING CRATE, UNIVERSITY OF MISSOURI-Columbia Extension Division, Small Farm Operators Series SF 10, 4/77/2M.


C.3.14. Stevermer, Emmett, Palmer Holden, and Jim McKean, FEEDING AND MANAGING THE...SWINE BREEDING HERD, Cooperative Extension Service, Iowa State University, Pm-583, June, 1977. This publication describes some facts about swine such as prebreeding management, health care of the breeding herd, housing the breeding herd, feeding the breeding herd, and breeding season management. 8 pp.


C.3.16. Erlandson, Gordon W., and Ronald G. Fraase, GEOGRAPHIC CHANGES IN THE PRODUCTION ON HOGS AND PIGS IN THE NORTH CENTRAL REGION, North Dakota Agricultural Experiment Station, North Dakota State University, North Central Regional Publication 201, Bulletin 484, November, 1969. This study identifies the changing marketing density patterns in the North Central Region in the United States for hogs and pigs. 32 pp.


D. POULTRY

D.1. Broilers


D.1.2. Purchase, Graham H., FARM POULTRY MANAGEMENT, United States Department of Agriculture, Farmers Bulletin 2197, Agricultural Research Service, June, 1977. This publication is a good guide for those in the poultry business. It includes a broad explanation about poultry management. 37 pp.


D.1.5. Schipper, I. A., DISINFECTION FOR HEALTHIER LIVESTOCK AND
POULTRY, Cooperative Extension Service, North Dakota State
University, Circular A-319, September, 1975, 5 pp.

D.1.6. McBride, Dean K., and Dennis D. Kopp, INSECT AND MITE CONTROL
FOR POULTRY, Cooperative Extension Service, North Dakota

D.1.7. Hady, Frank T., and Truman Noland, OUR CHANGING POULTRY
ENTERPRISE AND ITS RELATION TO DAIRY CATTLE AND HOGS, Agri-
culture Experiment Station, University of Minnesota and
United States Department of Agriculture, Bulletin 409,
October, 1951.

This publication describes some trends in poultry enterprise
and why many changes have taken place in poultry production.

D.2. Eggs

D.2.1. Miles, James F., and B. D. Raskope, EGG MARKETING PRACTICES
IN SEVEN SOUTHERN STATES, Southern Cooperative Series,

This report discusses egg-marketing practices and systems
in seven southern states and recommendations for improved
practices and systems. 26 pp.

D.2.2. Roy, Ewell P., EGG MARKETING BY COMMERCIAL PRODUCERS IN THE
SOUTH, Agricultural Experiment Station of the South of
United States and United States Department of Agriculture,

This report describes the organization and operation of
commercial egg flocks in the south and why southern states
should deficit in the enterprises. It analyzes the develop-
ment of egg grading in the south relative to its effect on
net returns to producers and on egg quality in general.
100 pp.

D.2.3. Hasiak, R. J., FACTORS AFFECTING EGG QUALITY, Cooperative
Extension Service, Iowa State University, PS-106, August,
1977.

This circular includes a summary of factors that affect the
quality of eggs as well as suggested methods for correcting
the particular program. 12 pp.

D.2.4. Schrader, Lee F., Henry E. Larzelere, George B. Rogers, and
Olan D. Forker, THE EGG SUBSECTOR OF UNITED STATES AGRICULTURE:
A REVIEW OF ORGANIZATION AND PERFORMANCE, Agricultural Experi-
ment Stations of Alabama, California, Cornell, Florida, Illinois,
Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Mississippi,
Nebraska, New Mexico, North Dakota, Ohio, South Dakota, and
Wisconsin, North Central Regional Research Publication 258, June,
1978, Published by Purdue University, 84 pp.
D.3. Ducks, Geese, and Turkeys


E. MANAGEMENT

E.1. Budgeting

E.1.1. Horlacher, W. R., and C. O. Brannen, ADJUSTMENTS IN FARM ORGANIZATION FOR INCREASING FARM INCOME IN HEMPSTEAD COUNTY, ARKANSAS, Agricultural Experiment Station, University of Arkansas, Bulletin 442, June, 1943.
This bulletin includes a study which determines the agricultural conditions in Hempstead County in 1973 and determines how agriculture in general and individual farm income might be improved by changes in the organization of farms. 91 pp.

This publication is a farmers tax guide. It is a tax management guide of United States farmers. 20 pp.

E.1.3. Rice, Billy B., and Tommy Reff, North Dakota Farm Account Book, SEPARATE SIX-YEAR DEPRECIATION SCHEDULE AND OPTIONAL FARM BUSINESS ANALYSIS, Cooperative Extension Service, North Dakota State University.

E.1.4. Reiss, Franklin J., GETTING STARTED AND ESTABLISHMENT IN FARMING WITH AND WITHOUT FAMILY HELP, Extension Service in Agriculture and Home Economics, University of Illinois, North Central Regional Extension Publication No. 8, June, 1960.
This publication sets forth the requirements for successful establishments in farming today. 52 pp.

This publication presents decision aids to assist managers who must make decisions under risk and uncertainty situations. 14 pp.
   This budgeting procedure provides the opportunity to examine present or proposed systems of farming. 3 pp.


   This publication is a production function study of marginal returns on farms fixed plants.


E.1.10. Yearly, Edward, ARE THERE WAYS TO EARN MORE FROM YOUR SMALL FARM?, Division of Agricultural Sciences, University of California, Leaflet 2215, May, 1976, 5 pp.

E.1.11. Johnson, Jerome E., SUGGESTIONS ON FATHER AND SON FARMING AGREEMENTS, Agricultural Experiment Station, North Dakota State University, Agricultural Economics Miscellaneous Report No. 29, September, 1977.


   This paper reflects some issues related to farm size efficiency. P. 727-737.

   This bulletin tells how to develop and follow a spending plan that you can use to make your dollars respond to the wishes of your family. 14 pp.

   This planning guide is designed to save you from complicated bookkeeping. It provides guidelines for spending and saving to fit special needs and goals. 8 pp.
E.1.16. A SIX YEAR DEPRECIATION SCHEDULE FOR USE WITH THE NORTH DAKOTA FARM ACCOUNT BOOK, Cooperative Extension Service, North Dakota State University, 1969. This booklet contains a year depreciation record for the farm machinery and equipment on a farm. 23 pp.

E.2 Credit and Financing


E.2.4. Anderson, Ron, LIFE INSURANCE FOR YOUNG FARM FAMILIES, Cooperative Extension Service, North Dakota State University, October, 1972. This publication includes facts such as how to determine protection need, how much life insurance? 15 pp.


E.3. Marketing


E.3.4. Hammond, Jerome W., and Truman F. Graf, STUDY OF PRICES FOR MILK IN MANUFACTURING USES, Agricultural Experiment Station, University of Minnesota, Station Bulletin 497, 1969. This publication describes and evaluates various milk price series used in administrative price programs for fluid milk markets. 35 pp.


E.3.6. Anderson, Jonathan D., and Roger G. Johnson, ANALYSIS OF OPTIMUM FARM ORGANIZATION IN THE RED RIVER VALLEY, Agricultural Experiment Station, North Dakota State University, Bulletin 489, March, 1971. This publication describes the characteristics of three types of farm organizations. Farm size and profit maximization in each type. 15 pp.


E.3.13. Extension Economists, GENERAL ECONOMIC OUTLOOK, Cooperative Extension Service, North Dakota State University, North Dakota State University, Fall and Winter Outlook 1977-1978, October, 1977. This is a report on the situation and outlook for agriculture, the new farm program, and most of the major commodities in North Dakota. 28 pp.


E.4. Leasing Arrangements

E.4.2. Harris, Marshall, YOUR CASH FARM LEASE, United States Department of Agriculture Farm Lease Publications, Washington, D.C., Miscellaneous Publication No. 836, February, 1974. This publication includes a method for estimating rent. It is designed to make most effective contributions of both landlord and tenant to farm production. 15 pp.


E.4.5. Ladue, Eddy L., EQUIPMENT LEASING AND RENTING AS ALTERNATIVE SOURCES OF INVESTMENT CAPITAL FOR NORTHEAST FARMERS, Agricultural Experiment Station, Cornell University, New York, New Yorks Food and Life Sciences Bulletin No. 67, August, 1977. This study determines the availability of and terms for leasing and renting farm machinery in the northeast and to assess the relative advantages of these two alternatives compared to outright purchase. 15 pp.

E.4.6. Heady, Earl O., Gerald W. Dean, and Alvin C. Egbert, ANALYSIS OF THE EFFICIENCIES OF ALTERNATIVE FARM LEASING ARRANGEMENTS, Agricultural Experiment Station, Iowa State College, Research Bulletin 445, November, 1956. This study investigates various types of leases for leasing efficiency under specific farm resource situations. It is an application of Linear Programming. P. 935-959.

E.4.7. Sangeland, Sigurd R., IMPROVING FARM LEASES IN NORTH DAKOTA, Agricultural Experiment Station, North Dakota State University, Bulletin 417, June, 1958, 21 pp.


F. IRRIGATION

F.1. Pumps

F.1.1. Institute of Irrigation Technology, IRRIGATION WELL CONSTRUCTION, Cooperative Extension Service, South Dakota State University, Circular FS-411, 5M-12-68-8531, 4 pp.

F.1.2. Lundstrom, Darnell R., IRRIGATION PUMPS, Experiment Extension Service, North Dakota State University, Circular AE-89. This bulletin describes four different types of pumps. 6 pp.

F.1.3. IMPROVING PUMPING PLANT EFFICIENCIES, Cooperative Extension Service, North Dakota State University, 6 pp.
This publication helps farms to make decisions about how much water to apply and when to irrigate. 14 pp.

This publication explains the proper procedures to follow to obtain a dependable and efficient irrigation well. 8 pp.


This publication describes the characteristics of an engine or motor that must fit the irrigation pump requirements for better efficiency. 6 pp.

This circular describes the characteristics of the horizontal and vertical centrifugal types pumps. 6 pp.

The purpose of this bulletin is to present an analysis of specific irrigation development problems on the Colorado high plains. 41 pp.

F.2. Trickle System


F.2.2. Olson, Carl E., and Joseph H. Paulson, IRRIGATION AS A FARM GROWTH STRATEGY, Agricultural Experiment Station, North Dakota State University, Bulletin 486, October, 1969.
This study is an investigation of the farm organizational and operational strategies for survival and economic growth that has been used by North Dakota farmers who have irrigated their farms for several years. 11 pp.

F.3. Other Methods


F.3.2. Sweeney, M. D., SOIL AND WATER CHARACTERISTICS IMPORTANT IN IRRIGATION, Cooperative Extension Service, North Dakota State University, Circular S and F-573, 5 pp.


F.3.4. Bauer, Armand, and Howard Olson, IRRIGATION OF SMALL GRAINS, Cooperative Extension Service, North Dakota State University, Circular S-F-101, September, 1976. This publication describes an irrigated cropping sequence for wheat, oats, and barley. 8 pp.


F.3.6. Burbank, Wayne, E., INTRODUCTION TO IRRIGATION...A CHECK LIST, Experiment Extension Service, North Dakota State University, Circular AE-92, July, 1975. This is a guide which includes a checklist of the steps to be followed for orderly irrigation development. 4 pp.


F.3.9. McLellan, Daniel J., WATER CONDITIONING, Experiment Extension Service, North Dakota State University, Circular A-449, February, 1964. This circular gives some guides how or when water should be softened. 4 pp.


G. FRUITS AND VEGETABLES

G.1. Fruits


G.1.5. Rom, R. C., and E. H. Arrington, PEACH VARIETY EVALUATION, Agricultural Experiment Station, University of Arkansas, Report Series 122, November, 1963. This report covers only those varieties of peaches suitable for Arkansas. 22 pp.

G.1.6. Scott, G. H., GROWING STRAWBERRIES IN THE SOUTHEASTERN AND GULF COAST STATES, United States Department of Agriculture, Agricultural Research Service, Farmers Bulletin 2246. This publication describes how the strawberries are growing, including tillage, weed control, fertilization, irrigation, harvesting, and diseases. 33 pp.

   This circular describes some types of varieties of strawberries. 2 pp.

   It includes some methods how to grow raspberries in home gardens. 2 pp.


G.1.11. Cooper, J. R., FACTORS AFFECTING PRODUCTION AND QUALITY OF APPLES, Agricultural Experiment Station, University of Arkansas, Bulletin 560, January, 1956.
   This bulletin includes the history of apple orcharding in Arkansas since 1833. 83 pp.

   This publication makes a description of the factors which have influenced the production of peaches in Arkansas. 60 pp.

G.2. POTATOES


G.2.2. GROWING POTATOES UNDER IRRIGATION, Cooperative Extension Service, North Dakota State University, Circular AE-96.
   This publication includes some aspects on production potatoes such as: planting dates, varieties, seeding rate, planting depth, yield potential, etc.


G.3. Vegetables


G.3.3. Krause, Ruth, SQUASH, Cooperative Extension Service, North Dakota State University, Circular HE-122, 24-F and N-2. This circular describes some squash varieties which are cultivated in North Dakota. 4 pp.


H. MACHINERY AND IMPLEMENTS

H.1. Tractors


H.2. Harvesting and Tillage

H.2.1. HARVESTING MALTING BARLEY, Cooperative Extension Service, North Dakota State University, January, 1973. This publication includes a method which determines the gauging combine capacity for harvesting barley. 6 pp.

H.2.2. Hofman, Vern, and Henry Kucera, GRAIN HARVEST LOSSES, Cooperative Extension Service, North Dakota State University, Circular AE-627, September, 1978. This publication indicates why the major portion of grain harvesting losses results from shatter before the grain gets into the machine. 4 pp.

H.2.3. Reed, W. B., GRAIN AND STRAW SEPARATION IN COMBINES, Agricultural Engineering Department, University of Saskatchewan, July, 1976. This publication includes those factors which have some effect on the ability of the straw walkers to handle or separate the grain from the straw. 7 pp.

H.3. Machinery Management


H.3.2. Ayres, George E., and David L. Williams, ESTIMATING FIELD CAPACITY OF FARM MACHINES, Cooperative Extension Service, Iowa State University, Machinery Management Series, Pm-696, August, 1976. This publication includes average field speeds, field efficiencies, and effective field capacities for Iowa farm machines. 4 pp.

H.3.3. Ayres, George E., ACQUIRING FARM MACHINERY SERVICES: OWNERSHIP, CUSTOM HIRE, RENTAL LEASE, Cooperative Extension Service, Iowa State University, Machinery Management Series, Pm-787, July, 1977. This publication includes some common methods of acquiring farm machinery services. 6 pp.

H.3.4. Hofman, Vernon, MACHINERY SELECTION FOR PROFIT, Cooperative Extension Service, North Dakota State University, January, 1977. This publication gives some ways how farmers should make decisions for selecting farm machinery and how big the machinery must be in order to increase profits. 25 pp.
H.3.5. Gilbertson, Conrad B., AIDS FOR PLANNING MECHANIZED FEEDING, Cooperative Extension Service, North Dakota State University, Circular AE-75, January, 1966. This circular is intended as a guide for developing a mechanized livestock feeding system. 57 pp.

H.3.6. Eidsvig, Douglas H., and Carl E. Olson, DETERMINING LEAST-COST MACHINERY COMBINATIONS, Agricultural Experiment Station, North Dakota State University, Bulletin 479, January, 1969. This publication describes a study which was designed to provide information to help the farmer with his machinery investment decisions. 26 pp.

I. PESTS, DISEASES, AND THEIR CONTROL

I.1. In the Farm Crops


I.1.5. Hosford, Jr., Robert, FUNGAL LEAF SPOT DISEASES OF WHEAT IN NORTH DAKOTA, Department of Plant Pathology, Agricultural Experiment Station, North Dakota State University, Bulletin 500, January, 1976. This bulletin brings together and adds to our current knowledge of fungal leaf spot disease of wheat in North Dakota. 12 pp.

   Leaf diseases causing greatest yield losses in North Dakota wheat are caused by fungi. How to control this disease is the purpose of this guide. 2 pp.

   Ergot, a disease that attacks cereals and grasses all over the world, is described in this publication. 4 pp.


   Included in this guide is how to control and when to control the two most injurious types of grasshoppers.


   This report is supplied as a basis for answering routine inquiries on this yellow dwarf disease and what my be done to combat it. 12 pp.


   Both fungicides and/or insecticides seed treatment methods applied to seed before planting are described in this circular. 3 pp.

I.1.16. McBride, Dean K., CONTROL OF INSECTS IN FARM-STORED GRAIN, Cooperative Extension Service, North Dakota State University, Circular E-552.
   Prevention and control of stored grain insects are topics included in this publication. 4 pp.

   Four types of dry edible bean diseases are described in this publication. 6 pp.

   A description of the Mexican bean beetle and how to control it is the important topic of this publication.

   Description, habits, damage and control of these insects are included in this publication. 8 pp.


   The purpose of this pamphlet is to help farmers identify some of the more common corn diseases in the midwest U.S.A.


I.2. In Homes and Gardens

   This bulletin tells how to recognize and control the more common insects and mites that attack trees and shrubs in widespread areas. 50 pp.

Five of the most common kinds of fleas are described and their development and how to control them. 6 pp.


This leaflet sets up a simple fruit spray guide to control insects in home and gardens.


I.2.22. Oman, P. W., and Arthur D. Cushman, COLLECTION AND PRESERVATION OF INSECTS, United States Department of Agriculture, Agricultural Research Service, Miscellaneous Publication 601, April, 1964. This publication gives information on collecting, preserving, handling, mounting, and labeling insect specimens on subsequent care of collections and or recognition of the general insect groups or orders. 42 pp.

J. COMMUNITY DEVELOPMENT

J.1.1. Leagans, Paul J., RURAL DEVELOPMENT: AN EMERGING SOCIAL, ECONOMIC, AND DEMOGRAPHIC IMPERATIVE, Agricultural Experiment Station, Cornell University, New York, Food and Life Sciences Bulletin No. 40, June, 1974. The purpose of this paper is to analyze some majors dimensions of the trend and relate the implication to emerging opportunities of land-grant universities, government agencies, and business enterprises for broading public service to rural modernization.

J.1.2. Powers, Ronald C., UNDERSTANDING OURSELVES AND OTHERS, Cooperative Extension Service, South Dakota State University, North Central Regional Extension Publication 29, NCRS-5, Leadership Series 3. This publication presents the processes involved in developing our own personalities and the needs which motivate our behavior. 8 pp.
This bulletin draws upon research and experience in presenting a technique for identifying the key influentials or power actors in a community. 11 pp.

The objective of this bulletin is to increase the effectiveness of Extension Personnel and other changing agents in community resource development through greater understanding of community power structure, levels of community leadership, and social action. 15 pp.

This bulletin describes the business activity created in the Colorado agricultural economy by each dollar's worth of production or through-put in each agricultural sector. 16 pp.

This study in an application of input-output analysis to a 21-sector model of the United States Economy in 1949. Pp. 152-172.

K. MISCELLANEOUS

This publication tells why a continuous supply of water results in better gain and production than twice-daily watering. 4 pp.


  How to start in beekeeping business and its management is the topic described in this bulletin. 11 pp.

  Characteristics, composition, and types of honey is discribed in this guide. 4 pp.