

The Uses of Efficiency Factors in Analysis of Farm

Dhananjayrao Gadgil Library

By JOHN A. HOPKIN

GIPE-PUNE-046526

AGRICULTURAL EXPERIMENT STATION
IOWA STATE COLLEGE OF AGRICULTURE
AND MECHANIC ARTS

R. M. HUGHES, Acting Director

AGRICULTURAL ECONOMICS SECTION



RESEARCH BULLETIN NO. 160

JUNE, 1933

AMES, IOWA

The Uses of Efficiency Factors in Analysis of Farm Records

By JOHN A. HOPKINS, JR.

AGRICULTURAL EXPERIMENT STATION
IOWA STATE COLLEGE OF AGRICULTURE
AND MECHANIC ARTS

R. M. HUGHES, Acting Director

AGRICULTURAL ECONOMICS SECTION

AMES, IOWA

TABLE OF CONTENTS

	Page
Introduction	123
Scope of Study	124
Types of Farms Studied	126
Net Farm Income as Related to Management Returns	127
Financial Factors and Ratios	130
The Income per \$100 Invested	130
Percentage Expense to Income	131
Percentage Invested in Working Capital	133
Factors Related to the Cropping System	135
Total Acres in the Farm	135
Acres in Corn	136
Yield of Corn—Value of Crops per Acre	139
Factors Related to the Livestock System	140
Number Litters of Spring Pigs	141
Number Litters of Fall Pigs	144
The Hog Income per Sow	145
Number of Beef Cattle Fed	147
Beef Income per Head	150
Dairy Income per Cow	151
Livestock Income per \$100 of Feed	152
Efficiency in Use of Cost Elements	155
Months of Labor Used on the Farm	156
Crop Acres per Man	158
Livestock Increase per Man	161
Results for Individual Years Compared with Three-year Averages	163
Variations in Managerial Ability and Interpretation of Effi- ciency Factors	165
Aggregate Relationship of Factors to Farm Returns	170
To What Use Can These Relationships Be Put?	172
Use of the Curves in Measuring Year-to-year Progress	175